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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

4th FEBRUARY, 2022

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**THE PATENT OFFICE
KOLKATA, 04/02/2022**

Address of the Patent Offices/Jurisdictions

The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

<p>1 Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: cgpdtm@nic.in</p>	<p>4 The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai - 600 032.</p> <p>Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: chennai-patent@nic.in</p> <p>❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.</p>
<p>2 The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in</p> <p>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli</p>	<p>5 The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091</p> <p>Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in</p> <p>❖ Rest of India</p>
<p>3 The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi - 110075</p> <p>Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E.mail: delhi-patent@nic.in</p> <p>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.</p>	

Website: www.ipindia.nic.in

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेटेंट कार्यालय
कोलकाता, दिनांक 04/02/2022

• कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

<p>1 कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdmt@nic.in</p>	<p>4 पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फ़ैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप</p>
<p>2 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ <input type="checkbox"/> गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दावर और नगर हवेली.</p>	<p>5 पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र</p>
<p>3 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़</p>	

वेबसाइट: <http://www.ipindia.nic.in>

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

SPECIAL NOTICE

18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

SPECIAL NOTICE

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

SPECIAL NOTICE

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is there is no third party representation.

Early Publication:

The following patent applications have been published under section 11A (2) of The Patents (Amendment) Act 2005 and rule 24A of The Patents (Amendment) Rules, 2006. Any person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011055152 A

(19) INDIA

(22) Date of filing of Application :18/12/2020

(43) Publication Date : 04/02/2022

(54) Title of the invention : ROTATION WEDGE

(51) International classification :G01D0005140000, A61B0005145000, E02F0009280000, E04C0005120000, A61K0038000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to the rotation wedge which is used to correct rotation of a single tooth or multiple teeth by applying individual wedges to multiple individual brackets/teeth. The rotation wedges is simple and inexpensive to make and has less force decay than elastomeric alternatives.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011055154 A

(19) INDIA

(22) Date of filing of Application :18/12/2020

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SINGLE STEP SHORT DURATION SPACE MAINTAINER

<p>(51) International classification :A61C0007280000, A61K0039120000, A61B0017220000, C07K0019000000, G06K0007000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SANTOSH DEEMED TO BE UNIVERSITY Address of Applicant :NO.1, SANTOSH NAGAR, GHAZIABAD-201009, UTTAR PRADESH, INDIA ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. NEETI MITTAL Address of Applicant :DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY, SANTOSH DEEMED TO BE4 UNIVERSITY, NO.1 SANTOSH NAGAR GHAZIBAD, UTTAR PRADESH, INDIA, 201009 ----- -----</p> <p>2)DR. MANOJ GOYAL Address of Applicant :DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY, SANTOSH DEEMED TO BE4 UNIVERSITY, NO.1 SANTOSH NAGAR GHAZIBAD, UTTAR PRADESH, INDIA, 201009 ----- -----</p>
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(57) Abstract :

The present invention relates to a single step short duration space maintainer. The loop can be adjusted in buccal and lingual tubes attached on band to ensure the correct mesiodistal dimensions of loop.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011055866 A

(19) INDIA

(22) Date of filing of Application :22/12/2020

(43) Publication Date : 04/02/2022

(54) Title of the invention : MOLYBDENUM VANADIUM NIOBIUM TELLURIUM OXIDE (MO-V-NB-TE-O) CATALYST FOR THE AMMOXIDATION OF PROPANE TO ACRYLONITRILE

(51) International classification :B01J0037020000, C07C0253240000, C07C0253260000, B01J0027057000, B01J0023280000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :Centre of Excellence in Petrochemicals, Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee-247667 -----

(57) Abstract :

The present invention relates to a system and method for molybdenum, vanadium, niobium, tellurium oxide (Mo-V-Nb-Te-O) catalyst and its method of preparation for the ammoxidation of propane to acrylonitrile. The method proposes the production of acrylonitrile by the ammoxidation of low cost and abundantly available propane. The development of a highly efficient Mo-V-Nb-Te-O catalyst for selective conversion of propane to acrylonitrile at mild reaction condition is proposed.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111003398 A

(19) INDIA

(22) Date of filing of Application :25/01/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD OF DETERMINING FLAME RESISTANCE OF TEXTILES

(51) International classification :D02G0003440000, D06M0011440000, C08L0069000000, D06M0011790000, A41D0031080000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA

Filing Date

(62) Divisional to Application Number :NA

Filing Date :NA

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Name of Applicant : NA

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(72)Name of Inventor :

1)KUMAR, Nandan

Address of Applicant :Institute of Technical Textiles, Plot 145, HSIIDC, Phase 1, Barhi, Sonipat, Haryana, India -----

(57) Abstract :

The present invention provides a method of testing the flame resistance of fibers intended to be converted to a yarn for making of protective textile, which involves minimal steps for testing the flammability of textiles with high level of repeatability. The method involves flammability testing of slivers instead of finished fabric or textile. The slivers are wrapped around and then exposed to thermal hazard in the form of flame or hot air to check the flame resistance of the sliver and in turn the flame resistance of the finished fabric.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111003434 A

(19) INDIA

(22) Date of filing of Application :25/01/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : MULTI MICRONUTRIENT (MMN) – 3-STAGE COURSE FOR TRIMESTER IN PREGNANCY

(51) International classification :A61K0008600000, A23L0033160000, C05D0009020000, A23L0033150000, A61K0031441500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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2)Surbhi, Gupta

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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Address of Applicant :309A, sector 15A, Noida, Uttar Pradesh-201301, India -----

2)Surbhi, Gupta

Address of Applicant :309A, sector 15A, Noida, Uttar Pradesh-201301 -----

(57) Abstract :

The present invention provides a formulation of multi micronutrient (MMN) of 3-stage course for each trimester of pregnancy comprising: vitamins and minerals for first trimester of pregnancy; vitamins and minerals for second trimester of pregnancy; and vitamins and minerals for third trimester of pregnancy. The present invention furthermore provides a kit having a formulation of multi micronutrient (MMN) of 3-stage course for each trimester of pregnancy.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111003543 A

(19) INDIA

(22) Date of filing of Application :27/01/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD FOR LCMS BASED PROTEOMIC ANALYSIS OF CIRCULATING IMMUNE COMPLEXES FROM TUBERCULOSIS PATIENTS

<p>(51) International classification :G01N0033680000, G01N0033564000, G01N0033920000, B01L0003000000, C07K0014350000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SANTOSH DEEMED TO BE UNIVERSITY Address of Applicant :NO.1, SANTOSH NAGAR, GHAZIABAD-201009, UTTAR PRADESH, INDIA ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MR. AJAY KUMAR Address of Applicant :DEPARTMENT OF MICROBIOLOGY, SANTOSH DEEMED TO BE UNIVERSITY, No.1 Santosh Nagar, Ghaziabad, Uttar Pradesh, India, 201009 ----- --</p> <p>2)DR. DAKSHINA BISHT Address of Applicant :DEPARTMENT OF MICROBIOLOGY, SANTOSH DEEMED TO BE UNIVERSITY, No.1 Santosh Nagar, Ghaziabad, Uttar Pradesh, India, 201009 ----- --</p>
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(57) Abstract :

The present invention relates to a system and rapid tuberculosis diagnostics more sensitive and specific biomarkers which are more accessible is still desirable. Present invention provides the proteomic profile of circulating immune complexes from Tuberculosis patients. The circulating immune complexes based assays is helpful in diagnosis of Tuberculosis due to its simplicity and limited invasiveness especially in patients with extra-pulmonary Tuberculosis.

No. of Pages : 18 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111008488 A

(19) INDIA

(22) Date of filing of Application :01/03/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : 3D PRINTED CATERPILLAR CAMOUFLAGED SYRINGES

<p>(51) International classification :A61M0005240000, A61M0005145000, C08K0003040000, A61M0005320000, H05K0001030000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. SIMRAN HARESHKUMAR DUSSEJA Address of Applicant :PACIFIC DENTAL COLLEGE AND HOSPITAL, UDAIPUR, RAJASTHAN, INDIA-313024 ----- ----- 2)DR. DINESH RAO 3)DR. SUNIL PANWAR 4)DR. SAFNA AMEEN Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. SIMRAN HARESHKUMAR DUSSEJA Address of Applicant :PACIFIC DENTAL COLLEGE AND HOSPITAL, UDAIPUR, RAJASTHAN, INDIA-313024 ----- ----- 2)DR. DINESH RAO Address of Applicant :PACIFIC DENTAL COLLEGE AND HOSPITAL, UDAIPUR, RAJASTHAN, INDIA-313024 ----- ----- 3)DR. SUNIL PANWAR Address of Applicant :PACIFIC DENTAL COLLEGE AND HOSPITAL, UDAIPUR, RAJASTHAN, INDIA-313024 ----- ----- 4)DR. SAFNA AMEEN Address of Applicant :PACIFIC DENTAL COLLEGE AND HOSPITAL, UDAIPUR, RAJASTHAN, INDIA-313024 ----- -----</p>
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(57) Abstract :

The present invention relates to the development of camouflaged drug delivery device or syringes for reducing the anxiety and fear in patients during treatment. It specifically relates to the development of 3D printed camouflaged drug delivery device or syringes for reducing the anxiety and fear in dental patients. More particularly it relates to the development of 3D printed custom-made caterpillar camouflaged drug delivery device or syringes for reducing the anxiety and fear in dental patients while carrying out dental treatments specially children. The invention also pertains to the development of method for preparing the 3D printed custom-made caterpillar camouflaged drug delivery device or syringes for reducing the anxiety and fear in dental patients. The invention further relates to the practicing the use of 3D printed caterpillar camouflaged drug delivery device or syringes for reducing the anxiety and fear in dental patients.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054294 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN ADVANCE MANAGEMENT OF IOT BASED FARMING SYSTEM AND METHOD THEREOF

(51) International classification :A01B0079000000, G06Q0010040000, C25B0011030000, C07K0014005000, C01B0003340000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a system and method for the advance management of the IoT based farming system to augment productivity and in the interim mitigating production cost and miniaturizing environmental concussion. The present invention has the potential to provide alternative and optimal land use practices for sustainable economic development. Smart-game based farming has the budding edge in providing sustainable economic development. Game farming is economically viable, nevertheless it confides on sterling management and market privileges.

No. of Pages : 24 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111055191 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM AND A METHOD FOR PHASE CHANGING

(51) International classification :B60L0015020000, H02M0007000000, B60R0016030000, H02H0001000000, G01R0019250000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system (10) and a method for phase changing is provided. The system includes relays (20) to receive corresponding phases (30) from a power source (40). The relays are to provide controlled supply of the corresponding phases to corresponding loads. The system includes a microcontroller (50) adapted to receive voltage thresholds and current thresholds corresponding the phases via a user interface (60). The microcontroller is to compare voltages and currents of the corresponding phases with the voltage thresholds and the current thresholds received. The microcontroller is to provide control signals to switch the relays to provide power to the loads from a predefined phase when the voltages or the currents of a phase corresponding to the loads are connected falls outside the corresponding voltage thresholds or current thresholds of the phase upon comparison.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111056940 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A METHOD OF SYNTHESIS OF NOVEL LIGAND AND FE(II)-METALLOPOLYMER AS FUNCTIONAL MATERIALS

(51) International classification :H01L0051050000, G11C0013000000, G06Q0010100000, B82Y0020000000, B82Y0035000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

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Name of Applicant : NA

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(72)Name of Inventor :

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Address of Applicant :Department of Polymer and Process Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur-247001 -----

(57) Abstract :

The present invention relates to a metallopolymer and its method of synthesis which has potential to replace the Silicon in memristive devices since they have shown good On/OFF ratio comparable to Silicon chips while working in ambient condition. They can be fabricated by simple organic polymer fabrication process like spin coating, dip coating etc. The invention provides cost effective approach for metallopolymer synthesis and fabrication setup (fig 1).

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060445 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : HONEY BEE SYSTEM

(51) International classification :H04L0029080000, G06Q0010080000, E05B0065100000, G01S0005020000, A01N0025220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

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(57) Abstract :

The present invention discloses an automated honey bee cultivation system that includes a microcontroller (204), a server (104), a sound detection sensor (206) connected with the microcontroller, wherein the sound detection sensor is placed in a middle of a beehive box, wherein the sound detection sensor detects sound produced by a queen bee and worker bees during ventilation, awakening dance sound, threatening flight, and synchronize the detected sound over a predefined period of time and send the synchronized sound with the microcontroller in the form of analog signals. The system further includes a temperature and humidity detection sensor (208) having a sampling rate of 1Hz connected with the microcontroller, wherein the temperature and humidity detection sensor detects temperature and humidity in a vicinity of the beehive box, and sends the detected temperature and humidity to the microcontroller.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : A STRONG GROUND MOTION SENSOR

<p>(51) International classification :H04W0004380000, G01V0001000000, G01P0015080000, G01V0001180000, A61B0005110000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY ROORKEE Address of Applicant :ROORKEE -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)GOVIND RATHORE Address of Applicant :Department of Earthquake Engineering, Indian Institute of Technology Roorkee, Roorkee- 247667 ----- -----</p> <p>2)DR. ASHOK KUMAR Address of Applicant :Department of Earthquake Engineering, Indian Institute of Technology Roorkee, Roorkee- 247667 ----- -----</p> <p>3)DR. RAVI SANKAR JAKKA Address of Applicant :Department of Earthquake Engineering, Indian Institute of Technology Roorkee, Roorkee- 247667 ----- -----</p> <p>4)DR. MUKAT LAL SHARMA Address of Applicant :Department of Earthquake Engineering, Indian Institute of Technology Roorkee, Roorkee- 247667 ----- -----</p> <p>5)DR. KAMAL Address of Applicant :Department of Earthquake Engineering, Indian Institute of Technology Roorkee, Roorkee- 247667 ----- -----</p>
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(57) Abstract :

The present invention relates to a low-cost accelerometer sensor, which is an EEW sensor. The strong ground motion sensor operates with solar light has a dual mounting facility. The sensor has inbuilt SIM card support for providing Internet Connectivity. It works as a simple data recorder or as an onsite earthquake early warning system or as a sensor to transmit real-time strong ground motion data to one or more servers or as a siren/relay for regional EEW system or as a combination of these. Three LED lights have been provided for quick information about the status. The sensor is provided with a web-based portal for configurations.

No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062011 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A LOW-COST EARTHQUAKE EARLY WARNING SIREN (EWS) FOR HOME/OFFICE

(51) International classification :G01V0001000000, G08B0021100000, G10K0007040000, A61B0005000000, G08B0027000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(57) Abstract :

The present invention relates to a low-cost earthquake early warning dissemination siren for home/office, which could alert people at home or small offices by receiving an early warning from a warning server. A digital clock and temperature sensor has been included in this siren for increasing the utility of this siren. The siren also consists of a low-cost MEMS-based accelerometer, which enables this siren to stream the real-time strong ground motion data to a data server. The transmitted acceleration data could be used to get information about the acceleration levels during the earthquake as well as for real-time earthquake detections also.

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111062254 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM AND METHOD OF ULTRASOUND INDUCED CATALYTIC DETOXIFICATION OF ACRYLONITRILE FROM AQUEOUS SOLUTION

(51) International classification :C02F0001720000, B01J0023000000, B01J0037080000, A61K0031419200, C07C0209680000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to an ultrasound induced catalytic detoxification of acrylonitrile from aqueous solution. The present invention provides method of developing series perovskite like catalyst LaTixZn1-xO3 ($x = 0, 0.25, 0.5, 0.75, 1$)/US/PMS for the degradation of acrylonitrile which is very efficient, economic and enviro-friendly.

No. of Pages : 30 No. of Claims : 5

(54) Title of the invention : 3D PRINTER FRAME STRUCTURE COMPRISING MULTIPLE GANTRIES WITH A ROTARY BED.

(51) International classification :B23Q0001010000, B25G0001080000, B33Y0030000000, B23K0026380000, F24F0003140000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The 3D printer frame structure of the disclosed invention is a mixture of polar type and Cartesian type 3D printers with multiple gantries. The disclosed 3d printer structure comprises a base frame obtained by fitting multiple v-slot channels in a circular pattern with the help of a hub. With the help of guide wheels mounted on the base frame, the rotary bed is held in place, which is free to rotate around its center. Multiple gantries have been installed on the base frame in a circular pattern. Each of the v-slot channels of the base frame holds a gantry that further holds z-axis carriage, radial axis carriage, and extrusion carriage. The 3D printer of the disclosed invention has a build volume of hollow cylindrical shape with large volume. A vertical spool holder has been mounted in the center of the base frame, which can hold multiple filament spools.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211000637 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A LOW-COST EARTHQUAKE EARLY WARNING SIREN FOR PUBLIC

(51) International classification :H04L0029080000, G08B0027000000, G10K0007040000, G08B0003100000, G08G0001096500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a low-cost public siren to alert the public about the upcoming impending damaging earthquakes waves at their places. This siren could be also used for receiving early warnings from the warning server for disasters. The public siren receives a warning message over MQTT protocol through a warning server and alerts the public by blowing the loudspeakers.

No. of Pages : 24 No. of Claims : 4

(54) Title of the invention : AN AUTONOMOUS SYSTEM FOR LOW PAYLOAD GRIPPER CHANGING MECHANISM AND ITS METHOD THEREOF

<p>(51) International classification :B25J0015040000, B25J0009160000, B25J0009000000, B25J0015000000, B25J0019020000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)IIT ROPAR-TECHNOLOGY AND INNOVATION FOUNDATION Address of Applicant :3 Floor M. Visvesvaraya, Room no. 316, 317, IIT Ropar, Rupnagar- 140001, Punjab, India ----- -- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)YADAV, Vineet Address of Applicant :Flat No. - 210, Zodiac Apartment, Sector 2B, Vrindavan Colony, Lucknow- 226029, Uttar Pradesh, India -- -----</p> <p>2)BHAT, Harshal Address of Applicant :'Harsha Niwas', Near Nirankari Satsang Bhavan, Sr. No. 102/2/1, Sahara colony, Vijaynagar, Kalewadi, Pune - 411017, Maharashtra, India -----</p> <p>3)SAINI, Pradeep Address of Applicant :S-29, Maliyon ka Mohalla, Naya Khera, Ambabari, Jaipur- 302039, Rajasthan, India -----</p> <p>4)VERMA, Akshay Address of Applicant :'AKSHAR', Opp. H.No. -712, Sec-17, Indira Nagar, Lucknow- 226016, Uttar Pradesh, India ----- -- -----</p> <p>5)AHER, Jaideep Address of Applicant :Hanuman Villa, Near SBI, Ghargoan, Sangamner- 422620, Maharashtra, India -----</p>
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(57) Abstract :

The present invention discloses an autonomous system (100) for low payload gripper (102) changing mechanism and its method thereof. The system (100) of the present invention enables a harvester to use different types of grippers (102) for different crops by replacing the end effector of robotic arm (101) of the agricultural robot without any human intervention. Further a harvester is also able to work in remote areas and on different crops. The changing link (104) is attached to gripper (102) kept in gripper cabinet (103). The programmed robotic arm (101) moves in a certain pre-planned direction and the connector (105) attached to the robotic arm (101) rotates in a certain direction after aligning with the changing link (104), which locks the changing link (104) to connector (105). The connector (105) can rotate only in one direction which prevents the disengagement of the gripper (102) during operation.

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001030 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM AND A METHOD FOR PERFORMING INTERACTIVE SPIRITUAL PRACTICE

(51) International classification :G06Q0030020000, G06K0009000000, G05B0015020000, H04N0007140000, H04N0021482000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system (10) for performing interactive spiritual practice such as sadhana is disclosed. The system includes a user control interface (20) to sense inputs from users. The system includes a processing subsystem (30) including a registration module (60) to register the users. The processing subsystem includes a ritual practice module (80) to enable the users to select at least one of a deity and the corresponding sadhana. The ritual practice module is to send keys corresponding to at least one of the deity and the corresponding sadhana to the server (40). The ritual practice module is to convert values returned by the server into media formats. The ritual practice module is to display the media formats to enable the users to perform the corresponding sadhana of at least one of the deity selected by the users. The processing subsystem includes a scoring module (90) to generate a score corresponding the users. The scoring module is to display the score generated.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001033 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM AND A METHOD FOR PERFORMING VIRTUAL RITUAL PRACTICE

(51) International classification :G06F0003048100, A61B0005010000, G06Q0020400000, G06F0001160000, H05B0047155000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A system (10) for performing virtual ritual practice is disclosed. The system includes a user interface (20) to receive inputs from the individuals. The system also includes a processing subsystem (30) hosted on a server (40) and to execute on a network (50) to control bidirectional communications among a plurality of modules. The processing subsystem includes an interactive module (60) to display a virtual space on the user interface. The interactive module is also to provide synchronization signals to the individuals to receive the inputs from the individuals upon displaying the virtual space on the user interface. The interactive module is to display operations in the virtual space upon matching the inputs received from the individuals with a prestored information stored in the integrated database (70), thereby performing abhishekam ritual or yajna ritual. The processing subsystem includes an offering module (80) to enable a transaction of a predefined offering amount through payment gateways upon performing the abhishekam ritual or the yajna ritual.

No. of Pages : 31 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211001314 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ANTI VIRAL & ANTI BACTERIAL AIR PURIFIER

(51) International classification :A61L0009160000, B01D0035120000, A62B0023000000, A61L0002000000, A01M0001220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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(57) Abstract :

The present invention is related to the principle that the microbes are killed, if they are exposed to UV light for approx. 30 seconds on the surface. The novelty with respect to the invention is that the UV lamp is placed in front of the filters i.e filter No 1 & 2, in order to kill viruses that stick to the surface of the filters and will keep the filter virus free at all times.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002204 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AUTOMATED LUGGAGE STORAGE SYSTEM FOR VEHICLES

(51) International classification :B65G0001040000, A01K0005020000, A61B0034000000, B61D0037000000, G01V0005000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to automated luggage storage system for vehicles, comprising plurality of compartments 1 arranged over a first side 2 of the vehicle to store luggage, a primary set of guide rails 3 attached at second side 4 of the vehicle to allow a platform 5 for moving over the rails 3, a first image capturing module 6 mounted over the platform 5 for capturing image of passenger and luggage, a weight sensor 10 installed over the platform 5 to measure the weight of luggage, a secondary set of guide rails 8 connected to multiple robotic fabricated in between the compartments 1 to transfer the luggage in to specified compartment 1 and a second image capturing module 10 coupled with each of the robotic arms 9 for detecting the specific compartment 1 allocated to the luggage.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211002406 A

(19) INDIA

(22) Date of filing of Application :15/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE TECHNOLOGY BASED INTELLIGENT MOBILE ROBOT SYSTEM

<p>(51) International classification :H04N0007180000, G06Q0030020000, G06Q0010000000, B25J0019020000, G06F0040166000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. Zatin Gupta Address of Applicant :Research Scholar, Department of CSE, MMEC, MM(DU), Mullana, Ambala, Haryana & Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>2)Mr. Vivek Tomar 3)Dr Amrit Kumar Agrawal 4)Mr. Ashish Kumar Gupta 5)Dr. Mohd Sadim 6)Dr. Sher Jung 7)Dr. Sandhya Tarar 8)Dr. PRAVEEN KUMAR RAI 9)Dr. Sunil Kumar Chawla 10)Dr Anand Prakash Shukla</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Zatin Gupta Address of Applicant :Research Scholar, Department of CSE, MMEC, MM(DU), Mullana, Ambala, Haryana & Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>2)Mr. Vivek Tomar Address of Applicant :Assistant Professor, Department of CSE, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>3)Dr Amrit Kumar Agrawal Address of Applicant :Department of Computer Science & Engineering, Galgotia's College of Engineering & Technology, Greater Noida-201310 -----</p> <p>4)Mr. Ashish Kumar Gupta Address of Applicant :Department of Computer Science & Engineering, I.T.S Engineering College, Knowledge Park-III, Greater Noida-201310 -----</p> <p>5)Dr. Mohd Sadim Address of Applicant :Associate Professor, Meerut Institute of Technology, Meerut-250103 -----</p> <p>6)Dr. Sher Jung Address of Applicant :Assistant Professor ,Department of Computer Science & Engineering ,Mewat Engineering College, Nuh, Haryana-122107 -----</p> <p>7)Dr. Sandhya Tarar Address of Applicant :Gautam Buddha University, Greater Noida -----</p> <p>8)Dr. PRAVEEN KUMAR RAI Address of Applicant :I.T.S. Engineering College, Plot No.46, Knowledge Park-III, Greater Noida 201308 -----</p> <p>9)Dr. Sunil Kumar Chawla Address of Applicant :110C, Deep Nagar, Randhawa Road, Kharar, SAS Nagar, Punjab-140307, India -----</p> <p>10)Dr Anand Prakash Shukla Address of Applicant :Technical Education Department, Uttar Pradesh -----</p>
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(57) Abstract :

The present invention is the artificial intelligence technology based mobile robot system which provides all the surrounding details in a smarter way. The present invention is meant for the places where the humans want to know the climatic conditions through the temperature sensor and the air chemical sensor; and the photos of the nearby places via the equipped camera on the present invention. A comprehensive survey is also considered while writing the description and shown the stated literature. This present model incorporates microcontroller and the battery to operate the sensors and the camera. It is capable to move anywhere on the four wheels and controlled with an internet based mobile application. All the required details are mentioned in the Figure 1 and Figure 2 of the disclosure of the present invention.

No. of Pages : 26 No. of Claims : 4

(54) Title of the invention : IOT, CLOUD BASED STROKE- DISEASE CLASSIFICATION AND PREDICTION USING MACHINE LEARNING ALGORITHMS

(51) International classification :G06K0009620000, G16H0050200000, G16H0050300000, G06T0007000000, G06N0020100000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 When you have an ischemic stroke, your brain's blood vessels are damaged. As a result, long-term brain damage occurs. When the brain's blood and nutrients are not getting to it, a variety of symptoms can occur. Stroke is widely believed to be the leading cause of death and disability on a global scale. If you pay attention to the numerous warning signs, strokes can be less severe and have fewer long-term consequences. Several ML models have been used to predict the stroke over the last decade. Using a variety of physiological data, ML, LR, DT, Random Forest (RF), and Voting- Classifier, the researchers developed four distinct models that were effective at predicting what would happen. Random Forest outperformed other algorithms in this case, achieving an accuracy rate of 96%. The Stroke Prediction dataset was used to develop this technique. These models were found to be more accurate than those used in previous studies, implying greater reliability. This is consistent with findings from other studies. Numerous models were compared, and the scheme was deduced.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : SENSOR BASED CROP DISEASE CONTROLLING SYSTEM

<p>(51) International classification :C12Q0001689500, C07D0285060000, G06K0009620000, H05B0047180000, G06T0007730000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Zatin Gupta Address of Applicant :Research Scholar, Department of CSE, MMEC, MM(DU), Mullana, Ambala, Haryana & Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -- -----</p> <p>2)Dr. Vijay Shukla 3)Mr. Vivek Tomar 4)Ms. Swati Jain 5)Ms. Garima Singh 6)Dr. Sandhya Tarar 7)Dr. Taru Singh 8)Dr. Ashish Kumar 9)Dr. PRAVEEN KUMAR RAI 10)Mr. Anil Kumar Singh</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Zatin Gupta Address of Applicant :Research Scholar, Department of CSE, MMEC, MM(DU), Mullana, Ambala, Haryana & Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>2)Dr. Vijay Shukla Address of Applicant :Accurate Group of Institutions 49, Knowledge Park-3, Greater Noida -----</p> <p>3)Mr. Vivek Tomar Address of Applicant :Assistant Professor, Department of CSE, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>4)Ms. Swati Jain Address of Applicant :Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>5)Ms. Garima Singh Address of Applicant :Assistant Professor, Department of CSIT, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>6)Dr. Sandhya Tarar Address of Applicant :Gautam Buddha University, Greater Noida -----</p> <p>7)Dr. Taru Singh Address of Applicant :Indian Council of Medical Research, New Delhi -- -----</p> <p>8)Dr. Ashish Kumar Address of Applicant :ITS Engineering College, Greater Noida-201306 -- -----</p> <p>9)Dr. PRAVEEN KUMAR RAI Address of Applicant :I.T.S. Engineering College, Plot No.46, Knowledge Park-III, Greater Noida 201308 -----</p> <p>10)Mr. Anil Kumar Singh Address of Applicant :RKGIT, Ghaziabad -----</p>
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(57) Abstract :

The present invention provides a sensor-based system for crop disease controlling. This present invention helps in identifying the crop disease without taking much time and without sending the sample of the disease to the national crop laboratory, which is a time-consuming process. The soil and the leave data are captured and checked via algorithms. The temperature sensor takes the temperature of the field and the other two sensors are capturing the data of the plants and crops. The figure 1 shows the general architecture of the present system; the figure 2 describes the detailed model of movable sensor-based system where the sensors are equipped; and the figure 3 is the step by step process of the present invention.

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003091 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : DEVICE AND METHOD FOR ALERTING AND PREVENTING THEFT AND LOSS OF LIVESTOCK

(51) International classification :G01R0031500000, A01K0011000000, H01R0004180000, H02J0003010000, H01L0029660000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to the device (100) and method for alerting and preventing theft and loss of livestock. The device (100) comprising an electric circuit comprising an electrical conductor (110) configured between a power source (102) and an alert means (112). The insulator (108) is configured between two or more terminals of the electrical conductor (110), where the insulator (108) is adapted to be connected to a harness of the livestock using a string (106), such that application of a predefined force on the string (106) by an intruder and/or the livestock, decouples the insulator 108 from the electrical conductor (110). Thereby, the device (100) results in electrical coupling of the power source with the alert means (112) for generating a set of alert signals.

No. of Pages : 18 No. of Claims : 12

(54) Title of the invention : A SENSOR-BASED BIG DATA ANALYTICS FOR PATIENT MONITORING IN HEALTHCARE APPLICATIONS

(51) International classification :G06Q0050220000, G16H0050300000, G16H0050200000, G16H0050500000, G16H0010600000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The system includes a data store that receives and stores data associated with a plurality of patients selected from medical and health data; and several social, behavioural, lifestyle, and economic data; at least one predictive model for identifying at least one high-risk patient associated with at least one medical condition; and a risk logic module that applies the at least one predictive model to the patient data to determine a risk level for each patient.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003420 A

(19) INDIA

(22) Date of filing of Application :20/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A THERMAL ENERGY STORAGE DEVICE AND A SOLAR SPACE HEATING ASSEMBLY

(51) International classification :F28D0020020000, F28D0020000000, F24D0011000000, F24S0023740000, F28D0001047000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(57) Abstract :

A thermal energy storage device (100) and solar space heating assembly (400) are disclosed. A cuboidal tank (102) has a base (104), a cover (106), and a plurality of walls (108) extending between the base and the cover. A dual coil arrangement (110) within the cuboidal tank enables heat transfer using fluids. A first pipe (112) extends from a first fluid inlet to a first fluid outlet for a first flow path of a first fluid. A second pipe (114) extends from a second fluid inlet to a second fluid outlet for a second flow path of a second fluid. A Phase Change Material (PCM) is provided within the cuboidal tank about the dual coil arrangement. The thermal energy storage device (100), a solar thermal collector (300), and a radiator (402) form the solar space heating assembly (400).

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003424 A

(19) INDIA

(22) Date of filing of Application :20/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : COMPACT AIR-COUPLED 2D ULTRASOUND COMPUTED TOMOGRAPHY (UCT) SYSTEM

(51) International classification :G01N0029440000, A61B0008080000, A61B0008000000, G06T0011000000, G01N0021590000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention relates to the field of Non-Destructive evaluation. A compact air-coupled 2D UCT system and its scanning method are presented. The system is automated to produce specimen's inner profile in a single push of button, non-invasively. Existing ultrasound CT require a medium or couplant between object and ultrasound transducers. This system scans a specimen in air. It employs a parallel beam geometry to scan the specimen. The automatically controlled mechanical assembly of the scanner is integrated with its synchronized data acquisition, complex signal processing and inverse problem based image reconstruction software. The system also provides the functionality to view the scanning process and analysis in real time.

No. of Pages : 26 No. of Claims : 5

(54) Title of the invention : IOT BASED WASTE MANAGEMENT SYSTEM

<p>(51) International classification :B65F0001140000, H04L0029080000, G06Q0010000000, B64D0045000000, G06Q0020140000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms. Somya Srivastava Address of Applicant :ABES College of Engineering, 19th KM Stone, NH-09, Ghaziabad Ghaziabad Uttar Pradesh India 201009 ----- 2)Ms. Divya 3)Dr. Anju Dhillon 4)Dr. Amrita Jyoti 5)Dr. Bhuvneshwar Prasad Sharma 6)Mr. Anmol Jain 7)Ms. Rashmi Mishra 8)Ms. Rupa Rani 9)Dr. Geetika Dhand 10)Mr. Kuldeep Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Ms. Somya Srivastava Address of Applicant :ABES College of Engineering, 19th KM Stone, NH-09, Ghaziabad Ghaziabad Uttar Pradesh India 201009 ----- 2)Ms. Divya Address of Applicant :Chaudhary Devi Lal University, Sirsa Sirsa Haryana India 125055 ----- 3)Dr. Anju Dhillon Address of Applicant :Assistant professor, Department of Applied sciences, Maharaja Surajmal Institute of technology, C-4, Janakpuri New Delhi New Delhi India 110058 ----- 4)Dr. Amrita Jyoti Address of Applicant :27th Km Stone, Delhi-Hapur Bypass Road, P.O. Adhyatmik Nagar, Ghaziabad Ghaziabad Uttar Pradesh India 201009 ----- 5)Dr. Bhuvneshwar Prasad Sharma Address of Applicant :Professor, ABES Engineering College, Department of Information Technology, 19th KM Stone, NH-09, Ghaziabad, Ghaziabad Uttar Pradesh India 201009 ----- 6)Mr. Anmol Jain Address of Applicant :Assistant Professor, Delhi-Hapur Bypass Road, P.O. Adhyatmik Nagar, Ghaziabad Ghaziabad Uttar Pradesh India 201009 ----- 7)Ms. Rashmi Mishra Address of Applicant :Krishna Engineering College, 95, Loni Road, Between Mohannagar &, Hindon Air Force Station, Ghaziabad, Uttar Pradesh Ghaziabad Uttar Pradesh India 201007 ----- 8)Ms. Rupa Rani Address of Applicant :Lloyd Institute of Engineering and Technology, Plot No. 3, Knowledge Park II, Greater Noida Greater Noida Uttar Pradesh India 201306 ----- 9)Dr. Geetika Dhand Address of Applicant :Maharaja Surajmal Institute of technology, C-4, Janakpuri, Delhi New Delhi New Delhi 110058 ----- 10)Mr. Kuldeep Kumar Address of Applicant :6, Block B, Indraprastha Marg, IP Estate, New Delhi New Delhi New Delhi India 110002 -----</p>
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(57) Abstract :

The present invention provides an IOT based waste management system for remote monitoring of a waste bin or container. The system recommends the medicine dosage for every plant separately. The system is operated from a remote location. The system is user friendly and helps to reduce waste. The system is operated from a remote location. The system includes a one or more containers, a level sensor, a navigation system, a GSM module, one or more electronic device and a controller. The present invention also provides a method for waste collection using a system (100).

No. of Pages : 15 No. of Claims : 9

(54) Title of the invention : BIODEGRADABLE LAWN WASTE MANAGEMENT SYSTEM

<p>(51) International classification :B65F0001140000, A01K0001010000, A01K0067033000, G06Q0010000000, C05F0017050000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Minakshi Karwal Address of Applicant :Department of Applied Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad Ghaziabad Uttar Pradesh India 201206 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Minakshi Karwal Address of Applicant :Department of Applied Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad Ghaziabad Uttar Pradesh India 201206 -----</p> <p>2)Dr. Ashok Jangra Address of Applicant :Department of Pharmaceutical Sciences, Central University of Haryana, Mahendargarh, Mahendargarh Haryana India 123031 -----</p> <p>3)Dr. Pratibha Kumari Address of Applicant :Department of Mechanical Engineering, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Ghaziabad Uttar Pradesh India 201206 -----</p> <p>4)Dr. Amrit Lal Meena Address of Applicant :Department of Cropping System and Resource Management, ICAR-Indian Institute of Farming Systems Research (IIFSR) Meerut Uttar Pradesh, India 250110 --- -----</p>
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(57) Abstract :
 A biodegradable lawn waste management system, comprising, i) at least three ditches carved within the waste management site for collecting biodegradable waste generated within a lawn, ii) plurality of pre-composters placed within the waste management site for converting the biodegradable waste into a substrate, and iii) multiple vermi-composters engraved within the waste management site for converting the pre-composted substrate into nutritious rich organic manure, wherein the reactors along with the lawn waste substrate are fed with dung and earthworms manually to assist in formation of the manure.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003531 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : HEALTH CARE MONITORING SYSTEM

<p>(51) International classification :A61B0005000000, A61B0005010000, A61B0005024000, G16H0050300000, G16H0040630000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Deepti Seth Address of Applicant :Assistant Professor, Department of Applied Science (Mathematics), KIET Group of Institutions, Ghaziabad Ghaziabad Uttar Pradesh India 201206 ----- ----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Deepti Seth Address of Applicant :Assistant Professor, Department of Applied Science (Mathematics), KIET Group of Institutions, Ghaziabad Ghaziabad Uttar Pradesh India 201206 ----- ----</p> <p>2)Dr. K. P Mishra Address of Applicant :Associate Professor, Department of Applied Science (Mathematics), KIET Group of Institutions, Ghaziabad Ghaziabad Uttar Pradesh India 201206 ----- ----</p> <p>3)Dr. Bipin Kumar Srivastava Address of Applicant :Associate Professor, Department of Applied Science, Galgotias College of Engineering and Technology, Greater Noida Greater Noida Uttar Pradesh India 201310 ----- ----</p> <p>4)Dr. Roma Ghai Address of Applicant :Associate Professor, Department of Pharmacology, KIET School of Pharmacy, Ghaziabad Ghaziabad Uttar Pradesh India 201206 ----- ----</p> <p>5)Dr. Seema Maitrey Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KIET Group of Institutions, Ghaziabad Ghaziabad Uttar Pradesh India 201206 ----- ----</p> <p>6)Dr. Rashmi Mishra Address of Applicant :Associate Professor, Department of Applied Science & Humanities, G L Bajaj Institute of Technology & Management, Greater Noida Greater Noida Uttar Pradesh India 201306 ----- ----</p> <p>7)Mr. Hriday Kumar Gupta Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KIET Group of Institutions, Ghaziabad Ghaziabad Uttar Pradesh India 201206 ----- ----</p>
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(57) Abstract :

The present invention relates to a health care monitoring system comprising, a sensing unit 101 for detecting various health parameters of the user in real time, a user interface 105 interlinked with a cloud server for providing access to a user to monitor the health parameters, wherein the cloud server relays information regarding condition of the user in real time from the sensing unit 101 to the user interface 105, a communication module for transmitting the signals received from the unit 101 to concerned authorities.

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : IOT BASED SPEAKER REORGANIZATION SYSTEM

<p>(51) International classification :H04L0029080000, H04L0009320000, H04B0011000000, H04R0001340000, H04W0004600000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. Madhulika Bhadauria Address of Applicant :Department of computer science ASET, Amity University, Sector-125, Noida Noida Uttar Pradesh India 201313 ----- -- 2)Dr. Gaurav Dubey 3)Ms. Amrinder Kaur 4)Dr. Sanjeev Thakur 5)Dr. Kavita Sheoran 6)Dr. Amita Yadav 7)Dr. Shalu 8)Dr. Monika Arora 9)Dr. Amandeep Kaur 10)Dr. Nishtha Jatana Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Madhulika Bhadauria Address of Applicant :Department of computer science ASET, Amity University, Sector-125, Noida Noida Uttar Pradesh India 201313 ----- 2)Dr. Gaurav Dubey Address of Applicant :Department of computer science ASET, Amity University, Sector-125, Noida Noida Uttar Pradesh India 201313 ----- 3)Ms. Amrinder Kaur Address of Applicant :Manav Rachna Campus Road, Gadakhori Basti Village, Sector 43, Faridabad, Faridabad Haryana India 121004 ----- 4)Dr. Sanjeev Thakur Address of Applicant :Department of computer science ASET, Amity University, Sector-125, Noida Noida Uttar Pradesh India 201313 ----- 5)Dr. Kavita Sheoran Address of Applicant :Maharaja Surajmal Institute of technology, C-4, Janakpuri New Delhi New Delhi India 110058 ----- 6)Dr. Amita Yadav Address of Applicant :Maharaja Surajmal Institute of technology, C-4, Janakpuri New Delhi New Delhi India 110058 ----- 7)Dr. Shalu Address of Applicant :Maharaja Surajmal Institute of technology, C-4, Janakpuri New Delhi New Delhi India 110058 ----- 8)Dr. Monika Arora Address of Applicant :Bhagwan Parshuram Institute of Technology,PSP-4, Dr KN Katju Marg, Sector 17, Rohini New Delhi New Delhi India 110089 ----- ----- 9)Dr. Amandeep Kaur Address of Applicant :Guru Tegh Bahadur Institute of Technology, Mahakavi Goswami Tulsidas Marg, G-8 Area, Press Colony, Rajouri Garden New Delhi New Delhi India 110064 ----- 10)Dr. Nishtha Jatana Address of Applicant :Maharaja Surajmal Institute of technology, C-4, Janakpuri New Delhi New Delhi India 110058 -----</p>
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(57) Abstract :

The present invention provides an IOT based speaker reorganization system (100). The system (100) includes a microphone, a cloud storage, a controller and an electronic device. The system (100) is energy efficient. The system (100) has wide range of application. The system (100) is operated from a remote location. The system (100) records the sound wave identifiers for future use. In one embodiment, when the all identifiers of the sound waves are matched correctly, the user is allowed to enroll for the next step of verification. In another embodiment, when the all identifiers of the sound waves are matched correctly, or user is directly allowed to use the features of the electronic device. The system (100) records the sound wave identifiers each with unique identity for future recognition.

No. of Pages : 15 No. of Claims : 9

(54) Title of the invention : FORMULATION AND EVALUATION OF MUCOADHESIVE BUCCAL PATCH OF ANTIHYPERTENSIVE DRUG.

<p>(51) International classification :A61K0009000000, A61K0047320000, A61K0009200000, A61K0009700000, A61K0047360000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)KIET Group of Institutions (KIET School of Pharmacy) Address of Applicant :13 Kms stone, Meerut -Ghaziabad Road NH 58, Muradnagar, District Ghaziabad PIN 201206 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR ASHU MITTAL Address of Applicant :KIET Group of Institutions (KIET School of Pharmacy), 13 Kms stone, Meerut -Ghaziabad Road NH 58, Muradnagar, District Ghaziabad PIN 201206 ----- 2)DR ALANKAR SHRIVASTAVA Address of Applicant :KIET Group of Institutions (KIET School of Pharmacy), 13 Kms stone, Meerut -Ghaziabad Road NH 58, Muradnagar, District Ghaziabad PIN 201206 ----- 3)Mr DEBAPRASAD GHOSH Address of Applicant :KIET Group of Institutions (KIET School of Pharmacy), 13 Kms stone, Meerut -Ghaziabad Road NH 58, Muradnagar, District Ghaziabad PIN 201206 -----</p>
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(57) Abstract :

Hypertension is a chronic disease, so require long term treatment. The disadvantage of antihypertensive drugs such as more frequent administration, extensive first pass metabolism and variable bioavailability make it an ideal candidate for buccal drug delivery systems. This explains the need of anti-hypertensive buccal patches in the perspective of enhancing the bioavailability as well as in improving patient compliance. Mucoadhesive buccal patches containing candesartan cilexetil were prepared using the solvent casting method. Chitosan was used as bio-adhesive polymer and different ratios of chitosan to PVP K-30 were used. The pre-formulation study using DSC revealed the compatibility of drug and polymer. Patches were evaluated for their physical characteristics like weight variation, drug content uniformity, folding endurance, surface pH, in vitro drug release, and in vitro buccal permeation study. Patches exhibited controlled release for a period of 8 h. The mechanism of drug release was found to be non-Fickian diffusion and followed the first-order kinetics. Incorporation of PVP K-30 generally enhanced the release rate. Swelling index was proportional to the concentration of PVP K-30. Optimized patches (F4) were characterized by moderate swelling; a convenient residence time as well as adequate drug release (84.19%). The surface pH of all patches was between 5.7 and 6.3 and hence patches should not cause irritation in the buccal cavity. Good correlation was observed between the in vitro drug release and in vitro drug permeation with a correlation coefficient of 0.99.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003565 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A BLOCK CHAIN BASED INTERFACE FOR SECRET REMOTE COMMUNICATION THROUGH A SMARTPHONE USING WIRELESS SENSOR NETWORK

(51) International classification :H04L0029080000, H04L0029060000, H04W0084180000, H04L0009320000, H04L0012240000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention analyzes a block-chain based interface for secret remote communication through a smartphone using wireless sensor network. The internet is a global system of interconnected computers and computer networks that use a standard internet protocol suit to communicate with each other. The Internet of Things (IoT) is based on the idea that everyday objects, not just computers and computer networks, can be readable, recognisable, locatable, addressable, and controllable via secret remote communication through a smartphone using wireless sensor network.

No. of Pages : 11 No. of Claims : 2

(54) Title of the invention : PLANT LEAF DISEASE DETECTION USING DEEP LEARNING AND IMAGE PROCESSING TECHNIQUES.

<p>(51) International classification :G06K0009620000, G06K0009000000, G06K0009460000, G01N0033000000, G01N0021880000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Om Prakash Verma Address of Applicant :Associate Professor, Department of Molecular and Cellular Engineering, Jacob Institute of Biotechnology and Bioengineering, Sam Higginbottom University of Agriculture Technology and Sciences Prayagraj (Allahabad), Uttar Pradesh- 211007 ----- 2)Akshma Chadha 3)Hanif Khan Pathan 4)Ghanshyam Prasad Dubey 5)Puneet Himthani 6)Dr. Kalpana Sengar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Om Prakash Verma Address of Applicant :Associate Professor, Department of Molecular and Cellular Engineering, Jacob Institute of Biotechnology and Bioengineering, Sam Higginbottom University of Agriculture Technology and Sciences Prayagraj (Allahabad), Uttar Pradesh- 211007 ----- 2)Akshma Chadha Address of Applicant :Research Associate, School of Computer Science and Engineering, Shri mata vaishno Devi university , Katra, Jammu ----- 3)Hanif Khan Pathan Address of Applicant :CSE Department, APJ Abdul Kalam University , Dewas Bypass Road Indore ,India ----- 4)Ghanshyam Prasad Dubey Address of Applicant :Associate Professor, Department of Computer Science & Engineering , Sagar Institute of Science and Technology, Bhopal ----- 5)Puneet Himthani Address of Applicant :Assistant Professor, Department of Computer Science & Engineering Sagar Institute of Science and Technology, Bhopal ----- 6)Dr. Kalpana Sengar Address of Applicant :Director, Biosense lifecare Research and Development Lab, Kalphelix Biotechnologies Pvt Ltd, Kanpur, UP, India -----</p>
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(57) Abstract :

This invention analyzes plant leaf disease detection using deep learning and image processing techniques. The system for detection plant diseases includes a camera, an image processing unit, and a plant disease database. The plant disease database stores one or more than one plant disease and a disease characteristics corresponding to each plant disease. The parts of the plant generally have the same hue, the plant and a region that is suspected to be diseased can be rapidly recognized from the image by utilizing the difference in hue.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003621 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : BRICK MOULD WITH A PLURALITY OF SHEAR KEYS

(51) International classification :B65D0033250000, E04B0002020000, G06K0009000000, F17C0001080000, H01F0027290000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to a brick mould (100). The brick mould (100) includes a body (102) having a removable header (104), a stretcher (106), and a plurality of frogs (108) on a bed face (102A) thereof. The header (104) further includes a plurality of shear keys (108) disposed on internal faces (104A, 104B) of the header (104) opposite to each other, the shear keys (108) being disposed longitudinally; and a securing element (110) disposed on a plurality of edges of the body (102), the securing element (110) restricts free movement of the faces (104A, 104B) of the header (104) to the stretcher (106).

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003626 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM FOR OPERATING COMPUTING DEVICE THROUGH PUPIL AND A METHOD THEREOF

<p>(51) International classification :G06T0019000000, G02B0009600000, G06F0003034600, G06T0007246000, G06F0003030000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Krishna Engineering College Address of Applicant :Mohan Nagar, Near Air Force Station-Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Pramod Kumar Address of Applicant :Professor, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>2)Dr. Manu Singh Address of Applicant :Associate Professor, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>3)Mr. Ankit Raj Address of Applicant :Student, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>4)Mr. Ankit Singh Address of Applicant :Student, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>5)Mr. Gopal K. Mishra Address of Applicant :Student, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p>
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(57) Abstract :

The present disclosure discloses a system (100) for operating a computing device through a pupil and a method (200) thereof. The system (100) includes an individual having at least one pupil (102) with good vision; a web camera (104). The web camera (104) includes a microcontroller (106) comprising a memory (108) coupled with one or more processors (110); and the mouse control interface (110).

No. of Pages : 21 No. of Claims : 7

(54) Title of the invention : A METHOD AND AN APPARATUS OF PRODUCING FORTIFIED RICE KERNELS

(51) International classification :A23P0030200000, H04N0019910000, A23L0025000000, A61K0036899000, B02B0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure a method of producing fortified rice kernels. The method includes forming (202) a rice based dough by adding water such that moisture in the dough is in a range of 32-35%, performing (204) extrusion process on the formed dough which is ungelatinized by using a single screw extruder and maintaining an extrusion pressure of 100-200 bar, cylinder temp at 30°C and die head temperature in the range of 55-60°C, shaping (206) the processed dough into rice shaped kernels, maintaining (208) a moisture in the range 30-33% in the shaped rice kernels, cooking (210) the moisture maintained rice kernels in a steam conveyer for 3-6 minutes at a temperature between 90-100°C, cooling (212) the rice kernels below 70C and till moisture in the rice kernels is in the range of 23-25%.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : METOPROLOL SUCCINATE AND CARVEDILOL EFFECTS ON ISOPRENALINE INDUCED TACHYCARDIA BY USING BUCCAL DRUG DELIVERY SYSTEM

<p>(51) International classification :A61K0031138000, A61K0031403000, C07D0209880000, G06K0009000000, A61K0009000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Navneet Verma Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p>2)Dr. Munesh Mani 3)Dr. Shweta Verma 4)Dr. Pawan Singh 5)Dr. Varsha Raj 6)Mr. Alankar Shrivastav</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Navneet Verma Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p>2)Dr. Munesh Mani Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p>3)Dr. Shweta Verma Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p>4)Dr. Pawan Singh Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p>5)Dr. Varsha Raj Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p> <p>6)Mr. Alankar Shrivastav Address of Applicant :Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad, Uttar Pradesh, Pin Code: 244102. -----</p>
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(57) Abstract :

The present invention relates to the effect of metopropional succinate and carvedilol on Isoprenaline induced Tachycardia by using buccal delivery system. Metoprolol succinate and Carvedilol both drugs are used as beta-adrenergic blocking agent, and used in case of cardiovascular disorders. In this we produce the tachycardia by isoprenaline, and examine the usefulness of the device in suppressing isoprenaline-induced tachycardia. To know the effect of percentage inhibition, internal comparison had also done in between both the drugs, such as iv, oral and buccal administration. The results showed that the buccal patches of carvedilol had showed the inhibitory effect in the range of 30.00 to 45.07. whereas the carvedilol buccal patches had shown the inhibitory effect in the range of 27.00 to 50.52. Therefore, results showed that the buccal patches of carvedilol had shown the maximum percentage of inhibition when compared to various routes of metoprolol succinate.

No. of Pages : 21 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003658 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AUTOMATIC REAL-TIME WEATHER CONDITION-BASED HOME APPLIANCES CONTROL AND MONITORING SYSTEM

(51) International classification :H04L0012280000, G05B0019418000, G05B0013020000, G05B0015020000, G05B0023020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The proposed system for controlling and managing plurality of electric appliances in a home automation network based on information associated with a weather event. One or more sensors deployed to detect a current working status of the plurality of electric appliance. One or more control apparatus/unit arranged to functionally control the plurality of electric appliances. Similarly, a transceiver transmits the one or more detected information by one or more sensors vis-à-vis plurality of electrical appliance, to the cloud server. The cloud server is inclusive of determining/storing a home automation rule based on the identified/ acquired information associated with outdoor weather event, where the home automation rule includes an operational setting parameter for each of the electric appliance, and instructing the control apparatus/unit based on the determined home automation rule via a home automation network.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003667 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD AND SYSTEM TO CUSTOMIZE AN APPEARANCE OF A WEB-BASED CONTENT

(51) International classification :G06F0016955000, H04N0021858000, G06F0016950000, G10L0015260000, G06F0016957000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a field of website accessibility. The method may include; receiving, at a computing device a URL of a web-based content and a colour visibility input from a user; acquiring at a server arrangement the received URL and the colour visibility selection input; opening a page of the web-based content and segregating the texts and the images within the opened page; determining the colour codes of each of the segregated text; creating, a cluster of the segregated text based on the determined colour code; creating, a new colour code for each of the clusters of the texts; creating, a new graphical user interface (GUI) based on the new colour code; displaying, the created GUI on the computing device to customize the appearance of the web-based content.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED USER ASSISTIVE EXERCISING SYSTEM

<p>(51) International classification :A61B0005110000, A61H0001000000, G06F0003010000, A63B0021000000, A61B0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Akansha Gupta Address of Applicant :Department of Computer Science and Engineering, Graphic Era (Deemed to be University), 566/6, Bell Road, Society Area, Clement Town, Dehradun, Uttarakhand, 248002, India. -----</p> <p>2)Dr. Kamal Ghanshala 3)Dr. Vishal Gupta</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Akansha Gupta Address of Applicant :Department of Computer Science and Engineering, Graphic Era (Deemed to be University), 566/6, Bell Road, Society Area, Clement Town, Dehradun, Uttarakhand, 248002, India. -----</p> <p>2)Dr. Kamal Ghanshala Address of Applicant :Department of Computer Science and Engineering, Graphic Era (Deemed to be University), 566/6, Bell Road, Society Area, Clement Town, Dehradun, Uttarakhand, 248002, India. -----</p> <p>3)Dr. Vishal Gupta Address of Applicant :House no. 335, Lane no. 11, Chamanvihar, Dehradun, Uttarakhand, 248002, India. -----</p>
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(57) Abstract :

An artificial intelligence based user assistive exercising system comprising, a pair of supporters 1 to reduce strain on the knee muscles, tendons and ligaments, supporters 1 are attached with each other via a motorized spring 5 for absorbing strain, a set of sensors 6 to detect movement of user's knee along with muscle strain, pain, muscle fatigue and bone density while performing exercise, a heating unit 2 provide a relief to user upon detection of muscle strain and pain more than a first threshold value, a pair of touch interactive wearable band 3 to allow user to enter type of exercise to be performed, microcontroller controls operation of motorized spring 5 for increasing/decreasing absorption of pressure, a motion sensor detect motion of user's hands while exercising, a vibrating unit to alert user for correcting motion of user's knee and hand.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003671 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A METHOD FOR THE DISSOCIATION OF GAS HYDRATES

(51) International classification :E21B0043010000, E21B0043240000, C09K0008520000, C10L0003100000, E21B0036000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a method for the dissociation of gas hydrates by using the energy released from the thermo- catalytic reactions. This dissociation method uses the energy released after performing the exothermic reaction between two chemicals to gas hydrates and reacting them for the recovery of gas from gas hydrates. The proposed method has high gas production efficiency than the available dissociation methods. This method can be applied effectively for the gas hydrate dissociation in natural gas hydrate reservoir.

No. of Pages : 18 No. of Claims : 6

(54) Title of the invention : IMPACT OF E-BUSINESS THAT HAS CREATED CHANGE IN TODAY'S BUSINESS ENVIRONMENT

(51) International classification :G06Q0010060000, G06Q0030020000, G06F0016245700, G09B0019000000, H02J0003060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 The main reason for the study is to know how to create more and more awareness among small and medium-sized industries, so that the change that has begun to take shape can translate into more success in the coming years for our country. The idea of every business is to generate more and more income from its business process. In the 21st century, all business sectors aspire to generate immense change by introducing new technologies in their work process. Information technology has become the most important criterion for the success of any company. Many IT companies are in the process of creating many software techniques that will help these business houses to reach their target market in the most efficient way. In this research work, the main objective of this research study is to identify those outstanding industries that allowed progress on the path to profitability by implementing one of the most important competitive techniques of today and that are information technology.

No. of Pages : 28 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003703 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A TRAFFIC SIGNAL DETECTION SYSTEM AND A METHOD THEREOF

(51) International classification :G06K0009000000, B60R0011040000, G06K0009200000, G08G0001095000, B60R0011000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure discloses a system (100) for detection of traffic lights. The system (100) includes a camera (102) attached to a vehicle. The camera (102) includes a microcontroller (104) comprising a memory (106) coupled with one or more processors (108). The processors (108) are configured to receive images of traffic signals in proximity to the vehicle; classify the received images; detect the traffic signal; and notify driver of the vehicle.

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : SYSTEM AND METHOD FOR HEALTH MONITORING THROUGH WEARABLES USING IOT

<p>(51) International classification :A61B0005000000, A61B0005024000, G08B0021040000, H04L0029080000, A61B0005020500</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Zatin Gupta Address of Applicant :Research Scholar, Department of CSE, MMEC, MM(DU), Mullana, Ambala, Haryana & Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>2)Mr. AMAN AGARWAL 3)Mr. Sunil Kumar Mishra 4)Mr. Ravin Kumar 5)Mr. Prabhat Kumar Tiwari 6)Dr. Anand Prakash Shukla 7)Mr. Abhishek Singh Verma 8)Dr. PRAVEEN KUMAR RAI 9)Mr. Abhishek Gupta 10)Dr Sumit Gupta Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Zatin Gupta Address of Applicant :Research Scholar, Department of CSE, MMEC, MM(DU), Mullana, Ambala, Haryana & Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>2)Mr. AMAN AGARWAL Address of Applicant :E-9 GK-3, Masjid Moth, New-Delhi, New-Delhi, 110048 India -----</p> <p>3)Mr. Sunil Kumar Mishra Address of Applicant :Accurate Institute of Management and Technology Greater Noida (Pin: 201306) -----</p> <p>4)Mr. Ravin Kumar Address of Applicant :Accurate Institute of Management and Technology Greater Noida -----</p> <p>5)Mr. Prabhat Kumar Tiwari Address of Applicant :Accurate Institute of Management and Technology Greater Noida -----</p> <p>6)Dr. Anand Prakash Shukla Address of Applicant :Technical Education Department, Uttar Pradesh -----</p> <p>7)Mr. Abhishek Singh Verma Address of Applicant :Department of CSE, School of Engineering & Technology, Sharda University, Greater Noida -----</p> <p>8)Dr. PRAVEEN KUMAR RAI Address of Applicant :I.T.S. Engineering College, Plot No.46, Knowledge Park-III, Greater Noida 201308 -----</p> <p>9)Mr. Abhishek Gupta Address of Applicant :Geetanjali Institute of Technical Studies, Dabok, Udaipur 313022 -----</p> <p>10)Dr Sumit Gupta Address of Applicant :Department of Mechanical Engineering, Amity School of Engineering and Technology, Amity University Noida -----</p>
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(57) Abstract :

The present invention is a system and method for health monitoring through wearables using IOT. The main reason behind the present invention is to get the notification about the person's health in case of abnormal situations. Many times doctor advise patients to regularly monitor the pulse rate and heart beat and share the data with doctors; which is somehow not easy for the patient. The present invention helps under such scenario. Most of the people face the sudden changes in their bodies and in uneasy conditions due to the absentia of any other person with the patient, some mis happenings had happened. In view of the such situations, the invented system will be very helpful. With the help of few sensors, all the human body activities can be easily monitored. In case of any abnormal activity or some odd situations, the user and its relatives can get the notifications. The main approach used behind the system is wearables; the machine learning algorithms; and IOT support. The figure 1 and figure 2 describe the details of the present invention.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003738 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A REAL-TIME SYSTEM FOR DETECTION AND RECOGNIZING FACE-MASK OFFENDERS

(51) International classification :G06K0009000000, A62B0023020000, G06K0009340000, G08B0021020000, H04N0007140000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The methodology and system developed focuses on automated real- time monitoring of people who are not wearing mask using camera. This disclosed system is working on YOLO based model for detecting the person not wearing mask and a computer vision based face recognition model for identifying that particular person. The system capability with real time interventions will help significantly in controlling COVID- pandemic without any additional manpower requirement. The system can be configured in areas especially where lockdown is relaxed like retail malls, public meetings, temples, schools etc. to deter transmission of corona virus.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003743 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE IN SMART FARMS

<p>(51) International classification :A01G0025160000, H04L0029080000, A01C0023040000, A01G0025020000, G06K0017000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Duraisami Dhamodharan Address of Applicant :Department of Chemical and Biomolecular Engg, Chonnam National University, Yeosu Campus,Jeonnam, South Korea-59626 -----</p> <p>2)Dr Arun Kumar 3)Dr.R. Beaulah Jeyavathana 4)Mr Kannadasan B 5)Dr.P Srinivasa Varma 6)Dr G Kishor Babu 7)B.Jegajothi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Duraisami Dhamodharan Address of Applicant :Department of Chemical and Biomolecular Engg, Chonnam National University, Yeosu Campus,Jeonnam, South Korea-59626 -----</p> <p>2)Dr Arun Kumar Address of Applicant :Professor in CSE &Dean , School of engineeringSir Padampat Singhanian University, VPO: Bhatewar ,Tehsil: Vallabh Nagar, Udaipur, Rajasthan,313601 -----</p> <p>3)Dr.R. Beaulah Jeyavathana Address of Applicant :Assistant Professor, Department of Computational Intelligence, SRM Institute of Science and Technology, Kattankulathur - 603 203 Chengalpattu District -----</p> <p>4)Mr Kannadasan B Address of Applicant :Department of civil Engg, B S Abdur Rahman Crescent Institute of Science and Technology, GST Road, Vandalur, Chennai – 600048. -----</p> <p>5)Dr.P Srinivasa Varma Address of Applicant :Associate Professor, Department of EEE, Koneru Lakshmaiah Education Foundation, Guntur, Vaddeswaram- 522502 -----</p> <p>6)Dr G Kishor Babu Address of Applicant :Associate Professor /EEE Gudlavaller Engineering College, Sheshadri Rao Knowledge Village, Gudlavalleru, Vijayawada, AP-521356 -----</p> <p>7)B.Jegajothi Address of Applicant :Sri Venkatswara college of Engineering, Sriperumpudur, Chennai-602105 -----</p>
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(57) Abstract :

The invention describes an intelligent irrigation system based on cloud computing that operates on the Internet of Things. The system consists of an intelligent irrigation cloud service platform, an intelligent irrigation cloud data centre, an Internet of Things terminal management controller, and an irrigation device; the irrigation device and a sensor are both connected to the Internet of Things terminal management controller; the Internet of Things terminal management controller is connected to the intelligent irrigation cloud data centre via a wireless network; and a user logs into the intelligent irrigation cloud service platform, the intelligent irrigation cloud data centre, and the irrigation device. By the system, the conception is novel, advanced cloud computing, the Internet of Things, big data, mobile application, and artificial intelligence technology are employed, the system is simple and easy to use, the system is timely, the networking is convenient, the reliability is high, the transmission rate is fast, and an advanced Internet of Things intelligent irrigation system based on cloud computing is provided for the application and promotion.

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003749 A

(19) INDIA

(22) Date of filing of Application :23/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : EXTRACTION AND ANTICANCER ACTIVITY OF MEDICINAL PLANT

(51) International classification :G06F0009455000, B32B0037120000, B01D0011020000, H01L0021683000, G16B0030000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The main object of present invention is to evaluate the anticancer activity of Madhucalongifolia, Adinacordifolia, Sidaveronicaefolia. Further invention related to process for preparation of extraction and isolation of medicinal plant by using different solvent

No. of Pages : 30 No. of Claims : 3

(54) Title of the invention : SMART SYSTEM OF HIGH DENSITY QUICK RESPONSE INHALERS FOR CHRONIC INFLAMMATORY LUNG DISEASE

<p>(51) International classification :A61M0015000000, A61K0009000000, A61B0005080000, C07K0016280000, A61K0047100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Prof (Dr.) Pragi Address of Applicant :Professor, Department of Pharmacy, Jagannath University, Bahadurgarh, Haryana, India -----</p> <p>2)Dr. Niranjan Singh Rathee</p> <p>3)Prof. (Dr.) Varun kumar</p> <p>4)Dr. Rubina Bhutani</p> <p>5)Dr. Garima Kapoor</p> <p>6)Mr. Abhishek Sharma</p> <p>7)Ram Babu Sharma</p> <p>8)Balwant Singh Rawat</p> <p>9)Dr. Ajay Kumar</p> <p>10)Dr. Savarna</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Prof (Dr.) Pragi Address of Applicant :Professor, Department of Pharmacy, Jagannath University, Bahadurgarh, Haryana, India -----</p> <p>2)Dr. Niranjan Singh Rathee Address of Applicant :Professor, Department: Science, Jagannath University, Bahadurgarh, Haryana, India -----</p> <p>3)Prof. (Dr.) Varun kumar Address of Applicant :Dean Faculty of Medical and Allied Health Sciences, Jagannath University, Bahadurgarh, Haryana, India -----</p> <p>4)Dr. Rubina Bhutani Address of Applicant :Assistant Professor, Department of Pharmacy, GD Goenka University, Gurugram, Haryana, India -----</p> <p>5)Dr. Garima Kapoor Address of Applicant :Assistant Professor, KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Meerut Road (NH-58) Ghaziabad, India -----</p> <p>6)Mr. Abhishek Sharma Address of Applicant :Assistant Professor, Department of Pharmacy, GD Goenka University Gurugram, Haryana, India -----</p> <p>7)Ram Babu Sharma Address of Applicant :Professor & Principal Department of Pharmaceutics Himalayan Institute of Pharmacy, Himachal Pradesh, India -----</p> <p>8)Balwant Singh Rawat Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, FAMS, Gurukula Kangri University (deemed to be University), Haridwar, Uttrakhand, India -----</p> <p>9)Dr. Ajay Kumar Address of Applicant :Assistant Professor, Department of Applied Science, Gurukula Kangri University (deemed to be University), Haridwar, Uttrakhand, India -----</p> <p>10)Dr. Savarna Address of Applicant :Assistant Professor, Faculty of Physiotherapy, Baba Mastnath University, Rohtak, Haryana, India -----</p>
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(57) Abstract :

The present invention relates to smart system of high density quick response inhalers for chronic inflammatory lung disease. The objective of the present invention is to solve the problems in the prior art technologies related to inhaler system for chronic obstructive pulmonary disease (COPD).

No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : TO INVESTIGATE THE CONTRIBUTION OF MACHINE LEARNING TO CONTROL THE SPEED OF CORONA VIRUS PANDEMIC

(51) International classification :G06N0020000000, G16H0010600000, G06Q0010060000, H04W0084040000, G06Q0010100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Artificial intelligence and machine learning experts are overjoyed at the prospect of assisting in the fight against the pandemic. These new technologies benefit people across a range of industries, from research to healthcare and even agriculture. As the COVID-19 crisis becomes more complex, artificial intelligence and machine learning are critical in assisting people in better comprehending and dealing with it. Computers can now behave like humans and rapidly identify patterns and insights in massive amounts of data thanks to machine learning technology. Businesses have used machine learning capabilities to combat COVID-19 in a variety of ways, including improving customer communications, gaining a better understanding of how COVID-19 spreads, and expediting research and treatment efforts. Researchers from around the world are collaborating to create a new technology to fight against the Covid-19, which has risen to the level of a global emergency. Researchers are encouraged to investigate machine learning and artificial intelligence because there is evidence that they were used during the previous epidemic, potentially providing a new method of combating the new Coronavirus outbreak. There is a great deal that machine learning can do to assist in the fight against SARS-CoV-2 and the epidemic it has sparked. That is the objective of this study.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004004 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A PUSH-RETURN MECHANISM FOR A SWITCH

(51) International classification :B01F0005060000, F16L0025140000, A61L0009200000, B65D0051200000, B01F0005040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Disclosed is a push-return mechanism (100) for a switch (102) to operate between an OFF state and an ON state. The push-return mechanism (100) includes a body (104) having a first end (106) and a second end (108), a plurality of holders (110) concentrically disposed in the body (104) at the first end (106), a base cover (114) concentrically disposed in the body (104) and proximate to the second end (108) of the body (104). The base cover (114) includes a second fluid flow path (116) formed along a top surface of the body such that the second fluid flow path (116) is orthogonal to the first fluid flow path (112), and at least one drain slot (118) downstream to the second fluid flow path (120) and adapted to discharge the fluid from the body (104).

No. of Pages : 19 No. of Claims : 9

(54) Title of the invention : DESIGN OF REAL TIME CONTROL OF LAUNCH VEHICLES USING WIRELESS SENSOR NETWORK

(51) International classification :B60R0025240000, G07C0009000000, H04L0009080000, B60R0016037000, H04W0012000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 A main portable device may get access to a car by sending an activation message to the vehicle, which includes a vehicle access credential. By communicating the vehicle access credential to the secondary portable device, the main portable device may also allow a secondary portable device to access the car in addition to the primary portable device. In certain cases, a short-range wireless protocol such as Bluetooth or Bluetooth LE may be used to establish connections between the main portable device, the secondary portable device, and the vehicle.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004042 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM FOR BUSINESS PROCESS RE-ENGINEERING IN ERP IMPLEMENTATION AND METHOD THEROF

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0040000000, G06Q0090000000, C22C0038000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a system for business process re-engineering in ERP implementation and method thereof. The method and system include, but not limited to, a plurality of resource demand profiles required for one or more roles to be staffed for a project team and an allocated budget for staffing the project team, wherein the allocated budget is predefined; and a user interface to display a project level graphical user interface based on the resource present in the organization.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004045 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A REVERSIBLE LOGIC CIRCUIT DSMT GATE

(51) International classification :H04S0003020000, H01L0029423000, H04R0029000000, H03H0011220000, H03K0019086000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention discloses A reversible logic DSMT gate (100) for low power digital circuitry. The gate (100) includes at least four input signals (A, B, C, D); and four output signals (P, Q, R, S). The gate (100) produces output basis as: $P= A \bar{Q} = (AB) \bar{R} = A.B \bar{C} S = A \bar{.}BCD$

No. of Pages : 21 No. of Claims : 4

(54) Title of the invention : AN IOT BASED SAFETY SYSTEM HAVING A CONTACTLESS DOORBELL

(51) International classification :H04L0029080000, G08B0003100000, G08B0013196000, A63F0013525500, H04N0007180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 The present disclosure discloses an IoT based safety system (100). The system (100) includes a camera (102) attached in vicinity of the door, and a contactless doorbell (104). The doorbell (104) includes a plurality of sensors (106) coupled to a door of a premise; a microcontroller (108) comprising a memory (110) coupled with one or more processors (112).

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004059 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : FACE MASK DETECTOR

(51) International classification :G06K0009000000, G08B0021020000, H04N0005232000, G08B0021040000, A62B0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present disclosure discloses a face mask detection system (100). The system (100) includes a video camera (102) to capture video of a wearer in proximity thereto. The system (100) includes a face mask detector (104). The detector (104) includes a plurality of sensors (106), the sensors (106) determine presence of an individual; a microcontroller (108) comprising a memory (110) coupled with one or more processors (112); and a speaker (116).

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004060 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A METHOD FOR DETECTING FAKE CONTENT USING MACHINE LANGUAGE

(51) International classification :G06N0003080000, G06N0003040000, H04L0029060000, G06K0009620000, G06N0020000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure discloses a method (100) for detecting fake content. The method (100) includes aggregating data in a distributed environment, followed by classifying the data. The method (100) involves clustering of the data without requiring an annotated data set, followed by training a dataset for the aggregated data based on a neural network model.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : HGR (HAND GESTURE RECOGNITION) BASED SYSTEM TO CONTROL COMPUTER APPLICATIONS FOR DIFFERENTLY ABLED PERSON

<p>(51) International classification :G06Q0050000000, G06Q0090000000, G99Z0099000000, H02M0003157000, A61F0004000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Hitesh Kumar Sharma Address of Applicant :School of Computer Sciencee, University of Petroleum and Energy Studies -----</p> <p>2)Dr. Anuj Kumar</p> <p>3)Dr. Sangeeta Pant</p> <p>4)Mr. Lokesh Kumar Joshi</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Hitesh Kumar Sharma Address of Applicant :School of Computer Sciencee, University of Petroleum and Energy Studies -----</p> <p>2)Dr. Anuj Kumar Address of Applicant :Department of Mathematics University of Petroleum & Energy Studies, Dehradun, India -----</p> <p>3)Dr. Sangeeta Pant Address of Applicant :Department of Mathematics University of Petroleum & Energy Studies, Dehradun, India -----</p> <p>4)Mr. Lokesh Kumar Joshi Address of Applicant :Department of Applied Science Affiliation with address: Faculty of Engineering & Technology Gurukula Kangri(Deemed to be University), Haridwar -----</p>
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(57) Abstract :

In today's world the computer and digital technology has revolutionized every aspect of human life. From connecting with each other in a split second to sharing ideas sitting miles apart, the internet and digital technology has changed the way humans used to look at things. But the advancement of technology has not been revolutionary for every part of human community especially differently abled people. The learning curve of this new technology has been designed in such a fashion that it is near impossible for differently abled people to learn it, use it and interact with it. There is always a void between the differently abled and the modern digital technology. It has been always difficult for them not to only use the modern technology and derive its benefits, but also interact with other people and share their ideas and thoughts with them.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004083 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD FOR VALIDATING AN ETHERNET CONFIGURATION OF AN AUTOMATION SYSTEM

<p>(51) International classification :H04L0012240000, H04L0029120000, H04L0029080000, G08B0013240000, H04L0029060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Archana Kumar Address of Applicant :Professor / CSE, Dr. Akhilesh Das Gupta Institute Of Technology And Management, Affiliated To GGSIPU , Delhi Shastri Park, New Delhi 110053 -----</p> <p>---</p> <p>2)Dr.K.L.Shunmuganathan 3)N.Priya 4)Dr. Anil Kumar Dubey 5)Mr.Al.Chockalingam 6)Dr.P Srinivasa Varma 7)Dr.B.Jegajothi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Archana Kumar Address of Applicant :Professor / CSE, Dr. Akhilesh Das Gupta Institute Of Technology And Management, Affiliated To GGSIPU , Delhi Shastri Park, New Delhi 110053 -----</p> <p>2)Dr.K.L.Shunmuganathan Address of Applicant :Dy. Director, Industry Academia Relations, Aarupadai Veedu Institute Of Technology (AVIT), Vinayaka Mission's Research Foundation (Deemed To Be University), Rajiv Gandhi Salai (OMR), Paiyanoor - 603 104 -----</p> <p>3)N.Priya Address of Applicant :AP/EEE, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai-600089 -----</p> <p>4)Dr. Anil Kumar Dubey Address of Applicant :Associate Professor / ECE, Greater Noida Institute Of Technology , Greater Noida -----</p> <p>5)Mr.Al.Chockalingam Address of Applicant :M.Kumarasamy College Of Engineering, Karur-639117 -----</p> <p>6)Dr.P Srinivasa Varma Address of Applicant :Associate Professor, Department Of EEE, Koneru Lakshmaiah Education Foundation, Guntur, Vaddeswaram- 522502 -----</p> <p>7)Dr.B.Jegajothi Address of Applicant :AP/EEE, Chennai Institute of Technology, Kundrathur, Chennai -----</p>
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(57) Abstract :

Methods and devices are offered for automatically recognizing end devices and configuring the network settings associated with such devices. Users are not required to manually select connection types (e.g., RFID, manufacturing device, etc.) or manually set up the network device in preferred implementations of the invention. Thus, such implementations enable automated switch setup even for devices that employ incompatible protocols and/or protocols that are not well recognized in the industry. Some of the invention's techniques use DHCP options in conjunction with traffic eavesdropping to identify devices and automatically apply the proper switch port configuration to those devices.

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : AN IOT AND MACHINE LEARNING-BASED METHODOLOGY TO DETECT THE PASSING OF VEHICLES THRU ONE-WAY LANES USING REMOTE SENSORS

(51) International classification :G07B0015060000, H04L0029080000, A61B0005180000, G01S0007020000, A61B0005160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 This invention analyzes an IOT and machine learning-based methodology to detect the passing of vehicles thru one-way lanes using remote sensors. Whenever the vehicle enters the one way lane the direction detection device and will communicate with the direction detection sensor of the device. The direction detection will communicate with the sensor of vehicle. The image capturing device will capture the image and send it to the cloud server data base. The cloud server data base will communicate the penalty information to the Driver of the vehicle through sensor to traffic police as well as RTO at real time.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004088 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AUTOMATIC LICENSE NUMBER PLATE RECOGNITION SYSTEM USING AIML

(51) International classification :G08G0001017000, G06K0009320000, A45C0013020000, H04W0092020000, C12N0015850000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

Automatic Number Plate Recognition (ANPR) is broadly perceived as a mass perception structure that gets the picture of vehicles and sees their grant number. ANPR might be supported the fame of taken engines. The character of taken engines should be reasonable in a gifted way through method of methods for using the ANPR systems found withinside the avenues. This paper manages the cost of an affirmation approach wherein the vehicle plate photo is gotten through method of methods for the programmed cameras and the photo is prepared to get the assortment plate information. In this specific condition, the assortment plate an area is limited using a novel „feature-principally based assortment plate localization approach which consolidates a few computations. Nevertheless, our test principally focusing in on the 2 brief computations i.e., Edge Finding Method and Window Filtering Method for the higher improvement of the assortment plate prevalence structure.

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004093 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ACCIDENT PREDICTION MODULE FOR AUTONOMOUS DRIVER ASSISTANCE BASED ON DEEP LEARNING

(51) International classification :G06K0009620000, G06K0009000000, G08G0001010000, G06F0030200000, G06N0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Our Invention Accident Prediction Module for Autonomous Driver Assistance based on Deep learning deals with Rear-end vehicle accidents in an IoV (Internet of Vehicle) environment. As rear-end accidents are the prime cause of traffic casualties and to avoid these casualties, rear-end accident prediction has procured recognition for smart transportation. The traditional research on rear-end accident prediction techniques involved Perception-Reaction Time (PRT) parameter which leads to reduced adaptive competence for different PRTs and yields degraded performance. Thus, learning-based techniques were proposed to deal with the related issues and are facing challenges with reference to feature extraction and prediction performance. The Invention presents an optimized YOLOv3 based Rear-end Accident Prediction (YOLO-REAP) to address the traffic casualties caused by rear-end accidents. In YOLO-REAP, the real-time NGSIM dataset is streamlined and expanded to remove the class imbalance issue using Smote Gaussian Matrix (SGM) technique. After pre-processing the dataset, it acts as input for testing and training of the optimized YOLOv3 network. Then, the proposed system model outputs different classes of accident warnings in real-time. The simulation results demonstrate that YOLO-REAP outperformed RCPM, MCWA, Honda, and Berkeley techniques by predicting the possible rear-end accidents.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : INNOVATIVE APPROACHES EMERGING THERAPY FOR CANCER TREATMENT.

(51) International classification :G01N0033574000, A61K0031170000, A61K0031419600, A61K0047610000, G16H0010400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Our Invention Innovative approaches Emerging Therapy for Cancer Treatment is a Consistently, disease is answerable for a large number of passings worldwide and, despite the fact that much headway has been accomplished in medication, there are as yet many issues that should be addressed to further develop malignant growth treatment. Consequently, oncological examination is investing some part of energy towards observing new and productive treatments which can reduce basic secondary effects brought about by traditional medicines. Various innovations are presently under assessment in clinical preliminaries or have been as of now brought into clinical practice. While nanomedicines is adding to the advancement of biocompatible materials both for analytic and remedial purposes, bioengineering of extracellular vesicles and cells got from patients has permitted planning specially appointed frameworks and univocal focusing on systems. In this audit, we will give an inside and out investigation of the most creative advances in fundamental and applied malignant growth research. Malignant growth is a worldwide medical issue answerable for one out of six passings around the world. Designated treatment had advancement potential repressing the development and spread of explicit disease cells, making less harm solid cells. Removal treatment has arisen as a negligibly obtrusive methodology that consumes or freezes diseases without the requirement for open a medical procedure. Normal cell reinforcements showed likely finding free revolutionaries and killing their destructive impacts in this manner treating or forestalling disease. A few new advances are at present under research in clinical preliminaries, and some of them have as of now been endorsed. This audit introduced a report on ongoing advances and forward leaps in disease treatments.

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : OVERVOLTAGE AND UNDER VOLTAGE PROTECTION, NOTIFICATION USING IOT- BASED SYSTEM.

<p>(51) International classification :A61K0009200000, H02P0009100000, H02J0003120000, H02P0029024000, H02H0003200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Gopi Reddy Ranabothu Address of Applicant :Department of Electrical and computer Engineering, WACHEMO UNIVERSITY, Ethiopia. ----- 2)Alemayehu Kebede Abebe 3)Gopala Krishna Rapaka 4)Mathewos Lolamo Biramo 5)Lukas Gebremariam Lapiso 6)Habtemarium Hailu Takore 7)Kedir Beshir Bushuro 8)Abinet Arba Elenka Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Gopi Reddy Ranabothu Address of Applicant :Department of Electrical and computer Engineering, WACHEMO UNIVERSITY, Ethiopia. ----- 2)Alemayehu Kebede Abebe Address of Applicant :Department of Electrical and computer Engineering, WACHEMO UNIVERSITY, Ethiopia ----- 3)Gopala Krishna Rapaka Address of Applicant :Department of Electrical and computer Engineering, WACHEMO UNIVERSITY, Ethiopia ----- 4)Mathewos Lolamo Biramo Address of Applicant :Department of Electrical and computer Engineering, WACHEMO UNIVERSITY, Ethiopia ----- 5)Lukas Gebremariam Lapiso Address of Applicant :Department of Electrical and Computer Engineering, WACHEMO UNIVERSITY, Ethiopia ----- 6)Habtemarium Hailu Takore Address of Applicant :Department of Electrical and Computer Engineering, WACHEMO UNIVERSITY, Ethiopia ----- 7)Kedir Beshir Bushuro Address of Applicant :Department of Electrical and Computer Engineering, WACHEMO UNIVERSITY, Ethiopia ----- 8)Abinet Arba Elenka Address of Applicant :Department of Electrical and Computer Engineering, WACHEMO UNIVERSITY, Ethiopia -----</p>
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(57) Abstract :

Our Invention Overvoltage and Under Voltage Protection, Notification Using IoT- based System is to a This exploration invention is introduced to plan a framework that will screen and shields the electrical burdens from under voltage and over voltage supply, which might be because of unanticipated unfavorable impacts of electrical voltages or voltage changes. These unfriendly impacts of voltage will influence the power quality that is being provided to the electrical burdens. Power quality can be characterized as a consistent stockpile voltage that stays inside the recommended ranges without the sufficient/endorsed scope of force supply; the electrical burdens might breakdown, overheat, bomb rashly, or not work by any stretch of the imagination, consequently it is extremely fundamental to guarantee that the right scope of voltage is being provided to electrical burdens. With this framework set up, any unfavorable impacts of voltages, by enacting its stumbling instrument in the event that the voltage provided to the heaps isn't inside the ideal reach/limits and securely segregate the electrical burdens. This framework comprises of a stumbling instrument that screens the information voltage and excursions as indicated by limits gives. It utilizes 8-cycle microcontroller ATmega328 with a GSM modem and 162 or 204 LCD connected to it remotely. When the info voltage drops out of the window range, it conveys a blunder on screen. Here, a dc engine is utilized as a heap. This framework is likewise arranged with a bell that continues when stumbling happens. The conditions of the framework are shown on the LCD. At whatever point shortcoming happens the microcontroller sends message to the GSM modem, then, at that point, the GSM modem sends ready SMS to the client to ensure their gadget as quickly as time permits.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004096 A

(19) INDIA

(22) Date of filing of Application :24/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : LOGICAL CLOCK SYNCHRONIZATION IN COGNITIVE RADIO NETWORK ARCHETYPES

(51) International classification :H04W0016140000, H04B0017382000, H04W0084180000, G06N0007000000, H04K0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA

(62) Divisional to :NA
Application Number :NA
Filing Date :NA

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(57) Abstract :

Our Invention Logical Clock Synchronization in Cognitive Radio Network Archetypes Cognitive Radio Ad Network (CRAHN), an adaptive and autonomous radio technology, detects vacant radio channels in a wireless spectrum and alters the transmission parameters for improving the radio operating behaviour without interfering in incumbent Primary User's operations. In an ad hoc and distributed environment, the asynchronous behaviour of Secondary Users () and Intermittent Spectrum Sensing Data Falsification (ISSDF) attack on Distributed Cooperative Spectrum Sensing (DCSS) paradigm are the most crucial impediments in achieving faster convergence of distributed consensus for . Consequently, a highly secure and synchronized crowdsourcing framework (termed as BP-POF) with cognitive intelligence is proposed for mitigating ISSDF attack by ensuring robust mutual authentication and key agreement, data integrity and higher synchronization in . Furthermore, BP-POF inculcates a novel coherent distributed algorithm for synchronizing a system of logical clocks for causally ordering the distributed events pertaining to the in CR environs. The proposed BP-POF is compared against the state-of-the-art distributed consensus frameworks using statistical analysis and substantial simulations and is found to be successfully mitigating the ISSDF attack while satisfying the threshold probability of false alarm and miss detection rates of 10⁻² and lower. Furthermore, BP-POF achieves substantially faster distributed convergence rate as quantitatively compared to state-of-the-art frameworks.

No. of Pages : 26 No. of Claims : 7

(54) Title of the invention : COMPARATIVE EVALUATION OF AUDIO-VISUAL & VERBAL EDUCATION ON QUALITY OF LIFE, DENTAL ANXIETY, DENTAL NEGLECT, ORAL HEALTH STATUS.

(51) International classification :A61B0005000000, G06Q0030020000, A61C0019040000, A61C0019000000, A61B0005160000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Our Invention Comparative Evaluation of Audio-visual & verbal education on Quality of life, Dental Anxiety, Dental Neglect, Oral Health status Dental tension and fear bring about aversion of dental consideration. It is an oftentimes experienced issue in dental workplaces. Forming satisfactory proof based treatments for such patients is fundamental, or, more than likely they can be a significant wellspring of stress for the dental specialist. These patients should be distinguished at the earliest open door and their interests tended to. The underlying association between the dental specialist and the patient can uncover the presence of nervousness, dread, and fear. In such circumstances, emotional assessment by meetings and self-covering apprehension and uneasiness scales and objective appraisal of circulatory strain, beat rate, beat oximetry, finger temperature, and galvanic skin reaction can enormously improve the finding and empower arrangement of these people as gently, respectfully, or exceptionally restless or dental phobic. Comprehensively, dental tension can be overseen by psychotherapeutic intercessions, pharmacological mediations, or a blend of both, contingent upon the degree of dental uneasiness, patient attributes, and clinical circumstances. Psychotherapeutic mediations are either typically or intellectually arranged. Pharmacologically, these patients can be overseen utilizing either sedation or general sedation. The gathering included 48 outwardly hindered kids that were arbitrarily separated into two gatherings, with one gathering getting the sound strategy and the other gathering getting the sound material technique. Intermittent support of wellbeing training was performed at a time span months. Reevaluation was completed following 2 months of wellbeing schooling to survey plaque scores. Information were measurably dissected utilizing combined t-test. There was decrease in plaque scores in sound material gathering after wellbeing schooling. In the sound material gathering, the mean plaque scores of pre-and post-wellbeing schooling were 1.28 and 0.952, separately. The thing that matters was genuinely critical (P < 0.0012). In sound gathering, the mean plaque scores of pre-and post-wellbeing training were 1.125 and 0.143, separately. The thing that matters was genuinely not critical (P < 0.074).

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : WIRELESSLY CONTROLLED INTELLIGENT SYSTEM FOR DIGITAL DOOR LOCK APPLICATIONS USING IOT

<p>(51) International classification :E05B0047000000, G07C0009000000, E05B0049000000, G07C0009380000, H04W0004330000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Umesh Kumar Address of Applicant :Director, IIMT College of Polytechnic, Greater Noida, Uttar Pradesh, India -----</p> <p>2)Dr. Nancy Arya 3)Mr. Nitin Sharma 4)Er. Raman Kumar 5)Sujeet Singh Bhadouria 6)Deepak Jyoti 7)Manik Dhiman 8)Dr. Kamlesh Kumari 9)Achal Kumar 10)Dr. Surender Kumar 11)Prof. (Dr.) R.K. Bathla</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Umesh Kumar Address of Applicant :Director, IIMT College of Polytechnic, Greater Noida, Uttar Pradesh, India -----</p> <p>2)Dr. Nancy Arya Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurugram, Haryana, India -----</p> <p>3)Mr. Nitin Sharma Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurugram, Haryana, India -----</p> <p>4)Er. Raman Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IEC University, Baddi, Himachal Pradesh, India -----</p> <p>5)Sujeet Singh Bhadouria Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Institute of Technology and Management, Gwalior, Madhya Pradesh, India -----</p> <p>6)Deepak Jyoti Address of Applicant :Assistant Professor, PG Dept. of Computer Science and IT, Shanti Devi Arya Mahila College, Dinanagar, Punjab, India -----</p> <p>7)Manik Dhiman Address of Applicant :Assistant Professor, Department of Computer Science Engineering, Swami Vivekanand Institute of Engineering & Technology, SVIET,Village-Ramnagar, Near Banur, Rajpura, Punjab, India -----</p> <p>8)Dr. Kamlesh Kumari Address of Applicant :Assistant Professor, Department of Zoology, Govt. Shivalik College, Naya Nangal, Punjab, India -----</p> <p>9)Achal Kumar Address of Applicant :HOD, Department of Electrical Engineering, IIMT College of Polytechnic, Greater Noida, Uttar Pradesh, India -----</p> <p>10)Dr. Surender Kumar Address of Applicant :Head/Assistant Professor, P.G. Department of Computer Science, Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib (An Autonomous College), Punjab, India -----</p> <p>11)Prof. (Dr.) R.K. Bathla Address of Applicant :Professor, Department of Computer Science, Desh Bhagat University, Punjab, India -----</p>
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(57) Abstract :

The present invention relates to wirelessly controlled intelligent system for digital door lock applications using IOT. The objective of the present invention is to solve the problems in the prior art technologies related to indoor intelligent door control devices, in particular to an intelligent door control device.

No. of Pages : 28 No. of Claims : 5

(54) Title of the invention : IOT AND ARTIFICIAL INTELLIGENT BASED RECOGNITION AND AVOIDANCE OF CYBER-CRIME BY USING ML ALGORITHMS

<p>(51) International classification :G06Q0050260000, H04L0029060000, G06F0015160000, G08B0031000000, G06N0020000000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. Meenakshi Sharma Address of Applicant :Professor Global Group of Institutes, Sohian Khurd, Batala Road, Amritsar , 143501, Punjab , India ----- 2)J.Jayashree 3)Mrs.M.Kaleeswari 4)Mr.P.Arokiya Prasad 5)Mr.R.Selvamanikandan 6)Vijayanandh. D 7)P Nandha Kumar 8)Dr. S. Saravanan 9)AYUSH Kumar 10)Dr. Brijesh Sathian Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Meenakshi Sharma Address of Applicant :Professor Global Group of Institutes, Sohian Khurd, Batala Road, Amritsar , 143501, Punjab , India ----- 2)J.Jayashree Address of Applicant :Assistant Professor St. Joseph college of Engineering, Sriperumbudur, Chennai – 602117, Tamilnadu, India ----- 3)Mrs.M.Kaleeswari Address of Applicant :Assistant Professor St. Joseph college of Engineering Sriperumbudur Chennai – 602117, Tamilnadu, India ----- 4)Mr.P.Arokiya Prasad Address of Applicant :Assistant Professor St. Joseph college of Engineering Sriperumbudur Chennai – 602117, Tamilnadu, India. ----- 5)Mr.R.Selvamanikandan Address of Applicant :Assistant Professor St. Joseph college of Engineering Sriperumbudur Chennai – 602117, Tamilnadu, India ----- 6)Vijayanandh. D Address of Applicant :Assistant Professor Department Of EEE Hindusthan College of Engineering and Technology,Coimbatore-32.Tamilnadu, India ----- 7)P Nandha Kumar Address of Applicant :ASSISTANT PROFESSOR Department of Electronics and Communications Pallavi Engineering College, Kuntloor village, Nagole, Hyderabad, R.R Dist , Telangana – 501505, India ----- 8)Dr. S. Saravanan Address of Applicant :Assistant professor & Research Guide, PG and Research Department of commerce, Dr. Ambedkar Government Arts College,(Autonomous, Affiliated to University of Madras) Vyasarpadi, chennai-600039, Tamilnadu, India ----- 9)AYUSH Kumar Address of Applicant :Doctor of pharmacy, Department of pharmacy practice M.M College of Pharmacy Approved By Maharishi Markandeshwar Deemed To Be University Mullana Ambala, 133207 Haryana , India ----- 10)Dr. Brijesh Sathian Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar -----</p>
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(57) Abstract :
Today's criminal's activities are happening on the internet and other cutting-edge technology to commit their crimes. Due to the ease with which the internet can be used, traditional crimes such as drug trafficking and sex is trafficking can be easily committed. Frequently, questions about how the government should assist with this problem are raised in the context of a larger debate about how the government should assist people. When considering cybercrime, it is critical to consider the criminals' work environments, both real and virtual, as well as the technology they use to commit their crimes. Researchers are working to create a system that can determine whether or not an individual is a true criminal. We examine a security system that is designed to catch criminals in the act of illegally accessing computer systems. We employ IAA as a detection technique (Internet Access Account). An IAA safeguards the user's true identity regardless of where they access the internet or what device they use.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004212 A

(19) INDIA

(22) Date of filing of Application :25/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : FREETRADE MUSEUMS

(51) International classification :H04N0001000000, G06F0003048100, A47F0003000000, H01B0001100000, F21V0029830000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a FreeTrade museum. The main focus of the application program is to reach to local communities of foreign countries through FreeTradeMuseums building a common framework over on Skype call with the laptop camera facing the participants' surroundings. FreeTrade Museums (FTM) structures are constructed with materials that is easily available such as cardboard. FreeTrade Museum may be constructed anywhere without any hassle, making it accessible to people of all socio-economic backgrounds and concerns in their neighbourhood state.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004290 A

(19) INDIA

(22) Date of filing of Application :25/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : NOVEL EQUIPMENT FOR THE DISSOCIATION OF GAS HYDRATES

(51) International classification :C09K0008520000, F24F0005000000, E21B0007180000, B01D0053000000, E21B0047060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a system for the formation and dissociation of gas hydrates at high pressure and low temperature. The dissociation of gas hydrate in the equipment will be performed by the thermo-catalytic reactions and microwave radiations. The formation of gas hydrates is an endothermic process and the minimum energy required for the dissociation of gas hydrates is 52-60kJ. Any thermo-catalytic reaction which can release heat higher than this then they are capable for the dissociation of gas hydrates.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : DEVELOPMENT OF A HUMAN-CENTRIC WIRELESS SENSOR NETWORKS MODELING TOOL

<p>(51) International classification :G06Q0010100000, G06F0008100000, G06Q0010060000, G06F0008340000, G06F0030000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr Parmod Kumar Address of Applicant :Associate Professor, Jiangxi University of Engineering, Xinyu City, Jiangxi, China Pin: Zip 338000 Jiangxi, China. ----- 2)Dr Amit Kumar 3)R.SRIKANTH 4)Mrs.E. BABBY 5)DINESH E (DINESH ELANGOVAN) 6)Dr.P.Arulprakash 7)Dr.S.Srithar 8)Snehankita Majalekar 9)Madhavi Avhankar 10)S.SEKAR Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Parmod Kumar Address of Applicant :Associate Professor, Jiangxi University of Engineering, Xinyu City, Jiangxi, China Pin: Zip 338000 Jiangxi, China. ----- 2)Dr Amit Kumar Address of Applicant :Assistant Professor, Department of Mathematics Government Model Degree College, Arniya Bulandshahr, Uttar Pradesh- 203131, India ----- 3)R.SRIKANTH Address of Applicant :Assistant Professor, Rathinam Technical Campus, Pollachi Main Road, Eachanari, Coimbatore-641021 Tamilnadu. ----- 4)Mrs.E. BABBY Address of Applicant :Assistant Professor, Department of Computer Applications. St.Joseph's College (Arts & Science), Kovur, Chennai- 600128, Tamilnadu. ----- 5)DINESH E (DINESH ELANGOVAN) Address of Applicant :Senior Assistant Professor, Department of Electronics and Communication Engineering, M.Kumarasamy College of Engineering, Thalavapalayam, Karur- 639113, Tamilnadu. ----- 6)Dr.P.Arulprakash Address of Applicant :Associate Professor, Rathinam Technical Campus, Pollachi Main Road, Eachanari, Coimbatore-641021 Tamilnadu. ----- 7)Dr.S.Srithar Address of Applicant :Assistant Professor, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur District- 522502, Andhra Pradesh. ----- 8)Snehankita Majalekar Address of Applicant :Assistant Professor, Indira college of commerce and science, Wakad, Pune- 411033, Maharashtra. ----- 9)Madhavi Avhankar Address of Applicant :Assistant Professor, Indira College of commerce and science, Wakad, Pune-411033 Maharashtra. ----- 10)S.SEKAR Address of Applicant :Assistant Professor , Department of Commerce (CA), Sengunthar Arts and Science College, Tiruchengode-Tk, Namakkal-Dt- 637205, Tamilnadu. -----</p>
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(57) Abstract :

Designing collaborative software is a complex task due to the heterogeneity and dynamism of the interactions that must be supported in the application scenario. Supporting the design phase of this type of software helps to understand the system and anticipate the inclusion of functionalities that would otherwise be added too late, putting the success of the work at risk. The tool presents a canvas where you can interactively create and modify the participants of the collaborative system and how they interact with each other. The modeling language is simple and allows designers to model complex interaction scenarios by specifying point-to-point relationships. The characterization of the participants and the way they interact form a graph, on which the analysis can be calculated automatically. The graphic presents an overview of the collaboration scenario, allowing developers to understand the system, communicate working practices, determine requirements, and design a suitable application. Another analysis implemented in the tool is the generation of general requirements associated with collaboration support. Each participant in the system has its own requirements according to the types of interactions it must support. The designer can refine the list of generated requirements according to the particular needs of the application being developed. Starting development with this list of requirements can make software development easier, especially for developers without much experience in the area, as these requirements are often hidden. Ignoring this list can lead developers to build a system that lacks critical components that support or facilitate collaboration. The tool developed will make it easier for researchers in the area to experiment with new collaborative scenarios that can contribute to the reactivation of language.

No. of Pages : 29 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004304 A

(19) INDIA

(22) Date of filing of Application :25/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SWITCH ASSEMBLY

(51) International classification :G05G0001100000, B60Q0001140000, A61B0005042000, H01H0071560000, G05G0005060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Disclosed is a switch assembly 100 for a head lamp leveling device of a vehicle. The switch assembly 100 includes a body 102 with a casing 104 having a slot 106, a holder 108 disposed within the body 102 and includes an internal gear profile 110 at a base of the holder 108, a rotary knob 112 adapted to rotate with respect to the slot 106 and toggle through a plurality of positions 114, a contact holder 116 locked with the rotary knob 112 by a locking member 118. The contact holder 116 includes a pawl 120 adapted to travel along the internal gear profile 110 to toggle through the plurality of positions 114. The rotary knob 112 includes a hollow semi-circular drum 126 including a shaft 132 traversed at the center of a pair of side walls 130.

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : CREDIT CARD WITH FACIAL RECOGNITION

<p>(51) International classification :G06K0009000000, G06Q0020400000, G07F0007080000, H01L0033620000, G07F0017000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Krishna Engineering College Address of Applicant :Mohan Nagar, Near Air Force Station-Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Shaili Singhal Address of Applicant :Assistant Professor, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- 2)Ms. Shipra Gautam Address of Applicant :Assistant Professor, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- 3)Ms. Sonika Nagar Address of Applicant :Assistant Professor, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- 4)Dr. Pramod Kumar Address of Applicant :Professor, Dept. of Computer Science & Engineering (CSE), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India -----</p>
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(57) Abstract :
The present disclosure discloses a system (100) for secured digital credit card transactions. The system (100) includes a camera (102); a credit card (104); and a computing device (106). The device (106) includes a microcontroller (108) comprising a memory (110) coupled with one or more processors (112). The processors (112) are configured to provide secured digital credit card transactions.

No. of Pages : 20 No. of Claims : 4

(54) Title of the invention : PLANT BOT CHASING SUN TO KEEP PLANT THRIVING

<p>(51) International classification :H04L0029080000, G05B0019042000, F24S0030000000, H02S0020320000, A61B0034100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Krishna Engineering College Address of Applicant :Mohan Nagar, Near Air Force Station-Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Deepak Kumar Singh Address of Applicant :Professor & HOD, Dept. of Information Technology (IT), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>2)Mr. Ajay Tiwari Address of Applicant :Dept. of Information Technology (IT), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>3)Mr. Pawas Sharma Address of Applicant :Dept. of Information Technology (IT), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p> <p>4)Mr. Uneet Gurarani Address of Applicant :Dept. of Information Technology (IT), Krishna Engineering College, Mohan Nagar, Near Air Force Station- Hindon, Ghaziabad – 201007, Uttar Pradesh, India ----- -----</p>
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(57) Abstract :
The present disclosure discloses a robotic system (100). The system (100) includes a plurality of sensors (102); a plurality of solar panels (104); a head space (106) to receive a plant; a plurality of actuators (108); and a microcontroller (110) comprising a memory (112) coupled with one or more processors (114).

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004315 A

(19) INDIA

(22) Date of filing of Application :25/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : TELEVISION INTERACTION DISTANCE CORRECTION SYSTEM AND A METHOD THEREOF

(51) International classification :H04L0029080000, G06T0007600000, G02C0007080000, B21C0051000000, G07C0003080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure discloses a system (100) for television interaction distance correction. The system (100) includes a plurality of sensors (102) disposed on the television. The sensors (102) are configured to detect presence of humans within a predefined distance from the television. The system (100) includes a microcontroller (104) including a memory (106) coupled with one or more processors (108).

No. of Pages : 18 No. of Claims : 7

(54) Title of the invention : DESIGN AND IMPLEMENTATION FOR LOCATING FILES INFECTED WITH VIRUSES AND OTHER MALWARE IN DIFFERENT LOCATIONS IN A BIG DATA SYSTEM

<p>(51) International classification :G06F0021560000, H04L0029060000, H04L0029080000, C12N0005078900, G06N0020000000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Prof. K. B. Sharma Address of Applicant :Professor, Department of Physics S. S. Jain Subodh P. G. College, Rambagh Circle, Jaipur, Rajasthan, India-302004 -----</p> <p>2)Prof. Manish Kaushik 3)Dr. Ashutosh Mishra 4)Dr. GOPAL ARORA 5)Reetika Sharma 6)V T KRISHNAPRASATH 7)DR.J.PREETHI 8)Anjaneya Krishna Turai 9)Aadesh Ajit Shinde 10)Mrs Manjusha Amol Mangrulkar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Prof. K. B. Sharma Address of Applicant :Professor, Department of Physics S. S. Jain Subodh P. G. College, Rambagh Circle, Jaipur, Rajasthan, India-302004 -----</p> <p>2)Prof. Manish Kaushik Address of Applicant :Professor, Department of Computer Application, S. S. Jain Subodh P. G. College, Rambagh Circle, Jaipur, Rajasthan India-302004 -----</p> <p>3)Dr. Ashutosh Mishra Address of Applicant :Professor, Department of Electronics and Communication, Shankara Institute of Technology, SP-44 RIICO Industrial Area, Kukas-Jaipur, Rajasthan India-302028 -----</p> <p>4)Dr. GOPAL ARORA Address of Applicant :Associate Professor, Department of Chemistry, School of Basic and Applied Science, SANSKRITI UNIVERSITY CHHATA MATHURA, Uttar Pradesh- 281401 -----</p> <p>5)Reetika Sharma Address of Applicant :Research Scholar, Department of Computer science, SANSKRITI UNIVERSITY, CHHATA MATHURA, Uttar Pradesh- 281401 -----</p> <p>6)V T KRISHNAPRASATH Address of Applicant :Assistant Professor, Department of CSE, Nehru Institute of Technology, Jawahar gardens, KALIYAPURAM, Coimbatore- 641105. -----</p> <p>7)DR.J.PREETHI Address of Applicant :Assistant Professor, Department of CSE, Anna University Regional campus Coimbatore, Coimbatore -641046 -----</p> <p>8)Anjaneya Krishna Turai Address of Applicant :Student, Department of Data Science, Symbiosis Skills & Professional University, Pune, Maharashtra- 412101. -----</p> <p>9)Aadesh Ajit Shinde Address of Applicant :Student, Department of Computer Science, Symbiosis Skills & Professional University, Pune, Maharashtra- 412101. -----</p> <p>10)Mrs Manjusha Amol Mangrulkar Address of Applicant :Sr. Lecturer, Electronics Department, Premilila Vithaldas Polytechnic, Sir Vithaldas Vidyavihar, Juhu Road Santacruz (West) Mumbai - 400 049 -----</p>
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(57) Abstract :

IoT has gradually brought many technological changes in our daily life, which in turn helps to make our life more simple and convenient. IoT applications are found in almost every domain, including medical, manufacturing, industry, transportation, education, governance, mining, etc. Nowadays, networks with IoT devices have many threats. Viruses, other malware, and physical attacks are major threats to IoT-based systems. In this research, we proposed a methodology to overcome the above threats in IoT-based health systems that is suitable for more IoT-based systems. The code values of the files and the experimental results are taken. The experiments identify files affected by virus threats at different locations in the IoT-based healthcare system. A virus alert can be sent and a scan can be started to protect files on these systems. Therefore, the proposed methodology identified the presence of threats by viruses and other malicious programs in the IoT-based system.

No. of Pages : 19 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004346 A

(19) INDIA

(22) Date of filing of Application :26/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A CITY RESPIRATOR WITH TWO LEVELS OF PURIFICATION

<p>(51) International classification :F24F0003160000, B01D0046000000, A61L0009200000, B01D0053140000, B03C0003120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Hemant Kumar Gupta Address of Applicant :I-301, Aura Chimera Rajnagar Extension, Ghaziabad 201017 -----</p> <p>2)Dr. Sanjeev Singh 3)Yasir Karim 4)Vineeta Pal 5)Vijay Lokesh Singh 6)Anuj Sharma Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Hemant Kumar Gupta Address of Applicant :I-301, Aura Chimera Rajnagar Extension, Ghaziabad 201017 -----</p> <p>2)Dr. Sanjeev Singh Address of Applicant :Department of Civil engineering, KIET Group of Institutions, Delhi-NCR, Meerut road, Ghaziabad-201206 -----</p> <p>3)Yasir Karim Address of Applicant :Department of Civil Engineering, KIET Group of Institutions, Ghaziabad UP, 201206 -----</p> <p>4)Vineeta Pal Address of Applicant :H-901, Saviour Greenarch, Noida Extension, Near Ek murti Circle. 201009 -----</p> <p>5)Vijay Lokesh Singh Address of Applicant :VPO- Biral, Budhana, Distt Muzaffarnagar UP 247771 -----</p> <p>6)Anuj Sharma Address of Applicant :16B/282 Vasundhara Ghaziabad, UP 201012 -----</p>
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(57) Abstract :

An air purifier (100) for ensuring delivery of clean air in a public place. The air purifier (100) includes an inlet fan (104) to suck polluted air into the air purifier (100). The air purifier (100) further includes a plurality of exhaust fans (106a-106n) to blow out clean air out of the air purifier (100). The air purifier (100) further includes a membrane (108) installed on an inner surface of the plurality of exhaust fans (106a-106n). The air purifier (100) further includes a sprinkler (110) to spray water towards the top onto the sucked polluted air. The air purifier (100) sucks polluted air from the surrounding using an inlet fan (104), sprinkle water over the sucked polluted air using a sprinkler (110), and blow out clean air through the plurality of exhaust fans (106a-106n).

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : ML-BASED PRECISION FARMING USING IOT EQUIPMENTS

<p>(51) International classification :G06N002000000, A01B007900000, G01N0033240000, G01S0019140000, G01N0021530000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Zatin Gupta Address of Applicant :Research Scholar, Department of CSE, MMEC, MM(DU), Mullana, Ambala, Haryana & Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>2)Mr. Vivek Tomar 3)Dr. Shweta Thakur 4)Mr. Baldivya Mitra 5)Dr. Ashish Kumar 6)Mrs. Sphurti Birajdar 7)Dr. Mahesh Lokhande 8)Ms. Mamta Gahlan 9)Mr. ADITYA DAYAL TYAGI 10)DR KASHIF QURESHI</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Zatin Gupta Address of Applicant :Research Scholar, Department of CSE, MMEC, MM(DU), Mullana, Ambala, Haryana & Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>2)Mr. Vivek Tomar Address of Applicant :Assistant Professor, CSE, KIET Group of Institutions, Delhi-NCR, Ghaziabad & Research Scholar, CSE, National Institute of Technology, Uttarakhand -----</p> <p>3)Dr. Shweta Thakur Address of Applicant :Associate Professor, School of Law, Galgotias University Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida -----</p> <p>4)Mr. Baldivya Mitra Address of Applicant :Assistant Professor, Department of CS, KIET Group of Institutions, Delhi-NCR, Ghaziabad -----</p> <p>5)Dr. Ashish Kumar Address of Applicant :ITS Engineering College, Greater Noida-201306 -----</p> <p>6)Mrs. Sphurti Birajdar Address of Applicant :Global Business School and Research Centre, Tathawade, Pune-411033 -----</p> <p>7)Dr. Mahesh Lokhande Address of Applicant :Jawaharlal Institute of Technology, Borawan, Teh: Kasrawad, Dist: Khargone. M.P. Pin- 451228 -----</p> <p>8)Ms. Mamta Gahlan Address of Applicant :#535 Sanskriti Appartment Sector 19-B, Dwarka –New Delhi PIN 110075 -----</p> <p>9)Mr. ADITYA DAYAL TYAGI Address of Applicant :ITS Engineering College, Greater Noida -----</p> <p>10)DR KASHIF QURESHI Address of Applicant :PROFESSOR CUM DATA SCIENTIST, COMPUTER SCIENCE & ENGINEERING, SANSKRITI UNIVERSITY MATHURA -----</p>
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(57) Abstract :

The present invention is a system for precision farming which use the machine learning concepts and the IOT equipments thereof. The present invention consists of sensor to record the humidity in soil; sensor to monitor the atmospheric pressure; and sensor for checking the soil quality and the composition. The component of the system has microprocessor for processing and display to show the output values. A present invention is a powerful tool which informs farmers about the seed quality and seed type to ploughing and planting. The system takes the inputs from the sensor and machine learning algorithms will compute the result to suggest the most appropriate crop based on the season, soil composition and the costing. The main approach used behind the system is the machine learning algorithms; and IOT supported equipments. The figure 1 and figure 2 describe the details of the present invention.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004360 A

(19) INDIA

(22) Date of filing of Application :26/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : LOW POWER SRAM CIRCUIT USING DEEP SUBMICRON CMOS TECHNOLOGY FOR MOBILE APPLICATION

<p>(51) International classification :G11C0007100000, G11C0005140000, G11C0011419000, H03K0019000000, G11C0011412000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Krishan Chandra Mishra Address of Applicant :Ph.D. Research Scholar Department of ECE Uttarakhand Technical University Suddhowala, Dehradun, Uttarakhand, India Pin:248007 -----</p> <p>2)Dr. Rakesh Kumar Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Krishan Chandra Mishra Address of Applicant :Ph.D. Research Scholar Department of ECE Uttarakhand Technical University Suddhowala, Dehradun, Uttarakhand, India Pin:248007 -----</p> <p>2)Dr. Rakesh Kumar Singh Address of Applicant :Vice-Chancellor, Patliputra University Patna, Ex.Director and Professor, Bipin Tripathi Kumaon Institute of Technology, Dwarahat, Almora, Bihar, India Pin:800020 -----</p>
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(57) Abstract :

In order to meet increasing demands for performance and low power consumption, the chip must have a large amount of memory. These are just a few illustrations. In this paper, we demonstrate how to use a new low-stress SRAM cell called IP3 as a single cell. Both the write and read subcells are read-only. Additionally, the write sub-cell serves as a hold cell. Using a PMOS gated ground as the data read sub-ground cells could be even more advantageous. This reduces the gate's leakage current as well as the current at the sub-leakage threshold. At this point, the memory is in standby mode and receiving a drowsy voltage charge. When memory chips are in standby mode, or when they are not in use, they use full-supply body biasing to further reduce sub-threshold leakage current. As a result, standby power consumption is reduced on a global scale. As a result, the proposed method has significantly less write and read power compared to other cells. Additionally, it enhances readability and writing capability. The proposed method is evaluated between VDD = 0.8 Volt and 0.7 Volt, in accordance with previous research. The design is validated using a VDD = 0.8 V analysis. The remaining design parameters function as follows: V_{thn} equals 0.224 V, while V_{thp} equals 0.24 V. V_{thn} and V_{thp} are equivalent in 45nm technology.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : INTERNET OF THINGS BASED SMART ENVIRONMENTAL POLLUTION MONITORING SYSTEM BY USING WSN

(51) International classification :H04W0084180000, G08B0021120000, G06Q0010100000, G01N0033000000, H04N0007180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Environmental and human health concerns are growing in importance as heavy industry expands globally. This is because of the diverse chemicals and contamination produced by human activity. Heavy industry expansion has been linked to the release of these toxins into the environment, as well as to the health of nearby residents. As a result, countries throughout the world have enacted stricter regulations governing pollution monitoring, control, and treatment. As a result of these rules, it is critical to develop an effective, efficient, and dependable method of combating pollution. Individuals who wish to keep the environment safe and unharmed will be able to do so only with the appropriate diagnostic systems. When an environment is smart, it can raise an alarm automatically in response to the detection of a specific event. As a result, smart environmental monitoring encompasses not only pollution monitoring, but also changes in the environment. Without WSNs, it is impossible to develop novel methods of environmental monitoring. This enables a slew of new intelligent features to be added to the environment. These characteristics, which are based on self-monitoring and self-protection, enable both reactive and proactive responses to a wide variety of situations encountered in the world. Self-configuring sensor nodes are required to create a network capable of providing information at any time and from any location. To begin, data must be collected. After that, it must be processed, analysed, and made available to others. With the assistance of WSN, a smart environment can be created. Thus, when WSNs are used as the backbone of smart environments to detect specific phenomena, monitor pertinent data, evaluate the information generated, display meaningful user interfaces, and make decisions, among other things, this presents a significant challenge!

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004362 A

(19) INDIA

(22) Date of filing of Application :26/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : LOW POWER SRAM CIRCUIT USING SUBMICRON COMPLEMENTARY METAL-OXIDE SEMICONDUCTOR (CMOS) TECHNOLOGY FOR MOBILE APPLICATION

<p>(51) International classification :G11C0011412000, H01L0027120000, G06F0030200000, G11C0011413000, H01L0029780000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Krishan Chandra Mishra Address of Applicant :Ph.D. Research Scholar Department of ECE Uttarakhand Technical University Suddhowala, Dehradun, Uttarakhand, India Pin:248007 -----</p> <p>2)Dr. Rakesh Kumar Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Krishan Chandra Mishra Address of Applicant :Ph.D. Research Scholar Department of ECE Uttarakhand Technical University Suddhowala, Dehradun, Uttarakhand, India Pin:248007 -----</p> <p>2)Dr. Rakesh Kumar Singh Address of Applicant :Vice-Chancellor, Patliputra University Patna, Ex.Director and Professor, Bipin Tripathi Kumaon Institute of Technology, Dwarahat, Almora, Bihar, India Pin:800020 -----</p>
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(57) Abstract :

There is a high increasing demand for improved performance and low power intake in both current and future devices. Individuals will be required to utilize DSM technology to address a variety of issues. These include issues with power leakage and performance. Additionally, they must address data retention and stability concerns. In this paper, we demonstrate how to use a new low-stress SRAM cell called IP3 as a single cell. Both the write and read subcells are read-only. Additionally, the write sub-cell serves as a hold cell. The data read sub-cell should be constructed using a pMOS gated ground scheme. This reduces power further, which also contributes to power savings (Figure 1). This is the first time, as far as we are aware, that low-stress memory cells have been considered. Additionally, it provides greater stability when reading and writing. At VDD = 0.8 V, simulations of the proposed design are run. The following is an analysis of the results obtained with VDD = 0.8 V. The design parameters for all other components are based on the 45-nm CMOS technology found at 27°C. This technology has a tOX of 2.5 nm, a vThn of 0.224 V, and a vThp of 0.24 V.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : DETECTING THE EARLY STAGE AND BREAKDOWN OF DAMAGED POWER CORDS AND TRANSFORMERS USING MOBILE SENSOR NETWORK

<p>(51) International classification :H04W0084180000, G06N0020000000, H04W0004380000, G06N0003080000, G08B0021180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Vetrihangam Duraisamy Address of Applicant :Associate Professor, Department of Computer Science & Engineering Chandigarh University Punjab. -----</p> <p>2)Dr. Syed Umar 3)Dr. Shruti Aggarwal 4)Dr. Hussain Syed 5)Mr.Yalamaddi Abhinav 6)Mr.Sasi Kamalesh Vadlani</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Vetrihangam Duraisamy Address of Applicant :Associate Professor, Department of Computer Science & Engineering Chandigarh University Punjab. -----</p> <p>2)Dr. Syed Umar Address of Applicant :Professor, Department of Computer Science & Engineering, Wollega University, Oromiya, Nekemte, Ethiopia. -----</p> <p>3)Dr. Shruti Aggarwal Address of Applicant :Associate Professor, Department of Computer Science &Engineering Chandigarh University, Punjab-140413, India. -----</p> <p>4)Dr. Hussain Syed Address of Applicant :Associate Professor, School of Computer Science and Engineering VIT AP University, Andhra Pradesh-522237 India. -----</p> <p>5)Mr.Yalamaddi Abhinav Address of Applicant :Student, School of Computer Science and Engineering, VIT AP University, Andhra Pradesh-522237 India. - -----</p> <p>6)Mr.Sasi Kamalesh Vadlani Address of Applicant :Student, School of Computer Science and Engineering, VIT AP University, Andhra Pradesh-522237 India. - -----</p>
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(57) Abstract :

The electric board office has the system with a machine learning model to continuously monitor the live current load in each sector; this method has the range of current load and threshold value. If method notify any changes in the threshold value which means up and down current load, then this data with alert message will be sent to the mobile device installed with an application which receives the threshold value with its updated information and this will be transferred to the deployed mobile sensor network; where the mobile sensor network has the sensor nodes, sink node and GPS. Sensor nodes communicate with each other, the sink node will collect the environmental information that is location information with longitude and latitude and, the received current load data from wireless Voltmeter; all the data will be sent to the application whoever installed the application they can receive the information with alert message. Damaged power cord or broken power cord will be predicted and identified by analyzing the live data using the machine learning algorithm.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004375 A

(19) INDIA

(22) Date of filing of Application :26/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ANTIMICROBIAL EFFECT OF STREBLUS ASPER LEAF EXTRACT: A RANDOMIZED CONTROLLED CLINICAL TRIAL

<p>(51) International classification :A61Q0011000000, A61K0036600000, C12Q0001040000, A61K0008430000, A61C0017200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Sloka Kanungo Address of Applicant :1052, Canal Road, Bhubaneswar, Odisha, India, 751010. -----</p> <p>2)Dr. Gunjan Kumar 3)Dr Pankaj Kumar Goswami Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sloka Kanungo Address of Applicant :1052, Canal Road, Bhubaneswar, Odisha, India, 751010. -----</p> <p>2)Dr. Gunjan Kumar Address of Applicant :Department of Public health Dentistry Kalinga Institute of dental sciences, KIIT Deemed to be University, Campus -5, Patia, Bhubaneswar, Odisha, India, 751024 -----</p> <p>3)Dr Pankaj Kumar Goswami Address of Applicant :A 205 PRATIBHA APARTMENT -----</p>
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(57) Abstract :

The present study is different from the study Effects of streblus asper leaf extract on the biofilm formation of subgingival pathogens based upon the following differences. The present study is both in vitro and in vivo, whereas the study on Effects of streblus asper leaf extract on the biofilm formation of subgingival pathogens is an in vitro study. The present study in vitro strains of two different bacteria are used so as to check the efficacy of the streblus asper mouthwash upon S. mutans and A. Actinomycetecomitans which are most commonly found bacteria in oral flora, whereas in the study on Effects of streblus asper leaf extract on the biofilm formation of subgingival pathogens is an in vitro study they have used only flora from patients to check the effects of streblus asper only on subgingival plaque. In the present study effects of streblus asper both on subgingival and supragingival plaque has been assessed. So these are above mentioned differences between the present study and study on Effects of streblus asper leaf extract on the biofilm formation of subgingival pathogens.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : MULTI DISEASE CLASSIFIER AND LOCALIZER FOR CHEST X-RAY

<p>(51) International classification :A61B0006000000, G16H0050200000, G16H0015000000, G16H0010600000, G16H0030200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Graphic Era Hill University Address of Applicant :Graphic Era Hill University, Dehradun -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Satvik Vats Address of Applicant :Assistants Profesor, Department of CSE, Graphic Era Hill University, Dehradun -----</p> <p>2)Dr. Vikrant Sharma Address of Applicant :Assistants Profesor, Department of CSE, Graphic Era Hill University, Dehradun -----</p> <p>3)Dr. DEVESH PRATAP SINGH Address of Applicant :Assistant Professor, Pulmonary Medicine, AIIMS GORAKHPUR -----</p> <p>4)Mr. Sunny Singh Address of Applicant :Data Scientist NextGen TechEdge Solutions Pvt. Ltd., India -----</p> <p>5)Dr. Karan Singh Address of Applicant :Assistant Professor, School of Computer & Systems Sciences, JNU New Delhi -----</p> <p>6)Dr. Bharat Bhushan Sagar Address of Applicant :Assistant Professor, Dept. of CSE, BIT Mesra -----</p> <p>7)Mr. Amit Gupta Address of Applicant :Assistants Profesor, Department of CSE, Graphic Era Hill University, Dehradun -----</p> <p>8)Mr. Navin Garg Address of Applicant :Associate Profesor, Department of CSE, Graphic Era Hill University, Dehradun -----</p>
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(57) Abstract :

As per the NHS UK report, out of different radiology scans, 50% belongs to chest X-ray. Radiologists, while diagnosing different diseases, have faced a big challenge to identify the multivariant disease simultaneously with the help of X-rays. 21st century is the era of pandemics due to environmental changes. In coming 3-4 decades pandemics like CORONA frequently may occur all over the worlds. Hospital trusts across England have reported that more than 600,000 people await radiology related scans amid the coronavirus crisis. In this circumstance huge number of X-rays are needed urgently to identify the real problem with precision. To explore this possibility, we have developed a prototype artificial intelligence algorithm that is able to automatically diagnose 16 most prevalent chest abnormalities from the patient's chest x-ray. The present AI algorithm will provide one solution to medical practitioners to identify 16 diseases on a single place based on chest X-ray study.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004394 A

(19) INDIA

(22) Date of filing of Application :27/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN INTERACTIVE VIDEO SYSTEM USING DEEP DETERMINISTIC POLICY GRADIENT (DDPG)

(57) Abstract :

The present invention discloses an interactive video system using deep deterministic policy gradient (DDPG). The invention provides an interactive video system using deep deterministic policy gradient (DDPG) for an object tag. The present system comprises the following steps: extracting and analyzing the color feature, contour feature, scene feature and character feature of a moving object in each image frame of a video; processing a plurality of pictures of known types by using the feature extraction method, processing a video to be retrieved by using the feature extraction and analysis method and the classifiers so as to generate type tags of objects in each image frame of the video, wherein the type tags are used for constructing an object tag database; and retrieving a response server to search the object tag database to find videos related to a query request submitted by a user, and generating an ordered result for the user to browse and refer. The method provided by the invention can be used for retrieving the video content at a speed similar to that of the conventional text retrieval only by searching the object tag database and achieving the fine granularity retrieval of the video content, so that the method is more accurate than the conventional method.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004395 A

(19) INDIA

(22) Date of filing of Application :26/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : MACHINE LEARNING BASED REAL TIME HOSPITALITY IMPROVEMENT SYSTEM FOR HOTEL INDUSTRIES

(51) International classification :G06Q0050120000, H04N0021436000, G06F0016000000, G06Q0010020000, G06N0020000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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3)Mr. Parveen Chand
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5)Mr. Hitesh
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(57) Abstract :
 The present invention is machine learning based real time hospitality improvement system for hotel industries. The data memory computerized algorithm module to store the normalized rooms data, and a communication computerized algorithm module to communicate the normalized rooms data to the verity of hotel guest mobile computing unit according to a selected communication protocol that is selected via each hotel guest computer device of the verity of hotel guest mobile computing unit from among a verity of available communication protocols provided by the communication computerized algorithm module.

No. of Pages : 17 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004408 A

(19) INDIA

(22) Date of filing of Application :27/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : WALL MOUNTED AUTOMATIC FOLDABLE SEAT WITH SAFETY BELT IN CHAIR CAR TRAINS.

<p>(51) International classification :G06Q0010020000, B60R0022100000, B60R0022260000, C12N0007000000, A47C0009060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MOHIT GUPTA Address of Applicant :Plot No. 63 Site- IV Ghaziabad , Uttar Pradesh, India, 201010 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MOHIT GUPTA Address of Applicant :Plot No. 63 Site- IV Ghaziabad , Uttar Pradesh, India, 201010 -----</p> <p>2)SAPNA YADAV Address of Applicant :KIET GROUP OF INSTITUTIONS Delhi-NCR, Meerut Road (NH-58) Ghaziabad-201206 -----</p> <p>--</p> <p>3)MONIKA BANSAL Address of Applicant :Plot No 63, Site IV, Surya Nagar Flyover Road, Sahibabad Industrial Area, Sahibabad, Ghaziabad, Uttar Pradesh 201010 -----</p>
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(57) Abstract :

The invention belongs to the category of chair and it is sub-classified as wall mounted automatic foldable seat with safety belt for chair car trains. The invention consisting of wall mounted panel, automatic foldable cushion seat, safety adjustable belt, fasteners, spring mechanism. The invention helpful in maintaining the actual database of children below 5 years of age during reservation of tickets, as they will get seats in chair car trains. Children below 5 years of age are safe in the trains due to this invention from sudden jerk in the train, sudden stop of the train, derailment of the train, their parents travel with comfort and no chances of body pain during travelling and this is a huge problem in recent times. The economy increases, if Indian railway reservation ticketing system will charge for this wall mounted automatic foldable seat with safety belt in chair car trains.

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : SMART PATIENT CARE MEDICINE POUCH SYSTEM

(51) International classification :A61B0005000000, A61B0005024000, H04L0029080000, G16H0050300000, A61B0005145000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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2)Dr. Sachin Sharma
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3)Ms. Shuchi Bhadula
 Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India -----

(57) Abstract :

The invention discloses a system 100 for monitoring health parameters of a patient and recommending medicine kept in a smart medicine pouch, said system 100 comprising: an IoT band 101, a smart medicine pouch 102, an IOT device 103 with internet connectivity, and a cloud 104. The memory stores processor instructions, which, on execution, causes the processor to monitor health parameters of the patient and recommend medicine to the patient kept in said smart medicine pouch 102. The method of monitoring health parameters and recommending medicine comprising: identifying health parameters of the patient in real time; sending said health parameters to the cloud 104; sending availability of medicine in a plurality of labelled pocket of said smart medicine pouch 102 to the cloud 104 through the communication module, and predicting, by said cloud 104, a suitable medicine available in said smart medicine pouch 102 based on health parameters.

No. of Pages : 29 No. of Claims : 7

(54) Title of the invention : AN APPARATUS FOR MICRO EAR SURGERY

<p>(51) International classification :A61F0009013000, A61B0017000000, A61B0090000000, A61B0017321100, A61B0017072000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sharda University Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)PATHAK, Vivek Kumar Address of Applicant :Associate Professor, Department of Otorhinolaryngology, School of Medical Sciences and Research, Sharda Hospital, Sharda University, Block D, 1st Floor, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. ----- 2)SAXENA, Rahul Address of Applicant :Professor, School of Allied Health Sciences, Sharda University, Block 4, 6th Floor, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. ----- 3)SINGH, Jaskaran Address of Applicant :Assistant Professor, School of Allied Health Sciences, Sharda University, Block 4, 5th Floor, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. ----- 4)NAYAK, Pradeepti Address of Applicant :Assistant Professor, School of Medical Sciences and Research, Sharda Hospital, Sharda University, Block D, 1st Floor, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. ----- 5)MIR, Tahir Ul Gani Address of Applicant :Research Scholar, School of Bioengineering and Biosciences, Lovely Professional University. Jalandhar-Delhi, G.T. Road, Phagwara, Punjab - 144411, India. -- -----</p>
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(57) Abstract :
A surgical apparatus for micro ear surgery is disclosed. The disclosed apparatus includes a handle; a surgical knife pivotally coupled to the handle through a knife holder, and a suction cannula pivotally coupled to the handle through a suction cannula holder. The surgical knife is configured to rotate about a first pivot axis between an extended position and a folded position. The suction cannula is configured to rotate about a second pivot axis between an extended position and a folded position.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : IOT BASED SEATING MANAGEMENT SYSTEM

<p>(51) International classification :G06Q0050100000, H04L0029080000, G08B0005220000, A47C0007020000, G06Q0010020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Rohit Sharma Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, SRM Institute of Science and Technology, NCR Campus, Delhi- NCR Campus, Delhi-Meerut Road, Modinagar Ghaziabad Uttar Pradesh India 201204 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Vivek Kumar Srivastav Address of Applicant :Lecturer Electronics, G. P. Barabanki 19/362 Indiranagar Lucknow Uttar Pradesh India 226016 -----</p> <p>2)Mr. Utpal Pandey Address of Applicant :Lecturer Electronics, G. P. Barabanki, 15 Ashraf vihar, Mallahaur road near eldico Chinhath lucknow Uttar Pradesh India 226028 -----</p> <p>3)Komal Sharma Address of Applicant :Assistant Professor, Jodhpur Institute of Engineering and Technology, Jodhpur, Rajasthan, Rajasthan Technical University, A-39 I Extension Kamla Nehru Nagar, Jodhpur Rajasthan India 342001 -----</p> <p>4)Mr. Deepak Kumar Address of Applicant :Assistant professor, Department of Electronics & communication Engineering, Bharat Institute of Technology N.H-58, Partapur bypass Meerut Uttar Pradesh India 250103 -----</p> <p>5)Ritu Arora Address of Applicant :Assistant Professor, Department of Mathematics and Statistics, Gurukul Kangri (Deemed to be University) Haridwar Uttarakhand India 249404 -----</p> <p>6)Dr. Anand Chauhan Address of Applicant :Associate Professor, Department of Mathematics (Allied Science), Graphic Era (Deemed to be University) Dehradun Uttarakhand India 248001 -----</p> <p>7)Mr. Anshuman Prakash Address of Applicant :Embedded & IoT Mentor, Hexnbit Edtech Pvt. Ltd, 214, 2nd Floor, Tower B, The Ithum, Plot no: A-40, Sector-62 Noida Uttar Pradesh India 201309 -----</p> <p>8)Aisha Jangid Address of Applicant :Assistant Professor, Jodhpur Institute of Engineering and Technology, Jodhpur, Rajasthan Technical University, 232-A, Shiv mandir road, Ratanada Jodhpur Rajasthan India 342001 -----</p> <p>9)Nirmala Address of Applicant :Department of Computer Science and Engineering, Nitte Meenakshi Institute of Technology Bangalore Karnataka India 560064 -----</p> <p>10)Dr. Rohit Sharma Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, SRM Institute of Science and Technology, NCR Campus, Delhi- NCR Campus, Delhi-Meerut Road, Modinagar Ghaziabad Uttar Pradesh India 201204 -----</p>
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(57) Abstract :
 The present invention relates to an IOT based seating management system (100). The system (100) highlights the seat availability during the visit at park or garden. The system (100) generates an audio-visual request for physically disabled persons and the aged persons. The system (100) includes one or more sensors, an output module, a database, a cloud server, electronic device and a controller. The sensors are incorporated with the seats. The controller receives the information of a number or location of the seats. If the seats are available, the user is allowed to book the seat using the electronic device. If the seats are not available, the user is allowed to request for the seat using the electronic device. When the request is accepted by a user sit on the seat, the user is allowed to use the seat for sitting.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004518 A

(19) INDIA

(22) Date of filing of Application :27/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : PARTITION ALGORITHM FOR FREQUENT PATTERN MINING USING TWO COLUMNS ATOMIC DATA LAYOUT

(51) International classification :G06F0016245800, G06F0016000000, G06F0016230000, H04W0048200000, B41J0002155000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA

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1)Dr. C.S. Raghuvanshi

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2)Dr. Hari Om Sharan

Address of Applicant :Department of Computer Science, Faculty of Engineering and Technology, Rama University, Kanpur, Uttar Pradesh-209217 -----

(57) Abstract :

The present invention relates to the in this paper we are presenting a two columns atomic data layout for using intersection command of SQL to count the support of itemset, without scanning each transaction one by one. This approach work in two phases like classical partition algorithm, in the first phase it partitions the database into a number of small chunk and find frequent pattern using SQL intersect command in each chunk. In the second phase, it merges all local frequent itemset found in each partition and determine the support of global candidate itemset with respect to the whole database without scanning the database, while in this process classical partition algorithm requires one complete scan of database.

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004519 A

(19) INDIA

(22) Date of filing of Application :27/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : PREDICTING THE BEST GENOTYPE THROUGH STABILITY ANALYSIS IN SOYBEAN
(GLYCINE MAX (L.) MERRILL)

(51) International classification :A01H0001040000, A01H0005100000, A01D0041127000, A01B0079000000, G16B0040000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to the Predicting the best genotype through stability analysis in soybean. The field experiment with twenty genotypes of soybean was laid down in randomized complete block design with three replications at four different locations. The Analysis of variance was found significant for all the characters undertaken and pooled analysis for phenotypic stability, environments (linear) also differed significantly. Results showed that the genotype PS 1502 as the most desirable and stable for yield per plot and number of primary branches per plant, while it exhibited specific adaptability to rich environment for dry matter weight per plant, oil content and specific adaptability to poor environment for number of seeds per pod. Among all the genotypes, PS 1347, PS 1506 and PS 1510 showed specific adaptation to poor environments for oil content. Genotype PS 1347 was found to be stable for seed yield per plot and harvest index.

No. of Pages : 18 No. of Claims : 4

(54) Title of the invention : A MACHINE LEARNING-BASED HOTSPOT PREDICTION SYSTEM IN ELECTRONIC DESIGN AUTOMATION (EDA) APPLICATIONS

<p>(51) International classification :G06N002000000, G06F0030398000, G06F0030330000, G06F0111020000, G01K0007420000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mohammad Suaib Address of Applicant :Assistant Professor, Dept. of Computer Science & Engineering, Integral University, Kursi Road, Gram Dasauli, P.O. Basaha-226026 Luclnow, India. ----- 2)Dr. MOHD AKBAR 3)Dr. Mohd.Arif 4)Dr. Jameel Ahmad 5)Dr. Shish Ahmad 6)Ankita Srivastava 7)Nudrat Fatima 8)NIHARIKA SRIVASTAVA 9)Garima Singh Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mohammad Suaib Address of Applicant :Assistant Professor, Dept. of Computer Science & Engineering, Integral University, Kursi Road, Gram Dasauli, P.O. Basaha-226026 Luclnow, India. ----- 2)Dr. MOHD AKBAR Address of Applicant :Assistant Professor, Dept. of Computer Science & Engineering, Integral University, Kursi Road, Gram Dashauli, P.O. Basaha-226026 Luclnow, India. ----- 3)Dr. Mohd.Arif Address of Applicant :Associate Professor, Dept. of Computer Science & Engineering, Integral University, Kursi Road, Gram Dashauli, P.O. Basaha-226026 Luclnow, India. ----- 4)Dr. Jameel Ahmad Address of Applicant :Associate Professor, Dept. of Computer Science & Engineering, Integral University, Kursi Road, Gram Dashauli, P.O. Basaha-226026 Luclnow, India. ----- 5)Dr. Shish Ahmad Address of Applicant :Associate Professor, Dept. of Computer Science & Engineering, Integral University, Kursi Road, Gram Dashauli, P.O. Basaha-226026 Luclnow, India. ----- 6)Ankita Srivastava Address of Applicant :Associate Professor, Dept. of Computer Science & Engineering, Integral University, Kursi Road, Gram Dashauli, P.O. Basaha-226026 Luclnow, India. ----- 7)Nudrat Fatima Address of Applicant :Associate Professor, Dept. of Computer Science & Engineering, Integral University, Kursi Road, Gram Dashauli, P.O. Basaha-226026 Luclnow, India. ----- 8)NIHARIKA SRIVASTAVA Address of Applicant :Assistant Professor, High Learning Centre (Computer Science), Central Institute of Petrochemicals Engineering and Technology, Lucknow, Amausi Industrial Area, B-27, CIPET Rd, Nadarganj, Sindhunagar, Lucknow, Uttar Pradesh 226008. ----- 9)Garima Singh Address of Applicant :Assistant Professor, Dept. of Computer Science and Information Technology, KIET Group of Institutions, Delhi-NCR, Ghaziabad Meerut Road (NH 58) Ghaziabad-201206. -----</p>
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(57) Abstract :
The present invention discloses a machine learning-based hotspot prediction system in electronic design automation (EDA) applications. The system is comprised of, but not limited to, a hotspot defining module for identifying a criterion for a hotspot or a metric of the electronic circuit design; a processing unit for performing and placing the hotspot or metric prediction by using a deep learning data modelling; and a microcontroller configured for applying a correction candidate to an electronic circuit design, which is going to be under processing for IC chips embedding.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004641 A

(19) INDIA

(22) Date of filing of Application :27/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM FOR DETECTING SEVERE ACUTE RESPIRATORY SYNDROMEOMICRON VARIANT OF CORONAVIRUS AND METHOD THEREOF

<p>(51) International classification :G06Q0050220000, C12N0015113000, G16H0020300000, H04L0012751000, G01C0021200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MS. MANPREET KAUR AIDEN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, SHARDA UNIVERSITY, GREATER NOIDA, U.P. ----- 2)Dr. Sumit Kumar 3)Prof. (Dr.) Nalini Kanta Sahoo 4)M. Menagadevi 5)Sunil Kumar Agrawal 6)Dr MIAHAVEERAKANNAN R 7)Dr. Neha Tavker Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MS. MANPREET KAUR AIDEN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, SHARDA UNIVERSITY, GREATER NOIDA, U.P. ----- 2)Dr. Sumit Kumar Address of Applicant :Assistant Professor, Faculty of Information Technology, Gopal Narayan Singh University, Jamuhar, Bihar, India, 821305 ----- 3)Prof. (Dr.) Nalini Kanta Sahoo Address of Applicant :Principal, SRM MODINAGAR COLLEGE OF PHARMACY, SRM Institute of Science and technology (Deemed to be University), DELHI-NCR Campus, Modinagar, Ghaziabad, Uttar Pradesh, 201204 ----- 4)M. Menagadevi Address of Applicant :Assistant professor, Department of Biomedical Engineering, Dr. N. G. P Institute of Technology, Coimbatore, 641048 --- ----- 5)Sunil Kumar Agrawal Address of Applicant :Assistant professor, Arya College of engineering and IT, Jaipur ----- 6)Dr MIAHAVEERAKANNAN R Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Saveetha School of Engineering, Chennai ----- ----- 7)Dr. Neha Tavker Address of Applicant :Research Associate, National Innovation Foundation - India, Grambharti, Amrapur, Gandhinagar, Gujarat- 382650 -----</p>
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(57) Abstract :

The present invention discloses a system for detecting severe acute respiratory syndrome omicron variant of coronavirus and method thereof. The system includes, but not limited to, a memory unit to store input-output data values in real-time communication; a processing unit, wherein the memory unit is disposed in communication with the processor and storing processor executable instructions, the instructions comprising instructions to: read a receptacle unit having an oligonucleotide consisting of a nucleic acid with a sequence selected from the group consisting of: SEQ ID NOS: 20, 22, 11, 12, and complements thereof.

No. of Pages : 18 No. of Claims : 8

(54) Title of the invention : A SYSTEM FOR DETECTION OF FACIAL EMOTIONS USING DEEP LEARNING AND METHOD THEREOF

(51) International classification :G06K0009620000, G06K0009000000, G06K0009460000, G06N0003080000, G09G0005140000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention discloses a system for detection of facial emotions using deep learning and method thereof. The system includes, but not limited to, an artificial intelligence interface for applying a plurality of image filters to each of a plurality of image windows defined at a plurality of locations in a face in an image to produce a set of descriptors representing contents of each of the plurality of image windows. Further, the processing unit is configured for processing outputs of the plurality of image filters for the plurality of image windows using a feature selection stage by a deep learning data modelling.

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : COMPUTING DEVICE SECURED WITH KEYSTROKE DYNAMICS

(51) International classification :G06F0016245700, G06F0021830000, A47J0036320000, G08G0001160000, G06F0021350000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention discloses a computing device (100). The device (100) includes at least one input unit (102) through which a username and a password is input; a timer (104) in synchronization with the computing device (100), the timer (104) through which a typing time for each letter of the username and the password sets manually; and a microcontroller (106) comprising a memory (108) coupled with one or more processors (110) operable to execute the one or more subunits.

No. of Pages : 29 No. of Claims : 9

(54) Title of the invention : FORMULATION, CHARACTERIZATION AND EVALUATION OF ANDROGRAPHIS PANICULATA HERBOSOMES FOR IMPROVED PERMEABILITY

<p>(51) International classification :A61K0036190000, A61K0031365000, A61K0047690000, A61K0047540000, B82Y0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. ABHISHEK TIWARI Address of Applicant :PROFESSOR, PHARMACY ACADEMY, IFTM UNIVERSITY, MORADABAD, UTTAR PRADESH, INDIA. ----- 2)MS. GAYATRI JOSHI 3)DR. VARSHA TIWARI 4)DR. NAVNEET VERMA 5)DR. PRASHANT UPADHYAY 6)DR. SUKIRTI UPADHYAY 7)DR. MANISH KUMAR 8)DR. VIPIN SAINI 9)DR. SUNIL SINGH 10)DR. ANAND PODDAR 11)DR. SURESH KUMAR Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR. ABHISHEK TIWARI Address of Applicant :PROFESSOR, PHARMACY ACADEMY, IFTM UNIVERSITY, MORADABAD, UTTAR PRADESH, INDIA. ----- 2)MS. GAYATRI JOSHI Address of Applicant :ASISTANT PROFESSOR, PHARMACY ACADEMY, IFTM UNIVERSITY, MORADABAD, UTTAR PRADESH, INDIA. ----- 3)DR. VARSHA TIWARI Address of Applicant :PROFESSOR, PHARMACY ACADEMY, IFTM UNIVERSITY, MORADABAD, UTTAR PRADESH, INDIA. ----- 4)DR. NAVNEET VERMA Address of Applicant :DIRECTOR & DEAN, PHARMACY ACADEMY, IFTM UNIVERSITY, MORADABAD, UTTAR PRADESH, INDIA. ----- 5)DR. PRASHANT UPADHYAY Address of Applicant :ASSOCIATE PROFESSOR, IFTM UNIVERSITY, MORADABAD, UTTAR PRADESH, INDIA. ----- 6)DR. SUKIRTI UPADHYAY Address of Applicant :ASSOCIATE PROFESSOR, IFTM UNIVERSITY, MORADABAD, UTTAR PRADESH, INDIA. ----- 7)DR. MANISH KUMAR Address of Applicant :PROFESSOR, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 8)DR. VIPIN SAINI Address of Applicant :DIRECTOR RAAC, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 9)DR. SUNIL SINGH Address of Applicant :PRINCIPAL, SHRI SAI COLLEGE OF PHARMACY, DIST, PRAYAGRAJ, UTTAR PRADESH, INDIA. ----- 10)DR. ANAND PODDAR Address of Applicant :PODDAR INTERNATIONAL COLLEGE, SECTOR-7, NEAR SJIPRA PATH, MANSAROVAR, JAIPUR – 302020 ----- 11)DR. SURESH KUMAR Address of Applicant :BHARAT INSTITUTE OF PHARMACY, PEHLADPUR, BABAIN KURUKSHETRA HARYANA INDIA -----</p>
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(57) Abstract :

The aim of present invention is to resolve rapid clearance and high plasma protein binding and poor bioavailability problems. The Andrographolide rich extract loaded herbosomes was formulated to enhance permeability and in vivo bioavailability. In ALH (Andrographolide loaded Herbosome) best formulations are AH8 and AH11. For AH8 the ratio of herbosomes extract, lipid, and temperature ratio are 60 mg, 80 mg, 80°C respectively, whereas for AH11, the ratio of herbosomes extract, lipid, temperature ratio are 40 mg, 60 mg and temp are 80° C. Best formulation selected on the basis of particle size and entrapment the particle size and entrapment of AH8 is 287.19 µm and 84.12 % respectively, AH11 is 288.86 µm, 84.32 % respectively.

No. of Pages : 30 No. of Claims : 6

(54) Title of the invention : A MACHINE LEARNING BASED APPROACH TO IMPLEMENT A HYBRID NETWORK TOPOLOGY FOR E-COMMERCE SITES

(51) International classification :G06N002000000, H04L0012751000, G06N0003040000, H04W00040020000, H04L0012240000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 A machine learning based approach to implement a hybrid network topology for e-commerce sites is the proposed invention. The proposed invention aims to integrate the benefits of both the techniques of hybrid network topology machine learning aspects such that the machine learning unit will route the data packets by using the previous data packet transfers as the training data set. The trained machine learning model will guide the network topology in routing to achieve better performance and accuracy.

(54) Title of the invention : INDOOR AIR POLLUTION MONITORING DEVICE FOR PREGNANT WOMEN

<p>(51) International classification :G01D0021020000, G01N0021640000, G08C0017020000, G01N0033180000, G06F0003023000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Graphic Era Hill University, Dehradun Campus Address of Applicant :510, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Richa Gupta Address of Applicant :Computer Science & Engineering, Graphic Era Deemed to be University, Bell Road, Clement Town, Dehradun, Uttarakhand -----</p> <p>2)Ms. Akshara Pande Address of Applicant :School of Computing, Graphic Era Hill University, Society Area, Clement Town, Dehradun, Uttarakhand -----</p> <p>3)Mr. Amit Gupta Address of Applicant :Computer Science & Engineering, Graphic Era Hill University, Society Area, Clement Town, Dehradun, Uttarakhand -----</p> <p>4)Mr. Navin Garg Address of Applicant :Computer Science & Engineering, Graphic Era Hill University, Society Area, Clement Town, Dehradun, Uttarakhand -----</p> <p>5)Ms. Rishika Yadav Address of Applicant :Computer Science & Engineering, Graphic Era Hill University, Society Area, Clement Town, Dehradun, Uttarakhand -----</p> <p>6)Dr. Vikas Tripathi Address of Applicant :Computer Science & Engineering, Graphic Era Deemed to be University, Bell Road, Clement Town, Dehradun, Uttarakhand -----</p>
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(57) Abstract :

The present invention discloses an indoor air quality monitoring device. The system is comprised of, but not limited to, a live environment detecting device, a wireless receiving and transmitting module, a single chip, a remote monitoring device, and an alarm device, wherein the wireless receiving and transmitting module comprises a wireless emitter and a wireless receiver, the wireless emitter is in signal connection with the live environment detecting device and is used for receiving the detected information of the live environment detecting device and converting the detected information into an emission signal.

No. of Pages : 24 No. of Claims : 6

(54) Title of the invention : A SYSTEM FOR PROVIDING WATER BREEZE MODEL

(51) International classification :E03B0003280000, F24F0013220000, C02F0101320000, F03D0003060000, F03B0013140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention discloses a system for providing water breeze model. The present invention model works on the principle of condensation. What it does is, when it's night, Then the cold air pass through the land to the sea so the cold breeze (air) will collide with the plates and the plates is made of iron and glass, which will cool down faster. Breeze contains, as soon as the cold breeze hits the plate the water droplets will come on the surface of the plates. and there is a trigger which is fitted in our model which will work as wiper and swipe down the water. In the end all the plates there is collector channel which will collect water from each respective plates and this channel is connected to a pipe which fitted at both side of the plates and will collect all water from each channel. These pipes will lead to storage through a filter where all produced water will be collected.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004954 A

(19) INDIA

(22) Date of filing of Application :29/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A FACE IDENTIFICATION METHOD BASED ON THE COMBINATION DCT-SVM

(51) International classification :G06K0009000000, G06K0009620000, G06F0016215000, H04N0019590000, H04N0019625000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

The present invention relates to a face identification method (100) based on the combination DCT-SVM. The method (100) comprises a face dataset unit (102) ORL, a training set unit (104), a testing set unit (104), a feature extraction unit (106) using discrete cosine transform (DCT), a classifier unit (108), and a face image preprocessing unit (110, 112, 114). The face image preprocessing unit (110, 112, 114) is operationally connected to the face dataset unit (102) ORL, training set unit (104), testing set unit (104), feature extraction unit (106) using discrete cosine transform (DCT), classifier unit (108). The face identification method (100) based on the combination DCT-SVM that can increase exactness. The identification method (100) based on the combination DCT-SVM enhance the efficiency in the terms of classification time. The method (100) also lower the training time and testing time.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211004985 A

(19) INDIA

(22) Date of filing of Application :29/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : GLOVE GEAR SYSTEM FOR TRACING EVIDENCE

(51) International classification :F21Y0115100000, A61L0002100000, A41D0019000000, H04J0014020000, A61B0005145500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure discloses a system 100 embedded in a glove, the system 100 is configured for tracing evidence. The system 100 comprises a set of ultraviolet (UV) light emitting sources 104 adapted to be configured over surface of the glove. Further, the system 100 comprises an actuating unit 106 operatively coupled to the set of UV light emitting sources 104, wherein the actuating unit 106 facilitates actuating and de-actuating of the UV light emitting sources 104. The actuation of the UV light emitting sources 104 facilitates tracing of evidence at a crime scene.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211005008 A

(19) INDIA

(22) Date of filing of Application :29/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : CONTINGENT WORKFORCE AND ITS IMPACT ON ORGANISATION'S PERFORMANCE – EVALUATING THE IT INDUSTRY

<p>(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0050200000, G06Q0030080000, G06F0021310000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Jaya Ashish Sethi Address of Applicant :Principal, Guru Gobind Singh College of Management and Technology, Giddarbaha, Punjab, India. ----- ----- 2)Sohail Imran Khan 3)Dr. Sonali Vyas 4)Dr. Jitendra Singh 5)Dr Parul Mittal 6)Dr. Shiva Johri 7)Dr. S. Anita Evelyn 8)ULFAH FAJARINI Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Jaya Ashish Sethi Address of Applicant :Principal, Guru Gobind Singh College of Management and Technology, Giddarbaha, Punjab, India. ----- ----- 2)Sohail Imran Khan Address of Applicant :Assistant Professor, Department of Business Administration, College of Administration & Economics, Lebanese French University, Erbil, Iraq ----- 3)Dr. Sonali Vyas Address of Applicant :School of Computer Science, UPES Dehradun, Utrakhnad, India ----- 4)Dr. Jitendra Singh Address of Applicant :Associate Professor, Department of Management , Law College Dehradun, Uttaranchal University Dehradun , Uttarakhand, India. ----- 5)Dr Parul Mittal Address of Applicant :Assistant professor, KLP College, rewari, Haryana, India ----- 6)Dr. Shiva Johri Address of Applicant :Associate Professor, Department Of MBA, Oriental College Of Management Bhopal, Barkatullah University Bhopal, Madhya Pradesh, India. ----- 7)Dr. S. Anita Evelyn Address of Applicant :Associate Professor, Department of Science & Humanities (English), R. M. K. ENGINEERING COLLEGE (Autonomous), R. S. M. Nagar, Kavaraipettai, Thiruvallur Dist., Tamil Nadu,India ----- 8)ULFAH FAJARINI Address of Applicant :Lecturer, faculty of education, Syarif Hidayatullah State Islamic University, Jakarta Indonesia. -----</p>
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(57) Abstract :

This invention analyzes contingent workforce and its impact on organisation's performance – evaluating the IT industry. According to an embodiment, human resources are very crucial and real resources of an enterprise. The effective engagement of an organization's employees is an active, exciting and vital challenging task. The scarcity of competent resources and the increasing possibilities of the contingent workforce have further enhanced the difficulty of the personnel management function. According to an embodiment, the contingent employees have given highest significance (high rank) to scope for career growth and development and better compensation system.

No. of Pages : 13 No. of Claims : 2

(54) Title of the invention : ALCOHOLIC FORMULATION OF CALCAREA CARBONICA FOR TREATMENT AND PREVENTION OF INFLAMMATION DISEASES

(51) International classification :C07K0005020000, A61K0031122000, A61K0035748000, A61K0031120000, A61K0031500000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 This invention analyzes alcoholic formulation of calcarea carbonica for treatment and prevention of inflammation diseases. According to an embodiment, the alcoholic formulation when used in the treatment of inflammation and inflammatory diseases comprising tumorigenesis, microbial infection, sepsis-related organ failures, acute hepatic/lung/brain/renal injuries, osteoporosis/osteonecrosis, neurodegenerative disorders, metabolic diseases, cardiovascular and autoimmune diseases, and ingestion of toxic compounds.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211005010 A

(19) INDIA

(22) Date of filing of Application :29/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN IOT AND MACHINE LEARNING-BASED METHODOLOGY OF SPECTRUM SENSING OF COGNITIVE RADIO SYSTEMS USING CLUSTER-BASED PROCEDURE

<p>(51) International classification :H04W0016140000, H04W0072040000, H04L0029060000, H04W0024080000, H04W0084180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Tanya Garg Address of Applicant :Assistant Professor, Computer Science and Engineering , Thapar Institute of Engineering & Technology, Patiala, 147004 ----- 2)Dr. Sunita Sunil Shinde 3)Dr. Sheshang Degadwala 4)Dr. Nazia Wahid 5)Simmi Chawla 6)Ms. Swati Bhattacharjee Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Tanya Garg Address of Applicant :Assistant Professor, Computer Science and Engineering , Thapar Institute of Engineering & Technology, Patiala, 147004 ----- 2)Dr. Sunita Sunil Shinde Address of Applicant :Associate Professor, Department of E. & TC., Institute Annasaheb Dange College of Engineering and Technology, Ashta 416301 India ----- 3)Dr. Sheshang Degadwala Address of Applicant :Associate Professor , Sigma Institute of Engineering, Engineering Block, Sigma Group of Institutes, Ajwa-Nimeta Road, Bakrol, Vadodara,Gujarat 390019, India ----- 4)Dr. Nazia Wahid Address of Applicant :Assistant Professor, Department of Mathematics & Statistics, Faculty of Science & Technology, Vishwakarma University Pune (Maharashtra)-411048 ----- 5)Simmi Chawla Address of Applicant :Doctoral Research Scholar, Computer Engineering, J C bose University of Science & Technology, YMCA, Faridabad, Haryana- 121006 ----- 6)Ms. Swati Bhattacharjee Address of Applicant :Assistant Professor of ECE Department, Asansol Engineering College, MAKAUT, West Burdwan, West Bengal, India -----</p>
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(57) Abstract :

This invention analyzes an IOT and machine learning-based methodology of spectrum sensing of cognitive radio systems using cluster-based procedure. Wireless networks are encountering exponential growth of internet traffic, such as video traffic, web browsing traffic, and other data traffic that can be carried over the internet. Continued growth in internet traffic has spurred the development of new wireless communication protocols that can support wider bandwidths, a greater range of radio frequencies, and higher throughput data rates. The present invention has spectrum management which involves capturing the best available spectrum to meet user communication requirement. The best spectrum band for quality of service is decided by cognitive radios. It is involving spectrum analysis and decision making.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : A CENTRAL TRANSACTION AUTHENTIC SYSTEM FOR OTP VERIFICATION

<p>(51) International classification :G06Q0020400000, H04L0029060000, G06Q0020380000, G06Q0030060000, G06Q0040020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Namita Mishra Address of Applicant :Associate Professor, Tecnia Institute of Advanced Studies, 3psp Institutional Area, Madhuban Chowk, Sector-14, Rohini, Delhi, Pin Code: 110085 ----- 2)Dr. Pooja Sharma 3)Dr. Madhavendra Nath Jha 4)Dr Archana Dixit 5)Dr. Trilok Pratap Singh 6)Dr Namrata Gupta 7)Prof Pavnesh Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.Namita Mishra Address of Applicant :Associate Professor, Tecnia Institute of Advanced Studies, 3psp Institutional Area, Madhuban Chowk, Sector-14, Rohini, Delhi, Pin Code: 110085 ----- 2)Dr. Pooja Sharma Address of Applicant :Associate professor, Lovely Professional University, Jalandhar, Punjab, Pin Code: 14441 ----- 3)Dr. Madhavendra Nath Jha Address of Applicant :Professor (Management), Tecnia Institute of Advanced Studies, 3, PSP Institutional Area, Madhuban Chowk, Sector-14, Rohini, Delhi, Pin Code: 110085 ----- 4)Dr Archana Dixit Address of Applicant :Assistant professor, Tecnia institute of advanced studies, 3, PSP Institutional Area, Madhuban Chowk, Sector-14, Rohini, Delhi, Pin Code: 110085 ----- 5)Dr. Trilok Pratap Singh Address of Applicant :Assistant Professor, Department of Management, Madhav Institute of Technology & Science, Gwalior, Madhya Pradesh, Pin Code: 474005. ----- 6)Dr Namrata Gupta Address of Applicant :Assistant professor, Madhav Institute of technology & Science, Gwalior, Madhya Pradesh, Pin Code: 474005 ----- 7)Prof Pavnesh Kumar Address of Applicant :Professor Department of Management Sciences, Dean PMMM School of Commerce and Management Sciences, Mahatma Gandhi Central University, Motihari, Bihar , Pin Code:845401 -----</p>
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(57) Abstract :
The present invention relates to a central transaction authentic system (100) for OTP verification. The system (100) comprises one or more user display units (102), one or more financial units (104), an account deposit unit (106), an OTP authentication unit (108) and a service server unit (110). The central transaction authentic system (100) for OTP verification work as Anti-money laundering measure. The system (100) also helpful for minimizing rate of cybercrime. The central transaction authentic system (100) for OTP verification that can neutralize digital financial fraud. The present invention provides a central transaction authentic system (100) for OTP verification that can monitor and analyze every transaction and customer interaction across its customer base for suspicious and potentially criminal activity.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211005176 A

(19) INDIA

(22) Date of filing of Application :31/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN OPTIMIZED SECURITY SOLUTION FOR INTELLIGENT TRANSPORTATION SYSTEM USING FINGERPRINT SCANNER

(51) International classification :H04L0029060000, B60R0025240000, G07C0009000000, B60R0025040000, B60R0025000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention aims to provide optimized security solution in the field of intelligent transportation system. The invention provides a solution that aims to regulate and limit access to a vehicle, only to authorized drivers. An authorized driver is the one who is recognized and authenticated by the solution. Only an authorized driver is allowed to start the vehicle. This invention provides an optimized security system. The first requirement is that, the assigned driver needs to be registered into the system. The registration is only possible through an SMS facility originating from one of the mobile number already present in Vehicle Tracking Device firmware. Once the driver is registered, he/she can gain access to drive the vehicle by presenting his/her credentials to the vehicle tracking device. Authentication is performed locally at the vehicle level.

No. of Pages : 9 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211005290 A

(19) INDIA

(22) Date of filing of Application :31/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN IOT BASED ALL SIZE FIT SHOE ASSEMBLY

(51) International classification :H04L0029080000, G08B0025100000, A43B0003240000, G06F0009451000, A43B0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses an IoT based all size fit shoe assembly. The present invention is provided with a sole structure with anti-fall sensors, an adjustable shoe heel and electricity generation by the Nano generators while walking which can be used for charging mobile devices in state of emergency and also comprises an embedded shoe light for darkness; further, for tracking the location of the user using a user interface provided on a user device and for connecting integrating hardware with software of the shoe assembly, which includes a microcontroller, a plurality of sensory devices, led, hydraulic connectors working with the user interface. Furthermore, the user interface is configured to communicate through a cloud environment for transmission of information and data for effectively working of the shoe assembly, enabling operable to the user and other person for tracking the user for safety purpose.

No. of Pages : 28 No. of Claims : 10

(54) Title of the invention : CAMERA LENS GROUP

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:H04N0007140000, G02B0007020000, H04N0005225000, H05K0003280000, B60R0011040000</p> <p>:202110175893.3</p> <p>:07/01/2021</p> <p>:-----</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)ZHEJIANG SUNNY OPTICS CO., LTD Address of Applicant :No.67-69, Fengle Road, Yangming Street, Yuyao City, Zhejiang 315400, China -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)LI, Yang Address of Applicant :No.67-69, Fengle Road, Yangming Street, Yuyao City, Zhejiang 315400, China -----</p> <p>2)HE, Lingbo Address of Applicant :No.67-69, Fengle Road, Yangming Street, Yuyao City, Zhejiang 315400, China -----</p> <p>3)DAI, Fujian Address of Applicant :No.67-69, Fengle Road, Yangming Street, Yuyao City, Zhejiang 315400, China -----</p> <p>4)ZHAO, Liefeng Address of Applicant :No.67-69, Fengle Road, Yangming Street, Yuyao City, Zhejiang 315400, China -----</p>
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(57) Abstract :

Embodiments of the present disclosure disclose a camera lens group, comprising, sequentially along an optical axis from an object side to an image side: a stop; a first lens having a positive refractive power; a second lens having a refractive power; a third lens having a negative refractive power; a fourth lens having a positive refractive power; a fifth lens having a positive refractive power; and a sixth lens having a negative refractive power. A distance TTL on the optical axis from the object-side surface of the first lens to an image plane of the camera lens group and half of a diagonal length ImgH of an effective pixel area on the image plane of the camera lens group satisfy: $TTL/ImgH \leq 1.25$. At least one of the surfaces from the object-side surface of the first lens to the image-side surface of the sixth lens is an aspheric surface.

No. of Pages : 46 No. of Claims : 20

(54) Title of the invention : PYROLYSIS TREATMENT EQUIPMENT FOR WASTE SYNTHETIC RESIN CAPABLE OF AUTOMATIC OPERATION IN EACH PROCESS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:C10B0053070000, C10G0001100000, F23G0005027000, C10B0053000000, B09B0003000000</p> <p>:10-2021-0012778</p> <p>:29/01/2021</p> <p>:-----</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)REVO TECH CO., LTD. Address of Applicant :311-43, Gaeun-ro, Maseong-myeon, Mungyeong-si, Gyeongsangbuk-do, 36926, Republic of Korea ----</p> <p>-----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)HWANG, Byung Jig Address of Applicant :1503-ho, 104-dong, 19, Mira 2-gil, Seobuk-gu, Cheonan-si, Chungcheongnam-do, 31155, Republic of Korea -</p> <p>-----</p> <p>2)HWANG, Jin Hyeon Address of Applicant :1503-ho, 104-dong, 19, Mira 2-gil, Seobuk-gu, Cheonan-si, Chungcheongnam-do, 31155, Republic of Korea -</p> <p>-----</p> <p>3)JEON, Ok Yeon Address of Applicant :308-ho, A-dong, 107-5, Juheul-ro, Mungyeong-eup, Mungyeong-si, Gyeongsangbuk-do, 36915, Republic of Korea -----</p>
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(57) Abstract :

There is provided pyrolysis treatment equipment for waste synthetic resin capable of automatic operation in each process, the pyrolysis treatment equipment being able to efficiently obtain oil and gas from waste synthetic resin, and particularly to improve the entire treatment efficiency and increase the yield of oil and gas through stable pyrolysis by automatically adjusting the operation situation in accordance with a change of qualities of waste synthetic resin such as temperature and humidity.

No. of Pages : 30 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217001068 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : MANAGEMENT DEVICE, MANAGEMENT SYSTEM, MANAGEMENT METHOD, MANAGEMENT PROGRAM, AND RECORDING MEDIUM

(51) International classification	:G06Q0010080000, H04L0009320000, G06F0021640000, G06Q0010060000, G06Q0030000000	(71) Name of Applicant : 1)NAGASE & CO., LTD. Address of Applicant :1-1-17, Shinmachi, Nishi-ku, Osaka-shi, Osaka 5508668 -----
(31) Priority Document No	:2019-123793	Name of Applicant : NA
(32) Priority Date	:02/07/2019	Address of Applicant : NA
(33) Name of priority country	:-----	(72) Name of Inventor :
(86) International Application No	:PCT/JP2020/025125	1)KANEDA, Kitahiro
Filing Date	:26/06/2020	Address of Applicant :c/o NAGASE & CO., LTD., 5-1, Nihonbashi-Kobunacho, Chuo-ku, Tokyo 1038355 -----
(87) International Publication No	:WO 2021/002284	-----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to the present invention, the traceability of transaction targets in a material supply chain is more reliably ensured. A management device (10) located at bases constituting the supply chain for the transaction of product materials comprises: a material identification information generation unit (11) which uses material-indicating information acquired by means of a sensor to generate material identification information indicating the feature amount specific to the material; and a transaction registration unit (13) which registers, in a blockchain stored in a blockchain system (200), transaction data including the generated material identification information, as transaction data indicating the transaction contents of the material.

No. of Pages : 88 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217002252 A

(19) INDIA

(22) Date of filing of Application :14/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : INDOOR UNIT OF REFRIGERATION DEVICE

(51) International classification :G01N0033000000,
F24F0011360000,
F24F0011300000,
F25B0049020000,
G01N0027407000

(31) Priority Document No :2019-130646

(32) Priority Date :12/07/2019

(33) Name of priority country :-----

(86) International Application No :PCT/JP2020/026437
Filing Date :06/07/2020

(87) International Publication No :WO 2021/010212

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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CHOME, KITA-KU, OSAKA-SHI, -----

(57) Abstract :

The present disclosure solves the problem of selecting an installation location for a gas sensor at which a user or a service person can easily attach and detach the gas sensor. A gas sensor (55) for detecting refrigerant leakage is installed in or near an electrical component box (50), the gas sensor (55) being installed at a position at which the gas sensor (55) can be removed by moving an intake grill (60). Hence, the user or service person can easily attach and detach the gas sensor (55) by moving the intake grill (60), allowing for easy maintenance.

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : AXIAL FAN

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:F04D0029680000, F04D0029380000, F04D0029440000, F04D0025060000, F21S0009040000</p> <p>:2019-149642</p> <p>:19/08/2019</p> <p>:-----</p> <p>:PCT/JP2020/020169 :21/05/2020</p> <p>:WO 2021/033383</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)DAIKIN INDUSTRIES, LTD. Address of Applicant :Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka 5308323 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)IWATA Tooru Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka- shi, Osaka 5308323 -----</p> <p>2)HIGASHIDA Masahito Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka- shi, Osaka 5308323 -----</p> <p>3)MARUYAMA Kaname Address of Applicant :c/o DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka- shi, Osaka 5308323 -----</p>
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(57) Abstract :

This axial fan (10, 100) comprises a first impeller (30, 110) having a plurality of first moving blades (32, 112) aligned in a circumferential direction, and a second impeller (40, 130) that is coaxial with the first impeller (30, 110) and that has a plurality of second moving blades (42, 132) aligned in the circumferential direction. The first impeller (30, 110) and the second impeller (40, 130) are capable of rotating in two directions. The circumferential-direction cross-sectional shape of each individual first moving blade (32, 112) is convex on the side near the second moving blades (42, 132). The circumferential-direction cross-sectional shape of each individual second moving blade (42, 132) is convex on the side near the first moving blades (32, 112).

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217003625 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Silicon-Oxygen Compound, Secondary Battery Using It, And Related Battery Module, Battery Pack And Device

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H01M0010052000, H01M0004480000, H01M0004485000, H01M0004360000, H01M0004131000</p> <p>:201910688521.3</p> <p>:29/07/2019</p> <p>:-----</p> <p>:PCT/CN2020/103488 :22/07/2020</p> <p>:WO 2021/017972</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED Address of Applicant :No.2 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)LIANG, Chengdu Address of Applicant :No.2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>2)GUAN, Yingjie Address of Applicant :No.2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>3)ZHAO, Yuzhen Address of Applicant :No.2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>4)WEN, Yan Address of Applicant :No.2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p> <p>5)HUANG, Qisen Address of Applicant :No.2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----</p>
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(57) Abstract :

Provided are a silicon oxygen compound, and a secondary battery using same and related battery module, battery pack and device thereof. A chemical formula of the silicon oxygen compound is SiO_x, wherein 0<x<= tr=></x

No. of Pages : 27 No. of Claims : 14

(54) Title of the invention : Secondary Battery, Battery Module, Battery Pack, Apparatus Containing The Secondary Battery

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(51) International classification	:H01M0004525000, H01M0010052500, H01M0004505000, H01M0004131000, H01M0004020000	
(31) Priority Document No	:201910918750.X	
(32) Priority Date	:26/09/2019	
(33) Name of priority country	:-----	
(86) International Application No	:PCT/CN2020/113311	
Filing Date	:03/09/2020	
(87) International Publication No	:WO 2021/057428	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed in the present application is a secondary battery and a battery module, a battery pack and a device containing the secondary battery. The secondary battery comprises a positive electrode plate, a negative electrode plate, a separator and an electrolyte; the positive electrode plate comprises a positive electrode current collector and a positive electrode film sheet arranged on at least one surface of the positive electrode current collector and comprising a positive electrode active material; the negative electrode plate comprises a negative electrode current collector and a negative electrode film sheet arranged on at least one surface of the negative electrode current collector and comprising a negative electrode active material, wherein the positive electrode active material comprises one or more of a lithium nickel cobalt manganese oxide and a lithium nickel cobalt aluminum oxide, and the negative electrode active material comprises a silicon-based material and a carbon material; and the secondary battery satisfies: $1.05 = K = 1.25$.

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217004633 A

(19) INDIA

(22) Date of filing of Application :27/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : STICKERING METHOD AND SYSTEM FOR TRACKING AND MANAGING HUMAN-MACHINE MEDIATED ACTIONS

(51) International classification :G06F0009540000,
G06F0040289000,
H04L0029080000,
G06F0003048800,
G06F0016580000

(31) Priority Document No :PCT/SG2019/050369

(32) Priority Date :29/07/2019

(33) Name of priority country :-----

(86) International Application No :PCT/SG2019/050409
Filing Date :19/08/2019

(87) International Publication No :WO 2021/021013

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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2)DASWANI, Bhagwan Jethanand
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36, Conduit Road, Hong Kong -----

(57) Abstract :

A stickering system and method of tracking and managing human-machine mediated actions, the system and method involving linking meta-process(es), process(es) and actions from an actions database to stickers, the stickers are from a stickers database being built upon stickering contextually important electronic text related to various actions, processes and meta-processes. The stickering method and system may further be sensitive to the context-within-context by selecting a context-appropriate actions, processes and meta-processes from an actions database.

No. of Pages : 56 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217004774 A

(19) INDIA

(22) Date of filing of Application :28/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : STICKERING METHOD AND SYSTEM FOR LINKING CONTEXTUAL TEXT ELEMENTS TO ACTIONS

(57) Abstract :

A stickering system and method of managing electronic texts and related actions for real-time reinforcement learning based on machine learning, including: determining a contextual element in at least a part of an electronic text; linking a set of stickers with the contextual element and an action to define a relationship; and configuring a knowledge structure, in which the knowledge structure is re-configurable by storing the relationship in a stickers database.

No. of Pages : 39 No. of Claims : 10

(54) Title of the invention : AN APPARATUS FOR A BOARD GAME.

(51) International classification :A63F0003000000, H05K0003120000, A63F0001040000, A63F0009240000, H05K0003340000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

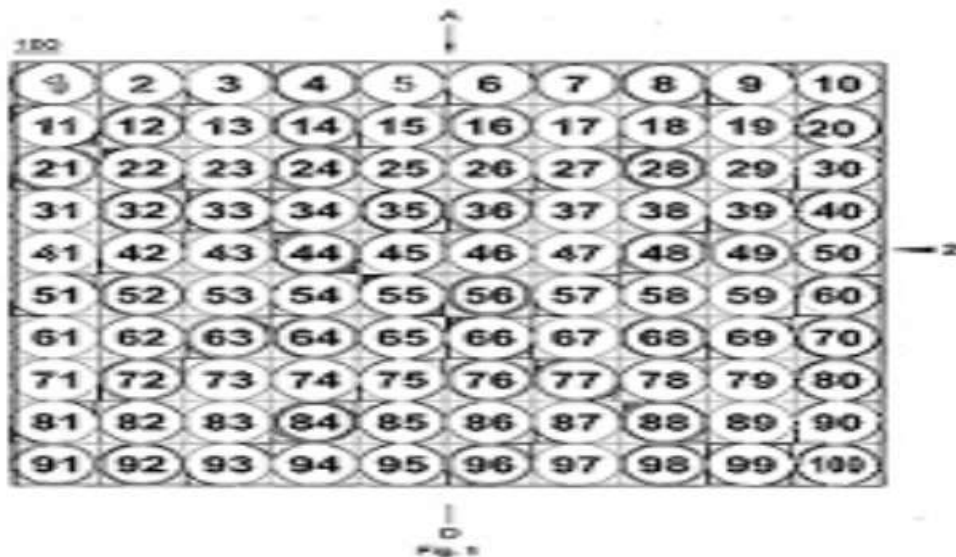
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(57) Abstract :

The present invention describes a board game includes a square playing board. In addition, the board game includes a first set and a second set of game coins. The square playing board includes a playing surface and two opposite playing sides (A, D). In addition, the two opposite playing side comprising attacking side (A) and defending side (D). The first set of game coins (f) are marked with an indicia such as I, II, III, IV, V, VII, and XI. The second set of game coins (s) consist of indicia Hash (#). The playing side (A) is allotted with the first set of game coins (f) and the playing side (D) is allotted with the second set of game coins (s). The board game is a mathematical form of entertainment including game concepts, which comprise game coins and a set of rules for determining game coin movements across a game board. (FIG.1)



No. of Pages : 48 No. of Claims : 11

(54) Title of the invention : A SMART EGG INCUBATION SYSTEM WITH GENDER IDENTIFICATION AND MACHINE LEARNING-BASED AUTOMATIC CONTROLLING.

(51) International classification :G06N002000000, G01N003308000, A01K006117000, A01K004104000, A01K004500000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 A smart egg incubation system with gender identification and machine learning-based automatic controlling. The inventions describe a Machine learning-based egg incubation system that works autonomously by maintaining the parameters inside the chamber including the temperature, humidity along with rotating the eggs in a systematic way to hatch the egg properly. It is designed to identifying and discarding the eggs that are not fertilized or are of unwanted gender. The artificial intelligence programmed into the system encourages to continuously track the vitals of the egg to reduce energy wastage in incubating the wrong type of egg and by automatically discarding the egg once identified as unfertilized or if the fetus is not developing properly. The system enables the extraction of non-fertile eggs, without the risk of removing a fertile egg. The system is powered using hybrid energy source and is equipped with perovskite sheets to generate solar energy along with external power source. The system can be monitored and controlled using IoT based network.

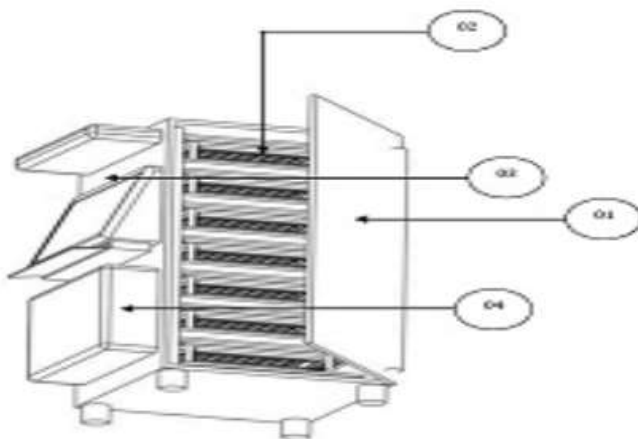


Figure – 1 : Schematic Diagram of the Automatic Controlled Egg Incubation System.

No. of Pages : 29 No. of Claims : 8

(54) Title of the invention : A HEAT RECOVERY SYSTEM FOR USE WITH AN IC ENGINE

(51) International classification :F24F0012000000, F02G0005020000, F01N0005020000, F01K0023060000, F28D0021000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 A Heat Recovery System for use with an IC Engine A heat recovery system for use with an IC engine comprises a hollow pipe (1) passing through a heat recovery cabinet (2) provided to recover heat from exhaust of the IC engine. Multiple heat exchanging plates (3) secured between the inner surface of the heat recovery cabinet (2) and an outer surface of the hollow pipe (1) is provided to restrict passage of environmental air in the heat recovery cabinet (2). An inlet (4) and an outlet (5) is provided at opposite ends of the heat recovery cabinet (2) so as to allow entry of environmental air inside the heat recovery cabinet (2) to facilitate maximum heat recovery from the engine exhaust passing through the hollow pipe (1). [fig.1]

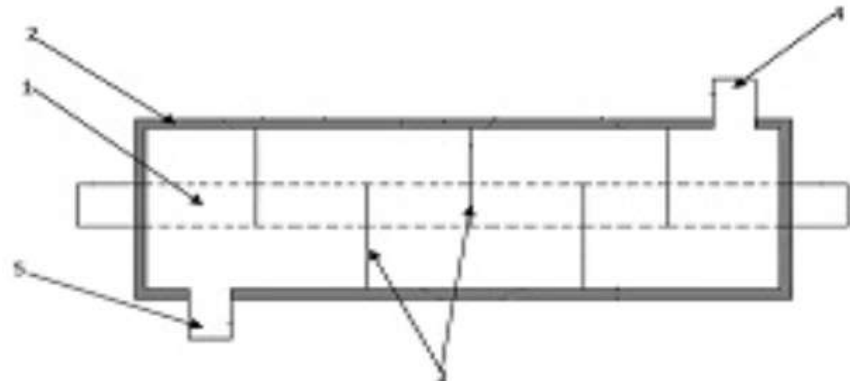


Fig.1 (A)

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121046056 A

(19) INDIA

(22) Date of filing of Application :09/10/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : NOVEL ANTI-INFLAMMATORY SCHIFF BASE AND METHOD FOR SYNTHESIS OF THE SAME

(51) International classification :C08G0064340000, C07C0249020000, C07C0251160000, C07D0213660000, C07C0251240000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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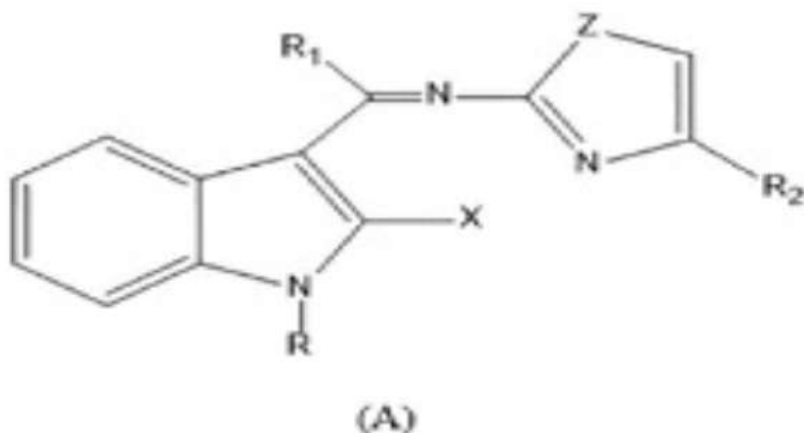
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(57) Abstract :

The present invention provides novel Schiff base. Furthermore, it provides a method for synthesis of the Schiff base. The synthesised Schiff base shows anti-inflammatory activity. The Schiff base is represented by formula (A):



No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : 5G-ENABLED INDUSTRIAL AUTOMATION BASED ON IOT AND BLOCKCHAIN TECHNOLOGY

<p>(51) International classification :H04L0029080000, H04L0029060000, H04L0009320000, H04L0009060000, G06Q0010060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. VIJAYKUMAR BHIKHUDAN GADHAVI Address of Applicant :Shree Swaminarayan Institute of Technology College Address with State and Pincode:Near EDI & Sardar Patel Ring Road Circle Gandhinagar to Ahmedabad Airport, Highway, Bhat, Gandhinagar, Gujarat 382428, India -----</p> <p>2)Dr. SUBBULAKSHMI T</p> <p>3)Dr. POONGODI M</p> <p>4)Dr. HITESH VANDRA</p> <p>5)Dr. PRATHUSHA PERUGU</p> <p>6)Mr. ANJANEYA KRISHNA TURAI</p> <p>7)Mr. VARUN NARAYANANA IYER</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. VIJAYKUMAR BHIKHUDAN GADHAVI Address of Applicant :Shree Swaminarayan Institute of Technology College Address with State and Pincode:Near EDI & Sardar Patel Ring Road Circle Gandhinagar to Ahmedabad Airport, Highway, Bhat, Gandhinagar, Gujarat 382428, India -----</p> <p>2)Dr. SUBBULAKSHMI T Address of Applicant :Professor, School of Computer Science and Engineering, VIT Chennai, India -----</p> <p>3)Dr. POONGODI M Address of Applicant :Research Scientist, College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation Doha, QATAR. -----</p> <p>4)Dr. HITESH VANDRA Address of Applicant :Shree Swaminarayan Institute of Technology College Address with State and Pincode:Near EDI & Sardar Patel Ring Road Circle Gandhinagar to Ahmedabad Airport, Highway, Bhat, Gandhinagar, Gujarat 382428, India -----</p> <p>5)Dr. PRATHUSHA PERUGU Address of Applicant :Professor, Gates Institute of technology, Dept of AI &ML, Ananthapur district, Andrapradesh, India -----</p> <p>6)Mr. ANJANEYA KRISHNA TURAI Address of Applicant :Symbiosis Skills and Professional University, Mumbai - Pune Expy, Kiwale, Pimpri-Chinchwad, Maharashtra 412101, India -----</p> <p>7)Mr. VARUN NARAYANANA IYER Address of Applicant :Symbiosis Skills and Professional University, Mumbai - Pune Expy, Kiwale, Pimpri-Chinchwad, Maharashtra 412101, India -----</p>
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(57) Abstract :
ABSTRACT 5G-ENABLED INDUSTRIAL AUTOMATION BASED ON IOT AND BLOCKCHAIN TECHNOLOGY The present disclosure relates to a 5G enabled industrial automation system based on Internet of Things (IoT) and blockchain technology. This system comprises of a IIoT resource network, a Blockchain network, a management hub, Key servers, Smart contract system interfaces and Clients linked by 5G communications infrastructure which enables real time decision making and automation of industrial networks with secure and verifiable peer-to-peer communications. The system architecture comprises of 4 interconnecting layers where each individual layer is supposed to carry some specific areas of operation. These consist of the Physical Layer, consisting of actual sensor linked devices, the Communication layer consisting of the 5G communication systems to exchange real-time information among different systems through the blockchain network, the Database Layer which contains the private blockchain ledgers to ensure security, performance, and scalability, especially for real-time systems and the Interface Layer which consists of various smart industrial applications accessible to the clients to work together to make an effective decision such as enabling automation. (FIG. 1 will be the reference figure)

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : AN INNOVATIVE BIODIESEL FILTER TO MEASURE THE MOISTURE AND DENSITY OF FUEL.

(51) International classification :G01N0033280000, G01N0021357700, C10L0001020000, G01N0022040000, B60K0015030000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

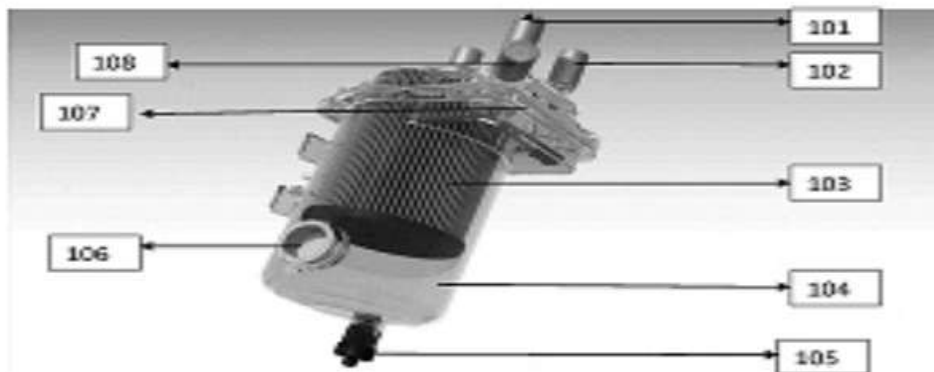
(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 An Innovative Biodiesel filter to measure the Moisture and Density of Fuel. This patent describes a technique for employing mid-infrared radiation to measure the concentration of biodiesel in a homogenous biodiesel-diesel oil combination. The approach is distinguished by the use of mid-infrared absorption measurements in the region of 1870 to 1600 cm-1 (5347.6 to 6250.0 nm), which corresponds to the carbonyl group absorption peak (C=O) found exclusively in biodiesel. The carbonyl absorption peak's strength and area show a power law relationship with the biodiesel percentile in the biodiesel-diesel oil combination. The current invention is equipped the state-of-the-art Moisture Measurement Sensor and Density Calibration Sensor. As we know water accumulation and microbial growth in fuel tanks and transportation equipment are due to high water content in biodiesel and diesel. Biodiesel absorbed 6.5 times more Moisture than diesel at constant relative humidity levels, according to the findings. With the implementation of this invention the continuous monitoring of Moisture and density of fuel will be done, if said threshold value of Moisture and Density is exceeded by fuel against the predefined calibrated value the Emergency light with symbol will be alert in the Vehicle Dashboard suggesting driver/operator about quality of fuel.

PATENT DIAGRAMS



No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : SKIN CANCER DETECTION SYSTEM USING TAYLOR-WCA DRN: TAYLOR-WATER CYCLE ALGORITHM AND DEEP RESIDUAL NETWORK.

(51) International classification :A61B0005000000, G06T0007000000, G06K0009620000, C12Q0001688600, G06T0007136000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

In individuals, risk factors of skin cancer disease can be reduced by detecting it timely or before time in an early stage. Generally, a significant reduction in the mortality rate can be achieved by detecting skin cancer in its early stages. Therefore, the identification and classification of this disease in its initial stages are significant. The Asymmetry, Border, Colour, and Diameter (ABCD) rule is usually used by the physicians to identify nevus and melanoma.. A powerful way to achieve skin cancer detection via computer vision is to use dermoscopy images, and form the task as a binary image classification problem, i.e., benign and malignant classes of images. The Taylor-Water cycle algorithm and Deep Residual Network algorithm helps us to develop the skin cancer detection system which is computational cost efficient and has enhanced accuracy.



Fig. 1: Block diagram of skin cancer detection using the proposed TWCO-based Deep Residual Network

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : DESIGN OF A CHATBOT FOR PSYCHIATRIC CONSULTATION USING SENTIMENTAL ANALYSIS

(51) International classification :H04L0012580000, G06N0020000000, G16H0080000000, G06F0016332000, H04N0021845000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :

Chatbots are most widely used in many industries with different applications such as voice assistant to guide people, conversational assistant etc. The said system implants the Chatbot application for Clinical Industry. The conventional method of Patient checkup includes the collection of data from Patient and based on that data provide the cause/diagnosis. The said system creates an alternative to this conventional method of visiting a clinic and making an appointment with a doctor to get diagnosis. The said system applies the concepts of natural language processing and machine learning to create a chatbot application. People can interact with the chatbot just like they do with another human and through a series of queries, chatbot will identify the symptoms of the user and thereby, predicts the stress level and recommends treatment. The Chatbot will take the voice/text input and from the input provided, the bot will do the sentiment analysis. It will provide the output stating whether the sentence is positive or negative, thus giving the sentiments of the input sentence. The processing is done using the NLP algorithm, Sentiment Analysis Algorithms. ration decreases, hence friction in gears is decreased. And therefore it will lead to the long life of the engine.

COMPLETE SPECIFICATION

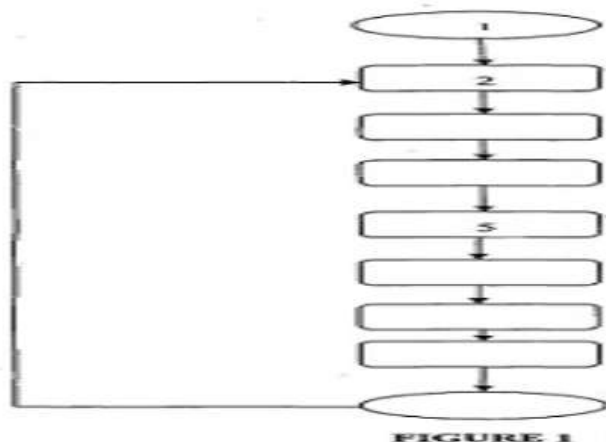


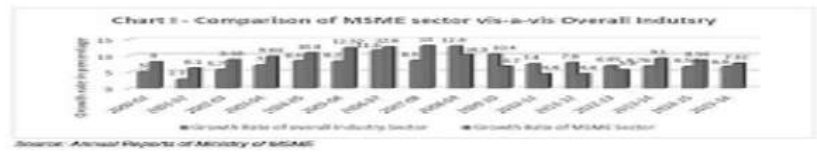
FIGURE 1

(54) Title of the invention : IMPACT OF FINANCIAL PERFORMANCE EVALUATION OF SMES IN INDIA

(51) International classification :G06Q0040000000, G06Q0040060000, G06Q0030020000, G06Q0010060000, G06Q0040020000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :
 Impact of financial performance evaluation of SMEs in India. Abstract: When we talk about small scale industries, we usually mean micro-scale entrepreneurs who produce, manufacture, or provide services on a small scale. SSIs are also known as small and medium-sized businesses (SMBs) (SME). Small businesses in India have been critical to the country's economic and social development in the decades since independence. A developing economy's economic structure is built on the strength of small-scale industries with an effective, efficient, adaptable, and innovative entrepreneurial spirit. Economic progress and equal development have long been recognised as two of the primary goals of SSI units. Small and medium-sized enterprises (SSIs) have made significant contributions to the Indian economy, particularly in terms of job creation, regional imbalance reduction, inter-sectoral linkage development, export expansion, and promotion of equitable economic growth potential. This industry contributes approximately 8% of the country's GDP, employing over 80 million people and producing over 6000 products ranging from traditional to high-tech, as well as over 36 million units distributed throughout the country. It also accounts for 45% of the country's manufactured output and 40% of its exports. The SSI sector has the potential to play a significant role in advancing the country's overall growth as the country's industrial expansion expands. SSI units are required to meet the projected National Manufacturing Policy targets, as well as growing India's economy from its current \$2 trillion level to a \$20 trillion level. The majority of SSI units aren't concerned about their financial situation; instead, they're preoccupied with running their businesses, closely monitoring cash receipts and bank account balances as indicators of success. Accounting and financial evaluation have long been regarded as stepping stones to a successful business career because they serve as the company's language and essential instrument, as well as determining how efficiently a company operates. Accurate financial records, which serve as the foundation for protecting and regulating the company's assets and liabilities, can assist small businesses in forecasting their growth. We discovered that their use of accounting techniques, as well as the consequences of these practises on their business operations in the area, is influenced by a variety of perceived circumstances. A lack of proper training, as well as intentional misconduct or negligence, is examples of this type of problem. This article discusses the findings of a study of SSIs' financial performance evaluation practises.



(54) Title of the invention : POLYGONAL RIB STRUCTURE FOR HEAT TRANSFER ENHANCEMENT

(51) International classification :H01L0023373000, F28F0003120000, B32B0003260000, H05K0007200000, F28F0021040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A polygonal rib structure for heat transfer enhancement comprises base plate with polygonal ribs and structural section. A polygonal rib structure for heat transfer enhancement comprises first element i.e. polygonal ribs engaged to base plate and a second element i.e. structural section. The second element is coupled with the first element to define a structure for heat transfer enhancement. The heat transfer enhancement structure further comprises at least one base plate engagable with structural section, wherein, in an engaged configuration, the base plate and the structural elements define an enclosure to accommodate at least one rib. A passageway is configured operatively between the base plates and structural section is adapted to allow a passage of a conduit there through.

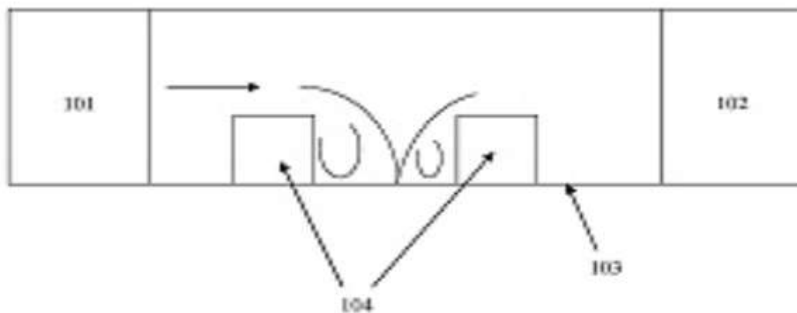


Fig. 1
(Prior Art)

(54) Title of the invention : HERBAL DRUG DELIVERY SYSTEM OF BOSWELLIC ACID

(51) International classification :A61K0009000000, A61K0038000000, A61K0031190000, A61K0031416400, C07D0413120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention provides herbal drug delivery system of Boswellic acid and its derivatives administered through oropharyngeal or nasal route with enhanced absorption and quick onset of action for the treatment and management of inflammation in a mammal. The drug delivery system is directed for systemic or local delivery of Boswellic acid. The herbal drug delivery system of Boswellic acid is effective in a number of inflammatory disorders such as inflammatory joint disease, Pulmonary inflammation, respiratory tract infection, chronic obstructive pulmonary disease, asthma, lung cancer, emphysema, acute respiratory distress syndrome, bronchitis, hyper inflammatory response due to SARS-CoV-2 causing coronavirus disease 2019 and the like.

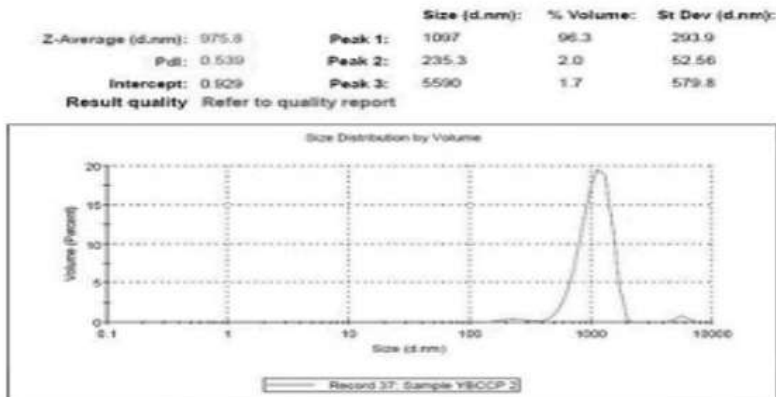


Figure 1: The particle size analysis of Boswellic acid.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121058249 A

(19) INDIA

(22) Date of filing of Application :14/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : STUDENT PERFORMANCE PREDICTION USING MACHINE LEARNING

(51) International classification :G06N0020000000, G06Q0050000000, H04L0012240000, G09B0019000000, G06N0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Student Performance prediction using Machine learning Abstract: Finally, the goal of any educational institution is to provide students with the best educational experience and knowledge possible. To achieve our goal, we must identify which students require additional assistance and take the necessary steps to assist them in improving their performance. Four machine learning techniques were combined in this study to create a classifier that can predict how well students will perform. Machine learning techniques include ANN, Naïve- Bayes, trees, and Regression. This research looks at how students use the internet to learn and how much time they spend on social media networks. The students' use of the internet for school and their time on social networks was one way to demonstrate these effects. The ROC index and model accuracy were used to evaluate them. There have also been other metrics examined. To name a few, classification error, precision, recall, and the F measure have all been investigated. Other data sources, such as student grade books, aid in the development of the models. A survey is also employed. Model: The ANN had the highest performance, 0.807, and the highest accuracy, 78 percent. Furthermore, the decision tree model discovered that five factors influence how well students perform.



No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : RATIO ANALYSIS OF BANKING SECTOR

(51) International classification :G06Q0040000000, G06Q0040060000, G06Q0040020000, G06Q0040040000, G06Q0099000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

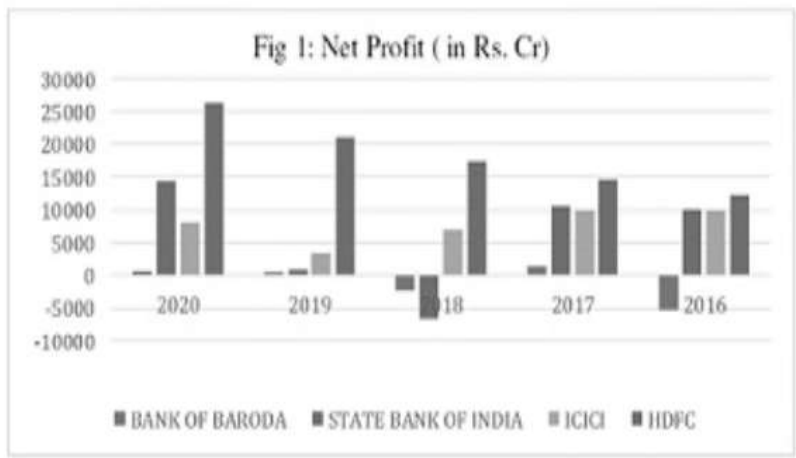
(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Ratio analysis of Banking Sector Abstract: A strong banking sector is required for a country's economy to grow. India has a massive banking system with a wide range of services and branches. This study focuses on India's two largest private and public banks. The net profit, assets, liabilities, income, expenses, margin ratio, return on equity ratio, and margin ratio were all used to assess the financial performance of the banks examined. In a study of financial data from 2015 to 2019, private banks outperformed public ones. This study will benefit customers, shareholders, and the people who run the bank.



No. of Pages : 11 No. of Claims : 8

(54) Title of the invention : MULTI MODEL DEVICES FOR LOGISTICS AND SUPPLY CHAIN MANAGEMENT

(51) International classification :G06Q0010080000, G06Q0010060000, G06Q0010000000, G06K0017000000, G06Q0050220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT MULTI MODEL DEVICES FOR LOGISTICS AND SUPPLY CHAIN MANAGEMENT An multi model devices for logistics and supply chain management apparatus for efficient tracking and tracing of material flows including effective handling processes is an significant approach to improving cost-efficiency throughout the supply chain, but it has also safety and security aspects. Both safety and security issues are increasingly important in the global business environment and in world trade. A logistics centre accounts for the final packaging, labelling, mass-customization and customer configuration of the ordered commodities prior subjecting them to the supply chain. RFID or UHF RFID is an AutoID technology that is tagged for tracking and tracing commodities throughout supply chains as the RFID tags enable item, pallet or container level tracking. AutoID services is either areal specific services or company-specific services. The multi-model devices employing AutoID promote multimodal supply chains by making them a more effective, secure and more appealing with transportation arrangement. (Figure 1 is the reference figure)

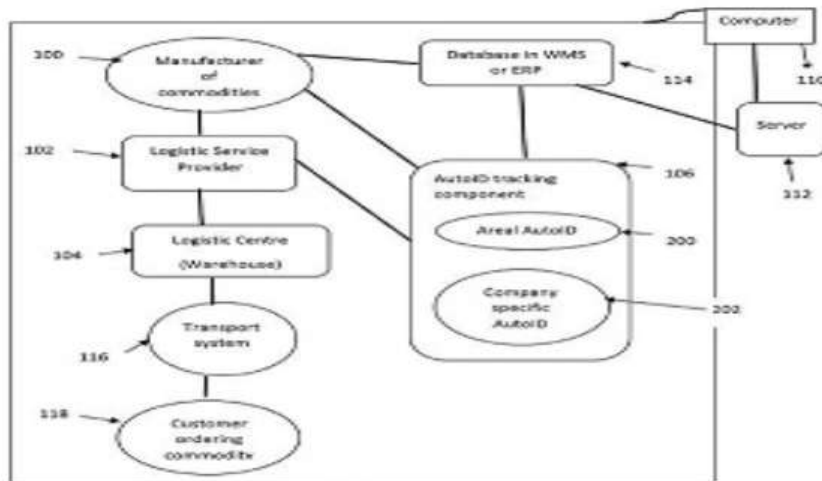


FIG. 1

(54) Title of the invention : SYSTEM AND METHOD FOR IMAGE PROCESSING BASED GMI(GRADED MOTOR IMAGERY).

<p>(51) International classification :A61N0002000000, A61B0005110000, A61M0021000000, A61H0001000000, A61N0001360000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Rachna Krishnaji Somkunwar Address of Applicant :Department of Computer Engineering, Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri -----</p> <p>2)Mr. Anilkumar Gupta</p> <p>3)Dr. Chaya Ravi Jadhav</p> <p>4)Mr. Roshan R. Kolte</p> <p>5)Prof. Ritu Saheb Dudhmal</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Rachna Krishnaji Somkunwar Address of Applicant :Department of Computer Engineering, Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri - -----</p> <p>2)Mr. Anilkumar Gupta Address of Applicant :CDAC Pune -----</p> <p>3)Dr. Chaya Ravi Jadhav Address of Applicant :Associate Professor, Department of Computer Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune-411018 -----</p> <p>4)Mr. Roshan R. Kolte Address of Applicant :Assistant Professor, Department of Information Technology, KDK College of Engineering, Nagpur -- -----</p> <p>5)Prof. Ritu Saheb Dudhmal Address of Applicant :Assistant Professor, Computer Department, AISSMS-COE, Pune -----</p>
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(57) Abstract :

This approach was first introduced by Ramachandran and coworkers for arm amputees, where the mirror image of the intact arm was used to simulate its amputated counterpart. By this procedure, illusory perceptions were induced and phantom Neuro rehabilitation and Neural Repair concept of MT has been further substantiated neuro physiologically. An imaging experiment demonstrated that inversion of the visual image of a hand can elicit lateralized cortical activations. In other words, when a right hand is used, but perceived as a left hand, this leads to an additional activation of the right hemisphere (and vice versa). As recovery pain in the virtual limb was often relieved. MT was also postulated to alleviate chronic hemiparesis after stroke. In their pilot study in 9 chronic stroke patients, Altschuler and colleagues reported effects of this treatment on patients' movement ability in terms of range of motion, speed, and accuracy, especially for patients with severe hemiparesis. Unfortunately, the effects of the therapy were not described in detail, which makes it difficult to understand the specific improvements achieved. Subsequently, mainly small scale case studies have been published, employing MT in combination with various other therapy approaches in a randomized controlled study on chronic stroke patients, Rothgangel and coworkers reported functional improvement during MT, but the 2 therapy groups differed at baseline. Recently, the benefit of MT for the recovery of lower limb movements in sub acute and chronic stroke patients was demonstrated in a high-quality randomized controlled trial design.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : AN IOT BASED HEALTH MONITORING SYSTEM FOR CHRONIC DISEASES

(51) International classification :A61B0005000000, G16H0050300000, G06Q0050220000, G16H0050200000, A61B0005020500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AN IOT BASED HEALTH MONITORING SYSTEM FOR CHRONIC DISEASES The present invention relates an IOT based health monitoring system for chronic diseases. The object of the proposed invention is use to analyze and diagnosis of chronic disease to assist professionals and predict early warning score (EWS).Proposed system provides clinical services to patients over long distance communication. The health information of patients can be receiving by doctors, nurses and family members on a personal computer, laptop, tablet, smart phones. It helps doctors to evaluate and treat patients without an in-person visit. In this proposed system the communication is done by Wi-Fi enabled transmitter circuit embedded with a BC547 transistor as a switch.

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : A TARGET DESIGNATION AND ACQUISITION SYSTEM

(51) International classification :F41G0003060000, F41G0007220000, H04L0012733000, G01S0019450000, F41G0003140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT A TARGET DESIGNATION AND ACQUISITION SYSTEM The present invention relates a target designation and acquisition system. The objective of the proposed invention is to determine range and location of the known target. Present invention incorporates pair of devices working synchronously to determine elevation; GPS coordinates namely Latitude and Longitude of the marked target. This process is known as target designation and here it is achieved with the method of triangulation but for a curved surface of larger sphere i.e., Earth. Devices individually pick up sensor data relating to bearing angle, latitude and longitude, elevation etc. upon which calculations are performing to get the location of the target. The mathematical function used to calculate the output is more sensitive to the input GPS coordinates comparing to the bearing angle. Present system is laser independent and has virtually infinite range, also it is compact that can be directly mounted on rifle or strapped around the wrist, with a display. Following invention is described in detail with the help of Figure 1 of sheet 1 illustrates proposed invention.

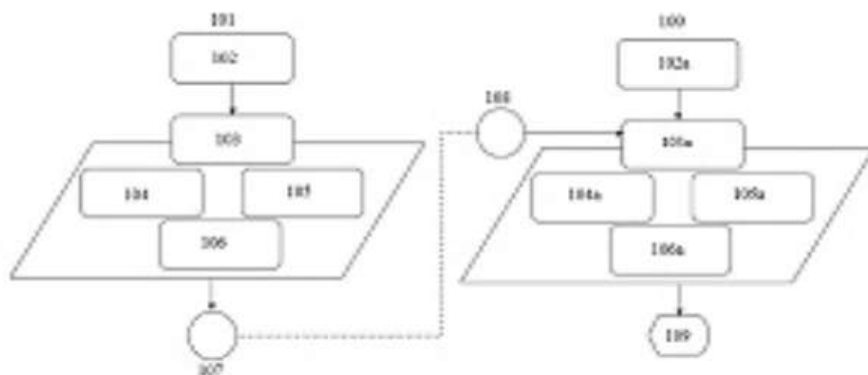


Figure 1

(54) Title of the invention : AN AUTOMATED COVID-19 PREVENTION SYSTEM

(51) International classification :G06N0003040000, G06K0009620000, G06K0009000000, G06N0003080000, G06K0009660000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT AN AUTOMATED COVID-19 PREVENTION SYSTEM The present invention relates an automated covid-19 prevention system. The object of the proposed invention is todetect weather person wear a mask or not, temperature and provide sanitization using deep learning. Present system mainly focuses on three parts. First is mask detection, second is temperature check-up, and third is hand sanitization. These three processes are very important for the prevention of corona-virus. In the system deep learning and image processing concept is using. In the proposed invention the convolutional neural network is creating and building the model using the training dataset so that it will give the correct output for the testing dataset.Following invention is described in detail with the help of Figure 1 of sheet 1 illustrates proposedinvention.

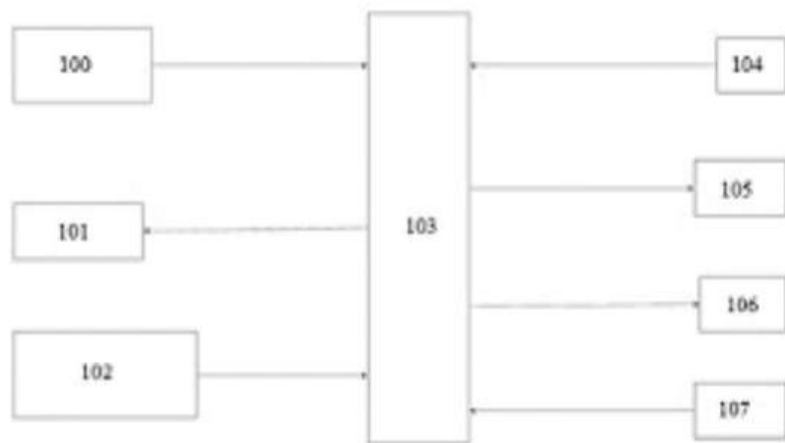


Figure 1

No. of Pages : 14 No. of Claims : 3

(54) Title of the invention : EMBEDDED BASED ADVANCED ASSISTANT DEVICE FOR PHYSICALLY CHALLENGED

(51) International classification :G06F0003160000, H04L0029060000, H04N0019610000, G06F0012140000, H04N0013161000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The goal is to develop a low-cost, scalable, and portable MEMS-based control system for the physically challenged that has outstanding accuracy and programmability. The research focuses on identifying finger motions by moving them in different directions. Cameras and computer vision have been used in a variety of ways to read sign language. Gesture recognition allows robots to begin to comprehend human body language, allowing humans and machines to communicate more effectively. Approximately 6 million individuals across the world are disabled owing to varying degrees of paralysis. The goal of the proposed study is to create a wireless system that allows handicapped individuals to manage numerous gadgets using simple finger motions. The system consists of a transmitter that is placed on the operator's hand and uses a MEMS accelerometer to detect and send displacement signals using transmitter modules. The receiver is easily placed and uses control signals to regulate its movements. Wireless Radio Frequency Module is used to broadcast and receive control signals wirelessly. The orientation along the x, y, and z axes is recognized in real time by the software, which then connects with the different components to function appropriately.

BLOCK DIAGRAM

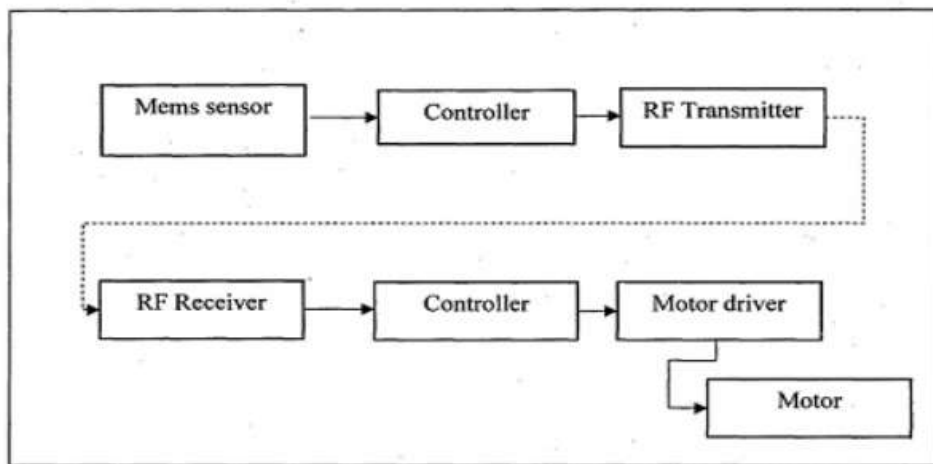


Figure (i) shows the Block Diagram

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121062100 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : HIGHEST CALORIFIC VALUE BIODIESEL FROM COCKLEBUR (XANTHIUM STRUMARIUM) SEED OIL.

<p>(51) International classification :A61K0036280000, A61K0008920000, A61K0036575000, C10L0001020000, C10L0005440000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof Dr. Jitendra Atmaram Hole Address of Applicant :JSPM's Rajashri Shahu college of engineering, Tathawade, Pune, Maharashtra, India ----- ----- 2)Mr. Sumod Kisan Pawar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof Dr. Jitendra Atmaram Hole Address of Applicant :JSPM's Rajashri Shahu college of engineering, Tathawade, Pune, Maharashtra, India ----- ----- 2)Mr. Sumod Kisan Pawar Address of Applicant :Rd's Shri Chhatrapati Shivajiraje college of engineering, Dhangawadi, Tal - Bor, Dist-Pune, Maharashtra, India -----</p>
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(57) Abstract :

The present invention discloses a method of extracting biodiesel produced from cocklebur (Xanthium Strumarium) seed oil. The fruits after collection are dehulled. Each fruit contains two seeds inside in a protective layer. The oil content of the seeds was measured with the help of soxhlet apparatus using petroleum ether (40-600 C) as a solvent. It was observed that the seeds contain 32.5% of oil by mass. The seeds are then subjected to oil extraction by mechanical press. The fatty acid composition of the oil was measured. For achieving optimum biodiesel yield, optimum Gross calorific value and optimum kinematic viscosity the conditions are methanol to oil ratio is equal to 0.5, heating temperature is equal to 700 C and heating time is equal to 60 minutes.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : A BRIQUETTE MAKING MACHINE

(51) International classification :C10L0005440000, C10L0005460000, C10L0005360000, B09B0003000000, B30B0011220000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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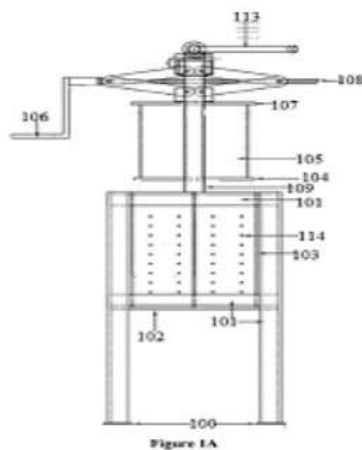
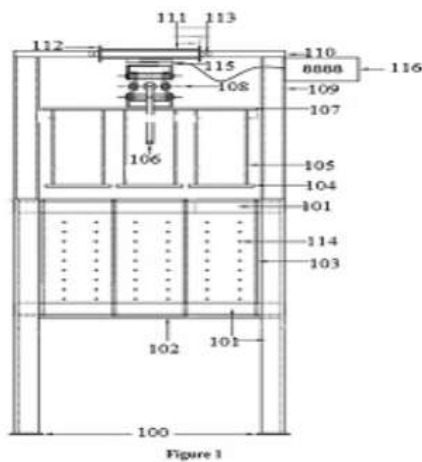
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(57) Abstract :

ABSTRACT A BRIQUETTE MAKING MACHINE The present invention relates a briquette making machine. The object of the proposed invention is to use for making briquettes from various refused material which can be used as an alternative fuel for firewood or coal. In the proposed invention utilization of the refused materials from the basic sources will reduce the load on the dumping ground and keep the environment clean. The briquettes (white coal) made from refused/waste materials has heating value or calorific value nearly equivalent to that of coal. Hence it can be used as an alternative fuel and reduce the pressure on the conventional fuel. Proposed machine can produce 6 briquettes at a time in 5-6 minutes or 1 briquette in 1 minute. These briquettes will be the fuel pellets commonly known as refuse derived fuel (RDF). Following invention is described in detail with the help of Figure 1 and 2 of sheet 1 and 2 illustrate proposed invention.



No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : A SYSTEM AND METHOD FOR UNUSUAL HUMAN ACTIVITY DETECTION IN CROWDED SCENES

(51) International classification :G06K0009000000, H04N0005760000, H04N0021422300, G06Q0050260000, H04N0007180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT A SYSTEM AND METHOD FOR UNUSUAL HUMAN ACTIVITY DETECTION IN CROWDED SCENES The present invention relates to a system and method for unusual human activity detection in crowded scenes. The proposed invention is use to detect suspicious or abnormal activities in videos to avoid future happening or to give alert whenever any type of mis happening occurs. Herein a video recording camera [216] and a digital video recorder [217] as video source module enabled for processing the capturing footage and encoding the receiving information in standard video format. a central processing unit [200] consisting of a processing unit [201] embedded with an adaptive configuration configured for processing arithmetical and logical operations.

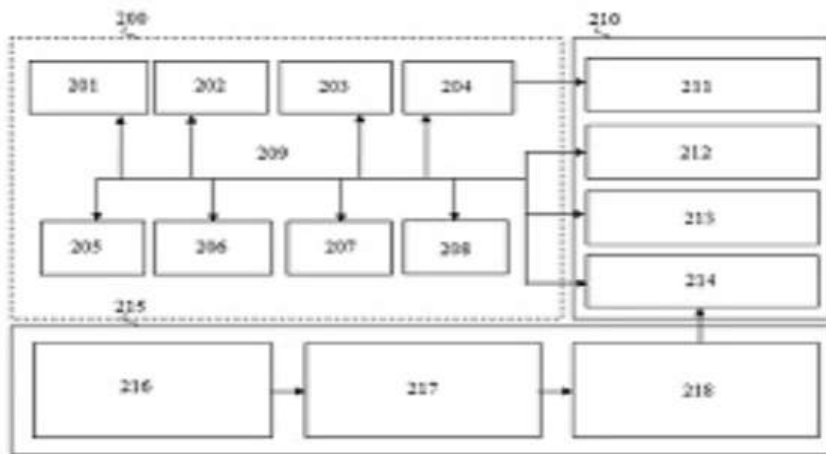


Figure 2

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : A COMPOSITION AND METHOD FOR MAKING HIGH-STRENGTH LIGHTWEIGHT SUSTAINABLE BRICKS FROM TEXTILE EFFLUENT TREATMENT PLANT SLUDGE

(51) International classification :C04B0028180000, C04B0033132000, C04B0028040000, C02F0011120000, C04B0111400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A COMPOSITION AND METHOD FOR MAKING HIGH-STRENGTH LIGHTWEIGHT SUSTAINABLE BRICKS FROM TEXTILE EFFLUENT TREATMENT PLANT SLUDGE The present invention relates a method for making high-strength lightweight sustainable bricks from textile effluent treatment plant sludge. The object of the proposed invention is to develop TETPS incorporated bricks having desired properties such as bricks being light in weight, having lesser density, having less thermal conductivity, and being durable. In the proposed invention to determine the suitability of TETPS for the development of bricks, the collecting TETPS sample is subjected to several tests, such as sieve analysis, specific gravity, density, water absorption, XRF, XRD, SEM, TG/DTA, etc. The developed bricks are evaluated for compressive strength, water absorption, efflorescence, and density. The durability and thermal properties of the developed bricks are also assessed. The invention suggests the feasibility of incorporating TETP sludge into the development of sustainable bricks. Sludge incorporated bricks are prepared with varying compositions of cement (6-24%), sludge (50-70%), and quarry dust (25%).



Figure 1

No. of Pages : 21 No. of Claims : 6

(54) Title of the invention : A MULTISTAGE BUCKET FOR FLOOR CLEANING

(51) International classification :A47L0013580000, A47L0011400000, B62B0003100000, E01H0001100000, G01F0001660000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT A MULTISTAGE BUCKET FOR FLOOR CLEANING The present invention relates a multistage bucket for floor cleaning. The object of the proposed invention is to use for treatment and recycle of liquid/water. The present invention assess the filter floor cleaning bucket having facility of treatment and recyclable gadget from a top position to where drain mop water is transferring into the filter medium, treating and transferring to recycle bucket by omit pump mechanism to clean water bucket. A membrane mechanism is providing in the filter bucket such that the flow fluid from top position of mop bucket is transferring to contaminated (dirty water collection) bucket with the gravity means, reaching to filter out bucket which by means of permitting air pressure in the treatment membrane with flowing fluid flow path and reaching to clean water bucket which is pumping to top position of drain mop bucket. Following invention is described in detail with the help of Figure 1 of sheet 1 illustrates proposed invention.

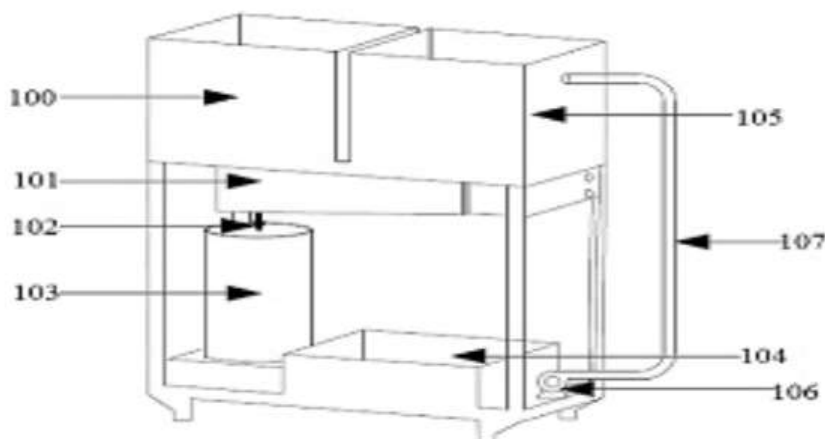


Figure 1

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : AN APPARATUS FOR DISPENSING HERBAL ENEMA MEDICINE

(51) International classification :B01F0013100000, B67D0001080000, B05B0001280000, B01F0007160000, B01F0007000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 ABSTRACT AN APPARATUS FOR DISPENSING HERBAL ENEMA MEDICINE The present invention relates to an apparatus for dispensing herbal enema medicine. The object of the proposed invention is to provide a flexible herbal medicine dispensing apparatus used in the treatment of enema. The dispenser includes a controller that is linked to a coordinator board. A coordinator board is linked to a first metering module. The first module include feeding subsystem each connected to an ingredient reservoir. The module is then linked in series to a processing module. Each module includes a module board for controlling the functioning of that module. The controller, coordinator board and module boards are all programmed for the simultaneous or sequential pumping of multiple fluids from the reservoirs through valves to the processing module. Following invention is described in detail with the help of Figure 1 of sheet 1 illustrates front plan view of the herbal medicine dispensing apparatus.

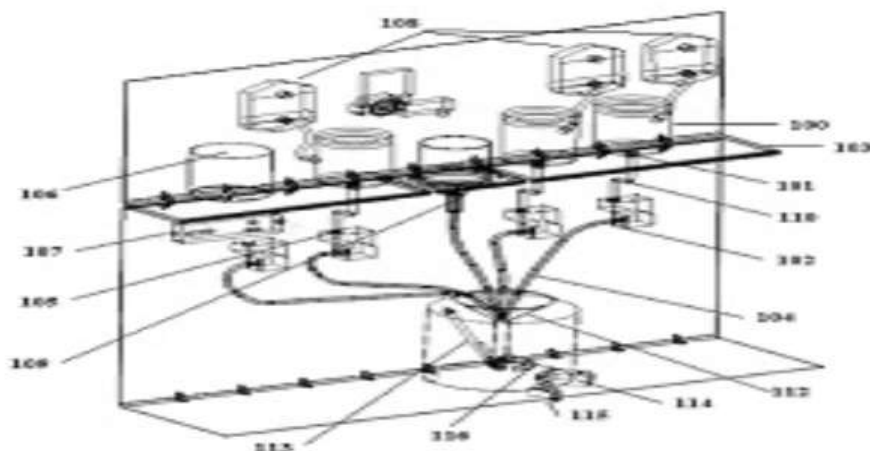


Figure 1

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : AN IMPROVED PROCESS OF PURIFICATION OF PROTEIN

(51) International classification	:C07K0014620000, C07K0001340000, C07K0001180000, C07K0001160000, C21D0009460000	(71)Name of Applicant : 1)KASHIV BIOSCIENCES, LLC Address of Applicant :20, New England Avenue Piscataway, New Jersey 08854 ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:202021018714	(72)Name of Inventor : 1)NARAYAN, Om Address of Applicant :802, Anvayaa, Makarba Road, Vejalpur, Ahmedabad, Gujarat Ahmedabad 380051 -----
(32) Priority Date	:01/05/2020	2)GUPTA, Tarun Kumar Address of Applicant :A2/43, Orchid Greenfield, Applewoods Township, S.P. Ring Road, Ahmedabad, Gujarat Ahmedabad 380058 -----
(33) Name of priority country	:-----	3)THAKKAR, Mayankkumar Address of Applicant :C501, Setu Vertica, B/H Vodaphone Tower, Gota, Ahmedabad, Gujarat Ahmedabad 382481 ----- -----
(86) International Application No	:PCT/IB2021/053658	
Filing Date	:01/05/2021	
(87) International Publication No	:WO 2021/220251	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides a process of purification of antibody or fusion protein from protein mixture comprising product and process related impurities. The process provides the use of hydroxyapatite chromatography for the separation of low molecular weight impurities and basic variants. In addition, invention further provides a scalable purification process to remove product and process related impurities.

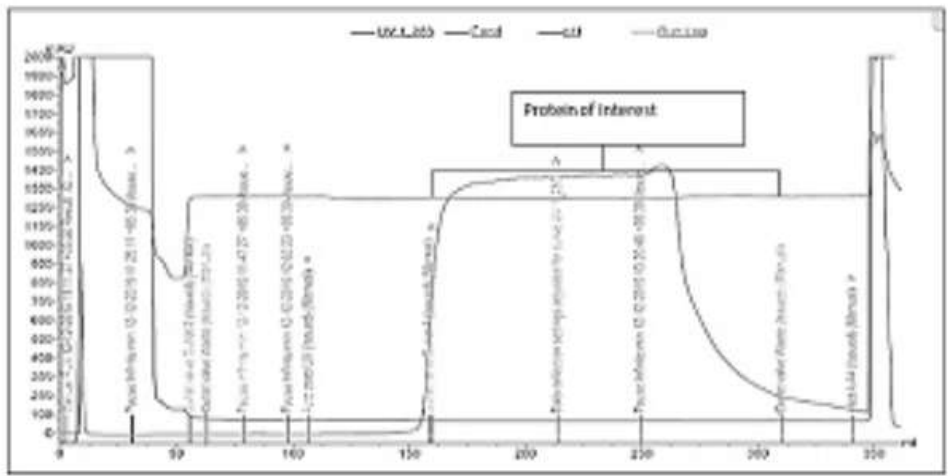


Figure 1- Process Chromatogram of AEX run

No. of Pages : 56 No. of Claims : 48

(54) Title of the invention : AN IMPROVED PROCESS OF PURIFICATION OF PROTEIN

(51) International classification	:C07K0016280000, B01D0015360000, C07K0014705000, C07K0014810000, C07K0014605000	(71)Name of Applicant : 1)KASHIV BIOSCIENCES, LLC Address of Applicant :20, New England Avenue Piscataway, New Jersey 08854 ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:202021018737	(72)Name of Inventor : 1)NARAYAN, Om Address of Applicant :802, Anvayaa, Makarba Road, Vejalpur, Ahmedabad, Gujarat Ahmedabad 380051 -----
(32) Priority Date	:01/05/2020	2)GUPTA, Tarun Kumar Address of Applicant :A2/43, Orchid Greenfield Applewoods Township, S.P. Ring Road, Ahmedabad, Gujarat Ahmedabad 380058 -----
(33) Name of priority country	:-----	3)THAKKAR, Mayankkumar Address of Applicant :C501, Setu Vertica, B/H Vodaphone Tower, Gota, Ahmedabad, Gujarat Ahmedabad 382481 ----- -----
(86) International Application No	:PCT/IB2021/053659	
Filing Date	:01/05/2021	
(87) International Publication No	:WO 2021/220252	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A process for purification of antibody or fusion protein through anion exchange chromatography to produce an antibody or fusion protein which is substantially free of at least one of the product-related impurities.

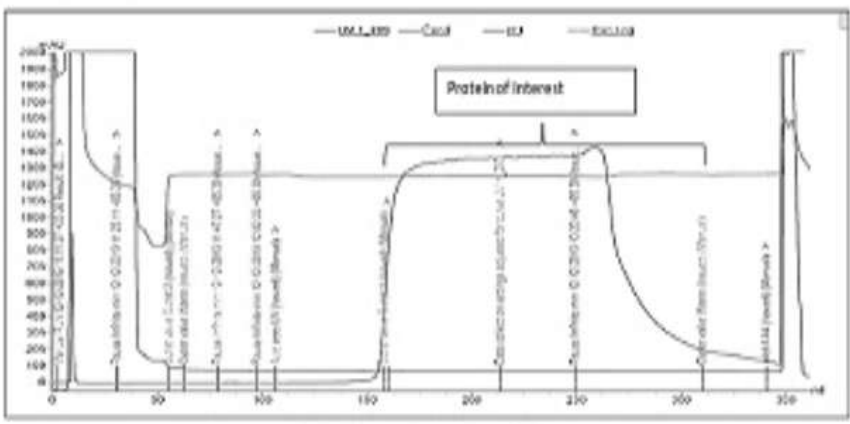


Figure 1- Process Chromatogram of AEX resins

No. of Pages : 27 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221000474 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : PROBIOTIC FISH SUPPLEMENT AND A METHOD OF PREPARATION OF THE SAME

(51) International classification :A23K0050800000, A23K0010180000, A23L0033135000, A23K0020158000, A23K0040300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

PROBIOTIC FISH SUPPLEMENT AND A METHOD OF PREPARATION OF THE SAME The present invention relates to a probiotic fish supplement composition and more particularly to a dietary probiotic fish feed with bacteria Lactobacillus spp which serves as an appropriate nutrient with enhanced growth in Channa marulius and method of preparation of the same.

No. of Pages : 30 No. of Claims : 6

(54) Title of the invention : PLC, IOT, CONTROLLER BASED SMART, EFFICIENT, FLEXIBLE STREET LIGHT WITH ADVANCE MANAGEMENT CONTROL SYSTEM

(51) International classification :F21S0008080000, F21W0131103000, H05B0047190000, H05B0047110000, H04L0029080000

(86) International Application No :NA
Filing Date :NA

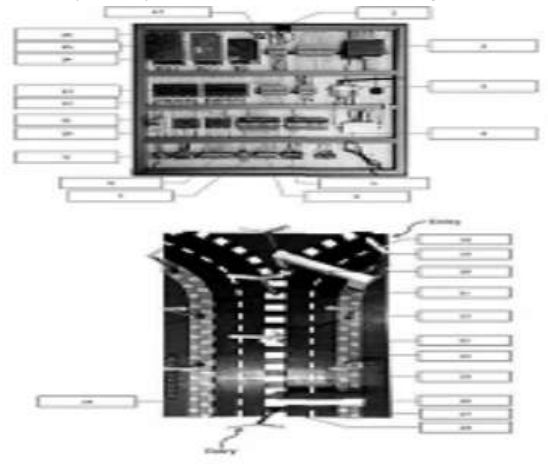
(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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3)Hitesh Bhingradiya
4)Patil Ganesh
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4)Shaikh Arbaz Makbul
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(57) Abstract :
 ABSTRACT PLC, IOT, Controller based smart, efficient, flexible street light with advance management control system The street light not only places an important role for lighting in domestic, Industrial, Residential and commercial application places but it also works as a great facility at highways, expressways and national highways and connected roads. The street light also provides information about rain, smoke, fire, weather report in nearby area. It also gives the information of the people gathered nearby street light area which is useful for covid and other monitoring purpose to the authority. The internet serves as a communication link between all connected devices. The present invention is advanced Programmable logic controller (6) is configured with IR (21;26), Ultrasonic (20;27), smart sensor (23), Light dependent Resistor (18;22), Camera sensor (28) interfacing with dedicated programmable logic controller (6), microcontroller and IOT (3;5) based device for obtaining variable illumination with energy efficiency, safety of driver, and disaster management control system.



No. of Pages : 32 No. of Claims : 7

(54) Title of the invention : AN APPARATUS FOR SHELLING A NUT

<p>(51) International classification :F16H0007060000, G01G0013020000, A23N0005000000, F24S0030000000, F24S0030455000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chirag Chhatrala Address of Applicant :B-702 AVANI SKY, NR HARIDARSHAN CROSS ROAD, OPP AVANI ICON, NAVA NARODA, AHMEDABAD - 382330,GUJARAT, INDIA -----</p> <p>2)Nikita Chhatrala Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Chirag Chhatrala Address of Applicant :B-702 AVANI SKY, NR HARIDARSHAN CROSS ROAD, OPP AVANI ICON, NAVA NARODA, AHMEDABAD - 382330,GUJARAT, INDIA -----</p> <p>2)Nikita Chhatrala Address of Applicant :B-702 AVANI SKY, NR HARIDARSHAN CROSS ROAD, OPP AVANI ICON, NAVA NARODA, AHMEDABAD - 382330,GUJARAT,INDIA -----</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(57) Abstract :

Disclosed is an apparatus for shelling a nut. The apparatus comprises a primary hopper (102), a first set of chain drive (302(a), 302(b), 302(c), 302(d)) comprising a plurality of hooks (304 (a), 304 (b), 304 (c), 304(d)), wherein each hook is driven through the primary hopper (102). Further, the apparatus comprises a plurality of secondary hoppers (402(a), 402(b), 402(c), 402(d)) positioned in line to the first set of chain drive (302(a), 302(b), 302(c), 302(d)). Further, the apparatus comprises a second set of chain drive (404(a), 404(b)) positioned between the plurality of secondary hoppers (402(a), 402(b), 402(c), 402(d)), wherein the second set of chain drive (404(a), 404(b)) comprises a plurality of pushing bars (406(a) and 406(b) respectively, wherein the pushing bar is driven through the plurality of secondary hoppers (402(a), 402(b), 402(c), 402(d)) and a blade (510) positioned at a downward distal end of the secondary hopper (402(a), 402(b), 402(c), 402(d)).

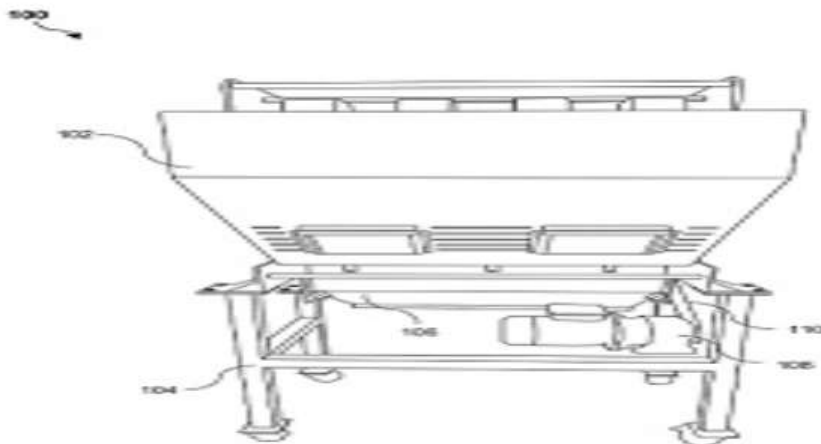


FIG.1

No. of Pages : 24 No. of Claims : 13

(54) Title of the invention : NOVEL SODIUM CHANNEL INHIBITOR COMPOUNDS FOR TREATING NEUROPATHIC PAIN AND PROCESS FOR SYNTHESIS THEREOF

(51) International classification :C07D0235080000, C07C0233050000, C07H0015260000, C07F0009380000, A61P0031040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

NOVEL SODIUM CHANNEL INHIBITOR COMPOUNDS FOR TREATING NEUROPATHIC PAIN AND PROCESS FOR SYNTHESIS THEREOF The present invention provides a novel sodium channel inhibitor compound of formula I and process for synthesis thereof. Said compound of formula I is useful in the treatment of neuropathic pain. The compound of formula I is represented by: Wherein R in the formula I is selected from hydrogen (H), -C₆H₅, -CH₂-COOH, 2-C₆H₅-Cl, 4-C₆H₅-COOH, -CH₃, -CH₂-CH₃, -CO-CH₃, -CH-(CH₃)₂, -CH-(CH₃)(C₂H₅).

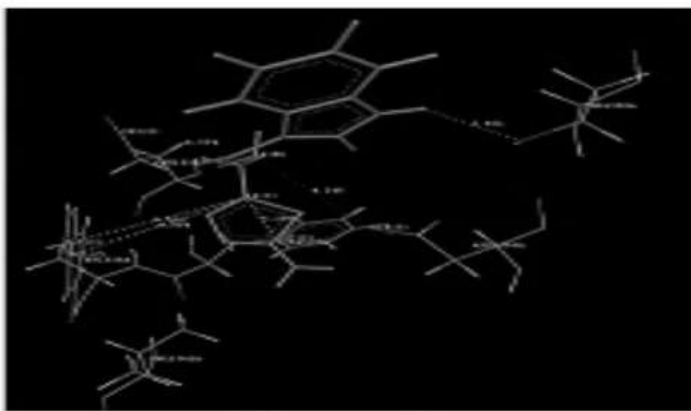


Figure 1

No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : A ROBOT: BUNCH OF SENSORS DETECTING PROBLEMS

(51) International classification :B25J0009160000, G05D0001020000, H04W0074080000, G01S0015931000, E05F0005120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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3)Baber Latif Mir

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(57) Abstract :

A complete system is designed to avoid collisions. The application of robotics is enhanced and growing with the advancement of technology. This system is Arduino based robot with Ultrasonic sensor, which avoids collision with unexpected and unwanted obstacle.



Figure 1

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : SPATIAL DECISION MAKING SYSTEM FOR OPERATIONALIZATION OF CONSTITUENCY MANAGEMENT AND METHOD THEREOF

(51) International classification :G06Q0010060000, A61B0005021000, G06Q0010040000, G06F0016220000, G06Q0050260000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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1)Dr.Giresan K
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(57) Abstract :
 ABSTRACT: Title: Spatial Decision Making System for Operationalization of Constituency Management and Method Thereof The present disclosure proposes a system to support the political leadership in decision making. It has the provisions to connect the political leadership with the citizens of the constituency. The operationalization of constituency management system 100 comprises an input module 102, a centralized information storing and processing module 104, a real time processing module 106, a decision making module 108, and an output module 110. The decision making is made with the help of constituency management system by blending political expediency, economic rationality, scientific inputs and spatial parameters. It empowers the elected representative in many ways. In addition, it also ensures active participation and contributions of citizens in governance and development. As the decision on various routine and constituency related issues taken with the help of ICT-supported system, the elected representative would be able to focus more on her/his primary legislative functions.

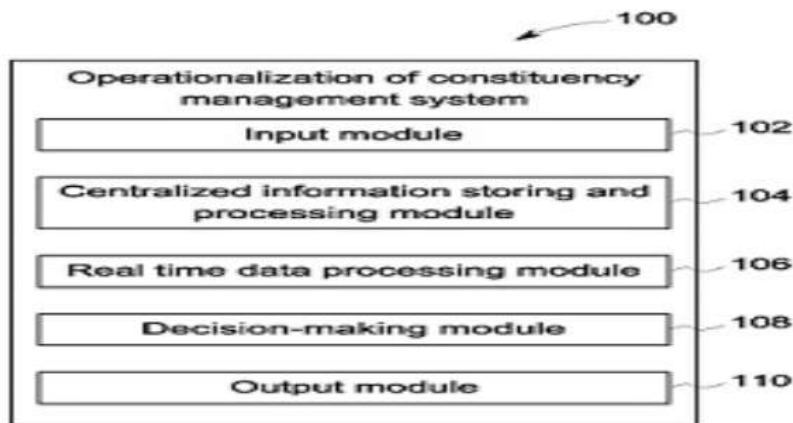


FIG. 1

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221001624 A

(19) INDIA

(22) Date of filing of Application :12/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : DESIGN AND DEVELOPMENT OF SOLAR OPERATED MECHANICAL SEGWAY

(51) International classification :B62K0011000000, B62K0003000000, A63C0017120000, B60L0050520000, B62D0051020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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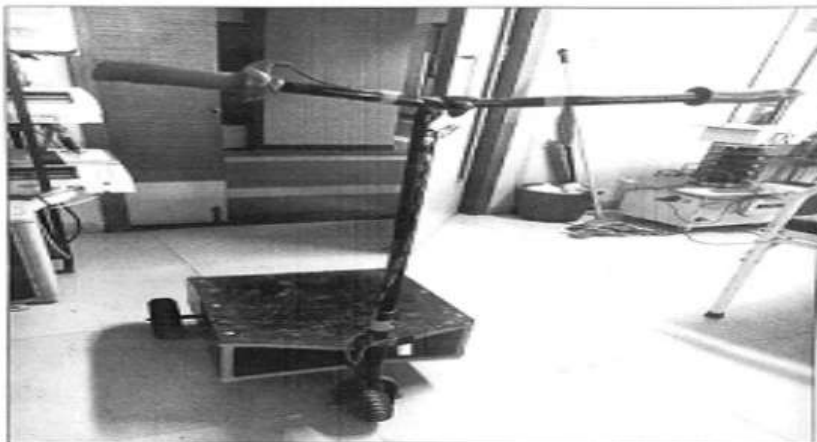
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(57) Abstract :

A Segway is an electrically powered stand-up scooter with higher degree of freedom than normal vehicles and mostly used for personal transportation in urban environment. The most popular and commonly used ones are the two wheeled Segway, known as the Segway. It is an electric, self-balancing human transporter with a computer-controlled gyroscopic stabilization and control system. The device is balanced on two parallel wheels and is controlled by moving body weight. Generally rural people need to travel mid-range distances to reach at the destination, the students living in the rural areas need to travel longer distances for taking education. Also, in some places like college, office, plant people need to travel in long distance by walking the mini electrical vehicle for single person is solution of this problem. Thus, aim is to produce something which will be useful in such above situation for travelling longer distances, which will be portable, and of low cost. In this innovation, Solar Operated Mechanical Segway vehicle has been built as a part of the course applied control and mechanical and electrical fusion. The goal of this work is that everyone should know about the Segway, how it is manufactured, fabricated and how is the working system of the Segway and another one is the how is to ride and balance of the Segway vehicle. This system is aimed at making a two wheeled and one small wheel balancing electric vehicle and applying some mechanical concepts to it. By using switch, circuit board and electric supply to go forward and go backward direction easily with the help of perfect balancing using this third wheel. The vehicle has electric motors powered by dry batteries. It balances with the help of small wheel.

Drawing 1 of 3: Basic of Three wheeled Segway



No. of Pages : 15 No. of Claims : 2

(54) Title of the invention : ENERGY REGENERATION IN COMMERCIAL VEHICLE BY USING THERMO-ELECTRIC SYSTEM

(51) International classification :H02K0007180000, H02N0011000000, F02B0063040000, H01L0035000000, H02J0007320000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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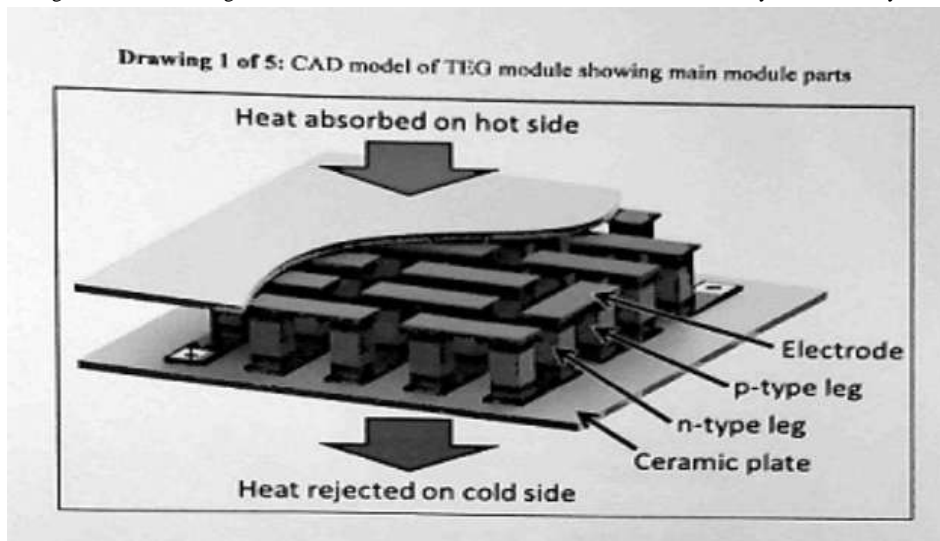
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(57) Abstract :
 Generating electric power in an automobile through engine is a highly inefficient process. It comes as a direct result of consuming fuel within the engine to drive the alternator. With a typical engine efficiency of 40%, a belt efficiency of 98% and an alternator efficiency of 75%, this leads to an overall energy conversion efficiency of only 29%. Many automobile components require electricity to run and thus generation of electricity in an efficient manner will help reduce the fuel costs and ultimately lead to lesser carbon emissions. In this work, we will discuss utilizing the heat generated in the brakes during heating by using Thermoelectric Generators (TEGs) which are based on Seebeck Effect. The electrical power produced with the help of TEGs will help in reducing the load of alternator on the engine, thus reducing the fuel consumption. This electricity produced can also be used to replace other auxiliary devices which take power directly from the engine to electrically powered such as fuel pump, water circulating pump, radiator, power steering pump etc. which take up to 8% of indicated output from the engine. Energy saving, emission reduction and boost energy utilization efficiency have long been the research hotspots of automobile industry. In the work the principle of semiconductor thermoelectric power generation is briefly expounded to raise one solution of using thermoelectric power generation material to recover the high temperature energy produced at brake disc during automobile braking, and the structure of the automobile brake waste heat recovery device and layout detail are elaborated.



No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : ENGINEERED CYCLODEXTRIN NANOSPONGES FOR THE DELIVERY OF ANTIRETROVIRAL DRUG

(51) International classification :A61K0009510000, A61K0047690000, A61K0009500000, A61K0009060000, A61K0047380000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention relates to the preparation and evaluation of Cyclodextrin Nano sponges for the extended release of antiretroviral drug stavudine. Stavudine loaded nano sponges were prepared by using the ultra- sound assisted technology. Prepared stavudine loaded nano sponges were evaluated by using various parameters such as size, shape, zeta potential and polydispersity index (PDI), Fourier transform-infrared spectroscopy (FTIR), Differential scanning calorimetry (DSC) and Powder X-ray diffraction (P-XRD). Nano sponges showed enhanced loading capacity due to the crystalline nature of Nano sponges. The results showed that in vitro release of drug exhibit extended release of drug which results into reduced dose and dosing frequency thus minimizing the side effects. The developed Nano sponges have the potential for improving the therapeutic efficacy of drugs for effective treatment of viral disease.

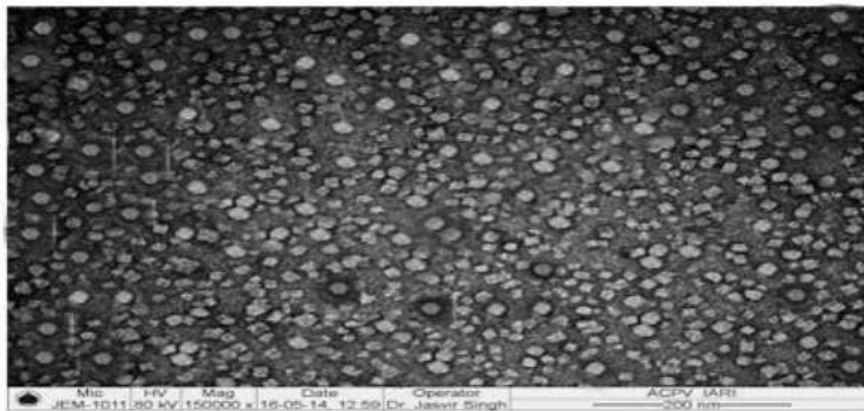


FIGURE 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221001935 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ELECTRONIC ICE BATH WITH MAGNETIC STIRRER FOR SYNTHETIC PURPOSE

(51) International classification :B67D0001080000, F25D0031000000, F25B0021020000, A23L0002000000, B32B0015088000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Present invention is based on manufacturing of electronic ice bath with unique features over the conventional ice bath. Electronic ice bath is combinations of bucket, stirrer, thermoelectric cooling modules, thermo regulator, Cooling system of electronic ice bath works without utilizing cooling agent. All the material used in manufacturing of this invention is reusable and non corrosive.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221002202 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A GEOPOLYMER COMPOSITION WITH CURING PROCESS

(51) International classification :C04B0028000000, C04B0028260000, B28B0021020000, C04B0111000000, C04B0111560000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

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(62) Divisional to Application Number :NA
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(57) Abstract :

[024] The present invention discloses a geopolymer composition with curing process. The geopolymer composition includes, but not limited to, an alkali or alkaline earth metal silicate component, an alkali or alkaline earth metal hydroxide, aggregate and water mix wherein the water content is insufficient to provide a slumped concrete and the ratio of SiO₂ to M₂O is at least 0.4; and further comprising fly ash containing less than wt. 12% of CaO; from 15 to 40 wt. % of blast furnace slag; and a chemical activator in range between 1 to 7 wt. % of alkaline silicates; and from 2 to 11 wt. % of alkaline carbonates.

No. of Pages : 17 No. of Claims : 8

(54) Title of the invention : DESIGN AND OPTIMIZATION OF KNUCKLE AND HUB OF FORMULA SAE VEHICLE

(51) International classification :G06F0030230000, G06F0111020000, G06F0030170000, B62D0035000000, B60G0007020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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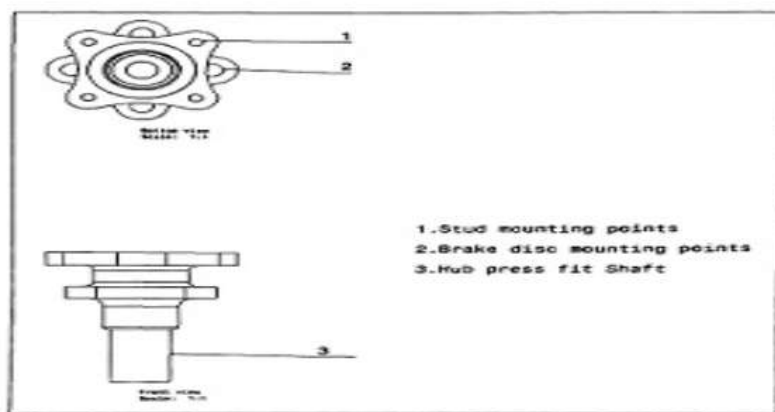
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(57) Abstract :

Wheel assembly in any car is the part that connects the mainframe of the body with the wheels through suspension arms. While designing and developing any automobile the designing of the wheel assembly is critical. It is due to the reason that a lot of forces are acting on the wheel assembly during accelerating, braking, cornering, and tilting. Therefore, is required to design the Wheel Assembly and its components considering all the factors leading to the failure by developing a safe Design. It must also be noted that the components must be designed in such a way that they have a minimum weight at the same time care must be taken that they do not cross a certain limit of stress value. In this project, the Complete Design Procedure of the Wheel Assembly for R12 Rims with wet Tires (165×60) has been presented along with optimization of the same components. The weight of the vehicle is considered to be 300 kg along with the driver. Optimization has been carried out by an analysis of the components in Ansys. The project deals with finding out the dimensions of the individual components and also detecting the probable regions of stress concentration. The design procedure follows all the rules laid down by FSAE Rule Book for Formula Type Cars.

Drawing 1 of 5: Manufacturing Hub using CNC machining



No. of Pages : 18 No. of Claims : 2

(54) Title of the invention : SOLAR AND WIND INTEGRATED SYSTEM USING PSO OPTIMIZED PID

(51) International classification :H02J0003380000, H02J0007350000, F03D0009250000, F03D0009000000, H02S0010120000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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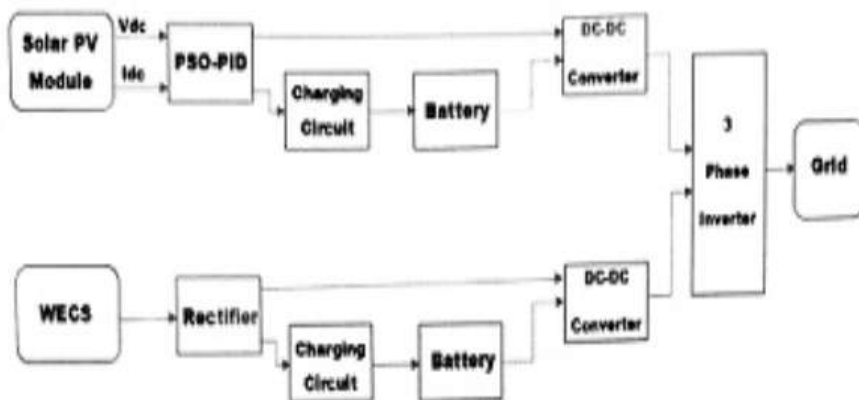
3)Mr. Avinash Kakde
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

4)Mr. Ajay Ade
 Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

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(57) Abstract :
 According to a survey, energy demand increases by 1.5% per year, and by 2030 the total energy demand overall increase by 40%. Hence For the growth of the country, a continuous electric supply is necessary to fulfill load demand. But due to a shortage of conventional energy sources like coal, mineral, fossil fuel, etc. It becomes difficult to meet the increasing load demand. The world is moving towards the use of renewable energy sources for power generation to meet the increasing load demand. The most widely used renewable source is wind energy due to its advantages like easy installation and low maintenance. The Solar Photovoltaic system can be installed. As the wind and solar PV sources are varying in nature. The power generated by them can be stored in a battery during windy and sunny days and can be later used when load demand is high or during cloudy days. But for proper integration of these variable resources, we have used the Particle Swarm Optimization Algorithm with Proportional Integral Derivative Controller which monitors the solar PV modules Output voltage and current to get stabilized output. The energy from the optimized PV system and wind energy conversion system is stored in two separate batteries. The remaining energy is converted into a fixed rated DC using a DC-DC converter after that for load supply it gets converted into 3 phase AC using a three-phase inverter. The system is integrated in such a way that if any of the energy sources fail to give rated energy output is utilized from charged batteries to meet the load demand. Harmonic filters are used to get filtered output. This optimized system will perform better than a traditional Hybrid Energy System. Simulation of HRES with solar PV, wind, and the battery is done by using MATLAB R2020a.

Drawing 1 of 2: Block diagram for the system.



(54) Title of the invention : WIRELESS BATTERY CHARGING IN ELECTRIC VEHICLE

(51) International classification :H02J0007020000, H02J0050120000, H02J0007000000, H02J0050100000, H01F0038140000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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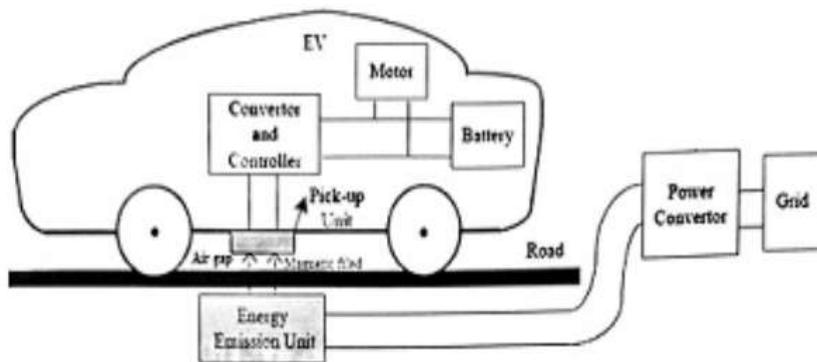
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5)Mr.Gaurav Katiyar
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(57) Abstract :
 This work deals with inductive charging systems for Electric vehicles using wireless transmission. This technology finds a great place in automotive sector especially in Electric Vehicles. The main goal is to transmit power using resonance coupling and to build the charging systems. The systems deal with an AC source, transmission coil, reception coil, converter and electric load which are battery. Wireless power transmission is popular and gaining technology finding its application in various fields. The power is transferred from a source to an electrical load without the need of interconnections. WPT is useful to power electrical devices where physical wiring is not possible or inconvenient. The technology uses the principle of mutual inductance which is Eco-friendly. Electric vehicles are seen as an alternative option in response to the depletion of resources. In order to increase the use of EVs in daily life, practical and reliable methods to charge batteries of EVs are quite important, accordingly wireless power transfer is considered as a solution to charge batteries. Prototype system of wireless charger which has 60 kHz operation frequency is designed and implemented. Plug-in Electric Vehicles are burdened by the need for cable and plug charger, But by using Wireless Charging system's Wireless charging opportunity. It Provides convenience to the customer, inherent electrical isolation, regulation done on grid side and reduce on-board ESS size using dynamic on-road charging. The main objective of our project is to design and develop suitable system for vehicle using resonant magnetic coupled wireless power transfer technology to electric vehicle charging system. Application of WPT in EV provides a clean, convenient and safe operation. At the core of the WPT systems are primary and secondary coils. These coils construct a loosely coupled system where the coupling coefficient is between 0.1-0.5.This project used as a reference and knowledge in further advancement in Electric vehicles (EVs) battery charging in future.

Drawing 1 of 3: Animated Diagram of Proposed System.



No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041030727 A

(19) INDIA

(22) Date of filing of Application :18/07/2020

(43) Publication Date : 04/02/2022

(54) Title of the invention : MINIATURIZED MICROSCOPE SYSTEM AND METHOD THEREOF

<p>(51) International classification :G02B0021000000, G02B0021360000, H05B0033080000, H04N0005235000, H01L0027150000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Indian Institute of Technology Hyderabad Address of Applicant :Kandi, Sangareddy District, Telangana - 502285, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shishir Kumar Address of Applicant :Room no. 418, B-Academic Block, IIT Hyderabad, Sangareddy, Kandi, Telangana, India 502285 ----- ----- 2)Ekta Prajapati Address of Applicant :Lab no. LG-04, B-Academic Block, IIT Hyderabad, Sangareddy, Kandi, Telangana, India 502285 ----- ----- 3)Srikanth Manepally Address of Applicant :Lab no. LG-04, B-Academic Block, IIT Hyderabad, Sangareddy, Kandi, Telangana, India 502285 ----- -----</p>
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(57) Abstract :

Disclosed herein is a method and a miniaturized microscope system for imaging a sample. The system comprises a light source including a plurality of micro light emitting diodes (mLEDs) to illuminate the sample, and at least one image sensor configured to capture one or more images of the sample located on a stage. The system further comprises a processor, coupled to the at least one image sensor, and configured to control the light source to illuminate the sample using at least one mLED of the plurality of mLEDs and receive one or more images of the sample captured by the at least one image sensor, when the at least one mLED is illuminated. The processor is also configured to compute an actual size of one or more objects in the sample by processing the one or more captured images.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041032821 A

(19) INDIA

(22) Date of filing of Application :30/07/2020

(43) Publication Date : 04/02/2022

(54) Title of the invention : A Device and Method For Treatment of Macular Edema of Various Causes

(51) International classification :A61M0001360000, G01N0021640000, A61N0005060000, G06Q0020120000, A61B0017040000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A DEVICE AND METHOD FOR TREATMENT OF MACULAR EDEMA OF VARIOUS CAUSES The present invention discloses a device and method for the treatment of the macular edema occurring due to various causes. The device includes a source for artificial light and an app. The device may be on a stand or a wearable. The said device uses the band of light in a range of 567-587 nm. The device monitored the treatment accessed by the patient, stopping the treatment after the requisite duration is achieved on a given day, keep log of the treatment sessions and also allow remote monitoring of the treatment session by the treating physician via the internet, accessed directly by the device, or via a phone based app.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041040304 A

(19) INDIA

(22) Date of filing of Application :17/09/2020

(43) Publication Date : 04/02/2022

(54) Title of the invention : HERBAL FORMULATION TO IMPROVE THE MECHANISM OF RESPIRATION

(51) International classification :A61K0036906800, A61K0036530000, A61K0036906600, A61K0036820000, A61K0036610000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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2)Seetha Thiagarajan

Name of Applicant : NA
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2)Seetha Thiagarajan

Address of Applicant :No 434, 13th Main, 3rd Cross, 3rd Block, Koramangala 560034, Bangalore, Karnataka, India -----

(57) Abstract :

HERBAL FORMULATION TO IMPROVE IMMUNITY HEALTH AND FACE HYGINE ABSTRACT The present invention relates to an herbal formulation that improves the body response and increases the immunity level and fights against the viral infections of the upper respiratory tract. The herbal formulation named Svsita, an herbal steaming powder comprises blend of 11 natural ingredients like neem, turmeric, pepper, ginger, lime, clove, holy basil, bettle leaves, ajwain, nochi leaves and garlic, which helps to improve the mechanism of respiration. It is a good expectorant, anti-septic, anti-fungal, anti-bacterial and highly potent for all types of headaches, common cold, flu, acute bronchitis, sinusitis and related symptoms. It also used as an effective face cleanser for clearing the pores and reducing the black heads without any fear of side effect.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : AUTONOMOUS DRONE WITH RAPID RESPONSE SURVEILLANCE SYSTEM

<p>(51) International classification :B64C0039020000, G05D0001000000, H04N0007180000, H04W0004900000, G06N0020000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Aditya Engineering College (A) Address of Applicant :ADB Road, Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Durgesh Nandan Address of Applicant :A-45, First Floor, Mohan Co-operative Industrial Estate, New Delhi-110044, Delhi, India -----</p> <p>2)Mr.Ammanamanchi Krishna Chaitanya Address of Applicant :Aditya Engineering College ADB Road, Surampalem, East Godavari-533437 Andhra Pradesh, India -----</p> <p>3)Mr.Sarvasiddi Sri Ram Durga Prasad Address of Applicant :Aditya Engineering College, ADB Road, Surampalem, East Godavari-533437 Andhra Pradesh, India -----</p> <p>4)Mr.Chegondi Kartheek Address of Applicant :Aditya Engineering College, ADB Road, Surampalem, East Godavari-533437 Andhra Pradesh, India -----</p> <p>5)Dr.V.Balaji Address of Applicant :Founder and Director Radiance Technology Research Services Private Limited, Coimbatore-641035 Tamilnadu, India -----</p> <p>6)Mr.Vella Suryanarayana Address of Applicant :Associate Professor, Aditya Engineering College, ADB Road, Surampalem, East Godavari-533437 Andhra Pradesh, India -</p> <p>7)Dr.K.V.S.R.Murthy Address of Applicant :R & D Dean and Professor, Aditya Engineering College, ADB Road, Surampalem, East Godavari-533437 Andhra Pradesh, India -----</p> <p>8)Dr.T.K.Rama Krishna Rao Address of Applicant :Principal, Aditya College of Engineering and Technology, ADB Road, Surampalem, East Godavari-533437 Andhra Pradesh, India -----</p> <p>9)Dr.A.Ramesh Address of Applicant :Principal, Aditya Engineering College, ADB Road, Surampalem, East Godavari-533437 Andhra Pradesh, India -----</p> <p>10)Dr.Sanjeev Kumar Address of Applicant :A-45, First Floor, Mohan Co-operative Industrial Estate, New Delhi-110044, Delhi, India -----</p>
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(57) Abstract :
ABSTRACT: Title: Autonomous Drone with Rapid Response Surveillance System The present disclosure proposes a rapid response surveillance system that utilizes multiple autonomous drones to identify crimes, alert multiple authorities about the crime and crime related details and simultaneously alerts nearby authorities to temporarily control the situation based on arrival of emergency authorities. The system 100 comprises an emergency command control centre 101, and at least one autonomous drone 102. Each autonomous drone 102 further comprises at least one camera 103, a database 104, a location tracking module 105, an image processing module 106, a transceiver 107, an arrival time calculation module 108, and an alert module 109. The rapid response surveillance system generates separate alerts in accordance with multiple authorities related to a crime and thereby suggests necessary action to the authorities using artificial intelligence. The rapid response system alerts nearby NGOs, local police and thereof to temporarily control the situation based on the calculated time for the authorities to reach the crime location.

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : AZADIRACHTA INDICA EXTRACT IMPARTING ANTICANDIDAL EFFECT TO ACRYLIC DENTURE BASE RESIN

<p>(51) International classification :A61K0036600000, A61K0036580000, A61K0006887000, A61P0031100000, C12Q0001180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Bharath Institute of Higher Education and Research Address of Applicant :No.173, Agharam road, Selaiyur, Chennai - 600073. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Jacob Mathew Philip Address of Applicant :Department of Prosthodontics, Tagore Dental College, Near Vandalur, Melakkottaiyur Post, Rathinamangalam, Tamil Nadu 600127 -----</p> <p>2)Dr. K. Mahalakshmi Address of Applicant :Prof and HOD, Dept. of Microbiology, Sree Balaji Dental College, BIHER, Velachery Main Rd, VGP Rajesh Nagar, Pallikaranai, Chennai, Tamil Nadu 600100 -----</p> <p>-----</p> <p>3)Dr. Helen Mary Abraham Address of Applicant :Department of Prosthodontics, Tagore Dental College, Near Vandalur, Melakkottaiyur Post, Rathinamangalam, Tamil Nadu 600127 -----</p>
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(57) Abstract :

ABSTRACT Azadirachta indica extract imparting anticandidal effect to acrylic denture base resin This invention is related to Phytochemical analysis and anticandidal efficacy of Azadirachta indica and Ficus benghalensis extracts for the management of denture stomatitis and is a computational and in-vitro experimental study on polymethyl methacrylate resin. The ethanolic herbal extracts were found to inhibit all three fungal strains (MIC - 500 µg/ ml). Antifungal (azole) susceptible, antifungal (azole) resistant and MTCC 3018 strains of C. albicans showed statistically significant difference in reduction of adhesion to acrylic denture base resin discs immersed in ethanolic extract of A. indica leaf and F. benghalensis aerial root when compared to the negative control. Fungicidal efficacy of A. indica extract pre-treated resin discs was on par with the positive control for the azole sensitive and MTCC 3018 candidal strains and there was no statistically significant difference in fungicidal efficacy on azole resistant strain of C. albicans. Thus the A. indica herbal extract may be a prospective herbal medicinal substitute to conventional pharmaceutical antifungal drugs used for prevention and treatment of candida associated denture stomatitis.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041054611 A

(19) INDIA

(22) Date of filing of Application :15/12/2020

(43) Publication Date : 04/02/2022

(54) Title of the invention : A NON-INVASIVE, CONTACTLESS DEVICE FOR CONFIRMATORY POINT-OF-DETECTION OF SARS-COV-2

<p>(51) International classification :G01N0027414000, G01N0033543000, G01N0027327000, B01L0003000000, C12Q0001000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY PUDUCHERRY INDIA 607403 -----</p> <p>2)SHRI SATHYA SAI MEDICAL COLLEGE AND RESEARCH INSTITUTE Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR.ABHIJIT PODDAR Address of Applicant :ASSISTANT PROFESSOR& SR. SCIENTIST SBV DEEMED TO BE UNIVERSITY. PONDICHERRY, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>2)DR.K.SURESH BABU Address of Applicant :ASSISTANT PROFESSOR, CENTRE FOR NANO SCIENCES & TECHNOLOGY. PONDICHERRY UNIVERSITY, PONDICHERRY UNIVERSITY, PONDICHERRY PONDICHERRY INDIA 605014 ----- -----</p>
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(57) Abstract :

TITLE: A NON-INVASIVE, CONTACTLESS DEVICE FOR CONFIRMATORY POINT-OF-DETECTION OF SARS-COV-2
APPLICANT: SRI BALAJI VIDYAPEETH AND SHRI SATHYA SAI MEDICAL COLLEGE AND RESEARCH INSTITUTE
APPLICATION NUMBER: 202041054611 DATED: 15/12/2020 ABSTRACT A device to detect virus released through coughing / sneezing by an infected individual comprising a silicone mouthpiece(1) in the shape of a funnel, a detection unit(2) attached to silicone mouthpiece(1), and a replaceable chip(12). The detection unit(2) comprises a chip insert opening chamber(4) near the frontal side, a LED screen(3) at the distal side, a copper connector probe plate with humps (11) positioned adjoining the chip insert opening chamber(4), and a micro voltage amplifier(9). The replaceable chip(12), inserted in the chip insert opening chamber(4), is a three-layer chip architecture comprising an electroconductive nanomembrane(8) with virus binding biomolecules immobilized on it. A person holds the device with the silicon mouthpiece(1) covering the mouth while coughing into it. Upon the virus binding to the biomolecules on the nanomembrane(8), the biological change in membrane potential is converted into the alteration of electrical voltage by the chip(12). Figure 1

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141000149 A

(19) INDIA

(22) Date of filing of Application :04/01/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : NOVEL SYSTEM, METHOD AND APPROACH OF TEXTURE DEFECT DETECTION USING HUMAN VISION PERCEPTION BASED CONTRAST

(51) International classification	:G06T0007000000, G01N0021956000, G06F0017100000, G06T0007420000, G06T0005000000	(71)Name of Applicant : 1)Dr.KANAPATHY GOPALAKRISHNAN Address of Applicant :ADVISOR & DIRECTOR GENERAL-IP CELL, NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, MUDUGURKI, VENKATAGIRI KOTE POST, DEVANAHALLI, BENGALURU-562 164, KARNATAKA, INDIA. -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.V.ASHA
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This patent disclosure covers Novel System, Method and Approach of Texture Defect Detection Using Human Vision Perception Based Contrast. Defect detection in images with periodically repeating patterns is much more complex than that in plain textural images because of high similarity among the repeating patterns. Human vision perception based features are ideal for detecting such defects in such textural images. A defect detection method is presented for identifying defects in periodically patterned textures based on Human Vision Perception (HVP) based contrast. Input defective images are split into several periodic blocks and two features, namely, HVP contrast of each periodic block and its absolute difference with the global contrast are used as 2-Dimensional feature space to identify defective blocks using Ward's hierarchical algorithm [4]. Various real fabric images with defects have been tested using the proposed method and the performance is evaluated in terms of accuracy and computation time. Capability of the proposed method of defect detection is demonstrated by comparison with Gabor wavelet-based method of defect detection with features of neuro-physiological aspects of human vision perception.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : BODY VITALS MONITORING SMART MOBILITY ASSISTANCE WALKER

(51) International classification :A61B0005000000, A61B0005020500, A61B0005024000, A61B0005021000, G08B0021040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: Body Vitals Monitoring Smart Mobility Assistance Walker The present disclosure proposes a body vitals monitoring smart mobility assistance walker that accurately monitors the health parameters of elderly or blind people and alerts the caretaker. The smart mobility assistance walker 100 comprises a heart rate sensor 101, a blood pressure sensor 105, a non-contact sensing unit 102, a controller (not shown), a verification unit (not shown) and a communication unit 107. The mobility assistance walker compares the health parameters of the user obtained from sensors with those obtained using IP camera for better accuracy and to detect and notify errors of sensors. The IP camera also monitors the facial expressions of the person to identify drowsiness, fainting or syncope thereof and alerts the caretaker. The controller of the walker alerts the caretaker about the health parameters and provides emergency alerts for alerting the caretaker whenever necessary. The smart mobility assistance walker utilizes either a mobile or web application to communicate with the caretaker.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141003167 A

(19) INDIA

(22) Date of filing of Application :22/01/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR ENTREPRENEURIAL THINKING ASSESSMENT

(51) International classification :G06N0020000000, G09B0007040000, A61B0005000000, F02D0041240000, G16H0010200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A SYSTEM AND METHOD FOR ENTREPRENEURIAL THINKING ASSESSMENT The present invention provides a method for entrepreneurial thinking assessment. The method may include receiving the user information. Thereafter, determining one or more personalized assessment questions to the user based on the received user information using trained an entrepreneurial thinking quotient machine learning model. The method further, receive by a response analyzer, responses to one or more of assessment questions. The method further analysis by the response analyzer the received response by assigning forward probability to one or more response scenarios. The method further determines, by a ETQ engine, an entrepreneurial thinking quotient (ETQ) based on the analysed response by corelating the user brain activities. Further, generating, by a report generation engine, a user entrepreneurial thinking quotient report based on determined entrepreneurial thinking quotient. Fig. 3

No. of Pages : 36 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141004030 A

(19) INDIA

(22) Date of filing of Application :29/01/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SELF-SUSTAINABLE, INTEGRATIVE-MODULAR ONSITE URINE TREATMENT UNIT FOR RECOVERY OF WATER AND GREEN CHEMICALS

(51) International classification :C02F0101100000, A61K0039000000, C02F0001520000, C02F0011120000, G01N0033493000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

See attachment

No. of Pages : 27 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141004312 A

(19) INDIA

(22) Date of filing of Application :01/02/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN ONLINE FILTRATION SYSTEM AND METHOD FOR REMOVING CONTAMINANTS FROM GASEOUS MEDIA AT LOW PRESSURES

(51) International classification :B01D0046520000, B01D0046000000, B01D0046240000, B01D0053860000, B01D0053000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

TITLE: A FILTRATION SYSTEM FOR REMOVING CONTAMINANTS FROM A GASEOUS MEDIA AND A METHOD THEREOF
ABSTRACT A filtration system for removing contaminants from a gaseous media is disclosed. A gas inlet (Ig) and a gas outlet (Og) is fluidly connected to the housing (110). A compressor (120) and a blower (130) are connected to the housing (110). One or more filter cartridges (200) are arranged in the housing (110). The suction within the housing (110) coats the one or more filter cartridges (200) with at least one pre-coat material. The pre-coat material removes contaminants from the gaseous media passing from the gas inlet (Ig). Further, the gaseous media is re-directed to another housing (110) when pressure drops beyond a pre-determined threshold value across the one of the housings (110). Subsequently, compressed air dislodges the pre-coat material from the one or more filter cartridges (200) for de-coating the one or more filter cartridges (200). Figure 1a is the representative figure.

No. of Pages : 35 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141007883 A

(19) INDIA

(22) Date of filing of Application :24/02/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : TABLE TOP PHLEBOTOMY CUM MICROBIOLOGICAL SAMPLE PROCESSING MOBILE BARRIER CABINET FOR COMMUNITY AND HEALTHCARE SETTINGS

<p>(51) International classification :A61B0005154000, A01K0001030000, A61C0019000000, A61B0005150000, G01N0033480000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY PUDUCHERRY INDIA 607403 -----</p> <p>2)MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. KALAIVANI R Address of Applicant :PROFESSOR, DEPT. OF MICROBIOLOGY, MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE, SRI BALAJIVIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>2)DR.C.P.GANESHBABU Address of Applicant :PROFESSOR & HEAD DEPT. OF GENERAL SURGERY SRI BALAJIVIDYAPEETH PILLIYARKUPPAM PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>3)DR.S.UMADEVI Address of Applicant :PROFESSOR & DEPT. OF MICROBIOLOGY SRI BALAJIVIDYAPEETH PILLIYARKUPPAM PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>4)DR.SHIVASHANKAR KENGADARAN Address of Applicant :SENIOR LECTURER, DEPT. OF PUBLIC HEALTH, DENTISTRY SRI BALAJIVIDYAPEETH PILLIYARKUPPAM PONDICHERRY PONDICHERRY INDIA 607403 -----</p>
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(57) Abstract :

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TITLE: TABLE TOP PHLEBOTOMY CUM MICROBIOLOGICAL SAMPLE PROCESSING MOBILE BARRIER CABINET FOR COMMUNITY AND HEALTHCARE SETTINGS ABSTRACT The present invention discloses a Table top phlebotomy cum Microbiological sample processing mobile barrier cabinet which is adapted to be carried to any site in community and configured to kept over a table at a point of care for community and healthcare settings thereby providing additional barrier protection to HCW in pandemic situation. The Table top phlebotomy cum Microbiological sample processing mobile barrier cabinet of the present invention comprises of a hallow enclosure[1] having bottom side[2], top side[3], right side[4], left side[5], front side[6] and back side[7] housed with an UV light[8]. The bottom side [2], top side[3], right side[4] and left side[5], are completely sealed and made of opaque material. The front side[6] is made of transparent glass and is provided with a window[9] of predetermined shape at centre of base and adapted to be open/close through a sliding door[10] for a patient to extend arm inside the hallow enclosure[1] for phlebotomy. The back side[7] is made of transparent glass and is provided with a sliding doorwith two partitions [11] of predetermined shape at centre of base and adapted to be open/close in a form of curved manner over left and right side frames for a phlebotomist for performing the procedure inside the hallow enclosure. The UV light[8] is positioned over the right side[4] inside the hallow enclosure and adapted to activate by means of power supply through an operating switch[12] fixed outside the right side[4]in which the UV light[8] upon activation is configured to sterilize work inside platform- before and after performing phlebotomy/ Microbiological testing.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141008294 A

(19) INDIA

(22) Date of filing of Application :26/02/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ADJUSTABLE MULTIPURPOSE INOCULATION LOOP

(51) International classification :H04R0001080000, B25B0031000000, C12M0001300000, B05B0009040000, A47K0010280000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
APPLICANT: SRI BALAJI VIDYAPEETH AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE
TITLE: ADJUSTABLE MULTIPURPOSE INOCULATION LOOP ABSTRACT The present invention discloses an Adjustable multipurpose inoculation loop which comprises of a hollow cylindrical housing tapered towards front end with an aperture and flattened and closed on rear end. The hollow cylindrical housing is adapted to bifurcate into two sections thereby forming a handle rear part and body front part. The Adjustable multipurpose inoculation loop of the present invention is characterized in loading plurality of inoculation loops of varying dimensions through the bifurcation and the inoculation loops are adapted to be projected out through the aperture and retracted back in to the housing by means of lever spring action. The loops are assembled on a central cylinder positioned inside the handle part of housing individually through a loop holder, spring and lever in which the levers projects out on the handle part of housing thereby allowing the corresponding loop to project out by pulling the lever down and the corresponding loop retracts on pushing the lever up.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : ZONE MEASURABLE GLASS PETRIDISH

(51) International classification :C12M0001220000, C12Q0001180000, G01F0019000000, G01N0027403000, G01N0021290000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 APPLICANT: SRI BALAJI VIDYAPEETH AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE TITLE: ZONE MEASURABLE GLASS PETRIDISH ABSTRACT The present invention discloses a zone measurable glass petridish for easy reading of zone of inhibition in Antimicrobial sensitivity testing plates during bacterial culture reporting in Microbiology Laboratory. The zone measurable glass petridish of the present invention comprises of a glass petridish characterized in presence of inbuilt permanent circular markings on exterior surface of bottom portion of the petridish, comprising of plurality of dots of predetermined diameter of dark colour arranged at equidistance to each other and plurality of concentric circles of alternative colours with predetermined dimension difference in diameter permanently marked around each of the dot thereby allowing to measure zone size without help of a scale to interpret as Sensitive, Intermediate or Resistant.

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : SLIDING MICROSCOPE ATTACHMENT

<p>(51) International classification :G02B0021260000, B65D0085812000, B65D0025040000, B65D0021080000, B66F0013000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY PUDUCHERRY INDIA 607403 -----</p> <p>2)MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR.R.PRABHA Address of Applicant :NO:11, VEERAMAMUNIVAR STREET RADHAKRISHNAN NAGAR PONDICHERRY PONDICHERRY INDIA 605009 -----</p> <p>2)DR.S.LOKESH Address of Applicant :NO:11, VEERAMAMUNIVAR STREET RADHAKRISHNAN NAGAR PONDICHERRY PONDICHERRY INDIA 605009 -----</p> <p>3)DR.JOSHY M.EASOW Address of Applicant :DEPARTMENT OF MICROBIOLOGY, MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE SRI BALAJI VIDYAPEETH, PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY PUDUCHERRY INDIA 607403 -----</p>
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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE
TITLE: SLIDING MICROSCOPE ATTACHMENT ABSTRACT The present invention discloses a sliding microscope attachment adapted to be removably disposed by means of sliding mechanism on to right side of mechanical stage of a microscope. The sliding microscope attachment of the present invention comprises of a rectangular shaped housing[1] divided into three horizontal portions namely upper portion[2], middle portion[3] and lower portion[4]. The upper portion[2] comprises of three vertical compartment and each compartment comprises elongated body portion[5] adapted to encompass a container with cap for storing Xylene, oil or used tissue paper. The upper portion is adapted to cover with a rectangular lid[6] and the lid[6] comprises of three circular head portion with a cap[7] at respective positions for securely closing the respective elongated body portion[5] in which the rectangular lid[6] comprises of sliding rim [8]on top for removably attaching to mechanical stage of a microscope. The middle portion[3] is adapted to be positioned below the upper portion[2] by means of sliding mechanism and comprise of rectangular tray[9] for storing Unused tissue papers and an handle for pulling out and pushing in the tray[9]. The lower portion[4] is adapted to be positioned below the middle portion[3] by means of sliding mechanism and comprise of rectangular tray[10] for placing used/unused slides and an handle for pulling out and pushing in the tray[10].

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141010012 A

(19) INDIA

(22) Date of filing of Application :10/03/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR GENERATION OF A USER FEEDBACK DATA

(51) International classification :G06F0008380000, H04L0001180000, H04M0019040000, G06Q0030020000, H04L0001080000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
As attached in PDF

No. of Pages : 36 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141011032 A

(19) INDIA

(22) Date of filing of Application :16/03/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : BONE MARROW ASPIRATION AND BIOPSY SIMULATOR TRAINER CARTRIDGE

(51) International classification :A61B0010020000, G09B0023300000, G09B0023280000, A23L0017500000, G09B0023340000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE
TITLE: BONE MARROW ASPIRATION AND BIOPSY SIMULATOR TRAINER CARTRIDGE ABSTRACT The present invention discloses a cost effective and environmentally benign Bone marrow aspiration and biopsy simulator trainer cartridge adapted to act as good functional fidelity as standalone or mounted to any anatomic model and provides analogous perception of penetration into skin and bone to practice bone marrow aspiration and biopsy under simulated conditions and configured to perform multiple aspirations up to eight punctures with a single cartridge and allowing the aspirated content re-injected back into cartridge through the same puncture hole. The Bone marrow aspiration and biopsy simulator trainer cartridge of the present invention comprises of a hollow cylindrical casing of predetermined dimensions closed at bottom end and opened at top end characterized in housing the following; • positioning and affixing plurality of acrylic rings one above the other in bottom of the casing thereby forming a cavity to hold bone marrow like gel; • placing a bone marrow like gel in the cavity to simulate bone marrow; • positioning and affixing on top of the bone marrow like gel, a dried cuttlefish bone of dimensions fits to circumference of the casing thereby completely covering the bone marrow like gel in which the dried cuttlefish bone simulates bone; sealing rest of portion of the casing above the cuttlefish bone, with skin colored room temperature vulcanizing silicone and covering top end of the casing with a opaque sheet to form the Bone marrow aspiration and biopsy simulator trainer cartridge of the present invention.

No. of Pages : 20 No. of Claims : 6

(54) Title of the invention : BORDER MOULDING GUN [BMG]

<p>(51) International classification :A61C0009000000, H01R0013713000, H05B0001020000, H01H0037000000, A61F0007000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY PUDUCHERRY INDIA 607403 -----</p> <p>2)INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)RAJKUMAR E Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>2)BALAJI J Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>3)MANOHARAN PS Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>4)SEENUVASAN Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>5)GEENA MARY G Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>6)ABIRAMI LAKSHMY J Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p>
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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH AND INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES TITLE: BORDER MOULDING GUN [BMG]

ABSTRACT The present invention discloses a Border Moulding Gun [BMG], a novel device for complete single step border moulding using low fusing compound. The BMG of the present invention comprises of a gun assembly connected to a characterized control box by means of a power cord. The gun assembly comprises of a outer shell[6] housed with nozzle[1], a connector, a titanium cylindrical cartridge[3], a piston[4], heating element[2], thermal sensor[8] and a trigger[5]. The nozzle[1] with aperture is adapted to be opened to load low fusing compound inside the titanium cylindrical cartridge[3] and configured to release soften low fusing compound through the aperture. The connector connects the nozzle[1] to front end of the titanium cylindrical cartridge[3]. The titanium cylindrical cartridge[3] is adapted to house a low fusing compound and encompassed with the heating element[2] for uniform distribution of heat to soften the low fusing compound and comprises of a thermal sensor[8] fixed to the titanium cylindrical cartridge[3] to sense the temperature. The piston[4] is fixed to the rear end of the titanium cylindrical cartridge[3] and return connected to a trigger[5] in which upon activation of the trigger[5] the soften low fusing compound will extrude through the aperture for loading on borders of custom special impression tray. The characterized control box comprises of a cubical box housed with an led display[9], temperature controller[10], on/off switch[11], main power supply[12], plug in for gun[13], temperature adjustment switch[14] and a temperature set switch [15]. The led display[9] display the temperature of the heating element[2] from the thermal sensor[8]. The temperature adjustment switch[14] is adapted to change the temperature of the heating element[2] and configured to activated by the temperature set switch [15]. The plug in for gun[13] connects to the gun assembly to the control box by means of a power cord. The main power supply[12] connects the control box to main power supply. The on/off switch[11] upon activation supplies power thereby the heating element[2] heats the cartridge[3] which softens the low fusing compound and upon reaching optimum temperature, temperature controller[10] automatically cuts off power supply and finally trigger[5] is activated which pushes the piston[4] to extrude the softened compound through aperture of the gun for loading on borders of custom special impression tray.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141012360 A

(19) INDIA

(22) Date of filing of Application :23/03/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ANTI SNAP INTRAORAL ELASTIC ENGAGER

(51) International classification :A61C0007280000, A61B0006140000, C07K0016280000, A61C0001080000, A61C0017080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH AND INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES TITLE: ANTI SNAP INTRAORAL ELASTIC ENGAGER ABSTRACT The present invention discloses an Anti Snap Intraoral Elastic Engager to engage elastics precisely in different configurations to brackets/buccal tube. The Anti Snap Intraoral Elastic Engager of the present invention comprises of a square shaped cap[100] with pocket holder[101] on top of the square shaped cap[100] for easy carrying, characterized in presence of a rectangular slot[106] on bottom of the square shaped cap[100] for removably attaching an rectangular shaped engager template[102] with plurality of slots[103] to accommodate elastic engager poles [104] for placing elastic between the elastic engager poles [104] in order to orient to hooks of brackets to extend elastics and a plastic cover[105] for covering to protect the rectangular shaped engager template[102] and the elastic engager poles [104].

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141013918 A

(19) INDIA

(22) Date of filing of Application :29/03/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PHARMACEUTICAL COMPOSITION OF MOLNUPIRAVIR

<p>(51) International classification :A61K0009160000, A61K0009200000, A61K0009000000, A61K0009280000, A61K0031327000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)OPTIMUS PHARMA PRIVATE LIMITED Address of Applicant :OPTIMUS PHARMA PRIVATE LIMITED SY NO. 37/A & 37/P, PLOT NO. 6P, 2ND FLOOR SIGNATURE TOWERS, KOTHAGUDA KONDAPUR, HYDERABAD-500084 TELANGANA, INDIA ----- --</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Srinivasa Reddy Desi Reddy Address of Applicant :OPTIMUS PHARMA PRIVATE LIMITED SY NO. 37/A & 37/P, PLOT NO. 6P, 2ND FLOOR SIGNATURE TOWERS, KOTHAGUDA KONDAPUR, HYDERABAD-500084 TELANGANA, INDIA ----- --</p> <p>2)Pasula Basavaiah Chowdary Address of Applicant :OPTIMUS PHARMA PRIVATE LIMITED SY NO. 37/A & 37/P, PLOT NO. 6P, 2ND FLOOR SIGNATURE TOWERS, KOTHAGUDA KONDAPUR, HYDERABAD-500084 TELANGANA, INDIA ----- --</p> <p>3)Amarnath reddy rami reddy Address of Applicant :OPTIMUS PHARMA PRIVATE LIMITED SY NO. 37/A & 37/P, PLOT NO. 6P, 2ND FLOOR SIGNATURE TOWERS, KOTHAGUDA KONDAPUR, HYDERABAD-500084 TELANGANA, INDIA ----- --</p>
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(57) Abstract :
ABSTRACT PHARMACEUTICAL COMPOSITION OF MOLNUPIRAVIR The present invention relates to a pharmaceutical composition, methods for making pharmaceutical formulations comprising Molnupiravir or pharmaceutically acceptable salt or derivatives thereof and one or more pharmaceutically acceptable excipient. The present invention further provides process for preparation of Molnupiravir.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : MODIFIED ANTIGAG INTRA ORAL PERIAPICAL FILM

(51) International classification :G03B0042040000, A61B0006140000, G03C0003000000, A61C0019040000, A01G0013020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 APPLICANT: SRI BALAJI VIDYAPEETH AND INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES TITLE: MODIFIED ANTIGAG INTRA ORAL PERIAPICAL FILM ABSTRACT The present invention discloses a Modified Antigag Intra Oral Periapical film to prevent gagging during intra oral periapical radiograph. The Modified Antigag Intra Oral Periapical film of the present invention comprises of a bell shaped outer wrapper, black film wrapper, a characterized radiographic film, and a lead foil sheet. The bell shaped outer wrapper is configured to cover crown, root and surrounding periapical area of tooth and adapted to seal the radiographic film to protect from moisture and light and comprises of a tube side and label side in which the tube side is white in colour with raised dot in corner and the label side has a flap. The black film wrapper adapted to inserted inside the flap and configured to encompass the radiographic film and the lead foil sheet positioned behind the radiographic film in which the lead foil sheet absorbs x rays from reaching tongue and soft tissues and prevents back scatter and also provides stability to the film. The invention is characterized in the radiographic film comprising of triangular shaped film with rounded apex and sides of the triangular film are at an angulation of 800 to base of the triangular film and having reduced dimension in accordance with dimensions of a normal 3rd molar tooth thereby preventing • invoking sensation of a large object placed in the mouth • unnecessary posterior extension of the film • impingement of the film in the posterior part of the oral cavity. • contact of posterior border of film with pterygomandibular raphae, soft palate and areas posterior to it and thus prevents gag reflex.

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : TISSUE HOLDER

(51) International classification :A61B0017122000, A61B0017128000, A61B0017080000, A61B0017000000, A61B0017100000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH AND SHRI SATHYA SAI MEDICAL COLLEGE AND RESEARCH INSTITUTE
TITLE: TISSUE HOLDER ABSTRACT The present invention discloses a Tissue holder for tissue clipping/holding during surgeries/dissection. The tissue holder of the present invention comprises of a pair of semicircular body members [1,2] adapted to engage a tissue and connected together in middle of the said semicircular body members [1,2] by connecting means and configured to transverse opening and closing of the claimed tissue holder, characterized in • presence of finger rest[3] near curved end of the semicircular body members [1,2] for holding; • presence of slot[4] near flattened end of the semicircular body members [1,2] for positioning LED lights for illumination to provide brightness to the holding site; • the connecting means comprises of bilateral helical torsion spring[5] supported by means of arms[6] on either side and bridged by a metal rod[7] which is supported by supporting pillars[8] to equally distribute torque force from the spring for opening/closing to hold and release the tissue.

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141018520 A

(19) INDIA

(22) Date of filing of Application :22/04/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD, SYSTEM AND APPARATUS FOR AUTOMATED AUTHENTICATION AND ASSESSMENT OF PRECIOUS ITEMS

<p>(51) International classification :G06F0021320000, G06T0001000000, H04L0009320000, H04N0021439000, H04M0001020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)AMAR PRABHU Address of Applicant :Shubham Complex, JP Nagar 3rd Phase, Bangalore- 560078, INDIA -----</p> <p>2)JIGAR VORA 3)SUBHOJIT BASU Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)AMAR PRABHU Address of Applicant :Shubham Complex, JP Nagar 3rd Phase, Bangalore- 560078, INDIA -----</p> <p>2)JIGAR VORA Address of Applicant :Shubham Complex, JP Nagar 3rd Phase, Bangalore- 560078, INDIA -----</p> <p>3)SUBHOJIT BASU Address of Applicant :Shubham Complex, JP Nagar 3rd Phase, Bangalore- 560078, INDIA -----</p>
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(57) Abstract :

ABSTRACT METHOD, SYSTEM AND APPARATUS FOR AUTOMATED AUTHENTICATION AND ASSESSMENT OF PRECIOUS ITEMS The present invention relates to an apparatus, method and system for capturing and verification of a user identity, automated authentication of precious items and secure storage and retrieval of precious items linked to said user, all configured for use within an apparatus being a kiosk. The present invention also related to a Gold Teller System (600) comprising: a plurality of kiosk apparatuses (601) spread geographically across different locations; a plurality of remote terminals (602) located at select locations and being in connection with said kiosk apparatuses (601); a Kiosk Connection Control System (603) comprising a module stored in a cloud network enabling connection between said kiosk apparatuses (601) and said remote terminals (602); and a data warehouse (604) to store data and/or information relating to the Gold Teller System (600) being connected to all other components of the system (600), i.e. said kiosk apparatuses (601), said remote terminals (602) and the Kiosk Connection Control System (603). Fig. 4

No. of Pages : 46 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141025089 A

(19) INDIA

(22) Date of filing of Application :05/06/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : INFECTIOUS DISEASE PROTECTION KIT/ BACKPACK PPE

(51) International classification :A45F0003040000, A43B0003160000, A45C0013020000, A01K0097100000, A45F0004020000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH AND INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES TITLE: INFECTIOUS DISEASE PROTECTION KIT/ BACKPACK PPE ABSTRACT The present invention discloses an Infectious disease protection kit/ Backpack PPE with complete protection from head to toe by covering the person completely and spaciouly without any dehydration. The kit/ Backpack PPE of the present invention comprises of a backpack (1) adapted to be strapped around the upper body or can be attached to a chair with help of straps (3) and has plurality of provisions for housing a pull up low weight rod (2), an adjustable attachment (4), a transparent, non-porous flexible material (5) with provision to insert hands and fingers (9) and a shoe cover (6). The pull up rod(2) rests in a cabin in the Backpack. The adjustable attachment (4) is configured to be placed at the top of the pull up rod(2). The transparent, non-porous flexible material (5) with provision to insert hands and fingers (9) is configured to extends from the top of the attachment(4), covering to the torso of the person using or till the floor when attached to a chair and provided with provision on backside of the flexible material (5) near the back for air circulation (7) and a zip or an option (8) is place behind for removal of the material.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141027162 A

(19) INDIA

(22) Date of filing of Application :17/06/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : CAMOFLAGUE DIAGNOSTIC KIT FOR KIDS

<p>(51) International classification :A61C0019040000, A61C0001080000, A61B0006140000, F41H0003020000, A61B0001240000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY INDIA 607403 -----</p> <p>2)INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. KAVITHA.M Address of Applicant :SENIOR LECTURER, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>2)Dr. PRATHIMA G.S Address of Applicant :PROFESSOR AND HEAD, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p>
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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH AND INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES TITLE:
CAMOFLAGUE DIAGNOSTIC KIT FOR KIDS ABSTRACT The present invention discloses a Camouflage Diagnostic Kit for Kids to overcome fear of sharp instruments, especially at first dental visit and to reduce the anxiety of the child during the dental office. The Camouflage Diagnostic Kit for Kids of the present invention comprises of dental mouth mirror, dental probe and dental tweezer adapted to be enclosed in a box characterized in that the non working end of the dental mouth mirror, dental probe and dental tweezer is incorporated with 3 dimensional attractive colorful toys.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : SURGICAL PERIOSTEAL ELEVATOR WITH A BONE FILE

<p>(51) International classification :A61B0017160000, A61C0003000000, A61B0090000000, A61C0008000000, A61B0017560000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY INDIA 607403 -----</p> <p>2)INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. RAGHU Address of Applicant :DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>2)Dr. NITHIN JOSEPH JUDE.B Address of Applicant :DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>3)Dr. SATHYANARAYANAN.R Address of Applicant :DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p>
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(57) Abstract :
 APPLICANT: SRI BALAJI VIDYAPEETH AND INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES TITLE: SURGICAL PERIOSTEAL ELEVATOR WITH A BONE FILE ABSTRACT The present invention discloses asurgical periosteal elevator with a bone file to do both elevation of gingival flap for extraction of tooth and to enhance correction, final smoothing and shaping of alveolar irregularities after extraction.The Surgical periosteal elevator with a bone file comprises of a cylindrical handle [1] with slender shank [2,3] on both ends characterized in that • a curved detachable periosteal elevator[4] of predetermined length fixed to the slender shank[2] in which the periosteal elevator[4] comprises of a pointed tip on one end which gradually gets broader at middle portion and converges and attached to the slender shank[2]; • a straight -cut bone file[5] of predetermined length fixed to the slender shank[3] at an angulation of 2600 in which the straight -cut bone file[5] comprises of straight parallel cuts.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : LED PERIOSTEAL ELEVATOR

<p>(51) International classification :F21Y0115100000, A61C0003000000, A61B0090300000, A61B0017000000, A61B0001060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY INDIA 607403 -----</p> <p>2)INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)NITHIN JOSEPH JUDE B Address of Applicant :READER, DEPARTMENT OF ORAL & MAXILLO FACIAL SURGERY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>2)RAGHU K Address of Applicant :READER, DEPARTMENT OF ORAL & MAXILLO FACIAL SURGERY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>3)SATHYANARAYANAN R Address of Applicant :PROFESSOR, DEPARTMENT OF ORAL & MAXILLO FACIAL SURGERY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p>
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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH AND INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES TITLE: LED PERIOSTEAL ELEVATOR ABSTRACT The present invention discloses an autoclavable and rechargeable LED Periosteal Elevator for greater surgical visual accessibility during surgeries involving regions of oral & perioral areas. The LED Periosteal Elevator of the present invention comprises of • a semi-hallow cylindrical handle[1] having two ends; • a non detachable broad rounded end of periosteal elevator[2] connected to one end of the handle[1] through a slender shank[3] • characterized in that a curved detachable rugine-end of periosteal elevator[4] connected to other end of the handle[1] through a slender shaft[5] lodging in an LED light source[6] in a circular fashion at junction in which a circuit system lodging the LED light[6] and a rechargeable battery as power source housed inside the handle [1]; and ON/OFF switch[7] and rechargeable port[8] for charging disposed on the handle [1].

No. of Pages : 13 No. of Claims : 5

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(21) Application No.202141027165 A

(19) INDIA

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(54) Title of the invention : INTRA ORAL DEVICE TO AID BAG MASK VENTILATION IN EDENTULOUS PATIENTS

(51) International classification :A61C0009000000, A61M0016040000, A61F0005560000, A61C0019040000, A61C0013271000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

APPLICANT: SRI BALAJI VIDYAPEETH, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE TITLE: INTRA ORAL DEVICE TO AID BAG MASK VENTILATION IN EDENTULOUS PATIENTS ABSTRACT The present invention discloses an intra oral device to facilitate adequate mask seal for bag and mask ventilation during induction of anaesthesia in completely edentulous patients. The intra oral device is adapted to be positioned in between residual alveolar ridges and labial and buccalmucosa in the vestibule of edentulous patients. The intra oral device of the present invention comprises of a 'semi circular labial part[1] in middle extends as buccal wings on either side thereby forming left buccal wing[2] and right buccal wing[3] and extends from lingual side of the buccal wings[2,3] internally to form maxillarybite shelves[4] and mandibular bite shelves[5] having flat structure on top which protrudes from superior rim of lingual side of the buccal wings[2,3] at right angleand extends for predetermined length and acquires a blunt angle and extends for predetermined length to merge with the buccal wings[2,3].

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : Portable Incense Burner with Automatic Ash Disposal

<p>(51) International classification :A47G0035000000, A01M0013000000, A61L0009030000, A47G0033000000, A24F0019000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Aditya Engineering College Address of Applicant :ADB Road, Surampalem, East Godavari-533291, Andhra Pradesh, India. -----</p> <p>2)Aditya College of Engineering and Technology</p> <p>3)Aditya College of Engineering</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.Akhilesh Kumar Singh Address of Applicant :ADB Road, Surampalem, East Godavari-533291, Andhra Pradesh, India -----</p> <p>2)Dr.Vidyut Dey Address of Applicant :National Institute of Technology Agartala, Barjala, Jirania Agartala-799046, Tripura, India. -----</p> <p>3)Dr.Ram Naresh Rai Address of Applicant :National Institute of Technology Agartala, Barjala, Jirania Agartala-799046, Tripura, India -----</p> <p>4)Dr.M.Sreenivasa Reddy Address of Applicant :ADB Road Aditya Engineering College, Aditya Nagar, Surampalem East Godavari-533437, Andhra Pradesh, India -----</p> <p>5)Dr.K V S Ramachandra Murthy Address of Applicant :ADB Road Aditya Engineering College, Aditya Nagar, Surampalem East Godavari-533437, Andhra Pradesh, India -----</p> <p>6)Dr.Mohammed Zubairuddin Address of Applicant :ADB Road Aditya Engineering College, Aditya Nagar, Surampalem East Godavari-533437, Andhra Pradesh, India -----</p> <p>7)Dr.Sandip Kumar Address of Applicant :ADB Road Aditya Engineering College, Aditya Nagar, Surampalem East Godavari-533437, Andhra Pradesh, India. -----</p> <p>8)Mr.Jaikishan Pandiri Address of Applicant :ADB Road, Surampalem, East Godavari-533291, Andhra Pradesh, India -----</p> <p>9)Dr.Pramod Kumar Address of Applicant :ADB Road, Surampalem, East Godavari-533291, Andhra Pradesh, India -----</p> <p>10)Dr.Yarrapragada K S S Rao Address of Applicant :ADB Road Aditya Engineering College, Aditya Nagar, Surampalem East Godavari-533437, Andhra Pradesh, India. -----</p> <p>11)Dr.N.Bhanu Teja Address of Applicant :ADB Road Aditya Engineering College, Aditya Nagar, Surampalem East Godavari-533437, Andhra Pradesh, India. -----</p>
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(57) Abstract :

ABSTRACT: Title: Portable Incense Burner with Automatic Ash Disposal The present disclosure proposes a portable incense burner with automatic ash disposal. The portable incense burner with automatic ash disposal comprises an incense holding unit 101, an incense ash collecting unit 102, an ash sensing unit 103, a microcontroller unit (not shown), an alerting unit 104, an ash sucking unit 105, a filtering unit 106, a sling handle 107, a hollow top cover 108, and an ash exhausting unit 109 and a hand-holding unit 110. The portable incense burner with automatic ash disposal efficiently collects and removes ashes of incense from the incense holder. The proposed portable incense burner is safe to use, handle, light in weight, and can be hanged on walls. The portable incense burner is easy to clean, maintain, and safe for children.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : DRIVER DROWSINESS DETECTION AND FATAL ACCIDENT PREVENTION SYSTEM WITH SPEED CONTROL

<p>(51) International classification :G08B0021060000, B60K0028060000, G06K0009000000, A61B0005180000, B60W0040080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)JAYESH S Address of Applicant :SREELAKAM BRAHMAMANGALAM P O, KOTTAYAM, KERALA, INDIA 686605. -----</p> <p>2)VIJESH P V</p> <p>3)VINEETH V V</p> <p>4)DEEPU N K</p> <p>5)ARUN C D</p> <p>6)RENJITH S</p> <p>7)NAUFAL A</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)JAYESH S Address of Applicant :SREELAKAM BRAHMAMANGALAM P O, KOTTAYAM, KERALA, INDIA 686605. -----</p> <p>2)VIJESH P V Address of Applicant :PUTHENPURA HOUSE, THURUTHY (PO), ERNAKULAM, KERALA, INDIA, 683545 -----</p> <p>-----</p> <p>3)VINEETH V V Address of Applicant :VADAKKEDATH HOUSE NANTHYATTUKUNNAM, NORTH PARAVUR, ERNAKULAM, KERALA, INDIA, 683513 -----</p> <p>4)DEEPU N K Address of Applicant :NIRAPPEL HOUSE, MEKKADAMPU PO, ERNAKULAM, KERALA, INDIA, 682316 -----</p> <p>----</p> <p>5)ARUN C D Address of Applicant :CHAMMANIKKODATH HOUSE, LPS ROAD, PALARIVATTOM P.O, ERNAKULAM, KERALA, INDIA, 682025 -----</p> <p>6)RENJITH S Address of Applicant :KRISHNA VILASAM, KADATHY EAST MARKET. P.O, ERNAKULAM, KERALA, INDIA, 686673 -----</p> <p>-----</p> <p>7)NAUFAL A Address of Applicant :RAZINA MANZIL THEVARA P.O COCHIN, ERNAKULAM KERALA, INDIA, 682013 -----</p> <p>-----</p>
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(57) Abstract :

A Real time system for detecting the drowsy condition and fatigue condition of a driver of a vehicle using a video camera located inside the vehicle focussing on the eye and mouth. The system also includes a processor for processing the images acquired. The processor , monitors both eyes and determines whether the eye is in an open position or closed state using the eye aspect ratio calculation and the duration of the closure. The processor monitors the mouth and determines whether the driver is yawning. Further if the drowsiness is detected, speed control is initiated which will detach the acceleration vehicle by cutting the accelerator control and by gradually applying brakes for the control of the driver. If fatigue or yawn is detected, an alarm is triggered. An emergency warning at the rear side will be triggered along with the vehicle speed reduction. System works on real time basis.

No. of Pages : 20 No. of Claims : 12

(54) Title of the invention : ADVANCED WEARABLE HEALTH MONITORING DEVICE FOR OLD PERSONS

<p>(51) International classification :A61B0005000000, A61B0005020500, A61B0005110000, A61B0005024000, H04N0005225000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1) Dr. S. JAFAR ALI IBRAHIM Address of Applicant :DIRECTOR-OPERATIONS, NIDAMANURI FOUNDATION FOR TECHNOLOGY INCUBATION, 6-318B, OPPOSITE SAI BAB TEMPLE, KURNOOL ROAD, ONGOLE, AP-523001. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1) Dr. S. JAFAR ALI IBRAHIM Address of Applicant : DIRECTOR-OPERATIONS, NIDAMANURI FOUNDATION FOR TECHNOLOGY INCUBATION, 6-318B, OPPOSITE SAI BAB TEMPLE, KURNOOL ROAD, ONGOLE, AP-523001. -----</p> <p>2)Dr. R. VIJAYARAJESWARAN Address of Applicant :DIRECTOR-OPERATIONS, NIDAMANURI FOUNDATION FOR TECHNOLOGY INCUBATION, 6-318B, OPPOSITE SAI BAB TEMPLE, KURNOOL ROAD, ONGOLE, AP-523001. -----</p> <p>3)Dr. N. S. KALYAN CHAKRAVARTHY Address of Applicant :FOUNDER DIRECTOR, NIDAMANURI FOUNDATION FOR TECHNOLOGY INCUBATION, 6-318B, OPPOSITE SAI BAB TEMPLE, KURNOOL ROAD, ONGOLE, AP-523001. -----</p> <p>4)Dr. S. RAJASEKAR Address of Applicant :HEAD- TECHNICAL RESEARCH, NIDAMANURI FOUNDATION FOR TECHNOLOGY INCUBATION, 6-318B, OPPOSITE SAI BAB TEMPLE, KURNOOL ROAD, ONGOLE, AP-523001. -----</p> <p>5)Dr. MERUGU KAVITHA Address of Applicant :HEAD- PRODUCT DEVELOPMENT, NIDAMANURI FOUNDATION FOR TECHNOLOGY INCUBATION, 6-318B, OPPOSITE SAI BAB TEMPLE, KURNOOL ROAD, ONGOLE, AP-523001. -----</p> <p>6)Mr. S. SURESH Address of Applicant :LEAD- RESEARCH AND DEVELOPMENT, NIDAMANURI FOUNDATION FOR TECHNOLOGY INCUBATION, 6-318B, OPPOSITE SAI BAB TEMPLE, KURNOOL ROAD, ONGOLE, AP-523001. -----</p> <p>-----</p> <p>7)Mr. V. ANTONY SAGEYA ANAND Address of Applicant :LEAD- R & D AND QUALITY CONTROL, NIDAMANURI FOUNDATION FOR TECHNOLOGY INCUBATION, 6-318B, OPPOSITE SAI BAB TEMPLE, KURNOOL ROAD, ONGOLE, AP-523001. -----</p> <p>-----</p>
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(57) Abstract :

No. of Pages : 5 No. of Claims : 5

(54) Title of the invention : INTELLIGENT SYSTEM FOR AUTOMATIC MEDICINE ALERT GENERATING USING INTERNET OF THINGS

(51) International classification :C12Q0001684800, H04L0029080000, A61M0005310000, H04N0005760000, C07H0001060000

(86) International Application No :PCT// Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA Filing Date :NA

(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :
 The present invention relates to Intelligent system for automatic medicine alert generating using internet of things. The objective of the present invention is to solve the problems in the prior art technologies related to automatic medicine reminder and alerting to the patient/user using sensor and processor.

No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : INTELLIGENT FACE MASK FOR SCRUTINIZING IMPURITY LEVEL BASED ON COLOR CHANGAE

(51) International classification :A62B0018020000, G06K0009000000, A41D0013110000, B05B0012140000, G01K0011120000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 An Intelligent mask with electronic fabric (E-Textile) is disclosed. The E-Textile changes colour based on a level of impurity present on a face mask. The E-Textile comprises four layers, wherein the four layers comprises at least one of a purification layer and a sensor layer. The colour change of the face mask is monitored and informed to a concerned official through a user device. The user device receives location of the face mask with high of contamination. The colour change data of the face mask is stored in real-time in cloud, wherein the colour change data is accessible for a week's period of time. The user device sends a notification to authorities once the impurity level crosses a threshold value which is harmful to human body. FIG. 1

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : IOT CONTROLLED WILDLIFE OBSERVATION ROBOT

(51) International classification :G05D0001000000, G05D0001020000, A01M0029160000, H04N0007180000, A63H0030040000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
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(57) Abstract :
 We can make use of this innovative system in order to get close footage of wild animals. As with the help of this system the user doesn't have to go close to the wild animals in order to get the close footage. Here the wildlife observation robot with night vision capability system makes use of remote to operate the robotic vehicle to get closer to the wild animals on which the night vision camera is being mounted. This allows the user to control the robotic vehicle wirelessly and get desired angled of these wild animals. This video is recorded and can be viewed on PC for reference. So wildlife observers can now safely get close footage of wild animals by operating this robotic vehicle from a safe distance. This system consists of an 8051 family microcontroller unit used for processing user sent through the transmitter circuit. These signals are received by the receiver mounted on the robotic vehicle. The microcontroller then processes this data and passes on signals to driver motors. The driver motors now in turn operate the motors by providing desired signal outputs to drive the vehicle movement motors. Also when the microcontroller receives the camera directional change signal, it then forwards this signal to the camera motor in order to achieve desired camera angle. Thus this wildlife observation robot with night vision capability system helps to get a closer view of wildlife with the help of remote.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141044526 A

(19) INDIA

(22) Date of filing of Application :01/10/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : TARGET INDICATING LIGHT BEAM DEVICE FOR ENHANCING THE POSITIONING ACCURACY OF INTRA ORAL X-RAY MACHINE

<p>(51) International classification :A61B0006000000, A61B0006080000, A61B0006140000, A61B0006100000, H05G0001340000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)JSS DENTAL COLLEGE AND HOSPITAL, JSS ACADEMY OF HIGHER EDUCATION AND RESEARCH Address of Applicant :SRI SHIVARATHREESHWARA NAGARA, BANNIMANTAP, MYSURU, KARNATAKA 570004 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prasannasrinivas Deshpande, MDS, DLD Address of Applicant :Assistant Professor, Department of Oral Medicine and Radiology, JSS Dental College and Hospital, JSS Academy of Higher Education & Research, SS Nagar, Bannimantap, Mysore 570015 Karnataka, India ----- - 2)Dr Karthikeya Patil, MDS Address of Applicant :Professor & Head, Department of Oral Medicine and Radiology, JSS Dental College and Hospital, JSS Academy of Higher Education & Research, SS Nagar, Bannimantap, Mysore 570015 Karnataka, India ----- - 3)Dr Mahima V.G, MDS Address of Applicant :Professor, Department of Oral Medicine and Radiology, JSS Dental college and Hospital, JSS Academy of Higher Education & Research SS Nagar, Bannimantap, Mysore 570015 Karnataka, India ----- 4)Dr Mrinal Limaye, MDS Address of Applicant :Assistant Professor, Department of Periodontology, KVG Dental College and Hospital, Kurunjibhag, Sullia 574327 Karnataka, India -----</p>
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(57) Abstract :

Target indicating light beam device for enhancing the positioning accuracy of intra oral x-ray machine is the proposed invention that focuses on resolving the issues that are with current x-ray technologies i.e., the patient will be exposed to radiation frequently. Especially fresh dental graduates, radiographers and trainees experience these issues resulting in repeated patient exposure to radiation. There is a need to implement a simple device which can indicate the exact area of face/jaw being exposed by x-ray beam can avoid this problem of sub-optimal quality radiograph with partial area of interest coverage and thus minimizing the repetition of dental radiographs. The device consists of 8-10 monochromatic collimated class 3a/3b laser lights embedded in a firm ring made of plastic. These lights are powered by rechargeable battery which is housed in a hard plastic frame connected to the ring.

No. of Pages : 15 No. of Claims : 5

(54) Title of the invention : CUSTOMER PERCEPTIONS OF LIFE INSURANCE PRODUCTS, AS WELL AS THE GROWTH AND DEVELOPMENT OF THE LIC.

<p>(51) International classification :G06Q0040080000, G06Q0040060000, G06Q0020400000, G06Q0040020000, G06Q0040000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street ----- 2)Dr.M.GURUSAMY, 3)DR. VIPIN KUMAR 4)Dr. ILANKADHIR M 5)Dr. Divya Bansal 6)Dr S.PALLAVI 7)Prof.(Dr.) Harish B.Bapat 8)Dr Manoj Kumar Mishra 9)Dr. Harikumar Pallathadka 10)Dr. Arun Kumar Pallathadka 11)Dr.Laxmi Kirana Pallathadka Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.M.GURUSAMY, Address of Applicant :Professor and Head, Department of Management Studies, Brindavan College, Dwarakanagar, Bagalur Main Road, Yelahanka, Bangalore. --- ----- 2)DR. VIPIN KUMAR Address of Applicant :ASSOCIATE PROFESSOR GLOCAL SCHOOL OF BUSINESS & COMMERCE, GLOCAL UNIVERSITY, DELHI-YAMUNOTRI MARG, STATE HIGHWAY-57, MIRZAPUR POLE, 247122, SAHARANPUR , INDIA ----- 3)Dr. ILANKADHIR M Address of Applicant :ASSISTANT PROFESSOR SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai 600119, TAMILNADU, INDIA ----- 4)Dr. Divya Bansal Address of Applicant :Asst Prof. Amity University, Sector 125, Noida 201301, U.P, India ----- 5)Dr S.PALLAVI Address of Applicant :ASSISTANT PROFESSOR ANNAI WOMEN COLLEGE,AUROBINDO NAGER,TNPL ROAD ,PUNNAM CHATRAM ROAD ,KARUR 639136, TAMILNADU, INDIA ----- 6)Prof.(Dr.) Harish B.Bapat Address of Applicant :Professor & Dean Medi-Caps University, Indore 453331.M.P. INDIA ----- 7)Dr Manoj Kumar Mishra Address of Applicant :Professor S R Group of Institutions Jhansi 284002, Uttar Pradesh, India ----- 8)Dr. Harikumar Pallathadka Address of Applicant :Director Manipur International University, Ghari, Imphal, Imphal West, Manipur , India ,795140 ----- 9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West, Manipur, India -795140 ---- ----- 10)Dr.Laxmi Kirana Pallathadka Address of Applicant :Research Officer Manipur International University, Ghari, Imphal, Imphal West, Manipur, India ,795140 -----</p>
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(57) Abstract :
Insurance aims to protect the economic value of an asset in the event of a loss. It's in everyone's nature to save money in anticipation of unforeseen risks or events that may arise in the future. Protection against future risks and uncertainties is a type of savings offered by insurance. In the United States, unemployment has never been higher, and working for far too long periods of time does not provide adequate financial security. Millions of Americans work part-time or independently or earn a meager wage while living in substandard conditions with no protection from harm. The modern right to life therefore incorporates social security, family protection, and economic empowerment for the poor and disadvantaged. As a result, insurance companies were initially well protected during the period of financial turbulence, when asset value declines were predominantly concentrated in lower quality and more risky assets, because their portfolios are broadly diversified and focus on high-quality investments

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045040 A

(19) INDIA

(22) Date of filing of Application :04/10/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF A MULTIPURPOSE MACHINE TO INCREASE THE PRODUCTIVITY OF A MANUFACTURING.

<p>(51) International classification :B23Q0037000000, G06Q0010060000, A44B0018000000, B28D0007020000, B28D0001000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street ----- -----</p> <p>2)Mr. NIYAZ HUSSAIN A M J 3)Dr Rajeev R 4)Mr VIGNESHKUMAR K 5)Ms. Indirani M 6)Ms. MENAKADEVI N Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. NIYAZ HUSSAIN A M J Address of Applicant :Assistant Professor in Information Technology Hindusthan College of Arts and Science, City Campus, Nava India, Avinashi Road, Coimbatore , 641 028, TamilNadu, India. -----</p> <p>2)Dr Rajeev R Address of Applicant :Assistant Professor in Computer Science CMS College Kottayam, (Autonomous), Kerala, India. 686001, Kerala, India -----</p> <p>3)Mr VIGNESHKUMAR K Address of Applicant :PhD research scholar in Computer Science Sri Ramakrishna College of Arts and Science, Nava India Bus Stop, Coimbatore ,641006, Tamilnadu , India -----</p> <p>4)Ms. Indirani M Address of Applicant :Assistant Professor in Information Technology Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore , 641 032, TamilNadu, India. -----</p> <p>5)Ms. MENAKADEVI N Address of Applicant :Assistant Professor in Electronics & Communication Engineering Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore - ,641 032, TamilNadu, India. -----</p>
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(57) Abstract :

This project combines multipurpose machining attachments, such as a sawing, shaping, grinding, and drilling tool, into a single machine. As a result, there is no longer any danger in moving materials from one machine table to the next. The primary goal of a business is to produce useful products and services at low production costs while investing as little as possible in equipment and inventory. Technology advancement has made everything in this world easier and faster, but it has also necessitated significant investments and expenditures. Every industry in the world strives for a high productivity rate while maintaining product quality and standards. To power the proposed multipurpose device, a 1.00 horsepower alternating current motor spins the machine at 1440 revolutions per minute. The motor is connected to the machinery via a belt and pulley system with an overall stroke length of 75mm. Slotting machines have tillable heads that allow them to be positioned on the shaping machine at various angles. The bottom edge of the head is welded to the bottom edge of the slider. When a single machine can perform five machining operations, there is less need for floor space and less time spent moving material between machines. When all of these processes work together, the plant's productivity skyrockets

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : THE IMPACT OF THE INTERNET OF THINGS ON RETAIL TRADE FROM THE PERSPECTIVE OF THE CUSTOMER.

<p>(51) International classification :G06Q0030060000, G06Q0030020000, G06Q0050000000, G06Q0020320000, G09B0019000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Arumugam Ranjith Address of Applicant :32 B Mazhuppan street -----</p> <p>2)Mrs. Priyadarshani Sunil Bedage</p> <p>3)Dr Harrison Sunil D</p> <p>4)Dr. V V Devi Prasad Kotni</p> <p>5)Dr Satish Athawale</p> <p>6)Mr. B.Kalivaraprasad</p> <p>7)Dr. Katta Rajesh Babu</p> <p>8)Mr. BASAVARAJ S MAMMANI</p> <p>9)Dr Manoj Kumar Mishra</p> <p>10)Dr. Arun Kumar Pallathadka</p> <p>11)Dr. Harikumar Pallathadka</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mrs. Priyadarshani Sunil Bedage Address of Applicant :Assistant Professor Sharad Institute of Technology College Of Engineering, Yadrav Ichalkaranji, 416115 , Maharashtra, India -----</p> <p>2)Dr Harrison Sunil D Address of Applicant :Professor; College of Business & Economics, Bole Hora University, Bole Hora, Ethiopia -----</p> <p>3)Dr. V V Devi Prasad Kotni Address of Applicant :Associate Professor GITAM Deemed-to-be University, Visakhapatnam 530045, Andhra Pradesh, India -----</p> <p>4)Dr Satish Athawale Address of Applicant :Assistant Professor Sasmira Institute of Management Worli Mumbai-400030, Maharashtra, India -----</p> <p>5)Mr. B.Kalivaraprasad Address of Applicant :Assistant Professor KL University ,GreenFields, Vaddeswaram, vijayawda.guntur(dt)-522502 Andhra Pradesh 522502, Andhra Pradesh , India -----</p> <p>6)Dr. Katta Rajesh Babu Address of Applicant :Associate Professor, college name with address: KLEF, vaddeswaram, Guntur district 522502, Andhra Pradesh, India E-mail: Mobile No: -</p> <p>7)Mr. BASAVARAJ S MAMMANI Address of Applicant :Assistant Professor Faculty of Business Studies MBA Sharnbasva University Kalaburagi, Karnataka India 585103, India -----</p> <p>8)Dr Manoj Kumar Mishra Address of Applicant :Professor S R Group of Institutions Jhansi 284002, Uttar Pradesh, India -----</p> <p>9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West, Manipur, India ,795140 ----</p> <p>10)Dr. Harikumar Pallathadka Address of Applicant :Director Manipur International University, Ghari, Imphal, Imphal West, Manipur , India ,795140 -----</p>
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(57) Abstract :

Retail business exemplifies the global impact of digital technologies. As with electronic and mobile commerce, IoT is one of the fastest developments in recent history, and it is aimed to transform retail trade from the recognition to post purchase commitment and the point of delivery of facilities. The existing works on the IoT primarily technical in nature, ignoring a customer-centric strategy. This paper abstracts IoT commerce, finds chances for consumers, and connects those opportunities to the consumer procurement process using Activity and Affordance Theories. Based on a thorough review of the literature, 12 affordances are evaluated with a real-world Internet of Things strategies. Because context sensitive facilities, natural connections, and automatic customer procedures are unique to IoT-commerce, all of the benefits of electronic and mobile commerce also apply to IoT-commerce. Understanding IoT-commerce is critical because it has ramifications for the entire customer purchasing process. It should be of interest to all parties involved, including scientists, customers, and businesses

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : A SYSTEM FOR MEDICAL CLOUD DATA CLASSIFICATION FOR IOT AWARE SMART HEALTHCARE

<p>(51) International classification :G06Q0050220000, A61B0005000000, G06K0009620000, H04L0029080000, G16H0050200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Rajib Guhathakurta Address of Applicant :Associate Professor, Sri Venkateswara College of Engineering and Technology, Department of IT, Chittoor, Andhra Pradesh, India - 517127 ----- 2)Rajesh Sen 3)Hamid Abdullah 4)Dr. Manoj Mathew 5)Dr . Anurag Dixit 6)Dr. Sheshang Degadwala 7)Ms. Shipra Ravi Kumar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Rajib Guhathakurta Address of Applicant :Associate Professor, Sri Venkateswara College of Engineering and Technology, Department of IT, Chittoor, Andhra Pradesh, India - 517127 ----- 2)Rajesh Sen Address of Applicant :Assistant Professor, Department of Computer Applications, Jagran Lakecity University, Bhopal, India - 462044 ----- 3)Hamid Abdullah Address of Applicant :Assistant Professor, Department of Hotel Management and Hospitality, Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, Chattisgarh, India ----- 4)Dr. Manoj Mathew Address of Applicant :Department of Social Work, Bharathiar University Coimbatore, Tamil Nadu, India 641046 ----- 5)Dr . Anurag Dixit Address of Applicant :Dean Engineering, University School of Engineering & Technology, Rayat Bahra University, Mohali, Punjab, India - 140104 ----- 6)Dr. Sheshang Degadwala Address of Applicant :Associate Professor , Sigma Institute of Engineering Engineering Block, Sigma Group of Institutes, Ajwa-Nimeta Road, Bakrol, Vadodara,Gujarat, India - 390019 ----- 7)Ms. Shipra Ravi Kumar Address of Applicant :Assistant Professor, CSE Department , JSS Academy of Technical Education, Noida C-20/1, sector-62, Noida, (U. P.) - 201301 -----</p>
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(57) Abstract :
A SYSTEM FOR MEDICAL CLOUD DATA CLASSIFICATION FOR IOT AWARE SMART HEALTHCARE The present invention relates to a system for medical cloud data classification for IOT aware smart healthcare. The system comprising: microprocessors coupled to a non-transitory storage device, wherein the routines performs categorizing medical data of a human body into eight different sections; segregating the each of the section into three subparts; initiating the sensitivity measures to for data isolation; and mapping the division with the concerned storage techniques it outperforms on a large scale to optimize and increase the probability to retrieve the appropriate information in minimum time quantum.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045603 A

(19) INDIA

(22) Date of filing of Application :06/10/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : DIAGNOSTIC METHOD FOR EARLY DETECTION OF XEROSTOMIA AMONG POST MENOPAUSAL WOMEN

(51) International classification :A61K0008370000, G01N0033680000, A61K0031565000, A61K0008340000, A61C0019040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

APPLICANT: SREE BALAJI DENTAL COLLEGE & HOSPITAL TITLE: DIAGNOSTIC METHOD FOR EARLY DETECTION OF XEROSTOMIA AMONG POST MENOPAUSAL WOMEN ABSTRACT The present invention discloses a diagnostic method for early detection of Xerostomia among Post Menopausal Women for guiding Post Menopausal Women With Hormonal Replacement Therapy with evidenced protocol to have proper oral health and systemic health. The diagnostic method of the present invention comprises of collecting salivary sample from a subject and estimating the characterized combination of parameters comprising of Salivary flow rate, pH, salivary buffer capacity, salivary estrogen and oral dryness in which if Salivary flow rate is less than 0.7ml/minute, pH is less than 5, salivary buffer capacity is less than 9 salivary estrogen is less than 1.5 pg/ml and presence of oral dryness indicates higher chance of occurrence of Xerostomia thereby guiding Post Menopausal Women With Hormonal Replacement Therapy with evidenced protocol to have proper oral health and systemic health.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045605 A

(19) INDIA

(22) Date of filing of Application :06/10/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PHARMACEUTICAL FORMULATION EXHIBITING ANTIFUNGAL ACTIVITY AGAINST MULTI DRUG RESISTANCE FUNGI

<p>(51) International classification :A61K0036886000, A61K0036896000, C07H0015244000, A61K0036515000, A61K0009080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SREE BALAJI DENTAL COLLEGE & HOSPITAL Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. T. SARUMATHI Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 ----</p> <p>-----</p> <p>2)DR. K. MAHALAKSHMI Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 ----</p> <p>-----</p>
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(57) Abstract :

APPLICANT: SREE BALAJI DENTAL COLLEGE & HOSPITAL TITLE: PHARMACEUTICAL FORMULATION EXHIBITING ANTIFUNGAL ACTIVITY AGAINST MULTI DRUG RESISTANCE FUNGI ABSTRACT The present invention shall disclose a pharmaceutical formulation exhibiting antifungal activity against multi drug resistance fungi comprises of therapeutically effective amount of aqueous extract of Lagenariasiceraria, aqueous leaf extract of Aloe vera and a pharmaceutically acceptable carrier.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045606 A

(19) INDIA

(22) Date of filing of Application :06/10/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PHARMACEUTICAL FORMULATION EXHIBITING ENHANCED WOUND HEALING ACTIVITY

<p>(51) International classification :A61L0027360000, A61K0035190000, A61K0035160000, A61L0026000000, A61P0017020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SREE BALAJI DENTAL COLLEGE & HOSPITAL Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. B. SARAVANA KUMAR Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 ----</p> <p>-----</p> <p>2)DR. A. JULIUS Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 ----</p> <p>-----</p>
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(57) Abstract :
APPLICANT: SREE BALAJI DENTAL COLLEGE & HOSPITAL TITLE: PHARMACEUTICAL FORMULATION EXHIBITING ENHANCED WOUND HEALING ACTIVITY ABSTRACT The present invention discloses a process of preparation of pharmaceutical formulation exhibiting enhanced wound healing activity thereby improving mouth opening, swelling, bone formation, soft tissue healing and reduction of pain after mandibular third molar impaction surgery. The process of the present invention comprises of following steps: a. isolating Platelet Rich Fibrin from whole venous blood by centrifuging the whole venous blood at 3000 rpm for 10 minutes to form three layers (a) RBC at the bottom, (b) Platelet Rich Fibrin (PRF) clot in middle and (c) upper most layer consisting of platelet poor plasma (PPP) in which the PRF clot in middle is separated b. Characterized in mixing the PRF, along with augmentin and pharmaceutically acceptable carrier to form the pharmaceutical formulation.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045607 A

(19) INDIA

(22) Date of filing of Application :06/10/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM FOR CLASSIFYING THE SEVERITY OF SUSCEPTIBILITY TO PERIODONTAL DISEASES

(51) International classification :A61B0005000000, A61B0005160000, G01N0033680000, G16H0050200000, A61B0005145000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)DR. A. JULIUS

Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 ----

(57) Abstract :

APPLICANT: SREE BALAJI DENTAL COLLEGE & HOSPITAL TITLE: SYSTEM FOR CLASSIFYING THE SEVERITY OF SUSCEPTIBILITY TO PERIODONTAL DISEASES ABSTRACT The present invention discloses a system and method for identifying susceptibility to periodontal diseases employing biomarkers which will account for the environmental and behavioral factors. The system for classifying the severity of susceptibility to periodontal diseases comprises a nitric oxide level analyser, a glucose level estimator, a stress level estimator, and a classifier to rank the severity of susceptibility to periodontal diseases. The method for classifying the severity of susceptibility to periodontal diseases, comprises in vitro estimation of nitric oxide concentration (noc) in a saliva sample, estimating the random blood glucose level (rbs) in a blood sample using a glucose level estimator, estimating a stress level (sl) based on the responses received using a stress audit questionnaire and ranking the severity of susceptibility to periodontal diseases based on the combined values of noc, rbs, and sl.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141045608 A

(19) INDIA

(22) Date of filing of Application :06/10/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM TO ASSESS THE RISK FACTOR OF DEVELOPING POTENTIALLY MALIGNANT ORAL DISORDERS

<p>(51) International classification :G01G0019500000, G01N0033720000, A61B0005000000, A61B0005021000, A24F0047000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SREE BALAJI DENTAL COLLEGE & HOSPITAL Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. T. MANI GANDAN Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 ----</p> <p>-----</p> <p>2)DR. S. KISHORE KUMAR Address of Applicant :SREE BALAJI DENTAL COLLEGE & HOSPITAL, BHARATH UNIVERSITY, NARAYANAPURAM, PALLIKARANAI CHENNAI TAMIL NADU INDIA 600100 ----</p> <p>-----</p>
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(57) Abstract :
APPLICANT: SREE BALAJI DENTAL COLLEGE & HOSPITAL TITLE: A SYSTEM TO ASSESS THE RISK FACTOR OF DEVELOPING POTENTIALLY MALIGNANT ORAL DISORDERS ABSTRACT The present invention discloses a system comprising a BMI recorder, a HbA1C level indicator, a tobacco usage analyser, and a screener to assess the risk factor of developing potentially malignant oral disorders. The BMI recorder receives the weight and height as inputs and records the estimated BMI value. The HbA1C level indicator records the clinically estimated HbA1C value. The tobacco usage analyser uses input parameters given by smoking status (current smoker, ex-smoker and never smoker), forms of tobacco use, number of tobacco usage per day if the patient is current tobacco user, number of years after quitting the habit for past tobacco users. The screener receives input from the BMI recorder, the HbA1C level indicator, the tobacco usage analyser and is configured to estimate a risk level of oral lesion developing into malignancy.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141050439 A

(19) INDIA

(22) Date of filing of Application :03/11/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED EARLY DETECTION SYSTEM FOR INTESTINE CANCER

<p>(51) International classification :G16H0050300000, G06K0009460000, G06T0007110000, G06N0020000000, G16H0050200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Aditya Engineering College Address of Applicant :ADB Road, Aditya Nagar Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>2)Aditya College of Engineering and Technology</p> <p>3)Aditya College of Engineering Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.Rayudu Srinivas Address of Applicant :Professor in CSE & Dear for Statutory Bodies, Aditya Engineering College, ADB Road, Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>2)Dr.P E S N Krishna Prasad Address of Applicant :Professor, Department of CSE, GITAM University, Visakhapatnam-530045, Andhra Pradesh, India. -----</p> <p>3)Dr.Rama Reddy T Address of Applicant :Professor in CSE, Aditya Engineering College, ADB Road, Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>4)Dr.Lalitha R V S Address of Applicant :Professor in CSE, Aditya College of Engineering & Technology, ADB Road, Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>5)Dr.K V S Ramachandra Murthy Address of Applicant :Professor in EEE & Dear R&D, Aditya Engineering College, ADB Road, Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>6)V.Chandra Sekharrao Address of Applicant :Sr.Assistant Professor in CSE, Aditya College of Engineering, ADB Road, Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>7)Shaik Vahida Address of Applicant :Assistant Professor in CSE, Aditya College of Engineering, ADB Road, Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>8)N.Praveen Address of Applicant :Assistant Professor in CSE, Aditya College of Engineering, ADB Road, Surampalem, East Godavari-533437, Andhra Pradesh, India. -----</p> <p>9)Durga Anuja B Address of Applicant :Assistant Professor in CSE, Govt Degree College for Women's, Sri Kalahasti, Chittoor-517644, Andhra Pradesh, India. ----</p>
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(57) Abstract :

ABSTRACT: Title: Artificial Intelligence Based Early Detection System for Intestine Cancer The present disclosure proposes an artificial intelligence based early detection system for intestine cancer. The artificial intelligence based early detection system comprises an input module 102, an image analysis unit 104, a recommendation unit 106, a medical personnel communication unit 108, a medical suggestion correlation unit 110, and a storage unit 112. The proposed artificial intelligence based early detection system provides optimal and accurate medical suggestions based on the detection of the tumour. The proposed efficient artificial intelligence based early detection system provides accurate medical suggestions to patients based on the detected cancerous tumour. The proposed artificial intelligence based early detection system stores patients' information such as the detected cancerous tumour, the generated medical suggestion, and the accurate medical suggestion, which aids in fast response to future patients and saves time.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141050440 A

(19) INDIA

(22) Date of filing of Application :03/11/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ESTIMATING METHOD FOR OPTIMAL PLACEMENT OF DISTRIBUTED GENERATION UNIT

(51) International classification :H02J0003380000, G06F0030390000, G06F0030392000, H02J0003500000, G01R0019250000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: Estimating Method for Optimal Placement of Distributed Generation Unit The present disclosure proposes an estimating method for obtaining an optimal location for placement of distributed generation unit in distributed system. In the proposed estimating method, first, nominal values of active and reactive power are considered for different loads. Next, sensitivity index values are obtained for each load variation and arranged in ascending order. Later, optimal location for placing distributed generation unit is obtained. The proposed estimating method minimizes real power loss and improves voltage profile in the distribution system. The optimal location for placing distributed generation unit found independent of loading level or load variations using the proposed method.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053844 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD AND SYSTEM FOR SELECTING VENDOR ON A DIGITAL PLATFORM

(51) International classification :A63B0069360000, G06F0030340000, C02F0009000000, B60K0035000000, G01R0031318300

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

As attached in PDF

No. of Pages : 24 No. of Claims : 14

(54) Title of the invention : AN INTELLIGENT VISION GADGET FOR VISUALLY HANDICAPPED PEOPLE BASED ON THE IOT

<p>(51) International classification :H04W0004800000, G09F0027000000, A61H0003060000, G06Q0050100000, H04W0004029000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)RAJESH S Address of Applicant :No - 6/7, Pavendhar Street, NGO Nagar, Ponneri - 601204 -----</p> <p>2)Dr. Akhilesh Kumar Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Akhilesh Kumar Singh Address of Applicant :Associate Professor, Department of Mechanical Engineering, Aditya College of Engineering & Technology, Surampalem, East-Godavari District, Andhra Pradesh – 533437. -----</p> <p>2)Mr. I. Manoj Krishna Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Aditya College of Engineering & Technology, Surampalem, East-Godavari District, Andhra Pradesh – 533437. -----</p> <p>3)Dr. Sourabh Shukla Address of Applicant :Assistant Professor, Department of Mechanical Engineering, G. H. Rasoni College of Engineering Nagpur, Maharashtra – 440016. -----</p> <p>4)Dr. Inayat Ullah Address of Applicant :Assistant Professor, Department of Mechanical Engineering, G. H. Rasoni College of Engineering Nagpur, Maharashtra – 440016. -----</p> <p>5)Mr. Jaikishan Pandiri Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Aditya College of Engineering & Technology, Surampalem, East-Godavari District, Andhra Pradesh – 533437. -----</p> <p>6)Mr. Sanjay babu baswa Address of Applicant :Senior Engineer, Krisam automation, Jigani, Bengaluru, Karnataka - 560105. -----</p> <p>7)Mr. Satya Surya Prakash Vinnakota Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Aditya College of Engineering & Technology, Surampalem, East-Godavari District, Andhra Pradesh – 533437. -----</p> <p>8)Mr. S. Rajesh Address of Applicant :Assistant Professor, Department of Mechanical Engineering, R.M.K. Engineering College, Kavaraipettai – 601206. -----</p>
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(57) Abstract :

Because of severe vision impairment, over 40 million individuals globally suffer from the everyday quest of fleeing for their lives. They are seldom fortunate to be able to buy a smart gadget designed to guide them across their surroundings without depleting their financial balances. Keeping this in view, this invention devised a low-cost approach to address this problem. Persons with vision problems no longer have to blow the budget to obtain access. Our intelligent method takes advantage of the mobility and low energy consumption of IoT systems. Whenever these low-energy gadgets are integrated, they can do amazing things. The intelligent gear comprises an ecological guide that maps the environments using ultrasonic sensors and a communication unit that uses satellite information to find the person who wears it, providing live position information to the user's guardians. The information may be examined with the velocity, orientation, and geographical parameters, as well as a graphical presentation, according to the open-sourced Blynk IoT product's GPS integration. Such units assist us in decreasing the price, making it affordable to the majority of persons worldwide. The major goal of this invention is to create a device that emphasizes the most practical aspects while providing more to a commoner utilizing the gadget while minimizing superfluous gimmick.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141055102 A

(19) INDIA

(22) Date of filing of Application :29/11/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : DESIGN OF ECO-ENERGY EFFICIENT ROUTING PROTOCOL TO BUILD GREEN WIRELESS SENSOR NETWORKS

(51) International classification :H04W0084180000, H04W0040100000, G06F0001320300, G08C0017020000, G06N0005040000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA

Filing Date

(62) Divisional to :NA

Application Number :NA

Filing Date

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(57) Abstract :

During these pandemic situations saving the environment from drastic waste produced by man advanced technologies and utilizing eco-friendly things is the primary concern to live a safe, secure, an comfortable life. We are aware that the growth of Wireless Sensor networks is increasing day to day an feel the role it in every emerging technology. Design an Eco-Energy efficient routing protocol based o Global Green Mantra of green computing in Wireless Sensor Networks. This mantra works on 3R: principle, i.e., Reduce, Reuse, and Recycle. This principle can be elaborated in wireless sensor networks t increase the network lifetime and minimum energy consumption using integration of advance technologies like Machine Learning, Fuzzy based Soft computing and Energy Harvesting techniques i every phase of communication respectively in an Eco-friendly manner.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141055560 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : DIAMOND LIKE CARBON FIBRES AND A METHOD THEREOF

(51) International classification :H01J0037320000, C23C0016540000, C23C0016300000, C23C0016260000, C23C0016270000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to diamond like carbon (DLC) fibres and a method thereof. In particular the invention aims to provide diamond like fibres and a method of synthesising the fibres using a substrate through enhanced chemical vapour deposition process.

No. of Pages : 0 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141056032 A

(19) INDIA

(22) Date of filing of Application :03/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PORTABLE RETRACTABLE SHELTER FOR CAR

(51) International classification :B65G0069000000, B60S0005000000, E04H0006020000, E04H0015480000, B21B0031100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
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Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
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Address of Applicant : -----

(57) Abstract :

The titled portable shelter for car as described herein is able to be quickly and easily set up and taken down while still shielding a vehicle from either rain or dust and from sunlight which are the primary destroyers of the automotive paint, body and interiors. The shelter has the four supporting legs fixed with wheels which can be driven to anywhere by manually steering the cabin to any required place. Either the top side canopy is raised or lowered using screw jack fixed on sideways driven by DC geared motor. The top canopy is fixed with the transparent shield to have a clear look of the inside parked vehicle.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141056652 A

(19) INDIA

(22) Date of filing of Application :07/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Punctilious Monitoring of Crop Health and Forewarn Alarm using IoT Mechanism

(51) International classification :H04L0029080000, G01N0033500000, G06Q0050020000, A01K0029000000, G06Q0010060000

(86) International Application No Filing Date :PCT// / :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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4)Mr. Venkatesan K, St. Joseph's College of Engineering, Chennai

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(57) Abstract :

Plant health conditions assume an imperative part to procure great benefit for the farmers. Legitimate observing of plant wellbeing is needed at various phases of plant development to forestall illness influencing plants. Presence of bugs and sickness influence the assessment of harvest development and limits crop yield generously. Internet of Things (IoT) has been applied in numerous spaces of innovation like smart farming, smart home, wearables devices, smart city, smart villages, connected healthcare, connected vehicles, connected drones and different regions. In this work, we are proposing an IoT based framework for checking ecological conditions and furthermore for identifying infections in leaves on the plants.

No. of Pages : 5 No. of Claims : 3

(54) Title of the invention : VIRTUAL DOCTOR TO DETECT THE PATIENT HEART BEAT AND BODY TEMPERATURE MONITORING

(51) International classification :A61B0005000000, A61B0005020500, A61B0005024000, G06Q0050220000, A61B0005010000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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6)Dr Prasanna Mohan
7)Dr. Jagatheesan Alagesan
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(57) Abstract :
 A home-based telemedicine system for monitoring and reporting critical patient physiological data is described. Personal, inexpensive, and portable, the integrated medical device provides many crucial vital sign data for face-to-face contact with certified health care providers, right from the comfort of your home (or wherever you may be traveling) whenever you need it. Patients and healthcare providers may gather, preserve, and monitor data and trends using this system.

(54) Title of the invention : EXPERIMENTAL MEASUREMENTS OF HEAT DISSIPATION DURING LIQUID ATOMIZATION FOR ACOUSTIC DEVICES

<p>(51) International classification :G01N0025720000, B01J0019000000, B05B0017060000, B22F0009080000, H01B0001220000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mrs. R. CHITHRA DEVI Address of Applicant :Assistant Professor Department of Physics N.K.R. Government Arts College for Women Namakkal – 637001 Tamil Nadu -----</p> <p>2)Dr. R. MATHAMMAL 3)Dr. A. BALAMURUGAN 4)Dr. M. BHUVANESWARI Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mrs. R. CHITHRA DEVI Address of Applicant :Assistant Professor Department of Physics N.K.R. Government Arts College for Women Namakkal – 637001 Tamil Nadu -----</p> <p>2)Dr. R. MATHAMMAL Address of Applicant :Associate Professor Department of Physics Sri Sarada College for Women Salem- 636016 Tamil Nadu -----</p> <p>3)Dr. A. BALAMURUGAN Address of Applicant :Assistant Professor Department of Physics Government Arts and Science College Avinashi- 641654 Tamil Nadu -----</p> <p>4)Dr. M. BHUVANESWARI Address of Applicant :Assistant Professor Department of Physics J.J. College of Arts and Science Pudukkottai- 622422 Tamil Nadu -----</p>
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(57) Abstract :

A surface acoustic wave device for continuous water atomization without cracking is proposed. This has important practical significance for commercialization of surface acoustic wave atomizers. This work also describes a method for experimenting thermal distribution during liquid atomization. An infrared camera is used for measuring liquid temperature changes over time during atomization. Effects of device frequency, input power, and liquid viscosity on thermal distribution during surface acoustic wave (SAW) atomization were investigated, both experimentally and through simulation. The relative stability of the free fluid surface during atomization was used for liquids from the reservoir to the substrate surface for continuous atomization. Three different adhesive layer materials were compared for experimental research, namely thermal conductive silicone grease, thermal conductive gel and silver paste. Power amplifier and laser diffraction layer are used in atomizing acoustic devices.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : A SYSTEMATIC APPROACH TO IMPROVE THE RESIN PROPERTY THROUGH CERAMIC COATING

<p>(51) International classification :C23C0016455000, A61L0012140000, G02B0001180000, B08B0017000000, A61K0036060000</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. SIDDESH KUMAR N M Address of Applicant :Mr. SIDDESH KUMAR N M, Assistant Professor, Department of Mechanical Engineering, PES College of Engineering Mandya – 571401, Karnataka siddusiddeshnm@gmail.com 8892261462 -----</p> <p>2)PES College of Engineering</p> <p>3)Mr. RAMESH KURBET</p> <p>4)Mr. HARSHITH KUMAR T S</p> <p>5)Mr. BASAVANNA S</p> <p>6)Mr. SHASHANK T N</p> <p>7)Mr. PRASHANTH NAYAK K S</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. SIDDESH KUMAR N M Address of Applicant :Mr. SIDDESH KUMAR N M, Assistant Professor, Department of Mechanical Engineering, PES College of Engineering Mandya – 571401, Karnataka siddusiddeshnm@gmail.com 8892261462 - -----</p> <p>2)PES College of Engineering Address of Applicant :PES College of Engineering, Mandya -571401, Karnataka -----</p> <p>3)Mr. RAMESH KURBET Address of Applicant :Mr. RAMESH KURBET Assistant Professor Department of Mechanical Engineering PES College of Engineering, Mandya – 571401, Karnataka. -----</p> <p>4)Mr. HARSHITH KUMAR T S Address of Applicant :Mr. HARSHITH KUMAR T S Assistant Professor Department of Mechanical Engineering PES College of Engineering, Mandya - 571401. Karnataka -----</p> <p>5)Mr. BASAVANNA S Address of Applicant :Mr. BASAVANNA S ,Student, Department of Mechanical Engineering, PES College of Engineering, Mandya – 571401, Karnataka -----</p> <p>6)Mr. SHASHANK T N Address of Applicant :Mr. SHASHANK T N Student Department of Industrial Production and Engineering PES College of Engineering, Mandya – 571401, Karnataka -----</p> <p>7)Mr. PRASHANTH NAYAK K S Address of Applicant :Mr. PRASHANTH NAYAK K S Student Department of Mechanical Engineering PES College of Engineering, Mandya – 571401, Karnataka -----</p>
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(57) Abstract :

Through offering self-cleaning, non-stick properties, & disinfection capacities, thin-film nano-coating could address these problems while keeping the benefits of Polymethyl methacrylate (PMMA). This Atomic Layer Deposition (ALD) method was selected for this investigation because that allows us a low-temperature covering procedure that was ideal for low polymers such as PMMA. Furthermore, enhancing surface's moisture content & wear resilience post depositing could significantly limit fungal - Candida albicans adhesion & biofilm development in porosity, extreme surfaces ruggedness acrylic resin substrates that might prefer that connect to hydrophilic surfaces & create a biofilm. ALD-covered TiO₂-PMMA may still preserve the preferred mechanical bending strength of PMMA because of self-reactivity & precise regulation of depositing film density. This breakthrough will make it easier to remove pathogenic elements from prosthetics, lowering the number of microorganisms and their influence on oral and systemic health. Its perspective effect was enormous, given the large rise in the patient's community.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057221 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : DESIGN AND DEVELOPMENT OF AUTONOMOUS UNDERWATER VEHICLE (AUV) WITH LIGHT WEIGHT MATERIAL AND USING

(51) International classification :G06N0003040000, A01G0007040000, A61K0036906600, G06N0003080000, A01G0007000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

India is the one of the country where most of the People are formers. It is necessary to monitor & prevent the diseases attacked variety of plants. Most of the plants having medicine properties. Turmeric plant is one among that. The plant leaves will be affected by some diseases through climate, insects etc. So I our project we used IoT enabled Machine learning technique called modified Convolutional Neural Networks (CNN) to detect and prevent that diseases in order increase the cultivation. The device contains Interconnected Temperature sensor, Humidity sensor, Moisture sensor and water level sensor to monitor the plant's necessary factors. The collected informations are trained by Machine learning technique (CNN) to predict the disease or infection accurately to give the exact remedy for the same.

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : Smart Ceiling Fan Dust Cleaner

(51) International classification :F04D0025080000, F24F0007007000, F04D0029340000, A47L0004000000, A47L0025000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A ceiling fan is considered to be the most common appliances used in industries, schools, colleges, hospitals, etc. The number of ceiling fan count used in these applications is quite large. Dirty fan blades don't move air as efficiently. Also, a ceiling fan that's covered with dust or pollen might also fling the offending particles around the room as it's whirring away. That's why it's important to keep the fan clean, especially if you use it year-round. All these ceiling fans need to be cleaned at regular intervals or at least once each cooling season. The current system involves the hand operated stick with a brush to clean off the dust spread over the fan. So we tried to eliminate this simpler human effort in an effective manner. The proposed idea is something new and we are trying this to be exclusively useful. The main objective of the project is to reduce the human effort and sluggishness of human when the operation is in large scale and to avoid the risk in case of any accidents. The proposed system consists of two brushes attached to the long height adjustable stick. The two brushes are allowed to rotate in opposite direction when the ceiling fan blade is inserted in the gap between the brushes. Also, water can be sprayed to the fan leaf through the sprayer and DC pump motor. All the components such as sensor, pump motor, dc motor attached to the brushes are controlled by the controller. Moreover, as this project proves to be a cost effective one, it can be used in households as well.

No. of Pages : 7 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057323 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE SUPPORTED PORTABLE MILK AND MILK POWDER ADULTERANT DETECTION SYSTEM

(51) International classification :G01N0033040000, H04W0084120000, G05B0015020000, G01N0021350000, G08B0021120000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention herein belongs to an instrumentation system, particularly relates to a milk adulterant, including sodium salicylate, ammonium sulphate, dextrose, hydrogen peroxide presence detection system, more particularly an artificial intelligence and internet of things supported portable milk adulterant detection system, in real-time efficiently, comprises a multi-spectral sensor [102] assembled with a milk sample holder [103], a central microcontroller unit [101], a wireless fidelity (Wi-Fi) module [105] interfaced with said central microcontroller [101], a memory device, [104], a cloud internet server [200], wherein said cloud internet server [200] configured to maintain the historic information and deliver the data to a plurality of remote users using mobile phone devices [300], a display unit [106], and a battery device [107] made the automated portable milk adulterant detection system [100] as a portable instrumentation device. FIGURE 1

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : COMPUTER IMPLEMENTED SYSTEM AND METHOD FOR ENCODING AND DECODING COLOR-CODED FIDUCIAL MARKERS

<p>(51) International classification :G06K0009000000, G06T0007130000, G06T0007246000, A61B0090000000, A61B0006040000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ATAI LABS PRIVATE LIMITED Address of Applicant :Plot No. 89 & 90, H No. 8-2-120, 76/115, Road Number 2, Banjara Hills, Hyderabad, Telangana, 500034, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SIDDARTHA PENDYALA Address of Applicant :#10-1-679, Santhosh Nagar, Beside Santhoshi Matha Temple, Karimnagar, Telangana – 505001, India. -----</p> <p>2)KRISHNA KISHORE ANDHAVARAPU Address of Applicant :Flat no. 302, Nestcon's Zion, Plot no. 104/E HIG, HUDA layout, Nallagandla, Hyderabad – 500019, India. ----</p> <p>-----</p> <p>3)SATISH CHANDRA GUNDA Address of Applicant :51/963-4A1, LIC Colony, Kurnool, Andhra Pradesh – 5118003, India. -----</p> <p>4)KISHOR ARUMILLI Address of Applicant :Apt No. 302, Jyothi Splendor, Plot no. 111, Srinagar Colony, Hyderabad-500073, India. -----</p> <p>5)GANGADHAR GUDE Address of Applicant :Villa No. 57, Myscape Courtyard, Financial District, Nanakramguda, Hyderabad – 500032, India. ---</p> <p>-----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards system for encoding and decoding color-coded fiducial markers, comprising fiducial marker-encoding module configured to encode digits using color-coded fiducial markers and generates color-coded fiducial markers. Color-coded fiducial markers embedded on imaging subject, camera configured to identify motion of imaging subject and captures imaging subject. Camera configured to transmit image frames to first computing device and second computing device over network. Fiducial marker-decoding module configured to receive image frames from camera. Fiducial marker detection module configured to detect presence and location information along with color-coded fiducial markers information from image frames of color-coded fiducial markers using visual object detection technique and machine vision technique. Fiducial marker recognition module configured to detect color-coded fiducial markers from image frames and to recognize sub-makers positioned in color-coded fiducial markers. Digit-generating module configured to decode digits and forms number from sub-makers positioned in color-coded fiducial markers. FIG. 3.

No. of Pages : 48 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057590 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : APPARATUS FOR CRYSTAL GROWTH IN VACUUM AND A METHOD THEREOF

(51) International classification :C30B0023000000, C30B0023020000, C30B0035000000, C30B0007000000, C30B0007100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a novel apparatus for crystal growth process in vacuum without any vibrations. This vacuum method crystal growth arrangement comprises of a Bottle type container (101) and a specially designed beaker (102) for growing the crystals in an airtight manner. Inlet and outlet valves are attached with the bottle type container (101), connected to a vacuum pump so as to completely evacuate the air. This type of crystal growth controls the temperature fluctuations in order to ensure growth of a good quality single crystal. This growth setup is compact and portable. Also, it is user friendly and safe for the users as there is no need to search for any vibration free stands for placing this vacuum method setup.

No. of Pages : 20 No. of Claims : 5

(54) Title of the invention : SYSTEM AND METHOD FOR MODELLING MOLECULAR DOCKING TO GENERATE BETTER DOCKING SCORES USING DEEP LEARNING

<p>(51) International classification :G16C0020300000, G16B0015000000, G16B0005000000, G16B0035000000, G16C0020500000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ----- 2)DR.NILESH V. GANDHARE 3)SUDHIR KUMAR 4)DR.GAURAV KUMAR 5)DR.ARADHANA DUTT JAUHARI 6)DR.BHANU PRATAP SINGH 7)DR.MANOJ D. SHANTI 8)BRAHMA NAND AGRAWAL 9)DR.KRISHNA TOMAR Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ----- 2)DR.NILESH V. GANDHARE Address of Applicant :Department of Chemistry, Nabira Mahavidyalaya, Katol, Dist-Nagpur, Maharashtra, India 440013 ----- 3)SUDHIR KUMAR Address of Applicant :Advanced Technology company, KSCP, ATC Tower Salmiya Salem Al Mubarak St Block 4, Street 1 opposite Layla Tower Salmiya 32060, Kuwait ----- 4)DR.GAURAV KUMAR Address of Applicant :School of Basic and Applied Sciences, Galgotias University, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh 203201, India ----- 5)DR.ARADHANA DUTT JAUHARI Address of Applicant :Department of Mathematics, School of Basic and Applied Sciences, Galgotias University, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh 203201, India ----- - 6)DR.BHANU PRATAP SINGH Address of Applicant :Department of Mathematics, School of Basic and Applied Sciences, Galgotias University, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh 203201, India ----- - 7)DR.MANOJ D. SHANTI Address of Applicant :Department of Chemistry, School of Basic and Applied Sciences, Galgotias University, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh 203201, India ----- - 8)BRAHMA NAND AGRAWAL Address of Applicant :Department of Mechanical Engineering, School of Engineering, Galgotias University, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh 203201, India ----- - 9)DR.KRISHNA TOMAR Address of Applicant :Assistant Professor, RMIT University, Delhi-Jalandhar GT Road (NH1), Sirhind Side, Mandi Gobindgarh, Punjab 147301 -----</p>
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(57) Abstract :

Molecular Docking is a strategy to examine the conformation and orientation to binding site of a specific macromolecule. Recent years have seen a huge adoption of docking techniques both in academic and industrial arenas due to its accuracy and reduced cost. Proposed is a Deep Learning based Molecular Docking system to yield better docking scores. The system uses Quantitative Structure Activity Relationship for systematically eliminating the non-favorable molecules during the iterations of docking. Initially a small set of molecules are docked from which the validation set, training set and test data sets of molecular samples are extracted. These data sets are used for predicting the docking patterns in the large database in Bigdata. Further, the database is reduced and subject to random sampling. An improved docking model is generated by training the small sample of molecules. Based on the improved model, effective prediction is done on Bigdata using Quantitative Structure Activity Relationship Descriptors. After database reduction, the virtual hit counts are updated and are subject to random sampling until high docking scores are generated.

No. of Pages : 15 No. of Claims : 3

(54) Title of the invention : AN IOT COVID PATIENT HEALTH MONITORING SYSTEM

<p>(51) International classification :G06Q0050220000, G08B0013196000, A61B0005110000, G08B0025000000, G08B0019000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr N Umapathi Address of Applicant :28, Melkathirpur (Village and Post), Kanchipuram (Dist and T.K) Kanchipuram 631502 ----- ----- 2)Lingala Srinivas 3)Md Arif Ali 4)Md Asif Ali Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr N Umapathi Address of Applicant :28, Melkathirpur (Village and Post), Kanchipuram (Dist and T.K) Kanchipuram 631502 ----- ----- 2)Lingala Srinivas Address of Applicant :HNO 4-355/1 BC Colony, Gangadhara X Road, Gangadhara (Mandal) Karimnagar (Dist.), 505445 ----- ----- 3)Md Arif Ali Address of Applicant :H.NO: 5-3-277, Mominpura Village and mandal, Korutla, Jagtial, Telangana - 505326 ----- ----- 4)Md Asif Ali Address of Applicant :H.NO: 5-3-277, Mominpura Village and mandal, Korutla Jagtial, Telangana - 505326 -----</p>
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(57) Abstract :

] We propose a system with functionalities that are of some use for pre- diagnosis and that for that it does monitoring in real time, generating alerts as soon as it detects situations that deserve attention in Covid patients. These first features are chosen because they can be a fundamental help in medical emergencies. This help can be given to emergency teams through portals, medical servers and healthcare databases. These portals could play vital roles in creating much more complete medical records. The system will be able to instantly request health services from the authorized parties, or only alert the situation to one or more people in charge of that responsibility. The system has the following objectives: • This system brings security to the user. This will know that even being alone, the system will alert to an abnormal situation. • The person who has someone under their responsibility, who needs some monitoring or surveillance, will be more relaxed, as they will be alerted to an abnormal situation. This is valid even in situations where both are close, but the attention of the responsible person may not temporarily be necessary and the user is not able to, or does not have time to ask for help at that time. • Someone who has several people in charge, for example, nursing homes, day care centers, clinics, etc., can simultaneously monitor people with tables where this system is useful. • Especially in periods when there are fewer people responsible in these places, for example, during night periods, the system may even alert those responsible who are on guard. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7]

No. of Pages : 23 No. of Claims : 8

(54) Title of the invention : AN INTELLIGENT VIRTUAL REALITY HEADSET FOR REDUCING STRESS OF COVID PATIENT

<p>(51) International classification :A61B0005000000, A61B0005160000, G16H0050300000, G16H0050200000, A61B0005053000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. K. BALA Address of Applicant :Professor, Department of Computer Science and Engineering, School of Computing, Bharath Institute of Higher Education and Research, 173, Agharam Road, Selaiyur, Chennai – 600073, Tamil Nadu, India. Ph: 7395980416 E-Mail: bala.dharshinipb@gmail.com -----</p> <p>2)Dr. S. RAJASOMASHEKAR 3)Dr. J. PARAMESH 4)Dr. K. KALAIVANI 5)Dr. A. ASOKAN 6)Mrs. K.V. KANIMOZHI Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. K. BALA Address of Applicant :Professor, Department of Computer Science and Engineering, School of Computing, Bharath Institute of Higher Education and Research, 173, Agharam Road, Selaiyur, Chennai – 600073, Tamil Nadu, India. Ph: 7395980416 E-Mail: bala.dharshinipb@gmail.com -----</p> <p>2)Dr. S. RAJASOMASHEKAR Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Government College of Engineering, Sengipatti, Thanjavur, Tamilnadu, India. Ph: 9345510460 E-Mail: rajasomashekar@yahoo.in -----</p> <p>3)Dr. J. PARAMESH Address of Applicant :Professor, Department of Computer Science and Engineering, School of Computing, Bharath Institute of Higher Education and Research, 173, Agharam Road, Selaiyur, Chennai – 600073, Tamil Nadu, India. Ph: 8220395412 E-Mail: parameshphd2011@gmail.com -----</p> <p>4)Dr. K. KALAIVANI Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai. Ph: 9952218448 E-Mail: kalai.se@velsuniv.ac.in -----</p> <p>5)Dr. A. ASOKAN Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Government College of Engineering, Sengipatti, Thanjavur, Tamilnadu, India. Ph: 9150376648 E-Mail: asokan2k7@gmail.com ----</p> <p>6)Mrs. K.V. KANIMOZHI Address of Applicant :Assistant Professor (SG), Department of Computer Science and Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, India. Ph: 7002479157 E-Mail: kani.kalai4@gmail.com -----</p>
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(57) Abstract :

The expansion of COVID-19 beyond the formally linked health groups is notable. It had a major impact on the public's mental health. Patients who have been diagnosed with COVID-19 infection may experience a variety of psychological effects. In addition, epidemiological data on COVID-19-infected people with mental health and psychological disorders. In today's world, stress has become a prominent cause of many diseases. It's a rising problem that's become an inextricable element of our lives. Early identification will reduce the expense of the injury and prevent it from becoming chronic. It's critical to manage and reduce stress during the Coronavirus (COVID-19). This innovation suggests a Virtual Headset for COVID patients to reduce stress. ECG sensor for monitoring electrical activity produced by the heart, EEG sensor for measuring electrical activity in the cerebral cortex, and EDA sensor for stress reaction with a novel multi-path sensor are all included in the VR headset. It detects minute electrical changes on our skin known as electrodermal activity (EDA) responses, which are used by the controller to interact with the game of their choice. These sensors' data is processed via cloud storage, and the VR headgear will automatically calm the patient based on their stress level. It will help the patient's health and possibly save their life.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057652 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Coin Counting Machine using Deep Learning based Image Processing

<p>(51) International classification :G07D0005000000, G06N0003080000, G07F0017000000, G02B0003000000, G07D0009000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. P Chinnasamy Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>2)Dr. P Deepalakshmi Address of Applicant :Dean, School of Computing, Kalasalingam Academy of Research and Education, Srivilliputtur -----</p> <p>3)Dr. K Srinivas Rao Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>4)Dr. E Anupriya Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>5)Mrs. K Pushpa Rani Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>6)Mrs. N Thulasi Chitra Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>7)Mrs. T.Raja Rajeswari Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>8)Dr. V Praveena Address of Applicant :Department of Computer Science and Engineering, Dr.N.G.P. Institute of Technology, Coimbatore -----</p>
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(57) Abstract :

The present invention relates to the counting machines for temple coins. More specifically, the present invention relates to the principles of deep learning based on image processing, which are used to identify different coin denominations using multiple coin features such as shape, volume, color, engravings, etc. and segregating them into respective tray or bag. The purpose of the invention is to replace the commonly used human-assisted or weight-based count in several countries. In countries where coin denominations differ in terms of form and weight requiring advanced methods to do so, existing methods are non-viable.

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : METHOD FOR SECURE BLOCKCHAIN TRANSACTION USING HOMOMORPHIC SERPENT CRYPTOGRAPHY ALGORITHM

<p>(51) International classification :H04L0009320000, H04L0029060000, H04L0009000000, H04L0029080000, G06Q0020380000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Sk.Khaja Shareef Address of Applicant :Department of Information Technology, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad ----- 2)Dr. R Sridevi Address of Applicant :, Department of Computer Science and Engineering, JNTUH College Of Engineering Hyderabad ----- 3)Dr. V Rama Raju Address of Applicant :Department of Computer Science and Engineering, CMR College of Engineering & Technology Kandlakoya(v), Medchal Road, Hyderabad ----- 4)Dr. Koppula Srinivas Rao Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad ----- 5)Dr. Nagireddy Venkata Rajasekhar Reddy Address of Applicant :Department of Information Technology, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad ----- 6)Dr. Allam Balaram Address of Applicant :Department of Information Technology, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad ----- 7)Mrs. Jeethu Philip Address of Applicant :Department of Information Technology, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad ----- 8)Mrs. Shruti Patil Address of Applicant :Department of Information Technology, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p>
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(57) Abstract :

In the modern era, blockchain technology has essentially functioned in diverse facilities ranging from online applications like payment transactions, data transactions, healthcare information sharing, supply chain tracking, etc. By extending the blockchain technology to the internet of things (IoT) level, the research can attain a verifiable and traceable IoT framework. The research is developed for online applications to exploit the blockchain concept in recording large data transactions. During the transaction, privacy protection is an important concern for securing the data in the cloud database. For this reason, numerous cryptographic algorithms were developed to end this issue. Therefore, in this research, a novel Homomorphic Serpent Blockchain (HSB) algorithm is developed to secure online transactions while avoiding security threats. Moreover, the proposed blockchain algorithm is executed with the help of the Python platform. Consequently, the performance of the proposed algorithm is compared with conventional techniques and attained the finest outcomes with high accuracy and less time duration.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057654 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PET FEEDER AUTOMATION USING RASPBERRY PI BASED ON INTERNET OF THINGS

(51) International classification :A01K0005020000, A01K0005010000, G16H0040630000, A01K0015020000, A01K0007020000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 Household pets need special treatment and care. They need to be attended to as at when due with food, drinks, and medication. Due to busy life style of most owners, this task may not be as simple as expected. Lack of adequate attention to pets' needs might have great consequential effects, such as starvation, ill health, among others. In view of the foregoing, this work proposes an Internet of Things based automated feeder system that uses Raspberry pi to drive its remote control, scheduling and intelligence. Its design and subsequent implementation is expected to, at least, take care of the nutritional aspects of pets by providing as either scheduled or intelligently the food, drinks and medication of pets as at when due in the absence of the owner. Thus, this work aims to automate the monitoring and feeding process that is usually done manually by pet owners. To achieve the foregoing, the proposed system uses a food dispenser that is connected to a microcomputer which is programmed to control the feeder as scheduled, remotely or intelligently. Thus, allowing the user to have full control over the time a pet is fed and the amount of food consumed by the pet. The feeder can be controlled through a secure web application hosted on a local server and through advance scheduling. The results of the evaluation show that the design is viable and that the prototype automatic feeder system worked as designed. 4 Claims & 1 Figure

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057655 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD FOR PRIVACY ENRICHMENT FRAMEWORK FOR E-HEALTH CARE SYSTEM

(51) International classification :H04L0029080000, G16H0010600000, H04L0029060000, G06N0020000000, G16H0050200000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 For human life progression easily, feasible capability is offered by the Internet-of-Things (IoT) which is combined with the Network technology and hardware remarkable progression. Along with some smart environments like smart homes, smart city, smart agriculture, there is another field of high reliability of IoT in e-healthcare systems for real time diagnosis and medical consultancy. Smart medical healthcare system architecture is proposed in this paper to increase the privacy based on medical internet of things (MIoT). According to open source of project, within the IoT environment electronic medical healthcare system is developed. The gap in between the digital and physical world is bridged by the Internet of Things (IoT) which enables the computers and users for providing the communication among sensors, actuators and other objects. Furthermore, diverse challenges are rising with these developments in preserving user privacy and it needs some extent of management of security and privacy issues. Sensitive health records storing and recovering from cloud is called as Electronic Medical Records (EMRs) which requires the harsh privacy concern for particularly patient's identity. Therefore, this invention deals the framework of e-healthcare monitoring to effective management of EMR with more privacy concern. The anticipated model is effectual in offering privacy with standard IoT parameters. 5 Claims & 1 Figure

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057656 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD FOR SECURING PRIVACY IN DATA MINING

(51) International classification :G06F0021620000, H04L0029060000, G06F0021600000, H04W0012020000, H04L0009000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 These days, more data is collected and processed due to better storage and processing technology. Data mining tools help us make sense of enormous data. Data mining may reveal private data to an unknown third party. This data leak may violate privacy. Individual users may withhold data owing to privacy concerns. Thus flawed analysis. Data mining demands precise input. Sensitive user data privacy must be respected. In this issue, we introduce Privacy-Preserving Data Mining (PPDM). In order to preserve personal data, privacy-preserving data mining uses large aggregate results. In order to protect an individual's sensitive data, data perturbation, randomization, and anonymization are widely used techniques. A novel privacy-preserving data mining architecture is built using three approaches. The GNDP C technique protects personal data. Individual sensitive information is retained by adding some noise (Gaussian Noise) to the original data. GDP RS secures sensitive data via random swapping. So, this GDP RS approach works for both categorical and numerical data. Finally, an OABE strategy for protecting huge data privacy is defined. PFCM (Probabilistic Fuzzy C-Means) grouped the input data initially. The clustered data is then sent to map-reduce. The suggested OABE approach uses a rider optimization algorithm to validate privacy and data correctness. 3 Claims & 1 Figure

No. of Pages : 6 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057657 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SMART GAS LEAKAGE AND USAGE DETECTION SYSTEM

(51) International classification :G01M0003220000, G08B0021160000, G01M0003040000, G01M0003200000, F24C0003120000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Gas leakage is a serious issue in the manufacturing industry, as well as in residential neighborhoods. Because of the rising number of gas leaks, smart home is becoming a serious concern. With ateliers, residential areas, or automobiles such as liquefied petroleum gas, busses, and trucks which function on gas power, gas leakage is a major concern. Installing a gas leakage detecting kit in hazardous areas has been one of the strategies is consistent for preventing accidents caused by gas leaks. The purpose of this invention is to present and analyze a design for a gas leakage detection mechanism that really can recognize, alarm, and manage gas leaks instantly. 4 claims & 1 Figure

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057658 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SMART WHEEL CHAIR

(51) International classification :A61B0005000000, A61B0005024000, A61B0005020500, G06Q0050220000, A61G0005100000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 People suffering from certain permanent disabilities due to accidents, paralysis or old age often depend on others for help with respect to movement. Providing an access to the remote health services using a health monitoring system enhances their independence, since their health is regularly recorded and monitored by the doctor without any efforts. By accessing the services online, they can directly communicate with their doctors only in case of an emergency. Since disabled patients cannot afford to travel, smart healthcare systems help them gain access to healthcare systems. A possible solution to monitor their health status is by developing a health monitoring system based on a smart wheelchair since it is adequate for a wider range of audiences and it does not require a lot of maintenance unlike the wearable systems. Smart wheelchairs not only focus on the mobility of the device but also on health monitoring of the patient. The objective of the present invention is to develop a smart sensing wheelchair by implementing sensors within its structures. The technology adopted is Internet of Things wherein the heart rate and blood oxygen levels are detected by sensors, processed by embedded systems and sent to the cloud that initiates a trigger in case of any abnormality. 3 claims & 1 Figure

No. of Pages : 5 No. of Claims : 3

(54) Title of the invention : METHOD FOR IDENTIFYING CONFIDENTIAL DATA USING UNSUPERVISED MACHINE LEARNING IN DATA LEAKAGE PREVENTION

<p>(51) International classification :H04L0029060000, G06F0021600000, G06F0021620000, G06F0021550000, G06F0016330000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. P. Subhashini Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad ----- 2)Dr. K Srinivas Rao Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad ----- 3)Dr. P Chinnasamy Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad ----- 4)Dr. A Kiran Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad ----- 5)Mr. Kashi Sai Prasad Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad ----- 6)Mrs. Soleti Navya Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad ----- 7)Ms. N Sandhya Rani Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad ----- 8)Mrs. Appam Ashwini Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p>
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(57) Abstract :

In today's business world, many organizations use information systems to manage their confidential information. The need to protect confidential information of the organization is very critical. Data leakage threat has become an important issue especially data leakage caused by insiders in the organizations. Data Leakage Prevention (DLP) is one of the methods for effectively preventing data leakages. Data leakage prevention system (DLP) is a system, stops transfer of confidential data from organization's network to outside world. DLP solutions must be able to identify and protect confidential data within organization. Content-aware DLP is one of the DLP solution can read all the data contained within the file, identify confidential data and provide protection to the organizations data. Content-aware DLP solutions with context information properly classify confidential data and provide more protection to the organization data. The proposed invention prevents data leakages caused by insiders of the organization using context of the content. The existing data leakage prevention methods, Keyword based, Phrase based and Statistical methods identifies the confidentiality of the document based on specific keywords, phrases or statistical values. The keyword, phrase based methods ignore the context of the keyword while statistical methods ignore the content of the analyzed text. 5 claims & 1 Figure

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : SYSTEM/METHOD FOR SECURE CLOUD STORAGE USING HYBRID CRYPTOGRAPHY

(51) International classification :H04L0029080000, G06F0021620000, H04L0009060000, G06F0021600000, H04L0009080000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :
 People nowadays repeatedly brought sensitive information in the cloud storage. When it comes to maintaining data on the cloud for IoT applications, security is a huge concern. Cryptography methods are highly beneficial for enforcing data security. A hybrid cryptographic strategy is addressed in this invention to provide improved security for data maintained on cloud storage. The presented invention incorporates the IKGRSA and enhanced AES algorithms to offer a hybrid of the two algorithms for data protection before it could be uploaded to the cloud. It has been confirmed that the proposed invention offers enhanced data security and privacy for recent IoT applications. 5 claims & 1 Figure

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : SYSTEM FOR BIG DATA SECURITY IN DISTRIBUTED ENVIRONMENT USING CRYPTOGRAPHIC BASED MODEL

<p>(51) International classification :H04L0009000000, H04L0009060000, H04L0009080000, H04L0009300000, G09C0001000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. N Sirisha Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>2)Dr. K.V.D. Kiran Address of Applicant :Department of Computer Science and Engineering, K L University, Vaddeswaram, Vijayawada -----</p> <p>3)Mrs. K Pushpa Rani Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>4)Mrs. N Thulasi Chitra Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>5)Mrs. T Raja Rajeswari Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>6)Dr. P Chinnasamy Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>7)Mr. Srinivasulu Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>8)Ms. B Lakshmi Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p>
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(57) Abstract :
 Big data has different forms of data such as structured, unstructured and semi-structured. Structured format is most widely used for real word enterprises due to its support in cloud. Towards search and data dynamics on outsourced data, Homomorphic Encryption (HE) became a typical solution. However, it needs further optimization for seamless search and data dynamics operations. Towards this end, a data encryption scheme is proposed namely Flexible and Efficient Encryption (FEE) is proposed. FEE is based on HE and gets its inherent benefits. Without the need for decryption, the FEE algorithm supports efficient search cryptographic operations leading to improved performance and flexibility in managing relational and non-relational data. With MySQL and MongoDB in Jelastic cloud environment, the FEE is evaluated and found to be better than baseline algorithms. In addition to this, in the context of emerging Internet of Things (IoT) use cases, it is found that there is need for a security scheme that not only presents data leakage or theft but also makes the mechanisms lightweight so as to benefit the system in the long run. 4 claims & 1 Figure

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : Smart Electric Vehicle Manufacturing Process Using Deep Learning concept

(51) International classification :H02J0007000000, B60L0053660000, B60L0053140000, B60L0053630000, H02J0003000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

Because it avoids overcharging of the distribution system, improves energy quality, and decreases voltage fluctuations, EV charging coordination increases overall grid efficiency. In addition, flattening the load profile is facilitated by synchronized charging. Thus, a well-functioning coordination system is vital for the safety of all of the distribution grid components. With deep learning, the substantial quantity of energy consumed when charging electric vehicles has inevitable negative repercussions for the power infrastructure. A coordinated approach to EV charging is also urgently required, given the anticipated growth in the number of EV fast chargers due to the increasing popularity of electric vehicles.

No. of Pages : 20 No. of Claims : 5

(54) Title of the invention : Strategic management of electronic trade

(51) International classification :G06Q0030060000, G06Q0030020000, A63B0021000000, G06Q0010060000, G06F0016958000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 [034] Based on the analysis of the market segment, design and develop a suitable e-commerce strategy. This strategy will be based on the needs and requirements of companies that have an online store, but also those that are just about to build an online store. The strategy will focus on combining customer requirements with the possibilities of companies. The already mentioned e-commerce will be the intermediary.

No. of Pages : 27 No. of Claims : 3

(54) Title of the invention : SIX SIGMA FOR EFFECTIVE TEACHING

(51) International classification :H01S0005200000, G09B0019040000, G09B0017000000, C12N0005078000, B29K0023000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Although many factors affect student performance, much liability lays with the teaching efficiency. Typically more emphasis is laid on content gathering on latest technologies leaving unaddressed the focal point i.e. effective teaching. Believing that content matters more than teaching skills is to believe that the car is more important than the road. Nevertheless both are crucial for the success of the student. 3 claims & 1 Figure

No. of Pages : 6 No. of Claims : 3

(54) Title of the invention : SYSTEM/METHOD TO SECURE THE DATA COLLECTED BY SENSORS

(51) International classification :H04L0029060000, G06F0021620000, G06N0005000000, H04M0003000000, H04L0009320000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Earlier there were many encryption algorithms that were used in order to control the theft of data. The data from the sensor will get transmitted to the application and there the data will get encrypted with some encryption algorithms, then used to get stored in the database. The security will be provided at two different stages, the first is the data that is getting generated at the sensors and the second is the analysis of the data that is getting generated. The data that is been generated at the sensors end will be redirected to analysis phase and with the result, we are going to perform prediction techniques. The main motive is to provide security to the data when the data is already under transmission phase. We don't require any encryption techniques after the data reaches the database. The encryption technique will be performed only when the data is in transfer mode itself, but not after the data gets transferred to the database. Attacking on the data can be performed while the data is getting transmitted by using some methods like man-in-the-middle attack. We are going to address the second attack which is being performed at the time of data transfer. 3 claims & 1 Figure

No. of Pages : 6 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057683 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD FOR PREDICTING GENE BASED PERIODIC DISEASES IN REMOTE AREAS

<p>(51) International classification :G06Q0050220000, G06N0020000000, A61K0036481000, H04L0029080000, G16H0050200000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. B. Madhuravani Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>2)Dr. D.S.R Murthy Address of Applicant :Department of Computer Science and Engineering, Anurag University, Venkatapur, Ghatkesar, Medchal–Malkajgiri district, Hyderabad -----</p> <p>3)Mr. K. Sai Prasad Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>4)Mr. Jagadam Vijay Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>5)Mr. P. Srinivas Reddy Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>6)Mr. P. Upendar Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>7)Mr. B. Srinivasulu Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>8)Mr. Atluri Srujan Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p>
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(57) Abstract :

The invention pertains to the design and implementation quantum integrity and encryption based IOT framework for predicting gene based periodic diseases in remote areas using distributed parallel machine learning models. It is a worldwide pattern of populace and quick improvement of Internet of Things (IoT) innovation drives the illness expectation in country medical care finding. IoT innovation in medical services application gives incredible data by gathering and discussing information with distant clinical data sets. The Internet of Things (IoT) is an aggregate term for some conveyed organizations of processors, sensors and frameworks associated with the web. Rustic medical care applications for the IoT might conceivably convey quality patient consideration through the trend setting innovation. An IoT can possibly precisely screen patients, supplies or even help medicine and examine the information caught in the circulated figuring. With rustic patients joined to the IoT gadget to detect crucial signs and illnesses could be all the more quickly analyzed in a got way. As the information size in the country regions are huge, it is hard to anticipate the human infection dependent on quality kind and predefined illness designs. Likewise, the majority of the Hadoop structure on huge clinical datasets has prompted an expanded revenue in fostering a steady AI procedures utilizing got IoT WSN innovation. 3 claims & 4 Figures

No. of Pages : 12 No. of Claims : 3

(54) Title of the invention : METHOD FOR SYNTHESIZING BROMODIMETHYLSILYLBISTRIMETHYLSILYLMETHANE

(51) International classification :C07F0017000000, C07D0213530000, C07F0013000000, G01N0027120000, G01R0033360000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

(Bromodimethylsilyl)bis (trimethyl silyl) methane, [(Me₃Si)₂ Me₂SiBr)CH], is a moisture sensitive compound that has been synthesised by the bromination of hydride, [(Me₃Si)₂(Me₂SiH)CH] in CCl₄ in good yield. It has been characterised by multinuclear NMR and a single crystal X-ray diffraction study. Treatment of [(Me₃Si)₂ Me₂SiBr CH] with NaSePh (obtained from the sodium triethylborohydride reduction of diphenyldiselenide) in benzene at room temperature resulted in the isolation of light yellow oil, [(phenylselenatodimethylsilyl)bis(trimethylsilyl)methane], [(Me₃Si)₂(Me₂SiSePh)CH] that has been characterised by elemental analysis, mass and multinuclear NMR studies. 3 claims & 2 figures

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057685 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM FOR MONITORING COVID CONTACT TRACING USING DEEP LEARNING

(51) International classification :G16H0050800000, G01N0033569000, A61K0047320000, H04W0040200000, A61K0009060000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

For densely populated international locations it's miles difficult to prevent the spread of recent infections which will spread at quicker rates. To prevent the spread which are at faster rate of spreading this contact tracing is used by local authorities and health authorities. It's one of the locally focused methods, which works effectively when there are small number of cases. The correct usage of the contact tracing models can find the pathways of the infected person and the network of connection to whom he met during the infection. Emerging or re-emerging infectious diseases, such as SARS, Ebola, Lassa fever, tuberculosis, and, most recently, COVID-19, necessitate extremely effective methods and strategies for prevention. The utility of touch tracing is investigated using nearest neighbour approaches and absolute deterministic simulation and a method was proposed in our invention to monitor COVID contact tracing using deep learning 4 claims & 1 figure

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057686 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : FIXTURE FOR WELDING THIN FOIL VIA GAS TUNGSTEN ARC WELDING

<p>(51) International classification :B23K0009095000, B23K0009167000, B23K0035220000, B23K0009000000, B23K0009090000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Harikishor Kumar Address of Applicant :Department of Mechanical Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>2)Dr. Rabindra Prasad Address of Applicant :Research Scholars, Department of Mechanical Engineering, IIT (BHU), Varanasi -----</p> <p>3)Dr. Parshant Kumar Address of Applicant :Research Scholars, Department of Mechanical Engineering, IIT (BHU), Varanasi -----</p> <p>4)Dr. Manish Deo Address of Applicant :Research Scholars, Department of Mechanical Engineering, IIT (BHU), Varanasi -----</p> <p>5)Dr. Lokasani Bhanuprakash Address of Applicant :Department of Mechanical Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>6)Mr. A Ravindra Address of Applicant :Department of Mechanical Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>7)Dr. Pramod Kumar Peyyala Address of Applicant :Department of Mechanical Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p> <p>8)Prof. M Venkateswar Reddy Address of Applicant :Department of Mechanical Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal – 500 043, Medchal–District, Hyderabad -----</p>
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(57) Abstract :

The increasing commercial interest in flat welding as well as edge welding of the thin foil for electronic devices and bellows members has made it necessary to look for less complicated and less expensive techniques through which good weld quality can be obtained. The welding of thin foils can be accomplished through less complicated and less expensive welding processes and hence is suitable for commercial practices. The electrically operated arc welding processes like gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), shielded metal arc welding (SMAW) and submersible arc welding (SAW) are those kinds of processes. In all of the above-mentioned welding processes GTAW possess special attention because of cost effectiveness, shop floor friendliness and control over weld and hence has wide application in fabrication and service repairing of mechanical parts to produce clean, precise and high-quality joints. However, the problems like distortion, slower welding speed and porosity generally encountered due to high heat input and lower arc penetration especially in the case of thin foil limits its application. So, welding of thin foil needs special attention particularly to proper shielding, tools which ensure full protection to shield initial weld pool, weld and nearby base metal from contamination. A method and apparatus were developed for welding of thin foil using a specially designed fixture to ensure quality products with minimal distortion. The fixture consists of a back purging device and holding parts for the thin foil which is to be welded. 6 claims & 2 Figures

No. of Pages : 7 No. of Claims : 6

(54) Title of the invention : CONVERSATION ENGINE FOR DEAF AND DUMB

<p>(51) International classification :G06F0003010000, G09B0021000000, G06K0009620000, G06K0009000000, G09B0021040000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Para Upendar Address of Applicant :Department of Computer Science, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>2)Dr. P Madhuravani Address of Applicant :Department of Computer Science, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>3)Mr. A Srujan Address of Applicant :Department of Computer Science, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>4)Mr. P Srinivas Reddy Address of Applicant :Department of Computer Science, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>5)Mr. B Srinivasulu Address of Applicant :Department of Computer Science, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>6)Mr. D Venkata Ravi Kumar Address of Applicant :Department of Computer Science, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>7)Mrs. G Lavanya Address of Applicant :Department of Computer Science, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>8)Mr. K. Sai Prasad Address of Applicant :Department of Computer Science, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p>
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(57) Abstract :
 Lot of people who have many disabilities in our world out of that people who are deaf and dumb cannot convey their messages to the normal people. Conversation becomes very difficult for this people. Deaf people cannot understand and hear what normal people is going to convey, similarly dumb people need to convey their message using sign languages where normal people cannot understand unless he/she knows or understands the sign language. This brings to a need of an application which can be useful for having conversation between deaf, dumb and normal people. Here we are using hand gestures of Indian sign language (ISL) which contain all the alphabets and 0-9digit gestures. The dataset of alphabets and digits is created by us. After dataset building, we extracted the features using bag-of-words and image preprocessing. With the feature extraction, histograms are been generated which maps alphabets to images. Finally, these features are fed to the supervised machine learning model to predict the gesture/sign. 4 claims & 1 figure

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057688 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD TO DETERMINE ETODOLAC BY USING β -CYCLODEXTRIN MEDIUM

(51) International classification :G01N0021640000, A61K0031407000, A61K0047690000, H04N0009040000, B82Y0005000000

(86) International Application No Filing Date :PCT// / :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

A comprehensive, validated and facile spectrofluorimetric determination of Etodolac (ETO) was developed which is based on ETO-Cyclodextrin inclusion complex formation that gives fluorescence at excitation wavelength of 282 nm with an emission wavelength of 359 nm. The enhanced sensitivity of the developed method is due to inclusion complex formation which enhances the fluorescence intensity. The validation was performed by applying official ICH guidelines in terms of linearity, precision, limit of detection, limit of quantitation and accuracy. Linearity is obeyed in the range of 100 – 2000 ng/ml. Further the developed method is extended for application in pharmaceutical tablets, spiked human urine and weight variation test for routine quality control analysis. 7 claims & 4 figures

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : SPECIMEN HOLDER FOR WIRE CUT ELECTRICAL DISCHARGE MACHINE

(51) International classification :G01N0001320000, B23H0007020000, B23H0007260000, B23H0001000000, B23H0011000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 Wire cutting electric Discharge machine is one of the finest, accurate method of machining. The machine contains one specimen holder and tool holder, and other energy and mechanical devices to support the EDM process. In this machine it is observed that flat surface plates are being used as specimen holder, where the focus of invention is considered. In order to increase the grip for cylindrical surface featured specimen an idea of using cylindrical jaws is introduced. Here the contact surface between the specimen and specimen holder increased compared to flat surface specimen holder while using the curved surface featured specimens are used. The grip between cylindrical jaws and curved surfaced specimen is also increasing. Ultimately the vibrations that generates while performing machining operation does not effect in the accuracy of machining process. 3 claims & 3 Figures

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057690 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING TEMPERATURE PROFILE OF SLAB AND SPHERE

<p>(51) International classification :G06F011100000, G05B0019418000, G09B0019020000, G06T0007246000, G06F0030230000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. P Kanakadurga Devi Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>2)Dr. Radhika Devi V Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>3)Dr.Ch.Achi Reddy Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>4)Dr. S. Naga Gayatri Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>5)Dr. Roshan Jose Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>6)Dr. I.V.Sankar Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043, Medchal-District, Hyderabad -----</p> <p>7)Dr. V.G.S Naidu Address of Applicant :Dept. of Applied Mathematics, School of Applied and Natural Sciences, Adama Science Technology University, Po box-1888, Adama -----</p> <p>8)Prof. S.R.Koneru Address of Applicant :Flat No: 6, S.R. Koneru, Aakruti Kutir, Plot N0: 139, Phase-III, Kamalapuri Colony, Hyderabad -----</p>
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(57) Abstract :

The present invention discloses efficiency of front tracking finite difference method to solve one dimensional two phase moving boundary problem. It is identified the major problem besides to solve the moving boundary problem appear in the method where it doesn't have domain at initial time. This complexity is handled prior by basic mathematics. This method resolves the problem by giving symbolic names to the unknowns by modeling the problem. The Stefan condition applied to satisfy governing equations. The present invention overcomes the difficulty of basic mathematics. It is much simpler than the methods based on enthalpy formulation. It could take care of source or sink terms on the front. Front tracking Method, solved the problem of freezing of a slab as well as freezing of a spherical droplet. 3 claims & 2 figures

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : AN AUTOMATED FINANCIAL RECOMMENDER SYSTEM TO MONITOR THE INVESTED STOCK AND ALERT ABOUT RISK FACTORS USING MACHINE LEARNING

(51) International classification :G06Q0040060000, G06Q0040040000, G06Q0040000000,
G06Q0040020000, G09B0019180000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT OF THE INVENTION Many stockholders investing their money in certain stocks to gain more profit within a short period. After their investment, they continuously keep on watching several parameters such as daily news, stock company investment, net profit, and loss, changes in management, and the government announcements relating to the company. The stockholders spend a huge amount of time to gather this information from any trusted sources and also it is a regular job for them. The automated recommender system can be applied to learn about all the above-mentioned parameters from the top most trusted websites and extracted information from these websites is preceded for the analysis phase. After the analysis phase, a detailed chart has been generated daily or else based on user requirements along the details of profit or loss on a particular day. The system also forecasts the stock's growth or decline rate based on the parameters such as stock-related news, changes in the existing management team, company's investment, and recent government announcements related to the corporate. This guided forecast alerts the user to make a decision either to retain or sell the stock on a particular day. In addition to this, the user can also supply his or her requirement and the threshold value of the invested stock so that the system will alert the user if the stock crosses the threshold value. By utilizing this automated financial recommender system using the machine learning approach, it allows the stock investor to get notified about the stock growth or decline rate to gain more profit without any human intervention.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057815 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : AIR COOLER

(51) International classification :F04D0017160000, F02B0029040000, B60H0001240000, H02K0009060000, H04N0005740000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Title: AIR COOLER ABSTRACT An air cooler (100) comprising a motor (104) having a first shaft (104a) and a second shaft (104b); a first fan (106) coupled to the first shaft (104a) of the motor (104), and adapted to blow cool air in an outward direction from the air cooler (100); a second fan (108) coupled to the second shaft (104b) of the motor (104), and adapted to blow air towards the motor (104); and a cooling duct (110) substantially encloses the motor (104), and the second fan (108). The cooling duct (110) comprises a first end (110a) to exhaust hot air from the air cooler (100). Claims: 10, Figures: 2 Figure 1 is selected.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : FOOT SLIP PREVENTION SYSTEM AND METHOD

(51) International classification :A61H0003000000, A61B0005000000, A43B0003000000, A61B0005110000, A61B0005103000

(86) International Application No :PCT// / Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA Filing Date :NA

(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :
 Title: FOOT SLIP PREVENTION SYSTEM AND METHOD ABSTRACT A foot slip prevention system (100) comprising: a wearable unit (102) adapted to be worn by a user, wherein the wearable unit (102) comprises airbags (112a-112n). The foot slip prevention system (100) further comprising: a foot sensor (104) to sense signals representing a pressure exerted by a foot of the user. The foot slip prevention system (100) further comprising: a control unit (106) configured to receive the sensed signals from the foot sensor (104); determine a walk pattern of the user based on the received sensed signals; match the determined walk pattern of the user with a predefined set of walk patterns stored in a memory; generate a trigger signal when the determined walk pattern of the user is matched with a walk pattern associated with a set of unsafe walk patterns; and deploy the airbags (112a-112n) based on the generation of the trigger signal. Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING IRRIGATION OF CROPS

<p>(51) International classification :A01G0025160000, H02P0006170000, H05B0047105000, A61B0005020000, A61B0005045200</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)SR UNIVERSITY Address of Applicant :S R University Ananthasagar, Warangal, Telangana, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)CH RAJENDRA PRASAD Address of Applicant :S R University Ananthasagar, Warangal, Telangana, India -----</p> <p>2)SREEDHAR KOLLEM Address of Applicant :S R University Ananthasagar, Warangal, Telangana, India -----</p> <p>3)P.RAMCHANDAR RAO Address of Applicant :S R University Ananthasagar, Warangal, Telangana, India -----</p> <p>4)YALABAKA SRIKANTH Address of Applicant :SR University, ANANTHASAGAR , WARANGAL ,TELANGANA,INDIA -----</p> <p>5)A.CHAKRADHAR Address of Applicant :SR University, ANANTHASAGAR , WARANGAL ,TELANGANA,INDIA -----</p> <p>6)Dr.V.Malathy Address of Applicant :SR University, ANANTHASAGAR , WARANGAL ,TELANGANA,INDIA -----</p> <p>7)Dr.J.TARUN KUMAR Address of Applicant :SR University, ANANTHASAGAR , WARANGAL ,TELANGANA,INDIA -----</p>
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(57) Abstract :

Title: SYSTEM AND METHOD FOR MANAGING IRRIGATION OF CROPS ABSTRACT An irrigation system (100) comprising: sensors (102a-102n) configured to sense signals representing moisture in a field; a relay (108) coupled to a motor (122), and configured to activate and deactivate the motor (122); a speaker (110) configured to generate an audio alert; a controller (114) connected to the sensors (102a-102n), the relay (108), and the speaker (110). The controller (114) is configured to receive sensed signals representing the moisture in the field from the sensors (102a-102n) installed within the field; determine a numerical value of moisture level of the field based on the received sensed signals; compare the determined numerical value of the moisture level with a predefined moisture level stored in a database (116); generate an activation signal when the determined numerical value of the moisture level is less than the predefined moisture level; and activate the motor (122) based on the generated activation signal.

Claims: 10, Figures: 4 Figure 1A is selected.

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD FOR FACE RECOGNITION

<p>(51) International classification :G06K0009000000, G06K0009620000, G05B0019042000, H04N0007180000, G06T0019000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SR University Address of Applicant :S R University Ananthasagar, Warangal, Telangana, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)CH RAJENDRA PRASAD Address of Applicant :SR UNIVERSITY, ANANTHASAGAR , WARANGAL ,TELANGANA ,INDIA ----- 2)SREEDHAR KOLLEM Address of Applicant :SR UNIVERSITY, ANANTHASAGAR , WARANGAL ,TELANGANA ,INDIA ----- 3)P.RAMCHANDAR RAO Address of Applicant :SR UNIVERSITY, ANANTHASAGAR , WARANGAL ,TELANGANA ,INDIA ----- 4)YALABAKA SRIKANTH Address of Applicant :SR ENGINEERING COLLEGE, ANANTHASAGAR , WARANGAL ,TELANGANA ,INDIA ---- ----- 5)A.CHAKRADHAR Address of Applicant :SR UNIVERSITY, ANANTHASAGAR , WARANGAL ,TELANGANA ,INDIA ----- 6)Dr.V.Malathy Address of Applicant :SR UNIVERSITY, ANANTHASAGAR , WARANGAL ,TELANGANA ,INDIA ----- 7)Dr.J.TARUN KUMAR Address of Applicant :SR UNIVERSITY, ANANTHASAGAR , WARANGAL ,TELANGANA ,INDIA -----</p>
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(57) Abstract :

Title: SYSTEM AND METHOD FOR FACE RECOGNITION ABSTRACT A face recognition system (100) comprising: a data collection module (206) configured to receive captured images and/or videos from an imaging device (102); a data storage module (208) configured to store the received images and/or the videos in a memory (112); a training module (210) configured to extract facial features from each of the images and/or the videos stored in the memory (112) to generate reference facial data; a data processing module (212) configured to match extracted features from the images and/or the videos captured by the imaging device (102) with the reference facial data stored in the memory (112) to generate display data; and a display module (214) configured to display a match percentage and an image and/or a video associated with the matched reference facial data through a user device (106).
Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : Electric Scooter

(51) International classification :H02J0007000000, B62K0003000000, B62M0006450000, B62M0006900000, H02J0007340000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 Title: ELECTRIC SCOOTER ABSTRACT An electric scooter (100) comprising: a motor (106) configured to control a movement of wheels (108a-108b); a battery (110) coupled to the motor (106), and configured to provide power to the motor (106); a throttle (112) configured to generate an acceleration to obtain a variable speed; a controller (114) configured to: receive an activation signal from an ignition switch; activate the motor (106) based on the received activation signal; draw a current and/or a voltage from the battery (110) based on the acceleration produced by way of the throttle (112); determine the current and/or the voltage drawn from the battery (110); compare the determined current and/or the voltage drawn with a predefined overloading threshold; generate a deactivation signal when the determined current and/or the voltage drawn from the battery (110) is greater than or equal to the predefined overloading threshold; deactivate the motor (106) based on the generated deactivation signal. Claims: 10, Figures: 5 Figure 1 is selected.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057820 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : MIXER GRINDER JAR

(51) International classification :A23G0009220000, A23G0009080000, B21D0037160000, A23G0009040000, A23N0017000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Title: MIXER GRINDER JAR ABSTRACT A mixer grinder jar (100) comprising: an inner cylinder (104) adapted to receive a material to be grinded; and an outer cylinder (106) adapted to surround a periphery of the inner cylinder (104) such that the outer cylinder (106) and the inner cylinder (104) defines a hollow space (112) therebetween to receive a cooling agent (114), wherein the hollow space (112) has a predefined width. Claims: 10, Figures: 3 Figure 1A is selected.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : HIGH TEMPERATURE SHORT TIME (HTST) DEHYDRATION DEVICE

(51) International classification :E21B0047000000, G16H0040630000, G01B0011000000, F25D0031000000, C12N0001360000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Title: HIGH TEMPERATURE SHORT TIME (HTST) DEHYDRATION DEVICE ABSTRACT A high temperature short time (HTST) dehydration device (100) to dehydrate vegetables, the HTST dehydration device (100) comprising: sensors (108a-108c) configured to sense parameters selected from a temperature, a position of a lid (106), a weight of the vegetables, an airflow data, or a combination thereof; an anemometer (110) to measure airflow in a drying chamber (120); a heater (112) connected to the drying chamber (120); a controller (116) configured to: receive the sensed parameters from the sensors (108a-108c); determine a numerical value of the weight of the vegetables, the airflow, and the temperature; compare the determined numerical value of the temperature and the airflow with predefined set of parameters stored in a memory (118); generate an alteration signal based on the determined numerical value; alter the airflow as well as the temperature; and display the determined numerical value of the weight of the vegetables. Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057822 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PENETROMETER

(51) International classification :G01N0003420000, G01N0003400000, E02D0001020000, G01N0033020000, G01B0003220000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Title: PENETROMETER ABSTRACT A penetrometer (100) comprising: a dial indicator (102) configured to display a firmness of fruits and/or vegetables under a test; a plunger (104) attached to the dial indicator (102), wherein the plunger (104) is adapted to be inserted into the fruits and/or the vegetables under the test to determine the firmness; and a cutter blade (106) attached to a proximal end (104a) of the plunger (104), and adapted to peel off skin of the fruits and/or the vegetables under the test, wherein the cutter blade (106) facilitates to peel off the skin when a vertically downward force with respect to a vertical axis of the penetrometer (100) is applied. Claims: 10, Figures: 2 Figure 1 is selected.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : FIRE EXTINGUISHING SYSTEM AND METHOD

<p>(51) International classification :G08B0017000000, A62C0037360000, G01G0019520000, A62C0003070000, A62C0037380000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SR UNIVERSITY Address of Applicant :S R University Ananthasagar, Warangal, Telangana, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Damarla Ramesh Babu Address of Applicant :Assistant Professor, S R University, Warangal,Telangana, India.506371 -----</p> <p>2)Shrihari Saduwale Address of Applicant :Professor, Civil Engineering, Vidya Jyothi Institute of Technology, Hyderabad, Telangana, India 500075 -----</p> <p>-----</p> <p>3)K.V.Narasimha Rao Address of Applicant :Professor, Dept of Mechanical Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur, AP 522502 -----</p> <p>4)Ram Deshmukh Address of Applicant :Professor, Department of EEE, SR University, Warangal, Telangana 506371 -----</p> <p>5)Damarla Sravya Address of Applicant :II year B.Tech-Electronics, IIT-BHU, Varanasi-U.P, India. 221005 -----</p>
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(57) Abstract :

Title: FIRE EXTINGUISHING SYSTEM AND METHOD ABSTRACT A fire extinguishing system (100) comprising fire sensors (102a-102n) configured to sense signals representing an amount of smoke and/or heat, wherein each of the fire sensors (102a-102n) is associated with a sensor identifier (ID); a control unit (104) coupled with the fire sensors (102a-102n) and valves (108a-108p), and configured to: receive the sensed signals, and the associated sensor ID; determine a numerical value of the amount of smoke and/or heat based on the received sensed signals and a location of a storage room at which one of, the fire sensors (102a-102n) is installed; compare the determined numerical value with a threshold value; generate an activation signal when the determined numerical value is greater than or equal to the threshold value; and activate a corresponding valve of the valves (108a-108p) to release nitrogen gas from a nitrogen storage tank (112) into the storage room through one of, nitrogen dispensers (106a-106m). Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : Challenges Faced By HR Managers In India

<p>(51) International classification :G06Q0010100000, G06Q0010060000, G06F0009451000, G06F0016248000, G06Q0050220000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof. M. DEVENDRA Address of Applicant :Principal, Bengaluru Amirta Degree College, RR Nagar, Bangalore - 560 098 State: Karnataka Country: India -----</p> <p>2)Dr. Shinde Suvarna Rahul 3)Dr. POOJA J 4)DR. SAURABH KUMAR SHARMA 5)Dr.K.Santhana Lakshmi 6)Ms.K.N.Jahnavi 7)Mr. Pratik Shah 8)Dr. Arun Kumar Pallathadka 9)Dr. Harikumar Pallathadka</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. M. DEVENDRA Address of Applicant :Principal, Bengaluru Amirta Degree College, RR Nagar, Bangalore - 560 098 State: Karnataka Country: India -----</p> <p>2)Dr. Shinde Suvarna Rahul Address of Applicant :I/C Director, Navjeevan Institute of management Shivshakti chowk, Cidco Nashik Pin:422008 State: Maharashtra Country: India -----</p> <p>3)Dr. POOJA J Address of Applicant :Lecturer, Sarada vilas College, Pin:570004 State: Karnataka, Country: India -----</p> <p>4)DR. SAURABH KUMAR SHARMA Address of Applicant :PRINCIPAL, SBMT- SCHOOL OF BUSINESS MANAGEMENT & TECHNOLOGY, NH-91, Khurja Road, Bulandshahr, Pin: 203002 State: UTTAR PRADESH Country: INDIA -----</p> <p>5)Dr.K.Santhana Lakshmi Address of Applicant :Associate Professor, College of Management SRM Nagar, SRM Institute of Science and Technology, Potheri, SRM Nagar, Kattankulathur, Tamil Nadu Pin code: 603203 -----</p> <p>6)Ms.K.N.Jahnavi Address of Applicant :Assistant professor, Dayananda Sagar University, Shavige Malleshwara Hills, 1st Stage, Kumaraswamy Layout, Bengaluru, Karnataka Pin: 560078 State: Karnataka Country: India -----</p> <p>7)Mr. Pratik Shah Address of Applicant :Assistant Professor, Vande Matram Degree college of arts, commerce and science. JMF Sanskriti vihar, Dr. Nemade marg, Kopar, Old Dombivli. Pin 421202. State :Maharashtra Country :India -----</p> <p>8)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director, Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West. Pin: 795140 State: Manipur Country: India -----</p> <p>9)Dr. Harikumar Pallathadka Address of Applicant :Director, Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140 State: Manipur Country: India -----</p>
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(57) Abstract :

Challenges Faced By HR Managers In India Abstract: There are numerous issues with human resource management, which are discussed in this Research Article. Managers face numerous challenges today, including globalization, technological changes, and so on. In HRM, the hardest thing is to find and keep the best people. These issues can be resolved, and managers who have been exposed to new perspectives and approaches to human resources can be counselled. People who learn about other cultures, receive informational and technical training, and are motivated can contribute to the resolution of these HR management issues.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : PRESENT SCENARIO OF HUMAN RESOURCE MANAGEMENT (HRM) PRACTICES IN THE INDIAN COMPANIES

<p>(51) International classification :G06Q0010100000, G06Q0010060000, C12Q0001686000, G06Q0099000000, A61B0005024000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.N.S.LISSY Address of Applicant :Assistant Professor, PSG College of Arts and Science, Civil Aerodrome, Peelamedu, Coimbatore , Pin: 641014 State: Tamilnadu Country: India -----</p> <p>2)Y Suryanarayana Murthy 3)M. Govardhan Reddy 4)Dr.Divyarajsinh M Zala 5)Dr. Manoj Sharma 6)Dr. Anupam Mitra 7)Dr. Naveen Kumar 8)DR. KAMAL KUMAR 9)Dr.C.Vilvijayan 10)Dr.D .D.Paul Dhinakarn Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.N.S.LISSY Address of Applicant :Assistant Professor, PSG College of Arts and Science, Civil Aerodrome, Peelamedu, Coimbatore , Pin: 641014 State: Tamilnadu Country: India -----</p> <p>2)Y Suryanarayana Murthy Address of Applicant :Assistant Professor, Department of Business Administration, Prasad V Potluri Siddhartha Institute of Technology Chalasananagar, Kanuru, Vijayawada, Krishna District Pin: 520007, State: Andhra Pradesh Country: India -----</p> <p>3)M. Govardhan Reddy Address of Applicant :Assistant Professor, Department of Management Studies, Aditya College of Engineering Surampalem, Peddapuram, Gandepalli Mandalam, East Godavari District Pin: 533437, State: Andhra Pradesh Country: India -----</p> <p>4)Dr.Divyarajsinh M Zala Address of Applicant :Assistant professor, Atmiya University, kalawad road, Rajkot, Pin:360005 State: Gujarat Country: India -----</p> <p>5)Dr. Manoj Sharma Address of Applicant :Assistant Professor, St. Xavier's University, Action Area III B, New Town, Kolkata Pin: 700160 State: West Bengal Country: India -----</p> <p>6)Dr. Anupam Mitra Address of Applicant :Associate Professor, St. Xavier's University, Action Area III B, Newtown, Kolkata Pin:700160 State: West Bengal Country: India -----</p> <p>7)Dr. Naveen Kumar Address of Applicant :Professor, Baba Mastnath University, Asthsal Bohar, Rohtak, Pin:124021 State: Haryana Country: India -----</p> <p>8)DR. KAMAL KUMAR Address of Applicant :Assistant Professor, Baba Mastnath University, Rohtak Pin:124021 State: Haryana, Country: India -----</p> <p>9)Dr.C.Vilvijayan Address of Applicant :Assistant professor of commerce, Thiru kollanjiappar government arts college, Virudhachalam, Pin:606001 State: Tamilnadu Country:India -----</p> <p>10)Dr.D .D.Paul Dhinakarn Address of Applicant :Asst. Professor, Commerce JHA Agarsen College, Chennai State: Tamilnadu, Country: India Pin code: 600 060 -----</p>
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(57) Abstract : PRESENT SCENARIO OF HUMAN RESOURCE MANAGEMENT (HRM) PRACTICES IN THE INDIAN COMPANIES. Abstract: There is a greater urgency and interest in learning more about how MNCs from non-Western countries, such as China and India, use and spread managerial strategies. There are also a lot of people who aren't working because there is a lot of work to go around. This affects how HRM policies are made. This gives employers more power and lets them shape their HR strategies to cut costs. Thus, there can be more reliance on hiring people who aren't in the core group. With the weakening of the power of employees, HRM practises toward this group of employees are bound to show hard methods, like lowering minimum standards of employment and engaging in unfair labour practises, to deal with them (ULPs). In a world with many different countries, this paper examines the motivations, strategic opportunities, and challenges of HR policies and practises that are being moved across borders.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : IoT based Smart Vehicle Automation and Enhanced Safety, Security and Tracking System by Wireless Sensor Network

<p>(51) International classification :B60K0028060000, H04W0004700000, G08B0021060000, G08B0021220000, B60R0025102000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)G.Ramkumar Address of Applicant :Associate Professor (SG), Department of VLSI Microelectronics, Institute of Electronics and Communication Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai Pin :602105 State : Tamilnadu Country: India ----- -- 2)Ms.S.Surekha 3)M.Tamilselvi 4)Dr.Yogeeswaran 5)Dr.D.Arulanantham 6)Dr. Santhosh P 7)Dr.S.Parasuraman Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)G.Ramkumar Address of Applicant :Associate Professor (SG), Department of VLSI Microelectronics, Institute of Electronics and Communication Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai Pin :602105 State : Tamilnadu Country: India ----- -- 2)Ms.S.Surekha Address of Applicant :31 Nithin Apartment, 2nd Street, North Thirumalai Nagar, Villivakkam, Chennai Pin : 600049 State : Tamilnadu Country:India ----- ----- 3)M.Tamilselvi Address of Applicant :Senior Lecturer, Department of Mechatronics Engineering, T.S.Srinivasan Centre for Polytechnic College and Advanced Training, No.1, TVS, School St, Vanagaram, Chennai, Pin: 600095 State : Tamilnadu Country:India ----- ----- 4)Dr.Yogeeswaran Address of Applicant :Assistant Professor, Department of ECE, P.T.Lee Chengalvaraya Naicker College of Engineering and Technology, Vallal P.T.Lee Chengalvaraya Naicker Nagar, Ooveri, Kanchipuram. Pin : 631502 State : Tamilnadu Country:India ----- ----- 5)Dr.D.Arulanantham Address of Applicant :1/106, Sennappanaicken Palayam Road, Sinniyam Palayam (Post), Modakurichi (via), Erode – 638104 State : Tamilnadu Country:India ----- ----- 6)Dr. Santhosh P Address of Applicant :Assistant Professor Department of EEE, Sri Krishna College of Technology, Kovaipudur, Coimbatore 641042 State : Tamilnadu Country:India ----- ----- 7)Dr.S.Parasuraman Address of Applicant :Professor, Department of Electronics and Communication Engineering, Karpaga Vinayaga College of Engineering and Technology, GST road, Chinnakolambakkam, Madhuranthagan Taluk, Chengalpattu District Pin : 603308 State : Tamilnadu Country: India ----- -----</p>
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(57) Abstract :

IoT based Smart Vehicle Automation and Enhanced Safety, Security and Tracking System by Wireless Sensor Network Abstract: Transportation is now one of the most essential tools for humans. It also has a number of flaws that can endanger people's lives, despite the fact that it is extremely useful in many ways. This paper discusses, among other things, how to avoid accidents and keep everyone safe and secure, both passengers and drivers. A vibration sensor can be used to determine whether or not an accident occurred. If there is an accident, the vibration sensor sends an alert message to the appropriate person, including the GPS location of the accident. The mechanism ensures that the car's engine will not start until the seat belts are unlocked, demonstrating that the seat belts are secure. In addition, an alcohol sensor is used to ensure that the driver is not under the influence of alcohol while operating a vehicle. A car's alcohol sensor is used to locate a drunk driver. However, the ignition is only turned on if the driver is not drunk. When you're drowsy, the eye blink sensor detects it and sends you a buzzer to remind you to stay awake. It employs sensors that detect how close it is to colliding with another vehicle in order to avoid a collision. A proximity sensor is installed in the car as a safety measure to detect obstacles. In this case, the Internet of Things concept will be used to make all of these statuses available online, as well as through a mobile app. There is a safety mechanism in place to help keep drivers safe on the road.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : COMBINATION OF AN IOT BASED RURAL VILLAGE MICRO-GRID REGULATOR STRATEGY BASED ON SMART-GRID MULTIPOTENT MODELLING AND TRANS ACTIVE ENERGY ADMINISTRATION VALUES

<p>(51) International classification :H02J0003380000, H02J0003000000, G06Q0050060000, C02F0003300000, H02J0003060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. R.RAMAN Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ADITYA COLLEGE OF ENGINEERING, SURAMPALEM, KAKINADA ANDHRA PRADESH - 533437 -----</p> <p>2)Dr. K. KISHORE ANTHUVAN SAHAYARAJ</p> <p>3)Dr. ASHOK KUMAR P S</p> <p>4)Mr. SAJU A</p> <p>5)Dr. THIPPESWAMY G R</p> <p>6)Dr. ERAPPA G</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. R.RAMAN Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ADITYA COLLEGE OF ENGINEERING, SURAMPALEM, KAKINADA ANDHRA PRADESH - 533437 -----</p> <p>2)Dr. K. KISHORE ANTHUVAN SAHAYARAJ Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTING TECHNOLOGIES, SCHOOL OF COMPUTING, COLLEGE OF ENGINEERING AND TECHNOLOGY, FACULTY OF ENGINEERING AND TECHNOLOGY, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, SRM NAGAR, KATTANKULATHUR, CHENGALPATTU – 603203, CHENNAI, TAMIL NADU, INDIA -----</p> <p>3)Dr. ASHOK KUMAR P S Address of Applicant :PROFESSOR DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING DON BOSCO INSTITUTE OF TECHNOLOGY, KUMBALAGODU, BENGALURU 560078 , KARNATAKA, INDIA -----</p> <p>4)Mr. SAJU A Address of Applicant :ASSOCIATE PROFESSOR & HOD, DEPT OF ELECTRONICS AND COMMUNICATION ENGINEERING ALBERTIAN INSTITUTE OF SCIENCE AND TECHNOLOGY, ARCHBISHOP ANGEL MARY NAGAR, COCHIN UNIVERSITY PO, KALAMASSERY, KOCHI-682022, KERALA, INDIA -----</p> <p>5)Dr. THIPPESWAMY G R Address of Applicant :PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, DON BOSCO INSTITUTE OF TECHNOLOGY KUMBALGODU BENGALURU KARNATAKA 560078, INDIA. -----</p> <p>6)Dr. ERAPPA G Address of Applicant :PROFESSOR & HOD, DEPARTMENT OF INFORMATION TECHNOLOGY, SHREE RAYESHWAR INSTITUTE OF ENGINEERING AND INFORMATION TECHNOLOGY SHIRODA GOA 403103, INDIA. -----</p>
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(57) Abstract :

ABSTRACT COMBINATION OF AN IOT BASED RURAL VILLAGE MICRO-GRID REGULATOR STRATEGY BASED ON SMART-GRID MULTIPOTENT MODELLING AND TRANS ACTIVE ENERGY ADMINISTRATION VALUES Philanthropic and other advancement associations are calling for replicable self-supporting answers for shared miniature utilities to guarantee fair present day energy conveyance to energy-denied town networks. Appropriated savvy microgrid innovation considers the proficient reconciliation of maintainable assets to give limited energy conveyance at further developed degrees of unwavering quality and flexibility. Brilliant energy the executives in decentralized inexhaustible frameworks requires computational knowledge to carry out essential energy-mindful/cost-mindful systems in decision-production for a conceptualized cutting edge Smart Village microgrid stage. Savvy Village microgrid control mechanization focuses on contribution realistic and, smart control abilities to perform cost based interest reaction energy the board. This paper proposes the utilization of fell control reflection in the execution of a value touchy digital physical smart Grid approach in a provincial off-matrix microgrid climate. The measured microgrid configuration incorporates sustainable energy assets through a versatile control calculation created in a model-based plan approach. The arrangement depends on dispersed market-based control, utilizing multi-specialist trans active standards to explore mechanized interest reaction. Multi-need load bunches with the particular equal control of non-smart gadget bunches consider focused on supply/request asset coordination. The proposed Smart Village arrangement works as an automatic savvy microgrid energy the board framework and by righteousness of its market-based trans active thinking approach is capable to meet various working prerequisites of provincial town energy frameworks. Recreation results for this worth based control method feature the worth of client commitment joined with supply-, request and monetary expense improvement for cross breed sustainable appropriated energy micro-grids.

(54) Title of the invention : DYNAMIC TRAFFIC CONTROL SYSTEM BASED ON WIRELESS SENSOR NETWORK

(51) International classification :H04W0084180000, F21W0111020000, G08G0001095000, G08G0001015000, G08G0001096200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT DYNAMIC TRAFFIC CONTROL SYSTEM BASED ON WIRELESS SENSOR NETWORK One weakness of most regular vehicle location techniques in a traffic signal framework is that they can just identify the vehicle in a decent position. This investigation proposed another vehicle location technique utilizing the Wireless Sensor Network (WSN) innovation. The striking component of the proposed WSN-based technique is that it can screen the vehicles progressively. The current sensor-based control strategies settle a few issues. Nonetheless, there are still a few drawbacks with them. For instance, the ultrasonic sensor is extremely touchy to the climate. Inductive circle normally influences the traffic during establishment and are inclined to breakage because of other development. The video recognition procedure is as yet a work in progress what's more isn't experienced enough for genuine traffic light. Also, all of the above sensors can just distinguish the vehicles in a proper spot. They cannot follow the vehicles out of this spot. This research likewise fostered another sign control calculation to control the condition of the sign light in a street convergence. Reproductions of the reality convergence traffic signal framework are directed in the paper. The reproduction results show that the proposed technique is powerful for the traffic signal in a genuine street convergence.

No. of Pages : 17 No. of Claims : 6

(54) Title of the invention : IoT based real time condition monitoring of Electrical Machines

(51) International classification :H04L0029080000, G05B0019418000, G07C0003000000, H04W0004700000, G07C0003080000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 IoT based real time condition monitoring of Electrical Machines Abstract: Electric motors and drives, which are powered by electricity, account for approximately 45 percent of the power used in a building. Productivity and revenue can suffer if a company's electrical machines are not well-maintained. Drives can use up to 10% of the extra power that is available to them. People who work in an industry that relies on a large number of electrical drives that are constantly in use must keep a close eye on the key parameters of those drives and keep them under constant surveillance. Supervisory control and data acquisition (SCADA) systems were used to keep track of machine parameters prior to the introduction of Internet of Things (IoT) technology. SCADA systems can only store data for a short period of time before it is overwritten by newer data. There is no other way to keep an eye on the machine from a distance than to use the internet. Because of the Internet of Things, the collected data can be stored in the Cloud and retrieved at any time. The collected data can also be easily integrated into any application or platform, saving the user money on new purchases. In the research presented here, sensors can be used to monitor a machine's current and voltage, as well as its rotation speed and number of working hours. Data is obtained and processed using microcontrollers. To send the data they've collected to a server in another country, people use a programme called MQTT. The following step is to send data to Telegram's servers. If something violates the safe operating rules, a chatbot in the Telegram mobile app immediately alerts the server and control room.

(54) Title of the invention : CAPILLARY BLOOD PUNCTURE SIMULATOR

(51) International classification :A61B0005150000, A61J0015000000, G09B0023280000, A61B0005151000, A61B0005083000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 TITLE: CAPILLARY BLOOD PUNCTURE SIMULATOR APPLICANT: SRI BALAJI VIDYAPEETH AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE ABSTRACT The present invention discloses a Capillary blood puncture Simulator, adapted to be mounted on a stand and is used to learn capillary blood puncture technique by medical, nursing and paramedical trainees. The Capillary blood puncture Simulator of the present invention comprises of a container for storing a blood substitute, a removably fixed lid adapted to cover the container through a fixing means. The invention is characterized in the lid, by providing a provision on the lid for inserting a hollow cylindrical feeding tube in which one end is configured to be positioned inside the container and other end is attached with a receiver sponge. A finger simulant encircling the feeding tube is positioned above the lid and a part of the lid ensuring that the sponge reservoir is present under the tip of the finger simulant thereby upon puncturing the finger simulant near the tip, the blood substitute from the container flows into the sponge reservoir through the feeding tube simulating capillary blood puncture.

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : Graphical User Interface Design of E-commerce using Cognitive Computing Framework and machine learning

(51) International classification :G06N0020000000, G06Q0030020000, G06Q0030060000, G06N0005040000, G06N0007000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention relates to a graphical user interface design of E-commerce using cognitive computing framework and machine learning. The invention carried out stepwise template development for an intuitive virtual e-commerce shopping. Herein a website template is formed. The contribution of features such machine learning and artificial intelligence is shown by introducing a case study on Demographic content-based collaborative recommendation system framework, Navigation optimization through modified prefix span algorithm and Review summarization using Gibbs sampling based Latent Dirichlet Allocation classifier which have reduced human efforts and increased user satisfaction level. The aim is to develop a template for virtual e-commerce website which can be intuitive and suitable for heterogeneous users. The methodology carried out stepwise template development for an intuitive virtual e-commerce shopping website.

No. of Pages : 12 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058067 A

(19) INDIA

(22) Date of filing of Application :14/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR COOLING AN OUTDOOR UNIT OF SPLIT AIR CONDITIONER

(51) International classification :F24F0001000300, F24F0013220000, F24F0001360000, F24F0001480000, F25B0041060000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Title: SYSTEM AND METHOD FOR COOLING AN OUTDOOR UNIT OF SPLIT AIR CONDITIONER ABSTRACT A system (100) for cooling an outdoor unit (104) of a split air conditioner, the system (100) comprising: an indoor unit (102) installed in a premise, the indoor unit (102) comprises: evaporator coils (106) to suck warm air of the premise; an evaporator drain tray (108) installed beneath the evaporator coils (106), wherein the evaporator drain tray (108) is designed to collect water condensed in form of dew on the evaporator coils (106); an outdoor unit (104) installed outside of the premise, the outdoor unit (104) comprises: condenser coils (110) installed at a lower end of the outdoor unit (104); and a drain pipe (112) connected to the evaporator drain tray (108) to release the water drop by drop over the condenser coils (110) through a plurality of drippers (114a-114n). Claims: 10, Figures: 2 Figure 1 is selected.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : BANANA CUTTING APPARATUS

<p>(51) International classification :A61B0017000000, B65H0035080000, B26D0001040000, A61K0036880000, A61M0001000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SR University Address of Applicant :SR University, Ananthasagar, Warangal, Telangana, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)D Ramesh Babu Address of Applicant :Assistant Professor, SR University, Warangal, Telangana, India -----</p> <p>2)K V Narasimha Rao Address of Applicant :Professor, Department of Mechanical Engineering, Koneru Lakshmaiah Education Foundation, Guntur, AP, India -----</p> <p>3)Gurunadham Goli Address of Applicant :School of Business, S R University, Warangal.506371 -----</p> <p>4)Damarla Sravya Address of Applicant :II year B.Tech-Electronics, IIT-BHU, Varanasi-U.P, India. 221005 -----</p>
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(57) Abstract :

Title: BANANA CUTTING APPARATUS ABSTRACT A banana cutting apparatus (100) comprising: a banana holder (106) to hold two layers of banana bunches (102a-102b); a banana detection sensor (108) to detect a placement of the two layers of banana bunches (102a-102b); a cutter blade (120) moved in an upward/downward direction to separate the two layers of banana bunches (102a-102b); a position sensor (124) to sense a position of the cutter blade (120); a controller (112) to: receive the detected placement; actuate a hydraulic pump (116) to move a piston (122) to enable a movement of the cutter blade (120) in the downward direction to cut the two layers of banana bunches (102a-102b); receive the sensed position of the cutter blade (120); compare the sensed position of the cutter blade (120) with pre-defined positions; and enable the movement of the cutter blade (120) in the upward direction, when the sensed position is a bottom position. Claims: 10, Figures: 6 Figure 1A is selected.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058207 A

(19) INDIA

(22) Date of filing of Application :14/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : CERVICAL COLLAR LYMPH NODE PALPATION AND PATHOLOGY SIMULATOR

<p>(51) International classification :A61F0005055000, G09B0023280000, A61B0005000000, A41D0013050000, A61B0010000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY PUDUCHERRY INDIA 607403 -----</p> <p>2)MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. NALINI Y.C Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF PHYSIOLOGY, MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE, SRI BALAJI VIDYAPEETH, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>2)PROF. DINKERRAMANANDAPAI Address of Applicant :DIRECTOR, MEDICAL SIMULATION CENTER, MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE, SRI BALAJI VIDYAPEETH PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>3)PROF. DAVID LIVINGSTONE Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND IMPLANTOLOGY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>4)PROF. SHIVASAKTHY M Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND IMPLANTOLOGY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES, PONDICHERRY PONDICHERRY INDIA 607403 -----</p>
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(57) Abstract :

TITLE: CERVICAL COLLAR LYMPH NODE PALPATION AND PATHOLOGY SIMULATOR APPLICANT: SRI BALAJI VIDYAPEETH AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE ABSTRACT The present invention discloses a Cervical Neck and collar lymph node pathology and palpation simulator. The simulator of the present invention is adapted to be secured on neck of a head and neck manikin for teaching/learning Medical, Dental and Nursing students to understand lymph node pathology thereby offering a high degree of fidelity on multiple lymph node pathology by palpation. The Cervical Neck and collar lymph node pathology and palpation simulator of the present invention comprises of a neck shaped sheet extended on either side with fixing means characterized in that plurality of pockets positioned on the neck shaped sheet closed on front side and opened on back side of the neck shaped sheet, in which the pockets are – configured to incorporate acrylic pellet to simulates hard lymph node, – configured to incorporate rubber pellet to simulates rubbery lymph node, – configured to incorporate foam pellet to simulate firm lymph node – configured to incorporate cotton pellet to simulate soft lymph node and – configured to incorporate rubber base putty pellets to simulate matted lymph nodes

No. of Pages : 13 No. of Claims : 3

(54) Title of the invention : FACIAL EMOTION RECOGNITION AND DETECTION IN PYTHON USING DEEP LEARNING

(51) International classification	:G06K000900000, G06K0009620000, G99Z0099000000, G06F0040279000, G10L0025630000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The following specification particularly describes the invention and the manner in which it is to be performed. TECHNICAL FIELD This invention relates to emotion recognition and detection of human being using deep learning techniques. BACKGROUND Human correspondence passes on significant data about plan as well as about wants and feelings also. Specifically, the significance of naturally perceiving feelings from human discourse and other correspondence prompts has developed with the expanding job of communicated in language and motion interfaces in human-PC connections and PC intervened applications. Current programmed feeling recognizers ordinarily relegate classification names to enthusiastic states, for example, furious or miserable, depending on signal handling and example acknowledgment strategies. Endeavors including human feeling acknowledgment have for the most part depended on planning prompts like discourse acoustics (for instance energy and pitch) or potentially looks to some objective feeling classification or portrayal. Different procedures and approaches have been proposed and created to characterize human enthusiastic condition of conduct. The proposed approaches have zeroed in just on a portion of the essential feelings. The methods for face identification can be recognized into two gatherings: all encompassing, where face is treated all in all unit and insightful, where co-event of trademark facial components is considered. Pantic and Rothkrantz proposed framework which interaction pictures of front facing and profile face view. Vertical and even histogram investigation is utilized to track down face limits. Then, at that point, face shape is acquired by thresholding the picture with HSV shading space esteems. Kobayashi and Hara utilized picture caught in monochrome mode to track down face brilliance conveyance. Position of face is assessed by iris restriction. With the end goal of element acknowledgment, facial highlights have been arranged into two significant classes, for example, Appearance-based component extraction and Geometric based element extraction. Mathematical based element extraction procedure considered just the shape or major conspicuous marks of some significant facial highlights, for example, mouth and eyes in the framework proposed by Changbo. Around a sum of 58 significant milestone focuses was considered in creating an ASM. The appearance based extraction include like surface, have additionally been considered in various spaces of work and improvement. A productive technique for coding and carrying out separated facial highlights along with multi-direction and multi-goal set of Gabor channels was proposed by Michael Lyons. The last piece of the FER framework depends on AI hypothesis; definitively it is the order task. The contribution to the classifier is a bunch of highlights which were recovered from face locale in the past stage. Grouping requires regulated preparing, so the preparing set should comprise of named information. There are many AI procedures for order task, to be specific: K-Nearest Neighbors, Artificial Neural Networks, Support Vector Machines, Hidden Markov Models, and Expert Systems with rule based classifier, Bayesian Networks or Boosting Techniques (Adaboost, Gentleboost).The field of Facial Expression acknowledgment (FER) incorporated calculation that dominated in outfitting such requests. FER empowered the PC frameworks to screen a person's passionate state viably and respond properly. While different frameworks have been intended to perceive looks, their time and memory intricacy is generally high and thus bomb in accomplishing a continuous presentation. Their element extraction procedures are additionally less dependable and are answerable for decreasing the general precision of the framework. An exact measurable based methodology for was proposed by Renuka R. Londhe. The paper was significantly centered around the investigation of the progressions in shapes on the face and forces of relating pixels of pictures. Moreover, a tune glancing through method is uncovered in U.S. Application No. 20090182736, in which reasonable music is picked and played by a pre-set up tune feeling arranging data base and current inclination data truly commitment by a customer. Regardless, considering the way that the current inclination data of the customer ought to be truly include, the song that is picked and played is constrained by the customer dynamically rather than through an objective part WO2016014321A1: Human talk is something other than the communicated words. It is also regarding how those words were communicated; sound signs coming about on account of, going with, just as utilized rather than communicated words; and surprisingly the character of the speaker who talked them. All things considered, a lot of human correspondence occurs in the non-semantic characteristics of a speaker's talk and talk plans. The speaker's sentiments add layers of coherent feelings that sway a crowd of people's response, regardless, achieving different understandings from comparative words. For instance, hearing surge spoken at a speaker's average volume might do barely anything to shift the crowd's direction of occasions while hearing Surge! spoken at an extended volume and with apprehension in the speaker's tone might make the crowd drop everything and run. US8209182B2: A feeling acknowledgment framework for surveying human passionate conduct from correspondence by a speaker incorporates a handling framework arranged to get signals illustrative of the verbal as well as non-verbal correspondence. The handling framework gets signal highlights from the got signals. The handling framework is additionally arranged to carry out no less than one halfway planning between the sign highlights and at least one components of a passionate cosmology to play out a feeling acknowledgment choice. The enthusiastic metaphysics gives an inclination portrayal of the human passionate conduct. Systems, procedures, and PC clear amassing media are obliged seeing inclination in solid signs consistently. A sound sign is recognized and a quick strong exceptional imprint is enrolled on a customer's figuring contraption. Something like one features is removed from the sound exceptional imprint and stood out and incorporates related from described sentiments to choose relative degrees of comparability. Conviction scores are enlisted for the described sentiments subject to the overall degrees of similarity and it is settled whether an assurance score for no less than one explicit sentiments outperforms a breaking point sureness score. In case it is settled that a breaking point conviction score for something like one explicit sentiments is outperformed, the particular inclination or sentiments are connected with the sound sign. As needed, unique action by then may be begun subject to the inclination/sentiments related with the sound sign. US20070131096A1: A structure and techniques use music features eliminated from music to recognize a music perspective inside a different event out attitude acknowledgment framework. A two-dimensional attitude model allotments music into four dispositions which fuse bliss, debilitation, wealth, and nervous/troubled. A mentality acknowledgment computation uses a dynamic outlook area framework to sort out which of the four attitudes is connected with a music cut ward on the removed features. In a first level of the dynamic revelation measure, the estimation concludes one of two perspective get-togethers to which the music cut has a spot. In a second level of the ever-evolving ID measure, the estimation by then sorts out which attitude from inside the picked demeanor pack is the appropriate, unequivocal mentality for the music cut. Benefits of the perspective area system fuse customized ID of music demeanor which can be used as music metadata to manage music through music depiction and portrayal. A significant test to such methodologies is that expressive human conduct is profoundly factor and relies upon various elements. These variables might incorporate the unique situation and space of the expressive conduct, and might be communicated through various channels. Thusly, downright portrayals for feelings and basic example acknowledgment plans may not be sufficient in depicting genuine human feelings. There is a requirement for strategies and frameworks that give a comprehensive and multi-level way to deal with the issue of feeling acknowledgment. A feeling acknowledgment framework for surveying human enthusiastic conduct from correspondence by a speaker incorporates a handling framework arranged to get signals illustrative of the correspondence. The handling framework whenever arranged to get signal highlights from the got signals. The handling framework is additionally arranged to execute no less than one transitional planning between the sign elements and at least one components of an enthusiastic cosmology, to play out a feeling acknowledgment choice. The passionate philosophy gives an inclination portrayal of the human enthusiastic conduct. NON-PATENT LITERATURE STUDY 1. Pranav, E., Kamal, S., Chandran, C.S. and Supriya, M.H., 2020, March. Facial emotion recognition using deep convolutional neural network. In 2020 6th International conference on advanced computing and communication Systems (ICACCS) (pp. 317-320). IEEE. 2. Mary, A.H., Kadhim, Z.B. and Sharqi, Z.S., 2020, November. Face recognition and emotion recognition from facial expression using deep learning neural network. In IOP Conference Series: Materials Science and Engineering (Vol. 928, No. 3, p. 032061). IOP Publishing. RESEARCH STATEMENT The establishment and use of PC frameworks, programming also networks are developing hugely. These frameworks have a significant job in our regular daily existence and they make human existence a lot simpler. Facial feeling acknowledgment framework accepts a ton of significance in this time since it can catch the human conduct, sentiments, goals and so on. The traditional strategies have restricted speed and have less precision while facial feeling acknowledgment framework utilizing profound learning has ended up being the better one [1]. This framework plans to construct a profound convolutional neural organization model that perceives 5 distinct human facial feelings and this can be utilized for applications like client criticism examination, facial unlocking etc [2]. The elements of the picture can be extracted by applying Haar channels Haar over the essential picture. There are three sorts of basic facial characteristics features as displayed (Figure. 1). Figure. 1. Characteristic features of Haar Cascade features for recognizing facial expression. RESEARCH METHODOLOGY Convolutional Neural Network Neural organization is a bunch of calculations that emulate the human mind and it tracks down a connection between the information to get arrangements utilizing these calculations. CNN is a sort of Neural Network where the numerical activity used to track down the relationship between the information is Convolution. Customary neural network bombs when coming to complex issues like picture order, video grouping, design acknowledgment, and so on yet CNN has made incredible progress in these applications, yielding great precision. CNN comprises of chiefly 4 Layers, viz. convolutional, pooling, dropout and completely associated layers. These layers together concentrate the highlights from the information. The calculation gains from the component, where the elements of interest are addressed by every convolution channel. The complete architecture of facial recognition using CNN model is displayed (Figure. 2). Figure. 2. Schematic view of proposed facial emotion recognition using DCNN model. The design for the proposed facial feeling acknowledgment model is illustrated in the above figure. The model uses two convolution layers with dropouts after every convolution layer. The information picture is resized to 32 x 32 and is given to the primary convolution layer. The result from the convolution layer, called highlight map, is gone through an enactment work. The initiation work utilized here is ReLU (Rectified Linear Unit) that makes the negative qualities zero while the positive qualities stay the exacty. This component map is given to the pooling layer of pool size 2 x 2 to diminish the size without losing any data. Dropout layer is utilized in order to lessen the overfitting. Utilizing python as the programming language, the model is carried out. For building the model, adding the convolution layers, gathering and fitting the model, Keras, which runs on top of tensorflow, is utilized as the profound learning library. Scikitlearn is the bundle utilized for tracking down the disarray grid that gives the exactness, accuracy, affectability, particularity, review, and so on of the model. For plotting the disarray network and other charts like exactness and misfortune, matplotlib and seaborn are utilized. RESULTS The dataset split results was displayed (Figure. 3). The dataset for the proposed model incorporates 5 distinct facial feelings viz. furious, glad, unbiased, pitiful and amazed. These are gathered physically utilizing a 56 M-Pixel camera. Each picture has a pixel size of 1930 x 2450. Each class comprises of the very number of preparing tests with the goal that they are not one-sided. The train-test-approval split is in the proportion 6:2:1. Figure. 3. Graph represents the dataset split results. CNN is prepared with the feeling picture dataset, using Adam as the enhancer and the all-out cross-entropy as the misfortune work. Adam is an enhancement calculation that can be utilized all things being equal of the old style stochastic angle plummet calculation to refresh the organization loads with individual learning rate for each of the loads. For each weight of the neural organization it employs first and second assessments of inclination to adjust the learning rate. Adam uses exponentially moving averages to estimate the moments. Moving averages of gradient and squared gradient The model parameters utilized for this present study was displayed (Figure. 4). Correspondingly, the classification results of the present classes includes different facial expression including angry, happy, neutral, sad and surprise was examined and the outcome of the study results was displayed (Figure. 5). Figure. 4. Model Parameters adapted in the present facial recognition research. Figure. 5. Accuracy percentage of different facial expression. Figure. 6. Schematic view of facial expression recognition using CNN model. This invention proposes a two-layer convolution network model for facial feeling acknowledgment. The model orders 5 distinct facial feelings from the picture dataset. The model has practically identical preparing exactness and approval precision which pass on that the model is throwing a tantrum and is summed up to the information. The model uses an Adam analyzer to lessen the misfortune capacity and it is tried to have a precision of 78.04%. The work can be stretched out to discover the progressions in feeling utilizing a video grouping which thus can be utilized for various genuine time applications like criticism examination, and so forth (Figure. 6). This framework can likewise be incorporated with other electronic gadgets for their powerful control.

(54) Title of the invention : A method of photocatalytic degradation of Azo dyes using Titanium Sulphide and Titanium Oxide nanocomposite

(51) International classification :B01J003500000, C02F000130000, B01J003703000, C02F000132000, C02F010130000

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(57) Abstract :
ABSTRACT A METHOD OF PHOTOCATALYTIC DEGRADATION OF AZO DYES USING TITANIUM SULPHIDE AND TITANIUM OXIDE NANOCOMPOSITE Aspects of present disclosure relate to a method of photocatalytic degradation of Azo dyes, more specifically, it pertains to a method of photocatalytic degradation of Azo dyes using Titanium Sulphide (TiS2) and Titanium Oxide (TiO2) nanocomposite. The TiS2–TiO2 photocatalyst was synthesized and characterized by co-precipitation method. This nano-junction two-component system exhibited good photocatalytic activity to degrade Acid Black 1 (AB 1) under UV light. H2O2 as an electron trap improves the photocatalytic activity of TiS2–TiO2 in UV light. Figure 3 shall be reference figure.

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(54) Title of the invention : Identifying Phishing Web by using Machine Learning Approach

(51) International classification :H04L0029060000, G06N0003080000, H04L0012580000, G10L0015220000, G06N0020000000

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(57) Abstract :
 Identifying Phishing Web by using Machine Learning Approach Abstract: People are increasingly attempting to obtain personal information through deceptive means. People who visit phishing websites receive an email and a pop-up window warning before anyone else can see them. This paper proposes a phishing detection system to assist users in locating blacklisted URLs, also known as phishing websites, while browsing or accessing a specific website. This method is explained in greater detail in the following section. It can be a good way to keep people from falling for scams if you use it to prove who you are and who you aren't.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : A research on planning and accident prevention system for surface- vehicles for improving safety and efficiency

<p>(51) International classification :G05D0001020000, G05D0001000000, G01C0021000000, G08G0001015000, G08G0001096800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.G.Suganya Address of Applicant :Assistant Professor Sriram Engineering College Perumalpet. thiruvallur taluk and district Pin:602024 ----- 2)Dr. S.KALIAPPAN 3)Mr. S.Socrates 4)Dr.R.Prabu 5)DHANA BHARATHI I. 6)Mr.D.Nanda kumar 7)Dr.Tulsidas D. 8)VIJAYAN S N 9)Mr. Raja Raju Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.G.Suganya Address of Applicant :Assistant Professor Sriram Engineering College Perumalpet. thiruvallur taluk and district Pin:602024 ----- 2)Dr. S.KALIAPPAN Address of Applicant :Associate Professor & Head of the Department of Mechanical & Mechatronics Engineering, Velammal Institute of Technology, Velammal Knowledge Park, Chennai Kolkatta High Road, Chennai - 601204. Tamil Nadu. India. ----- 3)Mr. S.Socrates Address of Applicant :Assistant Professor, Department of Mechanical Engineering , Velammal Institute of Technology, Velammal Knowledge Park, Chennai- Kolkatta High Road, Chennai 601204. Tamil Nadu India. ----- 4)Dr.R.Prabu Address of Applicant :Assistant Professor Mahendra Engineering College, Salem-Tiruchengode Highway, Mallasamudram, Namakkal Pin: 637503 State: Tamil Nadu Country: India ----- 5)DHANA BHARATHI I. Address of Applicant :Assistant professor , Department of Electricals and Electronics Engineering, SRIRAM ENGINEERING COLLEGE, Perumalpet.thiruvallur taluk and district Pin:602024, Tamil Nadu, India ----- 6)Mr.D.Nanda kumar Address of Applicant :Assistant professor , SRIRAM ENGINEERING COLLEGE, Perumalpet.thiruvallur taluk and district Pin:602024, Tamil Nadu, India ----- 7)Dr.Tulsidas D. Address of Applicant :Sapthagiri College of Engineering, Department of Mechanical Engineering,Chikkasandra,Hesarghatta main road, Bangalore-560057 ----- 8)VIJAYAN S N Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Karpagam Institute of Technology, Coimbatore. ----- 9)Mr. Raja Raju Address of Applicant :Assistant lecturer St. Joseph University in Tanzania, Tanzania -----</p>
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(57) Abstract :
A research on planning and accident prevention system for surface- vehicles for improving safety and efficiency Abstract: People all over the world are becoming more interested in automatic surface vehicles (ASVs) because they have the potential to be safer and more efficient. There have been new methods developed to reduce the risk of collisions, groundings, or stranding accidents at sea, as well as the time and money associated with them. This paper discusses path planning algorithms for self-driving surface vehicles, including how they work and how they can be used. In this class, we'll look at autonomous vessels, the regulatory framework, navigation and control components, technological advancements in the industry, and previous reviews of the subject matter in the field. Path planning terminology is also examined as part of this study to ensure that commonly used words are clear. This paper includes a summary and discussion of what we've learned about autonomous cars on roads and other surfaces at the end of the paper.

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(54) Title of the invention : Automatic Salt Segmentation With Unet In Python Using Deep Learning

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(57) Abstract :
 ABSTRACT A PROFICIENT ANALOGOUS MACHINE LEARNING-BASED BLOCK CHAIN FRAMEWORK The limitless potentials of machine learning have been exposed in numerous effective accounts and solicitations. Conversely, to ensure that the examined outcomes of a machine learning system are not interfered by any other sources and how to avoid the other usage in the similar network setting from effortlessly receiving our reserved data are two acute research concerns when we engross into influential machine learning-based schemes or solicitations. This condition is similar to other current information structures that challenge safety and secrecy problems. The expansion of block-chain delivers us a substitute way to discourse these two concerns. This is the reason that the current research have endeavored to improve machine learning systems with block-chain tools and also to smear machine learning techniques to implement in the block-chain schemes. To display what the amalgamation of block-chain and machine learning is proficient of exploit, this invention projected a comparable structure to novel out appropriate wired parameters of applying deep learning in a block-chain surroundings by consuming a metaheuristic system. Thus the projected structure also signifies into account the concern of communiqué budget, by restraining the number of data interactions among block-chain and miners.

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(19) INDIA

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(54) Title of the invention : Efficient Implementation of Modern Agriculture system by using IoT and AI Technologies

(51) International classification :G06Q0050020000, A01G0025160000, G01D0021020000, A01B0079000000, A01G0013020000

(86) International Application No :PCT//
Filing Date :01/01/1900

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(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

There are several uses for IoT in agriculture. It can be seen as a precursor to the current agricultural practices that have emerged afterward. Lands suitable for farming can be improved by a factor of several hundred or thousand more. Internet of Things may do it by gathering data and information on many elements, such as temperature, wind speed, humidity, rainfall, soil content, and insect infestation. This data may be used as a foundation for several different farming methods. As a result of making informed judgments, qualitative and quantitative techniques can benefit. As a further benefit, the effort necessary to monitor crops can be reduced by limiting the different hazards and wastes. Farmers can monitor soil temperature and moisture content from afar and may use IoT-derived information or data for appropriate fertilization regimens as a result. Agriculture is enormously important to every one of us. Every farmer in the world wants to improve both the quality and quantity of their crops via cutting-edge technology, paving the way for a better quality of life for everyone. Agriculture is essential to the survival of the human race as a whole. A basic necessity for living. We've developed a system that may aid inefficient farming, which is a must in agriculture to accomplish this goal. Agriculture is crucial for one and everybody. The need for food products is rising, with the expanding population. It's an Axiomatic declaration that relentless farmers of late are having deteriorated status of agricultural items due to farming. It seems strange that there is slow growth in the creation of technology in the agriculture sector that leads to pertinacious efforts resulting in qualitative and quantitative approaches. We have provided a system that ingress with the use of the newest technology, i.e., Internet of Things (IoT), in combination with Artificial Intelligence and Image Processing, compelling the agricultural in an effective method.

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : CLOUD COMPUTING AND BIG DATA BASED CONSTRUCTION ASSESSMENT SYSTEM FOR ANDROID APPLICATIONS

<p>(51) International classification :G06F0016245700, H04L0029080000, G06N0020000000, G06N0005040000, G06N0005020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr.R.Venkateswara Reddy Address of Applicant :Mr.R.Venkateswara Reddy , Assistant Professor , Department of Computer Science and Engineering ,CMR College of Engineering & Technology, Kandlakoya,Medchal,Hyderabad,Telangana - 501401, venkatreddyvari@cmrcet.ac.in, 9603904899 -----</p> <p>2)Mr. Rohit Kumar Verma</p> <p>3)Dr. Devkar Bhausaheb Sonaji</p> <p>4)Dr.Sateesh Nagavarapu</p> <p>5)Dr.V.Lokeswara Reddy</p> <p>6)Mrs.Parul Dubey</p> <p>7)Dr.Jayashri Prashant Shinde</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr.R.Venkateswara Reddy Address of Applicant :Mr.R.Venkateswara Reddy , Assistant Professor , Department of Computer Science and Engineering ,CMR College of Engineering & Technology, Kandlakoya,Medchal,Hyderabad,Telangana - 501401, venkatreddyvari@cmrcet.ac.in, 9603904899 -----</p> <p>2)Mr. Rohit Kumar Verma Address of Applicant :Mr. Rohit Kumar Verma, Assistant Professor, Department of MCA, Himachal Pradesh University Regional Centre, Mohli, Khaniyara, Dharamshala-176218, District Kangra, Himachal Pradesh -----</p> <p>3)Dr. Devkar Bhausaheb Sonaji Address of Applicant :Dr. Devkar Bhausaheb Sonaji, Assistant Professor of Geography, Sant Ramdas Art's Commere and Science College, Ghansawangi Dist. Jalna- 431209. Maharashtra. -----</p> <p>4)Dr.Sateesh Nagavarapu Address of Applicant :Dr.Sateesh Nagavarapu, Associate Professor, Department of Computer Science and Engineering, Malla Reddy Institute of Technology, Maisammaguda, Dhullapally, Komapally , Secunderabad, Telangana-500100 -----</p> <p>5)Dr.V.Lokeswara Reddy Address of Applicant :Dr.V.Lokeswara Reddy, Professor, Department of CSE,K.S.R.M College of Engineering, YerramasuPalli, Tadigotla(village), Chintakommadinne (Mandal),YSR Kadapa(District), Andhra Pradesh516004 -----</p> <p>6)Mrs.Parul Dubey Address of Applicant :Mrs.Parul Dubey, Assistant Professor, Department of Information Technology, Shri Shankaracharya Institute of Professional Management and Technology,Raipur-492015, Chhattisgarh -----</p> <p>7)Dr.Jayashri Prashant Shinde Address of Applicant :Dr. Jayashri Prashant Shinde, Assistant Professor, Department of Information Technology,PRES's Sir Visvesvaraya Institute of Technology, Chincholi,Dist. Nashik, Maharashtra -----</p>
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(57) Abstract :

Traditional Mobile applications evaluation procedures throughout contemporary institutions include several number significant drawbacks, among such particular includes this same confinement between separate evaluation platforms, therefore reducing overall productivity but instead capability for individual analyzing activities. The goal was a provide one foundation which encourages making the inclusion of both internet technologies using large information insights towards the same development of appropriate evaluation systems. This program's virtualized architecture enables them could acquire processing power with substantially reduced expense, allowing them to combine diverse evaluation approaches to produce increasingly varied but accurate examination findings. Big Data Analytics (BDA) may be done upon vast examination findings and gain a better understanding regarding overall program protection condition thanks to having more consolidated knowledge depository from these same clouds. Aggregation but instead visualizations methodologies used within BDA give a much broader understanding of fundamental underpinning protection concerns but also predictions regarding whether best enhance business communication resources. SOA may be used through overall computer architecture to increase overall accessibility on analyzing findings by allowing relevant material should become given accessible expandable operations from different organizations. Furthermore, providing a part demonstration of underlying architecture implementations, another experimentation platform was created dependent around this same suggested foundation.

No. of Pages : 19 No. of Claims : 5

(54) Title of the invention : A SYSTEM AND METHOD OF A SMART SHOPPING TROLLEY

(51) International classification :G06Q0030060000, G06N0020000000, B62B0003140000, H04L0029080000, G07G0001000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :
 The present invention relates to an IoT based smart shopping trolley. As technology evolves and sees new developments in various fields, including artificial intelligence, machine learning, so on, there are growing customer expectations in World Wide Web. With the rapidly changing lives, customers have absolutely no time to wait in long lines to do their jobs. We present a clever shopping method with RFID and Arduino controller in this invention. The trolleys in the shopping centers are a protocol so that they can verify the items placed in them automatically and the last bill is forwarded to a web application, available on any phone or handheld computer. The system is also subject to antitheft management, where the system allows no customer to take unchecked products.

No. of Pages : 20 No. of Claims : 5

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(21) Application No.202141058377 A

(19) INDIA

(22) Date of filing of Application :15/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : GARBAGE BIN OVERFLOW INDICATION SYSTEM AND METHOD

(51) International classification :B65F0001140000, G06F0012020000, B60R0025102000, G01B0017000000, A61B0005103000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A garbage bin overflow indication system (100), comprising: an ultrasonic sensor (108) to measure a weight of garbage present in a garbage bin (102); a location tracking unit (112) to capture a location of the corresponding garbage bin (102); a control unit (116) configured to: receive the measured weight of the garbage present in the garbage bin (102) from the ultrasonic sensor (108); compare the measured weight of the garbage present in the garbage bin (102) with a threshold weight; activate the location tracking unit (112) to capture the location of the garbage bin (102), when the measured weight of the garbage present in the garbage bin (102) is greater than the threshold weight; and enable a communication unit (114) to transmit a message indicating a garbage bin overflow condition and the captured location of the garbage bin (102) to a user device (104).

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : GRASS CUTTING MACHINE AND METHOD

(51) International classification :G05D0001020000, G01N0033000000, A01D0101000000, A61B0005040200, B61L0023040000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
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(57) Abstract :

A grass cutting machine (100), the machine (100) comprising: a body (102) that comprises a set of wheels (104a-104n) for maneuvering in a premise; a grass cutter (106); a camera (108) arranged on the body (102) and adapted to capture images; a distributed sensor unit (110) arranged on the body (102) that comprises a set of sensors; and a controller (112) connected to the distributed sensor unit (110) and adapted to: receive the detected environmental parameters from the distributed sensor unit (110); analyze a health data; receive data regarding the detected obstacle from the distributed sensor unit (110); command a driver circuit (114) to stop and/or divert the maneuvering of the body (102); receive captured images of the grass from the camera (108) and detect a shape of the grass from the received images; and trigger the grass cutter (106).

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : BEVERAGE COOLING APPARATUS AND METHOD

(51) International classification :F25D0031000000, B67D0001080000, F16H0003093000, C21D0001667000, F25D0025020000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :
 A beverage cooling apparatus (100) comprising: a frame (102) comprises elongated bars (104a-104d) and a top panel (106); a cooling chamber (108) arranged on the frame (102) and adapted to cool beverage bottles accommodated inside the cooling chamber (108), wherein the cooling chamber (108) comprises an ice bath (110); a primary shaft (112) arranged on the top panel (106) and adapted to be rotated on receiving a rotational energy from a prime mover (116); and secondary shafts (114a-114n) arranged inside the cooling chamber (108) and adapted to clasp the beverage bottles, wherein the primary shaft (112) transfers the rotational energy to the secondary shafts (114a-114n) to enable the beverage bottles to rotate inside the cooling chamber (108) at a pre-defined speed.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : SYSTEM AND METHOD FOR PREVENTING ACCIDENTS

(51) International classification :A61B0003113000, A61B0003100000, A61B0005047600, B60K0028060000, A61B0005000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :
 A system (100) for preventing accidents, the system (100) comprising: an eye blink detector (102) adapted to detect eye blinks of a driver for a specified duration of time; a processor (120) adapted to communicate with the eye blink detector (102), wherein the processor (120) is configured to: received a pattern of the detected eye blinks; analyze the pattern to detect an abnormality; trigger a de-acceleration unit (104) based on the detected abnormality; and trigger an alerting unit (116) based on the detected abnormality.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : BACTERIA ENCAPSULATED ALGINATE BEADS FOR PLANT GROWTH ENHANCEMENT

(51) International classification :C12N0011100000, C12N0011040000, A61K0031734000, C08L0005040000, A61K0009500000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

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(57) Abstract :

A method of encapsulation of plant growth-promoting bacteria in alginate beads (202), the method comprising steps of: adding an *Enterobacter tabaci* RAU2C bacterial suspension of (102) to a sodium alginate solution (204) contained in a beaker (208), wherein the bacterial suspension (102) is added in a fixed ratio of 1:9; filling the sodium alginate solution (204) into a syringe (210); dispensing the sodium alginate solution (204) from the syringe (210) in a dropwise manner into a petri plate (212) containing calcium chloride (CaCl₂) (206) to form the alginate beads (202), wherein the calcium chloride (CaCl₂) (206) is of a molar concentration of 0.2M; solidifying the alginate beads (202) at room temperature formed in the petri plate (212) for a period of 12 hours; washing the formed alginate beads (202) with sterile water, wherein the washing is performed twice.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : Extreme Learning Machine (ELM) based Deep Learning model for Diabetes Prediction

<p>(51) International classification :G06K0009000000, G16H0010600000, A61B0005045200, A61B0005000000, A61K0038000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Robert Theivadas Address of Applicant :Plot No 11, F2-Holly Oak Apartments, Nisha Avenue-II, Rajakilpakkam, Chennai-73 ----- 2)Ms. Nayana Vaity. 3)Mr. Dnyaneshwar Thombre 4)Ms. Shweta Barshe. 5)Mr. Vishav Kapoor 6)Mr. Anshul Oza 7)Dr. Prateek Nahar 8)Dr. Rakesh Kumar Mahendran Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Robert Theivadas Address of Applicant :Plot No 11, F2-Holly Oak Apartments, Nisha Avenue-II, Rajakilpakkam, Chennai-73 ----- 2)Ms. Nayana Vaity. Address of Applicant :Asst Professor, Department of CSE, Terna Engineering college, Navi Mumbai, ----- 3)Mr. Dnyaneshwar Thombre Address of Applicant :Associate professor, Department of CSE, Terna Engineering college, Navi Mumbai. ----- 4)Ms. Shweta Barshe. Address of Applicant :Assistant Professor, Department of CSE, Bharati Vidyapeeth College of Engineering, Navi Mumbai ----- 5)Mr. Vishav Kapoor Address of Applicant :Assistant Professor, (ECE)/Manager, (Industry Interface), DAVIET, Kabir Nagar, Jalandhar-144008 ----- 6)Mr. Anshul Oza Address of Applicant :Assistant Professor, IPSA-IES, Indore, Institute of Engineering & Science IPS Academy Knowledge Village, Rajendra Nagar A.B. Road, Indore-452012 ----- 7)Dr. Prateek Nahar Address of Applicant :Assistant Professor, IPSA-IES, Indore, Institute of Engineering & Science IPS Academy Knowledge Village, Rajendra Nagar A.B. Road, Indore-452012 ----- 8)Dr. Rakesh Kumar Mahendran Address of Applicant :Department of ECE, Vel Tech Multitech Dr. Rangarajan Dr. Sakuthala Engineering College, Chennai-600062, Tamil Nadu. -----</p>
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(57) Abstract :

Diabetes is a major risk to one's health since it causes a variety of additional diseases (problems), including blindness, heart disease, renal failures, diabetic (gangrene) foot that necessitates amputation, and strokes, to name a few. Diabetes mellitus (DM) is a serious disease that has long-term consequences and is related to a variety of medical issues. It has become one of the world's most dangerous diseases, albeit is not fatal. Since healthcare records from various sources are gathered and the essential to the research for identifying diabetes independently are analyzed, the proposed method has a broader application. Information gathering, pre-processing, variable choice, and identification are all steps in achieving the purpose of this project. The Extreme Learning Machine (ELM) classifiers are used to identify diabetes. Through altering the classifiers and previous methodologies, the proposed approach's performance is evaluated concerning disease identification accuracy, recall, precision, and time utilization. Utilizing a deep learning technique, this research report proposes an approach for diabetic classification and typical HRV signals. Having 95.8% accuracy, the proposed categorization system may assist clinicians in diagnosing diabetes utilizing ECG data.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : AN ECONOMIC MODEL TO THE INDUSTRY USING REAL-TIME OPTIMIZER

(51) International classification :F02D0041300000, H04L0012815000, G01R0031384200, C01B0032184000, F24S0020000000

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(57) Abstract :

Throughout contemporary controlling approach implementations to commercial procedures, economical operational excellence has remained the important significant focus. That cumulative socioeconomic expenditure related between dynamical progressions before this same eventual relatively stable period generally referred regarded have overall achievement. This same addition of functional Economical Modeling Prediction Controllers (EMPC) into this same manufacturing architecture, which consists primarily of overall Real Time Optimizer (RTO) accompanied with the first upgraded regulator EMPC, provides another good strategy towards improving performances.Modeling incompatibility across layering, on the other hand, might cause impracticality but also eventual subsequent fixed execution malfunction. This study introduces any new offset-free EMPC approach that allows algorithms soundness even when processing restrictions but also modeling incompatibility exists. Concerning that greatest feasible fairly constant, converging but also counterbalanced features remain ensured. Another Dynamic Target Optimization (DTO) generation including another EMPC phase is included within this method. Because achieve overall best potential effectiveness, effective stabilizer formulas typically devised both diffusive but also quasi subsystems, appropriately.Furthermore, illustrations of common pharmaceutical plants are used to demonstrate this technique. These same outcomes reveal even within any organizationally manner regulated systems without overall focus towards productivity enhancement, this same counterbalanced EMPC strategy matches effectively.

No. of Pages : 15 No. of Claims : 3

(54) Title of the invention : BIOMETRICS BASED LOCKER SECURITY SYSTEM AND METHOD

(51) International classification :G06K0009000000, G10L0015020000, G06K0009620000, G10L0025210000, G10L0025780000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Title: BIOMETRICS BASED LOCKER SECURITY SYSTEM AND METHOD ABSTRACT A biometrics-based locker security system (100) comprising: a processing circuitry (112); a storage medium (114) comprises: a data collection module (200) to receive voice signals and images/videos of a face; a data processing module (204) pre-processes the voice signals and images/ videos; a feature extraction module (206) extracts voice features and facial features; a training module (208) accesses the voice features and facial features to utilize as a first set of training data and a second set of training data; a data comparison module (210) compares the voice features with the first set of training data; compares the facial features with the second set of training data, when the voice features are matched with the first set of training data; an output module (212) displays a first notification and a name of an authenticated user when the facial features are matched with the second set of training data. Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : SPEECH BASED SECURITY SYSTEM

(51) International classification :G10L0025780000, G06K0009620000, G10L0015020000, G10L0021020000, G10L0015200000

(86) International Application No :PCT//
Filing Date :01/01/1900

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(57) Abstract :
 Title: SPEECH BASED SECURITY SYSTEM ABSTRACT A speech recognition system (100), comprising: a data collection module (200) to receive captured voice signals from a voice capturing unit (102); a data processing module (204) to: pre-process the captured voice signals for removing noise and silence from the voice signals by using a Voice Activity Detection (VAD) technique; and extract features from the pre-processed voice signals. The system (100) further comprising: a training module (206) configured to access the extracted features stored in a memory (112) to utilize the extracted features as training data; and build an age classifier (114) and a gender classifier (116) with the training data. The system (100) further comprising: a data comparison module (208) to compare the extracted features of the voice signal with the training data; and an output module (210) to generate a message comprising a user is authenticated when the extracted features of the voice signal matched with the training data. Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED BREAST CANCER DETECTION BY NEURO FUZZY LOGIC

(51) International classification :H04L0029080000, A61B0017340000, G16H0040670000, G16H0040630000, A61B0005050000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention relates to artificial intelligence based breast cancer detection in human body. The system involves front end hardware based on IoT that can be operated using smart application along with AI platform and cloud database for detection of breast cancer. The proposed invention comprises of user control unit (106), Raspberry pi kit (108), buzzer (105) and android application (109). Herein WI-FI module (111) is additional adapted which connect the system wirelessly through adaptive configuration to caretaker mobile phone. After the development was outlined in general, the system architecture of the innovation postulated was illustrated in figures 1 and 2.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : An autoimmune disease detection and notification using machine learning for covid-19 patients

(51) International classification :C12Q0001688300, G06N0020000000, G06Q0030080000, G16H0010600000, G16H0050200000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :
 Hereditary inclination, ecological elements and insusceptible framework dysregulation are three components that responsible for advancement to immune system infection. The present invention relates an autoimmune disease detection and notification using machine learning for covid-19 patients, Immune system illnesses are ongoing, multifactorial conditions. Through AI (ML), a part of the more extensive field of man-made reasoning, it is feasible to remove designs inside understanding information, and take advantage to anticipate patient results for worked on clinical administration. The utilization of ML strategies to resolve clinical issues in immune system sickness is reviewed.

No. of Pages : 12 No. of Claims : 1

(54) Title of the invention : Face Recognition using a Novel Deep Learning Techniques and its Impact on human resource management of profit-oriented organizations

<p>(51) International classification :G06K0009000000, G06K0009620000, G06Q0010060000, G06Q0010100000, G06Q0020400000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)G.S. Raghavendra Address of Applicant :Asst Professor, CSE, RVR & JC College of Engineering -----</p> <p>2)Priyabrata Swain 3)Dr. R. Jothilakshmi 4)Shalini Rana 5)ABINASH RATH 6)Dr. Deepti Sharma 7)Ms.A.Jagadhambal 8)Syed Nisar Hussain Bukhari 9)D. Usen 10)Abhay Kolhe 11)Alpesh Arvindbhai Vaghela 12)Dr. Anilkumar Suthar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)G.S. Raghavendra Address of Applicant :Asst Professor, CSE, RVR & JC College of Engineering -----</p> <p>2)Priyabrata Swain Address of Applicant :PhD Research Scholar, Business Management, C.V. Raman Global University, Bhubaneswar, Odisha, India -----</p> <p>3)Dr. R. Jothilakshmi Address of Applicant :Assistant Professor and Head, PG and Research department of Mathematics, Mazharul Uloom College, Affiliated to Thiruvalluvar University, Ambur, Tamil Nadu, India -----</p> <p>4)Shalini Rana Address of Applicant :Assistant Prof (senior), Department of English, Government College of Education Jammu, Affiliated to Cluster University of Jammu, J&K, India -----</p> <p>5)ABINASH RATH Address of Applicant :Assistant Professor, School of Business, The Assam Kaziranga University, Jorhat 785006, Assam, India -----</p> <p>6)Dr. Deepti Sharma Address of Applicant :Associate Professor, Business Studies, Uttaranchal University, Dehradun, Uttarakhand, India -----</p> <p>7)Ms.A.Jagadhambal Address of Applicant :Assistant professor, Department of business administration(UG), Dr.SNS Rajalakshmi college of arts and science, Coimbatore, India -----</p> <p>8)Syed Nisar Hussain Bukhari Address of Applicant :Scientist-C, National Institute of Electronics and Information Technology (NIELIT), MeitY, Govt. of India, Srinagar, J&K, India -----</p> <p>9)D. Usen Address of Applicant :School of Electronics Engineering, VIT-AP University, Amaravati, Andhra Pradesh 522237, India -----</p> <p>10)Abhay Kolhe Address of Applicant :Assistant Professor, Mukesh Patel School of Technology Management and Engineering, NMIMS, Mumbai, Maharashtra, India -----</p> <p>11)Alpesh Arvindbhai Vaghela Address of Applicant :Programmer, GMB Polytechnic, Rajula, Gujarat, India -----</p> <p>12)Dr. Anilkumar Suthar Address of Applicant :-403, Shukan Sky, Near City Pulse Campus, Kudasan, Gandhinagar, Gujarat, India -----</p>
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(57) Abstract :
The present invention relates to face recognition using a novel deep learning techniques and its impact on human resource management of profit-oriented organizations. Said method consisting the steps of: detecting face and acquisition of face image database (masked faces, unmasked faces, and partially masked face images) using smart devices; pre-processing and filtering of the captured face database; processing the pre-processed grayscale image ; extracting discriminatory features from the pre-processed and enhanced by the deep learning models/frameworks; storing captured face image database obtained in step with other user’s recorded information and assigning an unique number to each users in a server based database; identifying/classifying the test face image of individuals by comparing the stored face image database in step to a extracting features from the captured in real time using deep learning techniques; wherein the method and system utilize the web services/interfaces for getting face images as test data from users for accurate matching with stored facial features; after the matching of facial features, and wherein the learning system enables users to use it as working Android system to detect people in crowd near. Face recognition assist an effective HRM which further in developing human resources into high quality and efficient workforce thus enabling the organisation to obtain a competitive advantage through their people. In contrast, inefficient workforce can increase labour cost and decrease organisation productivity.

No. of Pages : 9 No. of Claims : 1

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING AND CONTROLLING CONCENTRATION LEVEL OF HARMFUL GASES

<p>(51) International classification :G01N0033000000, F01N0011000000, F01N0009000000, G08B0021120000, G08B0021140000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kalasalingam Academy of Research & Education Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. A. Ramkumar Address of Applicant :Associate Professor / EEE, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu. ----- -----</p> <p>2)Dr. K. Rajesh Address of Applicant :Associate Professor / EEE, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu. ----- -----</p> <p>3)Mrs. P. Priya Address of Applicant :Assistant Professor / EEE, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu ----- -----</p> <p>4)T. Vaigaiselvam Address of Applicant :Final year B. Tech (EEE), Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur Virudhunagar District, Tamil Nadu ----- -----</p> <p>5)S. Saravanavel Address of Applicant :Final year B. Tech (EEE), Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur Virudhunagar District, Tamil Nadu. ----- -----</p> <p>6)M. Ponvijayapaundian Address of Applicant :Final year B. Tech (EEE), Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur Virudhunagar District, Tamil Nadu. ----- -----</p>
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(57) Abstract :

Title: SYSTEM AND METHOD FOR MONITORING AND CONTROLLING CONCENTRATION LEVEL OF HARMFUL GASES ABSTRACT A system (100) for monitoring and controlling a concentration level of harmful gases, the system (100) comprising: gas sensors (102a-102n) configured to detect the concentration level of the harmful gases in an atmosphere, wherein the concentration level of the harmful gases is measured in parts per million (PPM); a controller (116) configured to: receive the detected concentration level of the harmful gases from the gas sensors (102a-102n); compare the detected concentration level of the harmful gases with a threshold concentration level; activate a relay (110) to close corresponding valves (108a-108m) when the detected concentration level of the harmful gases is greater than the threshold concentration level; and activate motors (112a-112p) to open corresponding doors when the detected concentration level of the harmful gases is greater than the threshold concentration level.
Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : MULTI-STAGED WASTE TREATMENT SYSTEM AND METHOD

<p>(51) International classification :A01C0021000000, C02F0011040000, G01N0001280000, G01N0033240000, E21B0025000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kalasalingam Academy of Research & Education Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr C. Shilaja Address of Applicant :Assistant Professor / EEE, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur Virudhunagar District, Tamil Nadu. -----</p> <p>2)Mrs. P. Priya Address of Applicant :Assistant Professor / EEE, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur Virudhunagar District, Tamil Nadu. -----</p>
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(57) Abstract :

Title: MULTI-STAGED WASTE TREATMENT SYSTEM AND METHOD ABSTRACT A multi-staged waste treatment system (100), the system (100) comprising: an analyzing module (300) configured to analyze soil samples collected from wastelands, wherein the soil samples are analyzed for physiochemical parameters selected from an isoelectric point (pH), an electrical conductivity, total dissolved solids, sodium, potassium, phosphate, chlorate, perchlorate, nitrogen or a combination thereof; and a soil treatment module (304) configured to: perform a primary treatment of the analyzed soil samples in a primary tank (202) using aquatic weed plants (212); perform a secondary treatment of the primary treated soil samples in a secondary tank (206) using anaerobic microorganisms (214); and perform a tertiary treatment of the secondary treated soil sample in a tertiary tank (210) using rhizophores of a reed plant system (216). Claims:10, Figures: 4 Figure 1 is selected

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058578 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING OSTEOARTHRITIS USING IMAGE ENHANCEMENT TECHNIQUES

(51) International classification :G06T0007000000, A61B0005055000, G06T0007130000, G06T0007120000, G06Q0050220000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :

Title: SYSTEM AND METHOD FOR DETECTING OSTEOARTHRITIS USING IMAGE ENHANCEMENT TECHNIQUES

ABSTRACT A system(100) for detecting osteoarthritis, comprising: an image receiving module (204) to receive a medical image of a knee from a user device (102) such that the medical image is a Magnetic Resonance Imaging; a control point selection module (206) to select control points in the received medical image; an image filtration module (208) to remove noise; an edge detection module (210) to: apply an edge detection algorithm on the filtered medical image to identify cartilage edges; and enable the control points to be adjusted automatically to the detected cartilage edges; a cartilage analysis module (212) to measure a cartilage thickness of the knee where Tibia and Femur bones meet; and an osteoarthritis detection module (214) to determine a type of the osteoarthritis based on the cartilage thickness, wherein the determined type of the osteoarthritis represents an output as a normal knee or a knee osteoarthritis. Claims: 10, Figures:3 Figure 1 is selected.

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : IMPROVED AUTHENTICATION AND COMPUTATION OF MEDICAL DATA TRANSMISSION IN THE SECURE IOT USING HYPERELLIPTIC CURVE CRYPTOGRAPHY.

<p>(51) International classification :H04L0009300000, G06F0007720000, H04L0009080000, H04L0009140000, A61M0016140000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Kaushik Sekaran (Associate Professor) Address of Applicant :Department of Computer Science & Engineering, Mahatma Gandhi Institute of Technology Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO) Ranga Reddy Dist. HYDERABAD - 500075, TELANGANA. Mobile: +91-8015628957. -----</p> <p>2)Dr. K. Mariyappan (Assistant Professor)</p> <p>3)Dr. Prasanna Seshapu</p> <p>4)Dr. B.K. Sarkar (International Patent Motivational Speaker)</p> <p>5)Dr. Reena Singh (CEO- GEH Research)</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Kaushik Sekaran (Associate Professor) Address of Applicant :Department of Computer Science & Engineering, Mahatma Gandhi Institute of Technology Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO) Ranga Reddy Dist. HYDERABAD - 500075, TELANGANA. Mobile: +91-8015628957. -----</p> <p>2)Dr. K. Mariyappan (Assistant Professor) Address of Applicant :Department of computer science and engineering, Faculty of Engineering and Technology, Jain deemed to be university Kanakapura, Bangalore, Pincode: 560082. -----</p> <p>3)Dr. Prasanna Seshapu Address of Applicant :Department of Electronics and Instrumentation engineering, Vignan Institute of technology and Science, Deshmukhi, Hyderabad, Pincode: 508284. -----</p> <p>4)Dr. B.K. Sarkar (International Patent Motivational Speaker) Address of Applicant :GEH Research , Bhugaon , Pune- 410021, MH, India. -----</p> <p>5)Dr. Reena Singh (CEO- GEH Research) Address of Applicant :GEH Research , Bhugaon , Pune- 410021, MH, India. -----</p>
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(57) Abstract :

ABSTRACT Our Invention Improved authentication and computation of medical data transmission in the secure IoT using hyperelliptic curve cryptography is a Versatile client are expanding dramatically to take on pervasive administrations presented by different areas. This has stood out for a safe correspondence structure to get to e-wellbeing information on cell phones. The wearable sensor gadget is appended to the patient's body which screens the pulse, internal heat level, serum cholesterol, glucose level, and so forth in the proposed secure structure, first, the assignment begins with the patient confirmation, after that the sensors gadget connected to the patient is initiated and the sensor upsides of the patient are sent to the cloud server. The patient's biometrics data has been added as a boundary notwithstanding the client name and secret key. The validation conspire is begat with the SHA-512 calculation that guarantees trustworthiness. To safely send the sensor data, the technique follows two sorts of encryption: Substitution-Ceaser figure and worked on Elliptical Curve Cryptography (IECC). Though in further developed ECC, an extra key (secret key) is created to improve the framework's security. Along these lines, the complexity of the two stages is increased. The computational expense of the plan in the proposed system is $4H + E_c + D_c$ which is not exactly the current plans. The normal relationship coefficient esteem is around 0.045 which is near zero shows the strength of the calculation. The got encryption and decoding time are 1.032 μ s and 1.004 μ s individually. The general presentation is investigated by contrasting the proposed further developed ECC and existing Rivest-Shamir-Adleman (RSA)and ECC calculations

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058590 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : CLASSIFICATION AND GRADING OF LESIONS IN DIABETIC RETINOPATHY USING ARTIFICIAL INTELLIGENCE TECHNIQU

(51) International classification :G06N0003040000, A61B0003120000, G06T0007000000, G06T0007110000, G06K0009620000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

Diabetic Retinopathy (DR) is a type of eye disease that occur during diabetic condition which can harm the retina resulting in blindness.. The work aimed to eradicate this problem by identifying the various types of lesions using an automated segmentation approach based on deep neural convolutional network (ConvNet). Also, there can occur morphological variations in retina leading to less blood flow across the retina, which can decline the pericytes cells too. As initially stage of diabetic retinopathy has no symptoms the patient is not aware at onset of disease, which creates risk. Hence, early detection and automated diagnosis has become necessary to avoid visual damage. In this work, retinal defects of DR such as exudates, haemorrhages, microneurysms are accurately identified using proposed segmentation methods from digital fundus images and also the grades of DR as mild, moderate, severe, No PDR, PDR were labelled precisely from the obtained fundus images. This was achieved using Deep Convolutional Neural Network (DCNN), trained using VGG-19. The classification of diabetic retinopathy (DR) using color fundus images needs proper feature extraction methods to classify and detect the existence and relevance of various subtle small features , as well as an efficient classification system, drives this as cumbersome and labor intensive. Finally the proposed system is implemented by using zynq board.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058688 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : DEVELOPMENT OF SMART AND USER FRIENDLY IOT DEVICE FOR WOMEN SAFETY

<p>(51) International classification :G08B0025010000, H04L0029080000, G08B0021020000, H04W0004800000, G06Q0050260000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Geethanjali College of Engineering and Technology (Autonomous) Address of Applicant :Cheeryal (V), Keesara (M), Medchal Dist., Telangana - 501 301, India. -----</p> <p>2)Dr Vallisree Sivathanu 3)Dr Saladi Saritha 4)Dr Spandana Paramkusham Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Vallisree Sivathanu Address of Applicant :Associate Professor, Dept of ECE, Geethanjali College of Engineering and Technology, Hyderabad, Telangana-501301, India -----</p> <p>2)Dr Saladi Saritha Address of Applicant :Associate Professor, Dept of ECE, Geethanjali College of Engineering and Technology, Hyderabad, Telangana-501301, India. -----</p> <p>3)Dr Spandana Paramkusham Address of Applicant :Associate Professor, Dept of ECE, Geethanjali College of Engineering and Technology, Hyderabad, Telangana-501301, India. -----</p>
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(57) Abstract :

The current invention is meant for realizing a smart and user-friendly device for women safety. In the wake of incidents such as molestation, indiscipline behaviours at work place and sexual harassments it is indispensable to have sustained research and development for women safety. With technological innovations such as Internet of Things (IoT), it became possible to have smart devices or tools for women safety. Towards this end, the current invention is the IoT integrated smart device for women safety. The women safety device is user friendly and it can be operated either manually or automatically. The device is equipped with two sensors such as heart beat sensor and pressure sensor. The two sensors produce sensed data periodically. Appropriate thresholds to the readings of the sensors are set. The device has buzzer feature to notify when the readings go beyond the threshold which probably occurs when women faces any danger. With GSM module and SMS feature, the device can notify nearby rescue teams. In addition to this, the smart women safety device, with GPS, can send victim's location to respective mobile devices of police, family members and friends as needed. The current invention is beneficial to many stakeholders such as general public, working women, women at public places, governments and woman safety departments besides researchers and academia.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058735 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Bionic Eye – Visual Cortical Prosthesis System

<p>(51) International classification :A61N0001372000, A61N0001050000, A61B0005040000, A61F0002720000, A61K0031661000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Bhavathy K Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p> <p>2)Keerthi P Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p> <p>3)Dr Kavitha P Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p> <p>4)T.Magesh Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p> <p>5)Dr.Geetha Ramadas Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p>
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(57) Abstract :

The objective of the present invention is to design and develop a bionic eye that potentially treats any cause of blindness other than cortical damage like blindness due to eye injury, optic nerve disease, glaucoma, retinopathies etc. The visual cortical prosthesis system is a chronically-implanted subdural electrode array intended to induce visual percept in patients who are profoundly blind from various causes of non-cortical etiology. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : Design and Fabrication of Robotic Arm for Painting Operation

<p>(51) International classification :B25J0019000000, G06Q0010060000, B05B0013020000, B25J0009160000, B25J0005020000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ashwin Kumar R B Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>2)Avinash M Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>3)Balaji K Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>4)Sengottaiyan K Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>5)Dr.K Senth Kumar Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p>
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(57) Abstract :

A design and fabrication of robotic arm for painting operation is described in the present invention. The robotic arm can paint the walls of building which eliminates the hazards caused due to the painting chemicals to the human painters such as eye and respiratory system problems and also the nature of painting procedure that requires repeated work and hand rising makes it boring, time and effort consuming. The present robot is cost effective, reduces work force for human workers, and reduces time consumption. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : Boundary Attentive System for Angler

<p>(51) International classification :H04W0072040000, H04M0007000000, H04J0014020000, G08B0021020000, G08B0013140000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. B.Sarala Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>2)Dr. T. Suresh Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>3)Pari Yogeshwaran. S Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>4)Mughilan. V Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>5)Rahul. R Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p>
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(57) Abstract :
A border attentive system for angler has been described in the present invention. The present invention eliminates that delay and enables the base station to receive the alert message on time thereby ensuring the safety of the fishermen from man-made threats and natural calamities. Other than that, this method can be used pretty much any need to keep track someone's location where the cell network connections are of no use. (Refer Fig. 1 & 2)

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058739 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : 3D Print Surface Smoothing by Mechanical Smoothing Multi-Axis Probe

(51) International classification :B29C0048920000, B33Y0050020000, B41J0002175000, B29C0064295000, C08K0005540000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A 3-D printed component surface smoothing with real-time smoothing multi-axis probe is a retro fitting component to the extruder of the 3d printer which follows with the movement of the extruder. It comprises of 3stepper motors controlling horizontal, vertical and rotational movement of the smoothing probe and the probe ensures the printed surface is smoothed as it is printed in real-time. This unit is connected to the printer drive module (motherboard) of the printer which is controlled by G-codes. (Refer Fig. 1)

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058740 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Automatic Tyre Pressure Inflation System

<p>(51) International classification :B60C0023040000, B60C0023000000, G01L0017000000, B29D0030000000, H03B0005320000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Sam Bennyhinn Hongton K Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p> <p>2)Sandeep R Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p> <p>3)Sakthivel M Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206 -----</p> <p>4)R. Suresh kumar Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p>
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(57) Abstract :

The objective of the present invention is to design and develop an automatic tyre pressure inflation system. automatic because it checks the tyre pressure continuously using built control device and accordingly gives alert signals to the driver about the tyre condition. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : Continuous Power Supply from Solar Panel by using IRLED Lights

<p>(51) International classification :E06B0009680000, H05B0045480000, G05D0023190000, G09F0013220000, G03G0015000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dharaneesvaran.D Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>2)S.Gopinath Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>3)L.Annie Isabella Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>4)Y.Alexander Jeevanantham Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>5)Dr.Geetha Ramadas Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p>
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(57) Abstract :

The LDR senses as day or night and sends the analog value to the controller. The LDR varies the resistance depending on the light fall. The LDR, LCD display, IOT are powered from the battery through the controller. The IR LEDs and the relay are powered directly from the battery. The driver circuit is used for the clockwise and anticlockwise rotation of the motor for the opening and closing of the shutter. (Refer Fig. 1)

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058742 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Alloy based Binding Wire to Prevent Corrosion

(51) International classification :C22C0021100000, C23F0013160000, C04B0111260000, C25D0011380000, C22F0001053000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The objective of the present invention is the development of binding wire made of zinc, magnesium and aluminium will be ribbed with steel binding wire in use, which will act as a sacrificial anode in the Reinforced concrete element. The main objective of this present invention is to develop aluminium, Zinc and magnesium based binding wire which will act as anode for cathodically protecting the steel embedded in Concrete in marine environment. To measure the concrete resistance by corrosion monitoring sensor. (Refer Fig. 1)

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058753 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : LOW-COST PROTEIN RICH ANIMAL FEED FROM SILKWORM PUPAE WASTE

(51) International classification :A61K0036899000, A23K0010300000, C10L0005440000, A61K0036220000, A23K0020189000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

An animal feed (100) composition comprising a mixture of 35% by weight of silkworm pupae waste (102); 10% by weight of biscuit waste (104); 15% by weight of wheat and rice bran mix (106); 10% by weight of rice flour (108); 8% by weight of cashew grains (110); 10% by weight of dried fish (112); 7% by weight of vegetable waste (114); 1% by weight of sugarcane leaf extract (116); and 1% by weight of rice milk (118).

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058754 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SMART ARMY JACKET

(51) International classification :A61B0005000000, A61B0005010000, A61B0005020500, H04W0004020000, A61B0090000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

A smart army jacket (100) comprising: a wearable textile (102) adapted to be worn by a person; a set of Peltier elements (104a-104n) arranged on the wearable textile (102) and configured to adjust an internal temperature for comforting the person; a compressor unit (106) arranged at a pre-defined location on the wearable textile (102) and configured to initiate a cooling and an air ventilation for comforting the person; a sensor unit (108) adapted to detect a surrounding temperature and/or the internal temperature underneath the wearable textile (102); a processing unit (114) connected to sensor unit (108) and configured to: receive the detected surrounding temperature and the internal temperature from the sensor unit (108); compare the detected surrounding temperature with a first pre-stored threshold level; compare the detected internal temperature with a second pre-stored threshold level; and trigger the Peltier elements (104a-104n) and/or the compressor unit (106) for adjusting the temperature.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058755 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : WATER QUALITY MONITORING SYSTEM AND METHOD

(51) International classification :C02F0001660000, G01N0033000000, G01N0033180000, G06Q0030060000, B25J0019020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A water quality monitoring system (100) comprising: a first sensor unit (102) arranged in proximity of a water supply unit (104), comprises a potential of hydrogen (pH) sensor; a second sensor unit (108) arranged at a pre-defined location in a field and adapted to detect field parameters, and a control unit (112) connected to the first sensor unit (102) and the second sensor unit (108), configured to: receive the detected potential of hydrogen (pH) of water from the first sensor unit (102); receive the detected field parameters from the second sensor unit (108); analyze the received potential of hydrogen (pH) of water based on a pre-stored safe range; analyze the received field parameters based on pre-stored threshold values for each of the field parameters; and transmit an alert message to a user device (114).

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058782 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ORTHODONTIC BRACKET HOLDER WITH DUAL ROTATING HEIGHT POSITIONING GAUGE

(51) International classification :A61C0007140000, G01B0005200000, G01B0005240000, G01B0005250000, F24D0019020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

TITLE: ORTHODONTIC BRACKET HOLDER WITH DUAL ROTATING HEIGHT POSITIONING GAUGE APPLICANT: ADHIPARASAKTHI DENTAL COLLEGE AND HOSPITAL ABSTRACT The present invention discloses an Orthodontic bracket holder with Dual rotating height positioning gauge comprises of a bracket holder [1] having two 'C' shaped construction which acts as a spring to hold brackets. The bracket holder [1] is integrated with a. a gauge holder[2] and a measurement gauge[3] at one end by a yoke[4] and a hinge[5]in which the measurement gauge[3] is positioned inside the gauge holder[2] through a pinned hinge[6] thereby i. the measurement gauge[3] can be rotated through a 180-degree arc, ii. the gauge holder[2] can be rotated axially 90 degree both side iii. the bracket holder[1]can be rotated axially 180 degrees b. a planar extension[7] which cooperate with a spring-biased pin in the center of the yoke[4] to supply a detent function which holds the gauge holder[2] in a position of straight axial alignment or positions 45 and 90 degrees on either side of the longitudinal axis.

No. of Pages : 17 No. of Claims : 3

(54) Title of the invention : DESIGN A SERVER OF TRUST IDENTITY MODEL FOR SPAM MESSAGE BY MACHINE LEARNING

<p>(51) International classification :H04L0012580000, H04L0029060000, G06Q0010100000, G06F0013000000, G06Q0030000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr.R.Venkateswara Reddy Address of Applicant :Mr.R.Venkateswara Reddy , Assistant Professor , Department of Computer Science and Engineering , CMR College of Engineering & Technology, Kandlakoya, Medchal, Hyderabad,Telangana - 501401, venkatreddyvari@cmrcet.ac.in, 9603904899 -----</p> <p>2)Ms. Amreen Khan</p> <p>3)Ms.P.Vishalini</p> <p>4)Mr.Krishna Kumar Joshi</p> <p>5)Ms.Neeta Bhusal Sharma</p> <p>6)Ms. Rita Roy</p> <p>7)Mr.Rahul Neware</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr.R.Venkateswara Reddy Address of Applicant :Mr.R.Venkateswara Reddy , Assistant Professor , Department of Computer Science and Engineering , CMR College of Engineering & Technology, Kandlakoya, Medchal, Hyderabad,Telangana - 501401, venkatreddyvari@cmrcet.ac.in, 9603904899 -----</p> <p>2)Ms. Amreen Khan Address of Applicant :Ms. Amreen Khan, Assistant Professor, Department of Computer Engineering, Bajaj Institute of Technology, Pipri,Wardha, Maharashtra 442001 -----</p> <p>3)Ms.P.Vishalini Address of Applicant :Ms.P.Vishalini, Assistant Professor, Department of Computer Science, Singareni Collieries Women's Degree & PG College, Kothagudem, Telangana-507101 -----</p> <p>4)Mr.Krishna Kumar Joshi Address of Applicant :Mr.Krishna Kumar Joshi, Assistant Professor, Department of Computer Science & Application, ITM University Gwalior, Gwalior (Madhya Pradesh) - 474011, krishnakjoshi@gmail.com , 8871073213 -----</p> <p>5)Ms.Neeta Bhusal Sharma Address of Applicant :Ms.Neeta Bhusal Sharma, Assistant professor, Department of Computer Science & Engineering Shri Ramswaroop Memorial University,Lucknow,Uttar Pradesh-225003 -----</p> <p>6)Ms. Rita Roy Address of Applicant :Ms. Rita Roy , Assistant Professor, Department of Computer Science and Engineering, Vignan's Institute of Engineering for Women, Kappujaggaraopeta, Visakhapatnam - 530 046, Andhra Pradesh -----</p> <p>7)Mr.Rahul Neware Address of Applicant :Mr.Rahul Neware,PhD Research Fellow,Department of Computing, Mathematics and Physics , Høgskulen på Vestlandet,Inndalsveien 28, 5063 Bergen, Norway -----</p>
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(57) Abstract :

Spamming is the activity of delivering unwanted transactional emails using a digital messaging service. Monitoring these communications is just another line of defense; it doesn't stop spam from spreading across email networks. This issue causes consumers to fear email servers, suspecting even legal emails, and prompting considerable investment in anti-spam systems. Spammers exploit this same lack of accountability and confirmation mechanisms of communication entities to threaten consumers. A virtualized system that examines email server logs and integrates predictive modeling with deep learning to develop trust identities that pattern the email messaging activity of spamming and genuine servers has been designed to assist in the struggle over spam. The system builds authentication schemes for networks and updates them on a continuous basis to improve them. This research claims that this strategy will not only reduce spam in email electronic messaging but will also mark a significant step forward in the development of trust credentials and responsibility in email technology.

No. of Pages : 14 No. of Claims : 5

(51) International classification :B63B0035000000, B26D0001000000, B26D0001090000, B29B0017040000, H02S0040000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The most of the existing crop cutting equipment are operated with fossil fuel-based engine which pollute the environment. There are certain motor operated crop cutters are available however they are not efficiently functioning due to the inappropriate design and assembling. This invention comprises of the frame, wheels, blades, battery, motors, motor mechanism, motor controller, NodeMCU and charger port. The frame with aluminum material is used. At the bottom of the frame the blades and battery are fixed. The entire arrangement is moving using the four wheels. The balancing and the movement of the entire machine is ensured by the four wheels. Blades are made up of stainless steel for its reliability. There are two sets of blades are used one in upper side and another one in bottom side. The lower blade is fixed with the frame and the upper blade is connected with the motor through motor mechanism. Hence while motor rotates the upper blade is moving to and fro and paddy is finely removed. The battery supplies power to the motor. The motor controller is used to controlling the speed of the motor. The solar panel is used to charge the battery through charge controller. The charger port and solar panel are used separately to charge the battery as and when required. The mobile phone with specific application is used to control the mechanism through the wireless mode. The signal can be transmitted to the paddy cutter through cloud and therefore it is controlled in wireless mode. The present invention is eco-friendly in nature, easy handling, less capital cost and lower operating cost. Due to the above said advantages the crop cultivation rate has been drastically increased while using the paddy cutter and make this invention as user friendly product.

No. of Pages : 16 No. of Claims : 8

(54) Title of the invention : METHOD OF JUSTICE SYSTEM BY LEARNING THE REASONING PATTERNS AND LEGAL JUDGEMENTS OF JUDGES USING ARTIFICIAL INTELLIGENCE AND NATURAL LANGUAGE PROCESSING

<p>(51) International classification :G06Q005180000, G06N0003040000, G06N0003080000, G06N0020000000, G06F0016930000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ----- 2)DR.SHWETA THAKUR 3)DR. VIKRAM SINGH JASWAL 4)DR.SEEMA YADAV 5)DR.SANDHYA KUMARI 6)DR.ARUNA KAMMILA 7)MR.BISHNANAND DUBEY 8)DR.AJIT KAUSHAL Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ----- 2)DR.SHWETA THAKUR Address of Applicant :Associate Professor, School of Law Galgotias University, Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh. Pin 201310, India ----- 3)DR. VIKRAM SINGH JASWAL Address of Applicant :Associate Professor, Lloyd Law College Plot No. 11, Knowledge Park II, Greater Noida, Uttar Pradesh 201306, India ----- - 4)DR.SEEMA YADAV Address of Applicant :Professor, School of Law Galgotias University ,Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh. Pin 201310, India ----- 5)DR.SANDHYA KUMARI Address of Applicant :Professor, School of Law Galgotias University ,Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh. Pin 201310, India ----- 6)DR.ARUNA KAMMILA Address of Applicant :Associate Professor, School of Law Galgotias University ,Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh. Pin 201310, India ----- 7)MR.BISHNANAND DUBEY Address of Applicant :Assistant Professor, School of Law Galgotias University ,Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh. Pin 201310, India ----- 8)DR.AJIT KAUSHAL Address of Applicant :Professor, School of Law G D Goenka educational city G D Goenka educational city, Sohna - Gurgaon Rd, Sohna, Haryana 122103, India ----- -----</p>
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(57) Abstract :

Legal work in recent days has witnessed huge adoption of digital technologies, artificial intelligence in particular. It has been reported in literature that there are 31,251,615 pending cases as of January 2021. A huge chunk of time can be saved by automating certain routine tasks using Artificial Intelligence, thereby helping lawyers and judges. Artificial Intelligence could help litigators to perform due diligence quickly based on the available background information. Also the outcome of the litigation could be forecasted. An important area is the review of litigation document that consumes huge amounts of time. A Convolution Neural Network Algorithm is designed that is capable to back propagate and learn from the relevant legal documents using Natural Language Processing. Lexical Analytics is carried out so as to infer meaningful information and knowledge from legal documents and due diligence reports. Further classification and grouping of documents is carried out by automated document classification using Machine Learning. Thousands of legal documents could be analyzed and syntactic summary could be delivered for the benefit of lawyers and judges.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058819 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A System and Method for SOC and SOH Estimation of Batteries

(51) International classification :G01R0031392000, G01R0031367000, G01R0031382000, B60L0003120000, B60L0050600000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: A System and Method for SOC and SOH Estimation of Batteries: The present invention relates to a battery management system for SOC and SOH estimation that provides accurate values under various environmental conditions. The battery management system (100) comprises of a battery parameter unit (104), a control unit (106), a memory unit (108), an adaptive processing unit (110), an SOC estimating unit (112) and an SOH estimating unit (114). The adaptive processing unit adjusts the values given as input to the extended kalman filter to attain accurate SC value. The SOH estimating unit uses a capacity fade algorithm with combination of different least squares methods to attain accurate SOH value.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141058820 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A Battery Cell Monitoring and Controlling System and Method Thereof

(51) International classification :H02J0007000000, H01M0010420000, G01R0031396000, H01M0010480000, H01M0002020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: A Battery Cell Monitoring and Controlling System and Method Thereof: The present disclosure proposes a battery cell monitoring and controlling system (100). The battery cell monitoring and controlling system (100) comprises a battery unit (104) and plurality of control monitoring units (CMU) (102). The proposed battery cell monitoring and the controlling system (100) require no digital communication between CMUs to cell balance and to detect overcharge. In the proposed battery cell monitoring and controlling system (100) all the CMUs participate in controlling the charge and discharge path. The proposed battery cell monitoring and controlling system (100) provides effective fail-safe detection of overcharge and overload.

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : A SYSTEM BASED ON BIG DATA ANALYTICS FOR HR MANAGEMENT OF AN ORGANIZATION

<p>(51) International classification :G06Q0010100000, G06Q0010060000, G06F0016250000, G06F0009445000, G06F0016400000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. M. Devendra Address of Applicant :Principal, Bengaluru Amirta Degree College, Affiliated to Bangalore University, Bangalore - 560098. -----</p> <p>2)Mrs. Divya Rajkumar Panjwani 3)Mrs. Jyothi Padmaja. K 4)Mr.S.IIayaraja 5)Dr. B. Maheswari 6)Dr. D. Stalin David 7)Mr. D. Saravanan 8)Mr. R. D. Sivakumar 9)Dr. T. N. Srinivas Rao 10)Dr. K. Kamaraj Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. Devendra Address of Applicant :Principal, Bengaluru Amirta Degree College, Affiliated to Bangalore University, Bangalore - 560098. -----</p> <p>2)Mrs. Divya Rajkumar Panjwani Address of Applicant :Assistant Professor, Education, Integral University, Kursi Road, Lucknow 226026. -----</p> <p>3)Mrs. Jyothi Padmaja. K Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Vasireddy Venkatadri Institute of Technology, Nambur. -----</p> <p>4)Mr.S.IIayaraja Address of Applicant :Assistant Professor, Department of Management Studies, Directorate of Distance Education, Madurai Kamaraj University, Palkalai Nagar, Madurai - 625 021. -----</p> <p>5)Dr. B. Maheswari Address of Applicant :Assistant Professor, Department of Business Administration, Ayya Nadar Janaki Ammal College, Sivakasi 626 124. -----</p> <p>6)Dr. D. Stalin David Address of Applicant :Assistant Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108. -----</p> <p>7)Mr. D. Saravanan Address of Applicant :Associate Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108. -----</p> <p>8)Mr. R. D. Sivakumar Address of Applicant :Assistant Professor, Department of Computer Science, Bell Institute, Sivakasi. -----</p> <p>9)Dr. T. N. Srinivas Rao Address of Applicant :Professor, Department of Computer Science and Engineering, St. Mary's Group of Institutions, Hyderabad. -----</p> <p>10)Dr. K. Kamaraj Address of Applicant :Principal and Head, Department of Computer Science, SSM College of Arts and Science, Komarapalayam-638183. -----</p>
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(57) Abstract :

It consists of an RMS server with an RMS database, which holds files containing information on employees, their abilities, their schedules, and the projects on which they are now working, among other things. RMS database files include information from external business databases and the information entered directly into the system. Employees' scheduled activities are shown on a calendar in various ways, with different types of scheduled activities being highlighted in different colors to differentiate them. Using a search and scheduling function, human resources with the relevant abilities and availability may be identified, identified, and allocated to projects. A variety of parameters, including the length of time necessary, the level of skill required, and other characteristics, are entered to reduce the search area. This component assigns people to projects and updates the system calendar with the project assignments assigned to the individuals. Through interfaces with other databases, the information stored in the RMS database may be updated. A single user interface may access both the RMS and external databases. It is important to utilize a computer program to operate the RMS server and the RMS database for them to function properly

No. of Pages : 20 No. of Claims : 4

(54) Title of the invention : Emerging Nano-medicines Method for Effective Breast Cancer Immunotherapy

(51) International classification :A61K0041000000, C12N0013000000, A61K0045060000, H01F0001000000, A61N0007020000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
Breast cancer cells in a person are exposed to nanoparticles, and the cells are irradiated with a focused, low- to medium-power ultrasound to slow the proliferation of the cancer cells. Gold nanoparticles or magnetic nanoparticles may be used as nanoparticles. To improve their effectiveness, the nanoparticles may be coupled to cancer treatment, such as an antibody-based cancer therapy.

No. of Pages : 21 No. of Claims : 5

(54) Title of the invention : A SYSTEM FOR EFFICIENT ACCESS AND RESOURCE MANAGEMENT IN VEHICULAR COMMUNICATION USING MACHINE LEARNING IN FIFTH GENERATION NETWORK

(51) International classification :H04L0029080000, H04L0012240000, H04L0012260000, H04L0012851000, H04W0004460000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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9)Dr. I GEORGE FERNANDEZ
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(57) Abstract :
 The present invention relates to network resource management techniques applied to connected vehicles for communication between and with the cloud system using machine learning in the 5G communication network. The SDN-based 5G network can provide an excellent platform for autonomous vehicles because SDN offers open programmability and flexibility for new services incorporation. This separation of control and data planes enables centralized and efficient management of resources in a very optimized and secure manner by having a global overview of the whole network while it promises the overall improved performance. The flow-based policy framework of the present invention is on the basis of two tiers virtualization for vehicular networks using SDNs. The vehicle to vehicle (V2V) communication is quite possible with wireless virtualization where different radio resources are allocated to V2V communications based on the flow classification, and the controller is responsible for managing the overall vehicular environment and V2X communications.

(54) Title of the invention : A Novel fabrication approach in porous silicon based biosensing device for cholesterol detection

(51) International classification :C07K0016180000, G01N0033543000, G01N0027414000, G01N0033920000, G01N0021770000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

This invention relates to a novel fabrication approach in porous silicon based biosensing device for cholesterol detection. A portable device of porous silicon-based LDL biosensor is designed and fabricated for detecting the cholesterol level from finger prick blood samples. Among the different types of biomarkers, Low Density Lipoprotein (LDL) is the most acceptable biomarker to detect the presence of the LDL molecule, even within a very low limit. In order to detect the LDL molecules, a low-cost fabrication of porous silicon is used as substrate. The anti LDL molecule is coated onto the substrate and it is subjected to antigen antibody interaction. To enhance the sensitivity, the catalyst is added to the existing electrolyte solution. The catalyst will improve the uniformity and optical properties of the substrate. The process begins with the introduction of blood sample on to the anti-apolipoprotein B100 coated region. In the sensing region, LDL molecules (indicated as violet colour) from the applied sample starts to interact with anti-apolipoprotein B 100 (green colour). Due to the large surface area, while immobilizing the anti-body it will penetrate to the pores. As a consequence, it causes the impedance variation in the porous silicon substrate or electrode. With the help of electronic interface, the detected amount of LDL is digitally displayed on the display panel.

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : Development of Android based on-line monitoring and control system for Renewable Energy Sources

(51) International classification :H02J0003380000, G05F0001625000, B64G0001420000, H02J0001100000, H04W0028040000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 Sustainable power Sources are turning into an entrusting factor and promising giver in the power creation. They are the central parts in the charge of rustic regions which are still 'not wired' both electrically and geologically. Better checking and control devices can speed up the viable dispersal of such decentralized RES power plants. Subsequently, the determination of correspondence interface turns into a 'decision of knowledge'. The successful joining of RES sources to existing power network foundation has an extraordinary sway on modernization of inheritance framework to shrewd lattice, which screens, controls and improves the activity of interconnected components. This invention portrays the improvement of an on the web checking and control framework for disseminated Renewable Energy Sources (RES) in light of Android stage. This strategy uses the Bluetooth interface of Android Tablet/Mobile telephone as a correspondence connect for information trade with computerized equipment of Power Conditioning Unit (PCU). The Low Cost Android tablet can supplant the graphical LCD presentations and web modem of RES Power Conditioning Unit (PCU) with upgraded graphical perception and contact screen interface.

No. of Pages : 15 No. of Claims : 8

(54) Title of the invention : MUCOADHESIVE DOSAGE FORM FOR GASTRORETENTIVE DRUG DELIVERY

(51) International classification :A61K0009000000, A61K0009200000, A61K0009160000, A61K0047380000, A61K0009280000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 ABSTRACT MUCOADHESIVE DOSAGE FORM FOR GASTRORETENTIVE DRUG DELIVERY SYSTEM The present disclosure relates to developing gastroretentive mucoadhesive drug delivery systems for oral delivery of drugs such as Metoprolol succinate. The delivery system aims to increase oral bioavailability of Metoprolol by retaining the dosage form in stomach for longer period of time and by preventing alkaline degradation. The method consists of mixing the powdered drug with excipients and lubricants along with polymers such as Polyacrylic acid (Carbopol 934P) and one of either Hydroxypropyl methylcellulose (HPMC K4M) or Sodium carboxymethyl cellulose (Na CMC). Another aspect of the disclosure relates to evaluation of the mucoadhesive dosage form using physiochemical analysis, water uptake and swelling test, in vitro bioadhesion test, in vitro dissolution test and in vitro residence time test. (FIG. 1 will be the reference figure)

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : Role of English Language Laboratory In enhancing communication skills in professional courses

<p>(51) International classification :G09B0019060000, G09B0007020000, G06Q0050200000, G09B0005120000, G09B0029000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.V.LakshmiPrasanna Address of Applicant :Associate Professor of English, Gokaraju Rangaraju Institute of Engineering and Technology, Bachupally,Hyderabad Pin: 500090 State:Telangana Country: India -----</p> <p>2)Dr. P. Sarath chandra 3)Dr.J.Michael Raj 4)Dr. M.Suresh Babu Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.V.LakshmiPrasanna Address of Applicant :Associate Professor of English, Gokaraju Rangaraju Institute of Engineering and Technology, Bachupally,Hyderabad Pin: 500090 State:Telangana Country: India -----</p> <p>2)Dr. P. Sarath chandra Address of Applicant :Assistant professor of English, Polytechnic, Maulana Azad National Urdu University, Gachibowli, Hyderabad. Pin: 500032 State: Telangana Country: India -----</p> <p>3)Dr.J.Michael Raj Address of Applicant :Assistant Professor (selection Grade) College . SRM Institute of Science and Technology, Kattankulathur, Chengalpatt District, Chennai. Pin 603203 State Tamilnadu, Country India. -----</p> <p>4)Dr. M.Suresh Babu Address of Applicant :Assistant Professor of English Department of B S & H B.V.Raju Institute of Technology, Narsapur, Medak District, Telangana Pin: 502313 -----</p>
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(57) Abstract :
Role of English Language Laboratory In enhancing communication skills in professional courses Abstract: They did poorly on Undergraduate level exams and interviews because they did not practice communication skills enough. This is true for students in both rural and urban areas. We have a group of students who are very good at technology but do not understand the fundamentals of the English language. As a result, many jobs available to students require them to be able to communicate in English. We must begin teaching rural and urban students in the classroom as soon as possible, using cutting-edge technology and teaching and learning methods that are now available. Similarly, when urban students speak English, they are still influenced by their native language. This is one of the most serious issues. Many engineering schools had language labs more than a decade and a half ago to help students improve their English skills and make them more marketable so they could get jobs. According to this paper, students in both urban and rural areas must learn communication skills, as well as soft skills and software use. Language labs can be used both independently and collaboratively to achieve this goal. People who teach English as a second language demonstrate this with technology and learner-centered activities. Millennium students will undoubtedly benefit from this.

No. of Pages : 13 No. of Claims : 8

(54) Title of the invention : Conceptual framework on Employee moral satisfaction in work place

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0030020000, G06F0021440000, G06Q0050000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

Conceptual framework on Employee moral satisfaction in work place Abstract: People who are happy at work are more likely to be productive for their employer. Employee happiness affects workplace morale, which in turn affects how well they work. Article: This one is a conceptual one that discusses the factors that influence employee morale and how different researchers have altered the way this research is conducted. In this article, which is intended to spark new research ideas, there are numerous connections between employee morale and productivity. Employee morale is a topic that the author attempts to comprehend by considering numerous points of view, ideas, and thoughts. This research's conclusion section will be used in the workplace for the benefit of employees and to increase their satisfaction with the company. The most important factor in determining how well the workforce collaborates is how well they perform their jobs. The purpose of this research is to create a conceptual framework of factors that influence job performance. This report was created using data from other sources. All three major factors that influence how well people perform their jobs are directly related to job performance, but rewards have only a minor impact on all three.

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : A METHOD FOR EXTRACTION OF GARCINIA INDICA LEAF EXTRACT AND EVALUATION OF THE ANTI-DIABETIC ACTIVITY THEREOF

<p>(51) International classification :A23L0033105000, A61K0036380000, B01D0003080000, B01D0011020000, A61K0036185000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Yagnambhatla Rajendra Address of Applicant :Research Scholar Gitam institute of pharmacy, Gandhi Nagar, Rushikonda, Visakhapatnam, Andhra Pradesh 530045 ----- 2)Dr Rama Narsimha Reddy Anreddy 3)Dr. V. Kishor Kumar 4)Dr.R.Sanilkumar 5)Dr.Palanisamy Sivanandy 6)Dr.Merlin.N.J 7)Prof. Mahesh Bhanudas Narkhede 8)Dr. Sreejith M 9)Dr. P.Thirupathy Kumaresan 10)Dr.K. Sumathi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Yagnambhatla Rajendra Address of Applicant :Research Scholar Gitam institute of pharmacy, Gandhi Nagar, Rushikonda, Visakhapatnam, Andhra Pradesh 530045 ----- 2)Dr Rama Narsimha Reddy Anreddy Address of Applicant :Professor and Principal CVM College of Pharmacy, Velichala, Ramadugu, Karimnagar 505451 Telangana ----- 3)Dr. V. Kishor Kumar Address of Applicant :Professor and Head, Department of Pharmacognosy, J.K.K.N College of Pharmacy,Natarajapuram, NH- 544, (Salem to Coimbatore), Kumarapalayam 638 183. Namakkal District, Tamil Nadu. ----- 4)Dr.R.Sanilkumar Address of Applicant :Assistant professor, Department of pharmacy, Annamalai university, Chidambaram 608002. Tamil Nadu ----- 5)Dr.Palanisamy Sivanandy Address of Applicant :Programme Director-MPP, Department of pharmacy Practice, School of pharmacy, International medical university, BJCampus, No126, Jalan Jalil perkasa19, Bukit Jalil 57000, Kuala Lumpur, Malaysia ----- -- 6)Dr.Merlin.N.J Address of Applicant :Professor and Head Department of pharmacology Ezhuthachan college of pharmaceutical sciences , Marayamuttom, Trivandrum Kerala ----- 7)Prof. Mahesh Bhanudas Narkhede Address of Applicant :Asst. Professor and HOD Department of Pharmacology, Dr Rajendra Gode College of Pharmacy, Malkapur Dist.: Buldana-443101 Maharashtra ----- 8)Dr. Sreejith M Address of Applicant :Professor & Head Dept of Pharmaceutical Analysis, Nazareth college of Pharmacy, Kerala -689546 ----- 9)Dr. P.Thirupathy Kumaresan Address of Applicant :Professor & Head of Dept of Pharmacology Arulmigu Kalsalingam College of Pharmacy, Krishnankoil 626136 Tamil Nadu ----- ----- 10)Dr.K. Sumathi Address of Applicant :JKMMRFS Annai jkk Sampoorani ammal college of Pharmacy, Komarapalayam, Tamil Nadu -----</p>
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(57) Abstract :

ABSTRACT A METHOD FOR EXTRACTION OF GARCINIA INDICA LEAF EXTRACT AND EVALUATION OF THE ANTI-DIABETIC ACTIVITY THEREOF The present disclosure relates to method for extracting Garcinia indica leaf methanolic extract and the evaluation of its anti-diabetic activity. The method involves collecting, drying and grinding of Garcinia indica leaves, followed by Soxhlet extraction in methanol. The resulting extract is filtered and the solvent is removed by distillation in a rotary evaporator to obtain solid residue. This extract is used for evaluation of acute toxicity and anti-diabetic activity in adult albino wistar rat model with Alloxan induced diabetes using Glibenclamide (5 mg/kg) as standard treatment. Anti-diabetic activity was evaluated by measurement of blood sugar levels. (FIG. 1 will be the reference figure)

No. of Pages : 19 No. of Claims : 2

(54) Title of the invention : RICE ASH AND TITANIUM MIXTURE FOR PURIFICATION OF WASTE WATER

<p>(51) International classification :H04L0009300000, C07K0014195000, G01N0033520000, G01N0021270000, B03D0001020000</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Dhamotharan A Address of Applicant :Mr. Dhamotharan A, Assistant Professor, Department of Chemistry, Builders Engineering College, Kangayam - 638108, Tamil Nadu, India dhamujagan@gmail.com, 9789470752 -----</p> <p>2)Mr Avdesh Bhardawaj 3)Ms. Swati Panvalkar 4)Dr. Surindar Gopalrao Wawale 5)Dr. Vyankatesh Balajirao Yannawar 6)Mr.Sonu Kumar 7)Dr. C. Vinothini Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Dhamotharan A Address of Applicant :Mr. Dhamotharan A, Assistant Professor, Department of Chemistry, Builders Engineering College, Kangayam - 638108, Tamil Nadu, India dhamujagan@gmail.com, 9789470752 -----</p> <p>2)Mr Avdesh Bhardawaj Address of Applicant :Mr Avdesh Bhardawaj, Head (R & D), Juno Terra Technology Private Limited, A-8, Street Number-1, Brahmपुरi , Delhi-110053, India -----</p> <p>3)Ms. Swati Panvalkar Address of Applicant :Ms. Swati Panvalkar, Research Scholar, Department of Physics, Ramnarain Ruia College of Science and Arts, Mumbai, Maharashtra, 400019 -----</p> <p>4)Dr. Surindar Gopalrao Wawale Address of Applicant :Dr. Surindar Gopalrao Wawale, Assistant Professor, Department of Geography, Agasti Arts, Commerce and Dadasaheb Rupwate Science College, Akole, Savitribai Phule Pune University-422601, Maharashtra, India -----</p> <p>5)Dr. Vyankatesh Balajirao Yannawar Address of Applicant :Dr. Vyankatesh Balajirao Yannawar, Research Associate, School of Earth Sciences, Swami Ramanand Teerth Marathwada University, Nanded-431606, Maharashtra, India -----</p> <p>6)Mr.Sonu Kumar Address of Applicant :Mr.Sonu Kumar, Ph.D Scholar, Vill-Dhattha, P.O-Dharaha, P.S-Rosera, Dist-Samastipur, State-Bihar -----</p> <p>7)Dr. C. Vinothini Address of Applicant :Dr. C. Vinothini, Assistant Professor, Department of Physics, D.K.M College for Women, Vellore - 632001, Tamilnadu, India -----</p>
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(57) Abstract :

A cell interaction approach would be used to make micro made on charred crop residues trash reconstructed by nanoTiO₂ as well as copper porphyry, especially RSA-TiO₂, RSA-Cup, as well as RSA-TiO₂-CuPc. During solar light illumination, their set of pictures activity in the breakdown of dye concentration was tested. The presence of the two factors in RSA, SiO₂ as well as organic carbon, as well as the naturally direct relationships among nano-TiO₂ as well as cups, may contribute to enhancing MB dye decolonization. Utilizing RSA-TiO₂ based composites, total breakdown of MB dye was accomplished, and including 50 percent decomposition of a dye took 53 minutes underneath visual exposure to light. Picture of MB followed a pseudo-first place reaction process, according to the kinetic analysis.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059122 A

(19) INDIA

(22) Date of filing of Application :18/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PERFORMANCE IMPROVEMENT OF SOLAR WATER HEATING SYSTEM BY USING NANOFLUIDS CONTAINING CERAMIC AND METAL NANO-PARTICLES

<p>(51) International classification :F24S0050200000, F24S0060300000, F24D0011000000, H02J0003380000, F24D0017000000</p> <p>(86) International Application No Filing Date :PCT// / :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.M. K. Loganathan Address of Applicant :Dr.M. K. Loganathan, Professor of Mechanical Engineering, The Assam Kaziranga University, Koraikhowa, Jorhat -785006, Assam,9718159825, loganathanmk123@gmail.com -----</p> <p>2)Dr.TAM Msagati</p> <p>3)Mr. HarisJamal</p> <p>4)Ms. IndraniBezbaruah Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.M. K. Loganathan Address of Applicant :Dr.M. K. Loganathan, Professor of Mechanical Engineering, The Assam Kaziranga University, Koraikhowa, Jorhat -785006, Assam,9718159825, loganathanmk123@gmail.com -----</p> <p>2)Dr.TAM Msagati Address of Applicant :Dr.TAM Msagati, College of Science, Engineering and Technology, Institute for Nanotechnology and Water Sustainability, University of South Africa -----</p> <p>--</p> <p>3)Mr. HarisJamal Address of Applicant :Mr. HarisJamal, Assistant Professor of Mechanical Engineering, The Assam Kaziranga University, Jorhat- 785006, Assam. -----</p> <p>4)Ms. IndraniBezbaruah Address of Applicant :Ms. IndraniBezbaruah, Affiliated Faculty of Mechanical Engineering, The Assam Kaziranga University, Jorhat- 785006, Assam. -----</p>
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(57) Abstract :

Solar power plants are by far the most cost-effective way to use the sun's radiation. Comparative evaluation of Al₂O₃&CuO nanofluids has been carried out in a passive solar thermal system. The experiments showed that the optimally controlled parameter settings can help to improve the capacity of the solar heater that uses Al₂O₃ and CuOnano fluid as a solar fluid.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : GAS SENSOR MODEL FOR SENSITIZING A SELECTIVE ELEMENT IN THE MIXTURE OF GASES

<p>(51) International classification :G16C0010000000, B82Y0030000000, B82Y0015000000, B82B0003000000, G16C0020300000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr Kowdodi Siva Prasad Address of Applicant :Dr Kowdodi Siva Prasad, Professor, Department of Mechanical Engineering, Hyderabad Institute of Technology and Management, Gowdavelly (Village),Medchal (Mandal), Medchal-Malkajgiri (Dist.) – 501401.Telangana. India. kowdodi.siva@gmail.com,9909777987 -----</p> <p>---</p> <p>2)Dr Archana Raja Bijwe 3)Dr.Tasneem K.H.Khan 4)Dr. Subbulakshmi N Karanth 5)Dr. A. Kanchanadevi 6)Dr. Neeraj Saini 7)Ms.Ramya K</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr Kowdodi Siva Prasad Address of Applicant :Dr Kowdodi Siva Prasad, Professor, Department of Mechanical Engineering, Hyderabad Institute of Technology and Management, Gowdavelly (Village),Medchal (Mandal), Medchal-Malkajgiri (Dist.) – 501401.Telangana. India. kowdodi.siva@gmail.com,9909777987 -----</p> <p>---</p> <p>2)Dr Archana Raja Bijwe Address of Applicant :Dr Archana Raja Bijwe, Assistant Professor, Department of Chemistry, K.Z.S. Science College, Bramhani, Kalmeshwar 441501,Maharashtra - -----</p> <p>3)Dr.Tasneem K.H.Khan Address of Applicant :Dr.Tasneem K.H.Khan, Assistant Professor, Department of Chemistry, Anjuman College of Engineering and Technology, Sadar ,Nagpur, Maharashtra, India 440001 -----</p> <p>4)Dr. Subbulakshmi N Karanth Address of Applicant :Dr. Subbulakshmi N Karanth, Department of Chemistry, Shri Madhwa Vadiraja Institute of Technology and Management, (VTU Belagavi), Vishwothama Nagar, Bantakal, Udupi Dist, Karanataka, India, 574115 -----</p> <p>---</p> <p>5)Dr. A. Kanchanadevi Address of Applicant :Dr. A. Kanchanadevi, Assistant Professor & Head, Department of Chemistry, Shree Venkateshwara Arts & Science (Co-Education) College, Othakuthirai, Gobichettipalayam, Erode – 638 455, Tamilnadu, India -----</p> <p>---</p> <p>6)Dr. Neeraj Saini Address of Applicant :Dr. Neeraj Saini, Assistant Professor, Department of Chemistry, Shree Guru Gobind Singh Tricentenary University, Gurgaon-Badli Road Chandu, Budhera, Gurugram, Haryana-122505, India. -----</p> <p>7)Ms.Ramya K Address of Applicant :Ms.Ramya K, Assistant Professor, Chemistry, Department of Science and Humanities, P A College of Engineering and Technology, Pollachi-2,Tamilnadu -----</p>
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(57) Abstract :

DFT was used to study the adsorption characteristics of SO_x compound on pure or N-modified ZnO nanomaterials. The findings imply that N-doped nanomaterials have the better adsorption capability than undoped nanomaterials. Adsorption equilibrium designs or locations were studied in depth. The SO_x component forms bridge geometry with the ZnO nanoparticles at all adsorbate molecules, resulting in many interacting surfaces between nanoparticles or the SO_x molecule. The energy of SO_x desorption of N modified ZnO nanostructures is reported to be greater than that of untouched nanotechnology, meaning that N-modified nanomaterials provide improved detection sensitivity than pure nanomaterials. Extended S-O interactions to the deposited SO_x particle was caused by transfer of charge distribution in the S-O interacting of the freshly established connections among ZnO or SO_x particle after desorption. An assault density from adsorbed SO_x molecule to the ZnO nanoparticles is significant, showing that SO_x molecules have a donor characteristic during the adsorption mechanism, according to the value assessment using the NBO method. Chemical properties were created between connecting elements at the contact surface, according to predicted concentration of state analysis. The findings further show that the HOMO electronic concentrations were mostly spread over SO_x molecules, whereas LUMO was prominent to the ZnO nanostructure. The DFT simulations revealed that N-doped nanostructure as new sensing application to SO_x monitoring of atmosphere have superior adsorption characteristics.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059214 A

(19) INDIA

(22) Date of filing of Application :19/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : IOT APPLICATION FOR COLLECTING AND READING CLIMATE DATA

(51) International classification :H04L0029080000, H04W0076100000, G06F0009540000, G06F0008300000, H04W0004700000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

[012] In a world where people are more connected, it's time to become part of a shared network of objects. The development of new integrated products is technically and economically accessible, with the possibility of connecting devices to telecommunications and hardware processing capable of operating modern embedded software. This research discusses a part of the evolution of the Internet of Things (IoT) and some of its applications, and proposes to create a device connected to this network. Since the subject of this work is IoT, the focus was on creating an application for collecting and reading climate data within a wide range of devices that can be developed. As a means, a research report will be generated with the construction of a prototype from forensic research. Currently, there are more expensive products on the market to study climate data, almost always imported or developed by multinational companies, with a small amount of national technology available to the end consumer. It is reserved for large national reference research centers. A device developed according to the objectives proposed in the work, can be designed to answer the question, collect and read climate data. The subject of this work is the Internet of Things. The general purpose was to study the developmental characteristics of an IoT device to study climate data. Specific objectives emerged: defining ways to collect climate data, developing and testing the device, making data available in real time, and extracting data in real time.

No. of Pages : 20 No. of Claims : 5

(54) Title of the invention : A system for Wastewater purification using nanoparticle-treated bed and preparation method thereof

(51) International classification :C02F0001000000, B01J0020320000, B01J0020040000, C02F0101320000, B01J0020280000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

Particle packs coated with Nanoparticle, such as sand beds, have the potential to filter and cleanse liquids, such as wastewater, efficiently. When tiny contaminant particles in wastewater flow through the particle pack, the Nanoparticle will capture and hold the tiny contaminant particles within the particle pack due to the surface forces of the Nanoparticle, which may include, but are not limited to, van der Waals and electrostatic forces. It is possible that coating agents such as alcohols, glycols, polyols, vegetable oils, and mineral oils, which are applied to the particle surfaces in filter beds or packs, will aid in applying the Nanoparticle.

No. of Pages : 25 No. of Claims : 4

(54) Title of the invention : A MACHINE LEARNING MODEL TO PREDICT THE SEVERITY OF CANCER AND TO DECREASE SURGICAL TREATMENT

<p>(51) International classification :G06N002000000, G01N0033574000, G06F0021570000, C12Q0001260000, A61B0010020000</p> <p>(86) International Application No Filing Date :PCT// / :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr.R.Venkateswara Reddy Address of Applicant :Mr.R.Venkateswara Reddy , Assistant Professor , Department of Computer Science and Engineering , CMR College Of Engineering & Technology, Kandlakoya,Medchal,Hyderabad,Telangana - 501401, venkatreddyvari@cmrcet.ac.in, 9603904899 -----</p> <p>2)Mr.M. Sivabalan</p> <p>3)Dr.Manmohan Singhal</p> <p>4)Dr. Harish Rajak</p> <p>5)Mr.Dipak Ramoliya</p> <p>6)Dr.Shanker Chandre</p> <p>7)Mr.V Naresh Kumar Reddy</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr.R.Venkateswara Reddy Address of Applicant :Mr.R.Venkateswara Reddy , Assistant Professor , Department of Computer Science and Engineering , CMR College Of Engineering & Technology, Kandlakoya,Medchal,Hyderabad,Telangana - 501401, venkatreddyvari@cmrcet.ac.in, 9603904899 -----</p> <p>2)Mr.M. Sivabalan Address of Applicant :Mr.M. Sivabalan, Guest Lecturer, Department of Computer Science, Government Thirumagal Mills College, Gudiyattam-632602 -----</p> <p>3)Dr.Manmohan Singhal Address of Applicant :Dr.Manmohan Singhal, Associate Professor Faculty of Pharmacy, School of Pharmaceutical and Population Health Informatics, DIT University, Dehradun-248009 Uttarakhand. India. -----</p> <p>4)Dr. Harish Rajak Address of Applicant :Dr. Harish Rajak, Assistant Professor, Department of Pharmacy, Guru Ghasidas University, Bilaspur-495009 (Chhattisgarh). -----</p> <p>5)Mr.Dipak Ramoliya Address of Applicant :Mr.Dipak Ramoliya, Assistant Professor, Department of Computer Science &Engineering,Devang Patel Institute of Advance Technology and Research, Faculty of Technology & Engineering, Charotar University of Science and Technology, Petlad Rd, Changa, Gujarat 388421,India -----</p> <p>6)Dr.Shanker Chandre Address of Applicant :Dr.Shanker Chandre, B.Tech,M.Tech,Ph.D Assistant Professor, Department of Computer Science and Engineering,Anurag College of Engineering, Hyderabad, Telangana -----</p> <p>7)Mr.V Naresh Kumar Reddy Address of Applicant :Mr.V Naresh Kumar Reddy, AssistantProfessor,Department of Information Technology,Mahaveer Institute of Science & Technology, Bandlaguda, chandrayanaguta, Hyderabad-500005 -----</p>
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(57) Abstract :

By creating a machine learnings model which distinguishes high-risk malignant lesions (HRLs) detected using image-guided needles biopsy which it requiring surgical resection from HRLs that are unlikely towards progress to cancers after operations and so may be monitored. From June 2006 to April 2015, participants with biopsy-proven HRLs who underwent surgery / had at least 2 years of ct follow-up were discovered. To detect HRLs with minimal risks of cancer progression, a randomized forests machine learning technique was constructed. Conventional factors such as age as well as HRL histological findings, as well as textual information from the biopsy pathological reports, are incorporated in the models. A total of 1,062 HRLs were discovered, with cancers upgrade rates of 6%. A separate piece of statistics was used to create as well as evaluate machine learning decisions, tree models. Aging & HRL histological findings are two of the most relevant conventional characteristics. Seriously unique was a key text element in the pathological findings. Rather than surgical resection of all HRLs, individuals deemed to be at minimal risks for upgrading might've been monitored as well as the remaining eliminated of cancers, allowing for the diagnosis of malignancy during surgeries as well as the avoidance of procedures for benign tumors.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059345 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : FABRICATION OF MULTIPURPOSE MACHINE

<p>(51) International classification :B29C0064124000, B29C0064386000, B60N0002300000, H01L0039240000, E06C0001320000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, Address of Applicant :THE PRINCIPAL, K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANICKAM ROAD, TRICHY, TAMIL NADU, INDIA-621112. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SATHISH KUMAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>2)GNANA VIGNESH.K Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>3)GNANESHWARAN. V. S Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>4)GNYANA YOKESH. A Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>5)JERIN VARUGHESE Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p>
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(57) Abstract :

In an industry a considerable portion of investment is being made for machinery installation. Industries are basically meant for Production of useful goods and services at low production cost, machinery cost and low inventory cost. Today in this world every task has been made quicker and fast due to technology advancement, but this advancement also demands huge investments and expenditure, every industry desire to make high productivity rate maintaining the quality and standard of the product at low average cost. So, in this project we have a proposed a machine which can perform operations like drilling, milling some lathe operations at different working center simultaneously which implies that industrialist have not to pay for machine performing above tasks individually for operating operation simultaneously.

No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : DESIGN AND FABRICATION OF PYROLYSIS SETUP BASED ENERGY RECOVERY FROM MUNICIPAL SOLID WASTE

<p>(51) International classification :B09B0003000000, C10B0053000000, F23G0005020000, C10K0001000000, C10B0019000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY Address of Applicant :THE PRINCIPAL, K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, KARIYAMANICKAM ROAD, TRICHY, TAMIL NADU, INDIA-621112. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M. RANJITHKUMAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>2)P. PARAMESHWARAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>3)S. MUGESH Address of Applicant :STUDENT, ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>4)MUTHUKUMAR Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>5)C. PRAVEEN Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p> <p>6)R. VASANTHKUMAR Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, SAMAPURAM, TRICHY, INDIA-621 112. -----</p>
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(57) Abstract :
Pyrolysis has been examined as an attractive alternative to incineration for municipal solid waste (MSW) disposal that allows energy and resource recovery; however, it has seldom been applied independently with the output of pyrolysis products as end products. This review addresses the state-of-the-art of MSW pyrolysis in regards to its technologies and reactors, products and environmental impacts. In this review, first, the influence of important operating parameters such as final temperature, heating rate (HR) and residence time in the reaction zone on the pyrolysis behaviours and products is reviewed; then the pyrolysis technologies and reactors adopted in literatures and scale-up plants are evaluated.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059427 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : System & Method Using Machine Learning Algorithm For Vital Sign Data Analysis

(51) International classification :A61B0005000000, G16H0050300000, G16B0040000000, A61B0005024000, A61B0005020500

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

There are systems and methods that utilize machine learning to estimate the possibility or risk that a patient would suffer an unfavorable result, such as a loss in renal function, within a certain period. According to the embodiments, patient data about demographics, vital signs, and diagnosis may be used to establish critical predictive characteristics and patient risk scores that can be used to identify patients who are at high risk of developing a condition. It is also possible to implement patient processes, such as recommending therapy to providers and patients, depending on risk ratings.

No. of Pages : 21 No. of Claims : 4

(54) Title of the invention : Internet of Things based real time Attendance System by using Facial -Recognition technology

(51) International classification :G06K0009000000, G07C0001100000, G06Q0050200000, G06Q0010100000, G09B0007020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Internet of Things based real time Attendance System by using Facial- Recognition technology Abstract: Our paper is based in part on the assistance of students and teachers. Facial recognition software can be used to track how many students attend class. A Raspberry Pi can be used to perform face detection and recognition. When the camera is plugged into the Raspberry Pi's USB port, students in the classroom will be able to see their faces when the camera is turned on. When the images are compared to those in the database, students who appear in the images will be identified and their attendance will be recorded. Here's how it works: This procedure is used in every class to ensure that students arrive on time. This project makes it simple to keep track of how many teachers show up for class. Each faculty member is given a unique RFID card, which is used to track their attendance when they enter the classroom and swipe their card. The ESP8266 and an OLED screen are used to display the number of faculty members present. Attendance can be recorded at any time and without requiring a person to do anything.

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : Eight- Element MIMO (multiple inputs, multiple outputs) systems for compact 5G Mobile

<p>(51) International classification :H01Q0001380000, H01Q0001220000, H05K0003000000, H01Q0021280000, G06K0019077000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.R.Thandaiah Prabu Address of Applicant :Associate Professor, Department of VLSI Microelectronics, Institute of Electronics and Communication Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai Pin :602105 State : Tamilnadu Country: India ----- --</p> <p>2)Dr.P.Kalpana Devi 3)Mrs.A.Priya 4)Ms.G Saranya 5)Mr. N V Krishnamoorthy 6)Ms. Swarnalatha M 7)Mrs.M.Benisha Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.R.Thandaiah Prabu Address of Applicant :Associate Professor, Department of VLSI Microelectronics, Institute of Electronics and Communication Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai Pin :602105 State : Tamilnadu Country: India ----- 2)Dr.P.Kalpana Devi Address of Applicant :VelTech Rangarajan Dr.Sagunthala R & D Institute of Science and Technology, Avadi, Chennai. Pin : 600062 State : Tamilnadu Country:India ----- 3)Mrs.A.Priya Address of Applicant :Assistant Professor (SG), Department of ECE, B.S. Abdur Rahman Crescent Institute of Science and Technology, Seethakathi Estate, Grand Southern Trunk Road, Vandalur, Chennai, Pin: 600048 State : Tamilnadu Country:India ----- 4)Ms.G Saranya Address of Applicant :Assistant Professor, Department of ECE, Sri Krishna College of Engineering and Technology Kuniyamuthur, Coimbatore- 641008 State : Tamilnadu Country:India ----- 5)Mr. N V Krishnamoorthy Address of Applicant :Associate Professor, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology Kuniyamuthur, Coimbatore- 641008 State : Tamilnadu Country:India ----- 6)Ms. Swarnalatha M Address of Applicant :Assistant professor, Department of ECE, Karpaga Vinayaga College of Engineering and Technology, GST Road, Chinnakolambakkam, Madhuranthagam Taluk, Chengalpattu District, , Pin: 603308 State : Tamilnadu Country:India ----- 7)Mrs.M.Benisha Address of Applicant :8/35, NH I, Lig, Pandian street, Maraimalai Nagar, Chengalpattu District, Pin : 603209 State : Tamilnadu Country: India ----- -----</p>
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(57) Abstract :

Eight- Element MIMO (multiple inputs, multiple outputs) systems for compact 5G Mobile Abstract: One of the ideas in this paper is to create an 8-element MIMO antenna that could be used in 5G communications, the internet of things, and other networks. An H-shaped monopole antenna can be used to operate this system in the 3.4–3.6GHz frequency range, providing 200MHz of bandwidth and a separation below 12 dB without decoupling. The FR4 substrate, with a thickness of 0.8 millimetres, is widely available on the market. This is done to prevent short circuits from forming with other parts and devices. This method can also be used to add more systems, subsystems, and components. A prototype is created in this experiment, and the results from both the experiment and the computer show that they are exactly the same. It makes no difference that the ECC= 0.2 and capacity= 38 bps/Hz. The results remain consistent with the standards. Single and dual hand mode analysis, as well as other tests, are performed to better understand how the system works and to determine if there are any losses or changes in performance parameters. As an added bonus, due to its simple design, it can be mass-produced and used in industrial settings.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059511 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD OF PREPARING BIODEGRADABLE FOOD PACKAGING FROM SEEMAI KARUVELAM

(51) International classification :B65D0065460000, C05B0007000000, A01G0009029000, C08G0063080000, G01N0033000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

A method (300) of preparing a biodegradable food packaging (200), comprising steps of: washing pods and roots of a seemai karuvelam tree to remove impurities; drying the washed pods of the seemai karuvelam tree under a sunlight for a first predefined duration of time; grinding the dried pods to form a pod powder; mixing a first predefined amount of the pod powder in a second predefined amount of solvent to form a pod slurry (102); soaking the washed roots in a third predefined amount of an inorganic solution for a second predefined duration of time; crushing the soaked roots to form a root slurry; boiling the root slurry in the solvent to obtain root extract (104); and combining the pod slurry (102) and the root extract (104) with polymers (106) to form the biodegradable food packaging (200).

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : AUTOMATIC LIGHTING CONTROL SYSTEM AND METHOD

(51) International classification :H05B0047105000, H04N0005330000, H01L0027146000, G01J0001420000, G09F0009000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 An automatic lighting control system (100), comprising: a motion sensor (106) to sense an amount of infrared light; a light sensor (108) to sense an intensity of light; a temperature sensor (110) to sense a temperature; a controller (116) to: receive the sensed amount of infrared light, intensity of light, temperature; compare the sensed amount of infrared light with a pre-defined amount of infrared light; compare the sensed intensity of light with a pre-set intensity of light, when the sensed amount of infrared light is not equal to the pre-defined amount of infrared light; compare the sensed temperature with a pre-defined temperature when the sensed amount of infrared light is not equal to the pre-defined amount of infrared light; turn on lights (102) when the sensed intensity of light is less than the pre-set intensity of light; and turn on fans (104) when the sensed temperature exceeds the pre-defined temperature.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059517 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Mini Robot for Medication Adherence and Monitoring for Elderly Covid Prevention

<p>(51) International classification :G06K0009000000, A61J0007040000, B25J0009160000, B25J0009000000, B25J0011000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)K. Vijay Anand Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>2)Prabhu U Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>3)N. Nirmitha Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>4)Lokamithran Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>5)Mohammed Hasim Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p> <p>6)Dr.T. Ganesekaran Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p>
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(57) Abstract :

A mini robot for medication adherence and monitoring for elderly covid prevention includes face mask detection which is built using YOLO detection system, which provides feasibility and faster in predictions. The incorporation of simpler technologies and tools that makes our robots more affordable. Prompt reminders to take medicine are delivered and a voice recognition feature will enable the robot to provide immediate assistance to the needs of the elders. The robot has features that will connect the elders to their children via video calls, entertain them by playing music and movies, thus keeping them in a relaxed mood. (Refer Fig. 1)

No. of Pages : 12 No. of Claims : 1

(54) Title of the invention : Virtual Mouse System using Object Detection

<p>(51) International classification :G06F0003010000, G06F0003030000, G06F0003048800, G09B0019000000, G06F0003048700</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Lokesh U Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- 2)Jayender R Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- 3)Parvathi Priya Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- 4)Lalitha Ramachandran Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- 5)S.Vijayakumar Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- 6)Dr.S Meenakshi Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- 7)Dr. M Meena Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- 8)Dr. S. D. Uma Mageswari Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- 9)Dr.S.Pavaimadheswari Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----</p>
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(57) Abstract :

The novel idea of mouse needs a dedicated hardware, which requires a physical interaction to use it this also requires a certain amount of space and smooth surface. The idea of virtual mouse does minimize the hardware by using a camera, which is a basic hardware in day today life. This also has the basic benefit of utilizing hand gestures as a non-contact computer interaction input modality is that it permits you to communicate with a computer without touching it. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059519 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : AI Based Image Processing System for Tracking and Monitoring the Health and status of Animals

(51) International classification :G08G0001017000, G08B0013196000, B64C0039020000, H04N0007180000, H04W0012080000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention describes a system that will be able to detect poachers and loggers to prevent them from operating. The proposed system uses a number of aerostat UAVs fitted with both Thermal imaging (102) and normal Camera (103) and transmit the data from these cameras (102, 103) to the ground station (106) where we use RetinaNet and DeepSORT to detect and track (respectively) the intruders and monitor the status of animals in the aerostat UAV's camera range, which will allow the patrol officials to further take action to intervene environmental crimes such as poaching, animal trafficking and illegal logging. (Refer Fig. 1)

No. of Pages : 12 No. of Claims : 1

(54) Title of the invention : COST EFFECTIVE MANUFACTURING OF FILLER GRADE PTFE

(51) International classification :B29K0105160000, B29C0048030000, C08L0091000000, B29B0007180000, B29K0027180000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention relates to a process for cost effective manufacturing of filler grade PTFE. A mixing instrument, a compact jet-mill type mixing machines made of stainless steel, which deagglomerates the PTFE powder but produces no heat for making filler grade PTFE is invented. It mimics jet mill in action but is cost effective. Since the instrument invented is a continuous feed type, large volumes of mixing required by the industries could be easily carried out. Other mixers mostly use batch type mixing which will require refilling after each mixing. This will limit the output capacity. Some fillers like graphite need no lubricant. Other fillers like carbon need lubricant. Graphite serves as the best lubricant for carbon filled PTFE. For other fillers suitable lubricants would improve mixing quality. A low grain size and high thermal stability of the fillers is found necessary to get products of smooth surface. Fillers had to be given a specific treatment to improve their heat stability. A surprising discovery is that fillers such as carbon containing a high concentration of volatile impurities degrade the sintered PTFE very easily. Though such fillers are to be avoided, this result by itself is an interesting one since the only agent known so far to damage sintered PTFE is ionizing radiation! Tapes skived from sintered billets of quality fillers mixed PTFE passed all the four tests – uniformity in mixing, density, surface smoothness, fiber strength and plastic quality. Industrial dust collectors are expensive. Cleaning such systems is quite difficult. Therefore, different fillers will require different machines. Use and throw systems used in this invention seemed to be the best. The mixing technique developed has great potential for use by the Indian industries dealing with filler grade PTFE products.

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059722 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD TO RESCUE CHILD FROM BOREWELL

<p>(51) International classification :A61N0001040000, H04W0052240000, A62B0099000000, A62C0027000000, A61B0017160000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Hyderabad-500 043, Medchal–District - -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Nagaraj Goud B Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal– District -----</p> <p>2)Mr. Nirmith Kumar Mishra Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal– District -----</p> <p>3)Mr. A Sai Kumar Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal– District -----</p> <p>4)Mr. Manideep B Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal– District -----</p> <p>5)Mr. Sreekanth Sura Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal– District -----</p> <p>6)Mr. Munigala Srikanth Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal– District -----</p> <p>7)Mr. Y Raghunatha Rao Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Hyderabad-500 043, Medchal– District -----</p> <p>8)Dr. M V Narasimha Rao Address of Applicant :Master of Business Administration, MLR Institute of Technology, Hyderabad-500 043, Medchal–District --- -----</p>
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(57) Abstract :

In our invention, retracting pulley drive mechanism was proposed to rescue victim from bore well within a short period of time. The proposed invention is easily operable, mechanical arrangements are used to lift victim from the bore-well. A high resolution camera is used to visualize the victim state throughout the operation and an expandable base plate is provided to give additional support while lifting the victim. 4 claims & 1 Figure

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : TRANSIT NODE IDENTIFICATION FOR IP PREFIX HIJACKING LOCATION IN NETWORK SYSTEMS

(51) International classification :H04L0029060000, H04L0029080000, G06F0009500000, G06Q0010100000, G06F0021550000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Cloud computing is transforming how we deploy software, utilize the Internet, and manage networks. Cloud virtualization enables efficient fault tolerance, load balancing, resource optimization, and proactive server maintenance. These benefits are outweighed by a shift in overall security posture and new security issues. These flaws can be exploited in cloud systems, especially when data is moved across clouds. Cloud-based attacks such as insider and outsider threats can be mitigated by establishing unique, incremental and independent cloud-based security systems that include both proactive preventive and reactive detection techniques. Developing a novel approach for identifying malicious transit nodes used in IP hijacking attacks. This technology would allow proactive countermeasures like automatic de-peering to be introduced quickly. It also protects cloud operations by assessing and identifying early harmful activity. 4 claims & 3 Figures

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : METHOD TO USE SURVEY DRONES FOR AGRICULTURAL LAND

<p>(51) International classification :B64C0039020000, G06N0020000000, A01B0079000000, G06Q0050020000, A01C0021000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Hyderabad-500 043, Medchal–District - -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Madhavi Nagireddy Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>2)Ms. Pooja Yadav Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>3)Mr. A Sai Kumar Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>4)Mr. Nirmith Kumar Mishra Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>5)Dr. M Satyanarayana Gupta Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>6)Mr. K Veeranjanyulu Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>7)Mr. Manideep Guptha Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>8)Mr. B Nagaraj Goud Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p>
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(57) Abstract :

Around the globe precision agriculture has experienced unprecedented growth. The usage of drones in the agricultural field and horticulture are revolutionizing agriculture. The implementation of various sensors and digital imaging capabilities in drones will lead to the precision agriculture. The purpose of the invention is to optimize agricultural process by doing survey with the help of drones. The usage of drones in survey helps to reduce the time and effort. In one flight, huge amount of data will be collected from the sky, in the form of digital aerial images. 3 claims & 3 Figures

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059725 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD TO DETECT SOIL MOISTURE USING UAV

<p>(51) International classification :A01G0025160000, A01G0027000000, B64C0039020000, G01N0033240000, A01G0007000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Hyderabad-500 043, Medchal–District - ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. K Veeranjanyulu Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 2)Dr. M Satyanarayana Gupta Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 3)Ms. Madhavi Nagireddy Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 4)Mr. Nayani Uday Ranjan Goud Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 5)Mr. Sreekanth Sura Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 6)Mr. D Khusal Kumar Address of Applicant :Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 7)Dr. Sudhir Joshi Address of Applicant :Department of Aerospace Engineering, UPES, Dehradun ----- 8)Dr. Vindhya Devalla Address of Applicant :Matdun Labs India private ltd, Hyderabad - -----</p>
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(57) Abstract :

The moisture of the soil plays an essential role in the irrigation field as well as in gardens for plants. As nutrients in the soil provide the food to the plants for their growth. Supplying water to the plants is also essential to change the temperature of the plants. The temperature of the plant can be changed with water using the method like transpiration. Extreme soil moisture levels can guide to anaerobic situations that can encourage the plant's growth as well as soil pathogens. The aerial testing of moisture content is required to get the water content in the soil. This is made possible with the invention of VTOL uav with moisture sensor. In this invention the sensor is attached to the onboard equipment of the UAV and it is dropped into the soil when it hovers at a given altitude. The sensor detects the water content in the soil and it will be sent to the farmer to take necessary action to protect the crop from damage due to insufficient water. 3 claims & 1 Figure

No. of Pages : 6 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059743 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD TO CONTROL SPEED OF BLDC MOTOR IN ELECTRIC VEHICLES

<p>(51) International classification :H02J0007350000, H02J0003320000, B60L0050520000, B60L0008000000, B60L0053300000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Hyderabad-500 043, Medchal–District - -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mrs. B Madhuri Address of Applicant :Department of Electrical and Electronics Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>2)Mr. K HarshaVardhana Reddy Address of Applicant :2/7 Motandlapalli 14 kandiga (po) – 517 422, Yadamari mandal, Chittoor -----</p> <p>3)Dr. K Shivarama Krishna Address of Applicant :87/631-2, Gaffoor nagar, near Amma Hospital, Kurnool – 518 002 -----</p> <p>4)Dr. A Sudhakar Address of Applicant :Department of Electrical and Electronics Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>5)Mr. N Karthik Address of Applicant :Department of Electrical and Electronics Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>6)Mr. T Bhargava Ramu Address of Applicant :Department of Electrical and Electronics Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>7)Mr. P Raviteja Address of Applicant :Department of Electrical and Electronics Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>8)Mrs. G Meghana Address of Applicant :Department of Electrical and Electronics Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p>
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(57) Abstract :

The global concern for clean energy generation paved the way for technological inventions. More prominently, integration of heterogeneous renewable sources, storage systems, and electric vehicles became the pioneer solutions. In the proposed system, a soft computing based ANFIS method has been proposed to execute the rapid speed response in electric vehicle. Brushless DC motor was used as a propulsion system to drive the vehicle. Electric Vehicle is basically a time variant system, whose operating parameters and road conditions vary continuously. To address these uncertainties, a novel control strategy is proposed. The fuel cell battery is used as the auxiliary power supply for the electric vehicle. The performance of the controllers is evaluated under different parameter uncertainties and it was observed that the proposed soft computing control method has excellent speed response. 3 claims & 5 Figures

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : METHOD AND APPARATUS FOR IDENTIFYING TIME VARYING, TIME-DELAYED- PROCESSES IN REAL TIME

<p>(51) International classification :G06F0017110000, G02B0006293000, H02J0003240000, G01R0027260000, G06F0030367000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Hyderabad-500 043, Medchal–District - ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Sudeep Sharma Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 2)Mr.Haribabu.K Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 3)Mr.R.Sateesh Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 4)Mr.P.Yakaiah Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 5)Mr.G.Kaushik Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 6)Mrs.V.Usha Devi Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 7)Mr.D.Srikar Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 8)Dr. Prabin Kumar Padhy Address of Applicant :Department of Electronics and Communication Engineering, PDPM, Indian Institute of Information Technology Design & Manufacturing, Jabalpur-482 001 -----</p>
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(57) Abstract :

Time-delayed system modeling has been the topic of interest for investigating the effects of time-delays on the performance of various real world systems. Presence of time delays can introduce unwanted oscillations and stability related issues in system response. In industrial systems the movement or transfer of volume, mass and information between sensing and actuating elements are the main cause of time delays. Despite the popularity and attention in recent years, system identification in the form of time-delayed transfer function models is a challenging task. In this invention, a real time, robust and fast approach is developed for identifying time varying continuous time-delayed models accurately, through estimating discrete time-delayed model parameters. The direct formulas are derived for model parameters and time-delay estimation. The exact formulation is done to yield the guaranteed condition on model convergence. 5 claims & 3 Figures

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : WIND ENERGY CONVERSION SYSTEM WITH FUZZY LOGIC BASED SOLID STATE TRANSFORMER

(51) International classification :F03D0009250000, H02P0009000000, H02P0101150000, H02M0005458000, H02J0003380000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 In wind energy conversion systems, the fundamental frequency step up transformer acts as a key interface between the wind turbine and the grid. Recently, there have been efforts to replace this transformer by an advanced power electronics based solid state transformer (SST). The proposed invention combines the doubly fed induction generator based wind turbine and Fuzzy Logic Based SST operation. The SST controls the active power to/from the rotor side converter by eliminating the grid side converter. 4 claims & 3 Figures

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : FINGER PRINT BASED EXAM HALL AUTHENTICATION SYSTEM

(51) International classification :G07C0009000000, B60R0025250000, H04M0003380000, G07C0009370000, G06F0021320000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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Filing Date :NA

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(57) Abstract :
 A fingerprint based examination hall authentication system is invented. The system is designed to pass only those users who are verified by their fingerprint scan and non-verified users will not be allowed. The invented device consists of a fingerprint scanner connected to a microcontroller circuit. In registration mode the system allows to register up to 100 users and save their identity with respective id numbers in the system memory. After storage the person needs to first scan his finger on the scanner. The microcontroller now checks the person’s fingerprint validity. If the fingerprint is authorized the microcontroller now sends a signal to a motor driver. The motor driver now operates a motor to open a gate. This ensures only authorized users are allowed to enter the examination section and un authorized users are not allowed to enter without any human intervention. Biometrics access using fingerprints and blood flow detection to avoid cloning of fingers using plastics. 4 claims & 2 Figures

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : METHOD TO IDENTIFY PROCESSES AND CONTROL NEURAL NETWORK

(51) International classification :G06N0003040000, G05B0013040000, G06K0009620000, G06F0017180000, G05B0017020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A closed-loop recurrent neural networks (CLRNN) architecture with delayed layer links is proposed in this invention for identifying the time delay in the form of unstable and second order time delay. UFOPTD and USOPTD process models are used for estimating the unstable process dynamics. The key features of CLRNN over existing recurrent structures is its parametric nature, mathematical formulation is developed to identify unknown dynamics and time-delay directly in terms of the CLRNN weights. The identification accuracy, convergence and robustness of the proposed invention is validated in the presence of measurement noise and modelling uncertainties. 3 claims & 3 Figures

No. of Pages : 9 No. of Claims : 3

(54) Title of the invention : ENERGY EFFICIENT EXCLUSIVE OR GATE FOR MULTI-BIT ADDER APPLICATIONS

(51) International classification :H03K0019210000, G06F0007501000, G06F0007503000, H03F0003720000, G06F0007507000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
This invention presents an exclusive OR gate for multi-bit adder applications. The proposed exclusive OR gate is used to get the low amount of power and delay. The performance parameters of full adder circuit are improved by improving the performance parameters of exclusive OR gate. One transmission gate and one pass transistor with a 0.8 V supply voltage are used to design the proposed exclusive OR gate. The proposed exclusive OR gate is designed using 180nm CMOS technology with a total power consumption of 0.83 nW. The proposed exclusive OR gate is tested using spectre simulation model parameters and 162.5 ns delay is achieved during simulation. 3 claims & 1 Figure

No. of Pages : 5 No. of Claims : 3

(54) Title of the invention : OPTIMAL MISALIGNED RELAY LOCATION IN MAGNETIC RESONANCE-BASED POWER TRANSFER

<p>(51) International classification :H02J0050120000, H02J0050900000, H02J0050500000, H01F0038140000, H02J0050400000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Hyderabad-500 043, Medchal–District ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. G Karthik Reddy Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 2)Mrs. T.Anuradha Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 3)Mrs. K. Aruna Manjusha Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 4)Mr. D.Laxma Reddy Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 5)Mr. K.Maniraj Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 6)Mrs. Y.Geetha Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 7)Mrs. V.Usha Devi Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District ----- 8)Mr. D.Srikar Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p>
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(57) Abstract :
The misalignment between resonators (or coils) weakens magnetic coupling in magnetic resonance-based wireless power transfer (MR-WPT) system, thus using a relay coil that is misaligned with a transmitter coil and receiver coil does not always improve system performance. As a result, depending on the degree of misalignment, it's significant to find the location of relay coil. The use of an optimal relay coil always favorable for enhancing the received harvested power of WPT system even when it is severely misaligned with the other coils. In this invention, the optimal location for the laterally misaligned relay coil in the three-coil MR-WPT system is found. Although the laterally misaligned relay location problem is highly non-convex and non-linear, we still have been able to obtain the global optimal solution in terms of higher degree polynomial. Based on alternate optimization, we are able to obtain the optimal location of relay coil with a specific lateral misalignment. Numerical results verify the optimality claim using brute-force algorithm and also provide insights on the different locations of laterally misaligned relay coil for different system parameters. 5 claims & 5 Figures

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : METHOD TO IMPLEMENT SATELLITE TIME CODE GENERATION FORMAT AND INTERFACING THE COMPUTER IN VHDL

(51) International classification :H04N0005073000, G01S0019240000, G06K0009620000, H04H0020740000, G11B0027300000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
National Remote Sensing Center (NRSC) receives data from different remote satellites like IRS-P6, IRS-P5, Cartosat-2, Cartosat-2a, etc., and processes it depending on the user requirements. The satellite data received in X band is in a particular data format. This data has to be frame synchronized using a special hardware. This hardware needs time information in a special format. This time information is added in every line by the frame synchronization hardware. In the Invention VHDL code has been developed for the generation of time in days, hours, minutes, seconds, milliseconds, microseconds structure in a BCD format. Computer will provide the start time. This time is interfaced to the developed hardware using the UART developed within the ALTERA EPLD. The time increments are displayed on the HP display devices. The developed hardware will continuously increment from the start time provided by the computer at an interval of 1micro second. 5 claims & 4 Figures

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : PARTICLE SWARM OPTIMIZATION-ENHANCED ULTRA WIDEBAND TIGHTLY COUPLED ARRAY WITH RESISTIVE FSS

(51) International classification :H04B0007080000, H01Q0021290000, H01Q0013020000, H01Q0017000000, H01Q0001220000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 The antennas are necessary to support the technology, which is divided into two categories: omnidirectional and directional antennas. Long-range communication requires directional antennas, but indoor situations and short-range communication require Omnidirectional antennas. The gain, directivity, and band width of directional antennas are all higher. The antenna range of applications in diverse domains must be considered while building an antenna for usage in a given system. To modify performance dependent on design parameters, a FSS is proposed. the FSS is improved by employing a PSO augmented denote as the PSO-UTC-FSS approaches. The PSO approach progresses the accurateness of the antennas limitations that have been calculated. The FSS preserves the gain while dropping interference in the bandwidth. The losses are minimized using these concepts, which improve the radiation efficiency, bandwidth ratio, gain etc. 5 claims & 4 Figures

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : INTELLIGENT IOT NETWORK ARCHITECTURE FOR INDOOR PLANTATION

<p>(51) International classification :H04L0029080000, H04L0012280000, G05B0015020000, H04L0029060000, F24D0019100000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Dundigal, Hyderabad – 500047 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Mahendra Vucha Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Dundigal, Hyderabad – 500047 -----</p> <p>2)Dr. Koppula Srinivas Rao Address of Applicant :Department of Computer Science and Engineering, MLR Institute of Technology, Dundigal, Hyderabad – 500047 -----</p> <p>3)Mr. Kaleru Sai Kiran Address of Applicant :Department of Mechanical Engineering, MLR Institute of Technology, Dundigal, Hyderabad – 500047 ---- -----</p> <p>4)Mrs. Boddireddy Madhuri Address of Applicant :, Department of Electrical and Electronics Engineering, MLR Institute of Technology, Dundigal, Hyderabad – 500047 -----</p> <p>5)Mr. B Bhaskar Address of Applicant :Department of Information Technology, MLR Institute of Technology, Dundigal, Hyderabad – 500047 ---- -----</p> <p>6)Mr. Dontham Laxma Reddy Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Dundigal, Hyderabad – 500047 -----</p> <p>7)Dr. Tatipamula Arun Kumar Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Dundigal, Hyderabad – 500047 ---- -----</p> <p>8)Mr. Y Raghunatha Rao Address of Applicant :Department of Science and Humanities, MLR Institute of Technology, Dundigal, Hyderabad – 500047 ---- -----</p>
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(57) Abstract :

In the advent of wireless technologies, services in homes are becoming smart and inevitable. In smart home, technology must enable interaction between home owners or users and appliances. The importance of Internet of Things (IOT) services for smart homes and smart enterprises is expected to increase in the coming years. The IOT technology connects all kind of objects in the world to the internet including home devices and appliances. The introduction of smart homes has been proposed to improve the quality of life of residents when they are not at home. At present, smart homes are focused on energy efficiency and becoming intelligent. The objective of this invention is to develop an IOT network architecture that connects all types of home appliances including indoor plants to the internet and make them intelligent enough to establish conversation among them and become self-sustainable. Intelligent IOT Network Architecture for indoor plantation has been constructed by interconnecting multiple sensor devices, Central Data Server, Intelligent system, Control Unit and Actuators over the internet for automatic cultivation of ornament plants inside smart homes. 3 claims & 3 Figures

No. of Pages : 9 No. of Claims : 3

(54) Title of the invention : SOLAR POWER BASED AGRICULTURAL ROBOT

<p>(51) International classification :A01G0025160000, G06Q0010060000, A01G0022000000, G06N0003000000, A01B0079000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Hyderabad-500 043, Medchal–District - -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. B. Sridhar Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>2)Dr. S.V.S. Prasad Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>3)Dr. D. Kiran Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>4)Mr. K. Nishanth Rao Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>5)Mr. P. Yakaiah Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>6)Mr. K. Mani Raj Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>7)Mr. T. Pardhu Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>8)Mr. K. Naveen Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p>
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(57) Abstract :
Agriculture has always been an important occupation; most of the population depends on agriculture as their occupation. The current strategies for seed planting, pesticide splashing, and grass slicing are costly and badly designed to deal with. So the horticultural framework in India ought to be empowered by fostering a framework that will lessen labor and time. The main aim of invention is to reduce manpower by developing a robot that does the activities like seeding, ploughing, and watering. In addition to this, we are using a soil sensor to check the moisture in the soil. Solar panels are used for power backup. Robot can receive the commands from embedded C and which is connecting to ESP32. The advantages of robots are decreased human mediation and proficient asset usage. Guidelines are passed to the framework which guarantees no immediate contact with human and accordingly security of administrator is guaranteed. The robot is sun-oriented fueled consequently it is an environmentally friendly power source. By utilizing this high-level work, a rancher can save additional time and furthermore lessen part of the work cost. 5 claims & 2 Figures

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : SYSTEM FOR EFFICIENT WATER DISTRIBUTION AND WATER MANAGEMENT

<p>(51) International classification :G06Q0050060000, E03B0007070000, E03B0007020000, E03B0001020000, G06Q0010060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MLR Institute of Technology Address of Applicant :Hyderabad-500 043, Medchal–District - -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. D. Kiran Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>2)Mr. R. Sateesh Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>3)Mr. K. Nishanth Rao Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>4)Mr. M. Raju naik Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>5)Mrs. Anitha bai K Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>6)Mr. G. Kaushik Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>7)Mr. J. Nagaraju Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p> <p>8)Mr. P. Anjaneyulu Address of Applicant :Department of Electronics and Communication Engineering, MLR Institute of Technology, Hyderabad-500 043, Medchal–District -----</p>
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(57) Abstract :

In urban areas the water supply to residence and commercial establishments are provided at a fixed flow rate. There are incidents of excess water drawing by certain customers/users by connecting motor-pump sets to the water lines which is considered as water theft. In this invention an embedded based remote water monitoring and theft prevention system by recording the flow rates at the consumer/user end was developed. The complete SCADA system structure includes one or more central PC main stations that communicate with more junctions implemented into the pumping stations (pressure and flow measurement or valves remote control). With the continuous economic growth, the water demand of enterprises is also increasing. The monitoring of water resources for these enterprises can prevent the occurrence of stealing water and leaking water effectively. Therefore, the monitoring system of urban water supply has aroused extensive attention in recent years. Urban water supply networks form the link between drinking water supply and drinking water consumers. These large-scale networks are vital for the survival of urban life, for maintaining a healthy level of economic development, and for the continuous operation of factories and hospitals. 3 claims & 2 Figures

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060052 A

(19) INDIA

(22) Date of filing of Application :22/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : POSTURE TRACKING

(51) International classification :A61B0005110000, G01C0015000000, G01B0011260000, A61B0005000000, G01S0017870000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

A method (700) for tracking posture using a device (102) comprises projecting a LASER beam, receiving a first reflected LASER beam, a second reflected LASER beam and a depth map. Further, the method (700) comprises calculating a distance travelled by the first reflected LASER beam and the second reflected LASER beam. Finally, the method (700) comprises transmitting the distance travelled by the first reflected LASER beam, the second reflected LASER beam and the depth map to a system (114). A method (800) for tracking posture comprises receiving the distance from the device (102), computing an angular displacement of the user's neck, measuring an angle of flexion, determining a strain on the user's neck, and detecting a posture of the user. Further, the method (800) comprises recommending a change in the posture of the user upon detection of an unacceptable posture and alerting the user.

No. of Pages : 35 No. of Claims : 9

(54) Title of the invention : COLOSTOMY IRRIGATION KIT

(51) International classification :A61M0003020000, A61F0005442000, A61M0001000000, A01G0027000000, F21S0008000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The invention relates to a colostomy irrigation assembly. In one embodiment, the assembly mainly includes a container structure (1) to contain irrigating liquid therein and thereby define a reservoir for storage of irrigating liquid prior to and during an irrigating process. A supply means (2) for introducing the irrigating liquid into the intestine being flushed. A cone structure (3) having an elongated configuration and a hollow interior extending along the length thereof, the cone attached at its opposite ends to the container and the supply means respectively, the cone interconnected in fluid communication with and between the container and the cone structure to define a path of fluid flow of the irrigating liquid between the reservoir and an intestine to which that cone structure is secured. And a flow track controller (4) attached to supply means and disposed and structured for controlling flow of the irrigating liquid from the reservoir to the cone structure and the intestine being flushed. FIG. 1

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : A SECURITY DEVICE FOR WOMEN SAFETY

<p>(51) International classification :G01S0019130000, G01S0019420000, G01S0019170000, B60R0025102000, G08B0025080000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Malla Reddy Engineering College (Autonomous) Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)THOUTU RAMYASREE Address of Applicant :Vill: Kondapoor , dist: Karimnagar,Mondal: chigurumamidi, H.NO : 3_31, pincode: 505467 -----</p> <p>2)MADALA.BHARGAV Address of Applicant :Plot no:35,flat no :402,sai enclave,pragathinagar,hyderabad, Pin:500090 -----</p> <p>3)MARA RAHUL Address of Applicant :H no:1-55/1,doopally,renjal,nizamabad ,PIN:503245 -----</p> <p>4)MANDADI RUSHMITHA Address of Applicant :Flat no.402 , Marvel residency , Karimnagar . Pincode : 500501 -----</p> <p>5)Dr. Syed Jalal Ahmad Address of Applicant :Professor, ECE Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>6)Mrs.C. Silpa Address of Applicant :Associate Professor, ECE Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>7)Mrs. P. Sowjanya Address of Applicant :Associate Professor, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>8)Mr. N. Pandu Ranga Reddy Address of Applicant :Associate Professor, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>9)Mr. G Prasanna Kumar Address of Applicant :Associate Professor, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>10)Ms. Sk Shakira Begam Address of Applicant :Assistant Professor, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>11)Mr. Y. Murali Address of Applicant :Assistant Professor, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>12)Mrs. K. Anuradha Address of Applicant :Assistant Professor, ECE Department Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p>
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(57) Abstract :

7. ABSTRACT A security device for women and child safety (100) comprises of a micro controller (108), a global system for mobile communication (GSM) modem (110), a global positioning system (GPS) tracker (102), a buzzer, a battery and a switch (106). The micro controller (108) is used to store the contacts and to generate commands to the GSM (110) and GPS tracker (102). The GSM module (110) is used to message the chosen contacts and police control room and the GPS tracker (102) used to send the data, time, latitude, longitude, speed and travel direction. The GPS (102) processed information is sent to chosen contacts. The buzzer works on pressure variation created of electrical potential. The battery supplies the power to externally connected devices and the alarm system inter connected to the device alerts police, volunteers and nearby people. Figure associated with Abstract is Fig. 1.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060185 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : DESIGN & DEVELOPMENT OF RAINFALL PREDICTION USING IMAGE PROCESSING

(51) International classification :G01W0001100000, G01D0021020000, H04W0004380000, G06Q0010040000, G06Q0030020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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Filing Date :NA

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(57) Abstract :

Present-day innovations in technology mainly focus on controlling and monitoring different devices wirelessly over the internet such that the internet acts as a medium for communication between all the devices. An efficient environmental monitoring system is required to watch and assess the weather just in case of exceeding the prescribed level. The embedded system is an integration of sensor devices, wireless communication which enables the user to remotely access the various parameters. Weather predictions contain several variables, like temperature, humidity, wind, dewpoint, among others, trying to supply an appropriate and accurate forecast. Sensor devices are positioned at different locations to collect data to forecast the behavior of a particular area of interest. The main aim of this work is to design and implement a resourceful monitoring system through which the required parameters are monitored remotely using the internet and when the system predicts the rainfall an automatic protection cover will be enabled. The system proposed is a futuristic solution for weather monitoring that uses IoT to form its real-time data easily accessible over a really wide selection. Recent evidence suggests that a forecasting model is highly demanded in the food industry, industrial purposes, meteorological departments, weather stations, aviation, marine industries, and agricultural industries.

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : Development of machine learning model for real time detection of corrosion and durability of materials to assist civil engineers.

<p>(51) International classification :G06N0003040000, G06N0020000000, G06N0003080000, G06T0007000000, G06K0009620000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Tarun Kumar Address of Applicant :PhD Research Scholar, Centre for Product Design and Manufacturing, Indian Institute of Science, Bangalore 560012, Karnataka India ----- 2)Vinay Kumar Singh 3)Kapil Dev Raghuvanshi 4)Mr. Awadhesh Chandramauli 5)Dr. Fouzia Shaheen 6)Roshith P Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Tarun Kumar Address of Applicant :PhD Research Scholar, Centre for Product Design and Manufacturing, Indian Institute of Science, Bangalore 560012, Karnataka India ----- 2)Vinay Kumar Singh Address of Applicant :Assistant Professor, Civil Engineering Department, Madan Mohan Malaviya University of Technology Gorakhpur ----- 3)Kapil Dev Raghuvanshi Address of Applicant :Senior Faculty IT and Assistant Professor, iNurture Education Solutions Pvt Ltd, Swarnim Startup & Innovation University, Gandhinagar ----- 4)Mr. Awadhesh Chandramauli Address of Applicant :Assistant Professor, Civil Engineering Department, UIT, Uttaranchal University Dehradun ----- ----- 5)Dr. Fouzia Shaheen Address of Applicant :Associate Professor, Dept. of Civil Engineering, CVR College of Engineering, Rangareddy Vastunagar, Mangalpalli Ibrahimpatnam, Pocharam, Telangana, 501510, India ----- 6)Roshith P Address of Applicant :PhD Scholar, School of Mechanical Engineering, Vellore Institute of Technology, Vellore Campus, Tiruvalam Rd, Katpadi, Vellore, Tamil Nadu, India, PIN- 632014 -----</p>
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(57) Abstract :
The present invention relates development of machine learning model for real time detection of corrosion and durability of materials to assist civil engineers. The method utilizes Machine Learning (ML) models for assessing corrosion and durability of materials in real to assist civil constructions. The method receives the image of the surface, processes the image using a machine learning algorithm configured to detect the defect, the machine learning algorithm comprising a convolutional neural network including, at least one convolution layer; and displays the image with location of the defect being indicated if determined to be present by the convolutional neural network.

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : TRAFFIC CONTROL SYSTEM AND METHOD FOR MONITORING TRAFFIC SIGNALS AND CONTROLLING SPIKE BARRIER

<p>(51) International classification :G06F0009300000, G08G0001087000, A61B0005040000, E01F0008000000, G16Z0099000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR College of Engineering & Technology Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 2)Kotha Sai Charan Reddy 3)Pulivarthi Nikhil Sai 4)Dr. V. A. Narayana 5)Dr. M. Chandrashekar Reddy 6)Dr. S B. Fatima Mary 7)Dr. M. Vijayashanti 8)B. Kumar Sanjiv 9)B. Anuradha 10)D. Ajay 11)S.Krishnaveni 12)V. Narasimha Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Kotha Sai Charan Reddy Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 2)Pulivarthi Nikhil Sai Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 3)Dr. V. A. Narayana Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 4)Dr. M. Chandrashekar Reddy Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 5)Dr. S B. Fatima Mary Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 6)Dr. M. Vijayashanti Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 7)B. Kumar Sanjiv Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 8)B. Anuradha Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 9)D. Ajay Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 10)S.Krishnaveni Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India ----- 11)V. Narasimha Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana, India -----</p>
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(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards a traffic control system for monitoring traffic signals and controlling spike barrier, comprising: a microprocessor configured to read an input from one or more traffic signals to operate one or more spike barriers through a motor. The motor configured to turn on and turn off the one or more spike barriers by sensing the traffic signals through the microprocessor. A sound frequency detector configured to detect frequency of sounds produced by an ambulance and turn off the spike barriers through the microprocessor. Fig. 1

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF A NOVEL CHEMICALLY MODIFIED REGENERATED CELLULOSE AND FIBRIN BIOCOMPOSITE INCORPORATED WITH SILVER NANOPARTICLES

<p>(51) International classification :A61L0015420000, A61L0015440000, A61L0015460000, A61L0015280000, G16H0040630000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)IQBAL NIYAS AHMED Address of Applicant :No.107 A, 1st Street, S.K. Nagar ----- -----</p> <p>2)Dr.T.P. Sastry 3)Dr.Rahul Ratnakar Mahamuni 4)Dr. J. Madhusudhanan 5)Dr. Vinayaka K.S 6)Dr. A. Doss 7)Dr. T. P. Kumari Pushpa Rani 8)Dr. N. Supraja, 9)Dr. Sridhar Goud Arelli Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)IQBAL NIYAS AHMED Address of Applicant :No.107 A, 1st Street, S.K. Nagar ----- --</p> <p>2)Dr.T.P. Sastry Address of Applicant :Sr. Principal Scientist & Head (Rtd) Biological Material Laboratory CSIR-Central Leather Research Institute Adyar, Chennai – 600 020 -----</p> <p>3)Dr.Rahul Ratnakar Mahamuni Address of Applicant :Assistant Professor Department of Environmental Science, S.B.E.S.College of Science, Aurangabad-431001, (M.S.) -----</p> <p>4)Dr. J. Madhusudhanan Address of Applicant :Professor, Department of Biotechnology, Anand Institute of Higher Technology, OMR, Kazhipattur, Chennai-603103. ----</p> <p>5)Dr. Vinayaka K.S Address of Applicant :Assistant Professor and HOD Department of Botany Sri Venkataramana Swamy College, Vidyagiri, Bantwal-574211, Dakshina Kannada Pin: 574211 Karnataka India -----</p> <p>6)Dr. A. Doss Address of Applicant :Assistant Professor PG & Research Department of Botany V. O. Chidambaram College, Tuticorin Tamilnadu, India -----</p> <p>7)Dr. T. P. Kumari Pushpa Rani Address of Applicant :Assistant Professor Department of Microbiology St. Mary's College (Autonomous) Thoothukudi. -----</p> <p>8)Dr. N. Supraja, Address of Applicant :Acharya N G Ranga Agricultural University, Tirupati, -----</p> <p>9)Dr. Sridhar Goud Arelli Address of Applicant :Researcher in Luminescence(Physics) Institute of Innovative Thinker's Association. Centenary colony. Peddapally , Telangana,505212 -----</p>
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(57) Abstract :

The present invention relates to a process for the preparation of a novel chemically modified regenerated cellulose-fibrin-silver nanoparticles (RC-F-Ag) composite for medical application and the RC-F-Ag biocomposite prepared thereby. The RC-F-Ag biocomposite hold potential use as a dressing aid in the treatment of various external wounds of different nature, which include cut wounds or burn wounds in animals and human beings.

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : FLOOD PSEUDO GATE

<p>(51) International classification :B66F0003080000, G05D0013000000, F16K0003020000, B29C0048920000, E21B0007020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)K. RAMAKRISHNAN COLLEGE OF ENGINEERING Address of Applicant :THE PRINCIPAL, K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMIL NADU, INDIA 621112. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. T. MURUGANANTHAM Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ECE, K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>2)Mr. N. R. NAGARAJAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ECE, K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>3)S. SUDHERSUN Address of Applicant :STUDENT, DEPARTMENT OF ECE, K. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>4)S R SUSMITHA Address of Applicant :STUDENT, DEPARTMENT OF ECE, K. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>5)R VENKATESH Address of Applicant :STUDENT, DEPARTMENT OF ECE, K. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>6)D. SANTHOSH Address of Applicant :STUDENT, DEPARTMENT OF ECE, K. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>7)U KISHORE Address of Applicant :STUDENT, DEPARTMENT OF ECE, K. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>8)P NANDHAKUMAR Address of Applicant :STUDENT, DEPARTMENT OF ECE, K. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>9)N KAUSHIK Address of Applicant :STUDENT, DEPARTMENT OF ECE, K. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p> <p>10)P RAMKUMAR Address of Applicant :STUDENT, DEPARTMENT OF ECE, K. K. RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMILNADU-621112. -----</p>
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(57) Abstract :

The present invention provides a gate setup for avoiding the unwanted water flowing in the residential places. The controlled movement of parts or a controlled application of force is a common requirement in the industries. These operations are performed mainly by using electrical machines or diesel, petrol and steam engines as a prime mover. The prime mover can provide various movements to the objects by using some mechanical attachments like screw jack, lever, rack, and pinions etc. However, these are not the only prime movers.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060658 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : MOBILE APPLICATION FOR DYNAMIC VISUAL AUTHENTICATION SYSTEM AND METHOD EMPLOYED THEREOF

<p>(51) International classification :H04L0009080000, H04L0029060000, G06F0021450000, G06Q0040020000, G06F0016958000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)CMR TECHNICAL CAMPUS Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal, Hyderabad 501401, Telangana, India ----- -</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)ASHUTOSH SAXENA Address of Applicant :C86,Prakruthi Niwas, Opp AFA Dundigal, Annaram, Hyderabad 502313. ----- 2)Manik Lal Das Address of Applicant :B-303, Swagat Rainforest 4, Near Sargasan Cross (KH-0 Road), Vasna Hadmatiya, Gandhinagar - 382006 Gujarat. ----- 3)CHAMAKURA ABHINAV REDDY Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal, Hyderabad 501401, Telangana, India ----- -</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a mobile application for dynamic visual authentication system and method employed thereof. The system includes a user creates account in the bank a unique key is generated in the form of a 10*10 matrix is generated randomly and (2,2) VC scheme is applied on the generated key to obtain two transparencies or shares, and One share is kept at the server side called as server share and another share is given to the user mobile application securely, called as user share. The system further includes during the user authentication process, the user is verify themselves by providing the user name and password, whereby after the user verification instead of OTP the OTP positions are generated, and according to that the server share is modified, resulting in all the positions other than the OTP positions are covered with a gray scale and the resultant image may be given to the user, and the user using the mobile application with his share superimpose the shares to recover the secret. Fig. 1

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060669 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM FOR BLOCKCHAIN LEDGER SLEEVE ACCOUNTING IN DECENTRALIZED AUTONOMOUS ORGANIZATION AND METHOD EMPLOYED THEREOF

<p>(51) International classification :G06Q0040000000, G06Q0020380000, G06F0016230000, H04L0009320000, G06F0021640000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR TECHNICAL CAMPUS Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal, Hyderabad 501401, Telangana, India ----- -</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)NEELAM RANI Address of Applicant :Associate Professor, Finance & Control, Indian Institute of Management, Shillong, Meghalaya, India 793014 -----</p> <p>2)KUMAR SAURABH Address of Applicant :Indian Institute of Management, Shillong. Meghalaya, India 793014 -----</p> <p>3)ASHUTOSH SAXENA Address of Applicant :C86,Prakruthi Niwas, Opp AFA Dundigal, Annaram, Hyderabad 502313 -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for blockchain ledger sleeve accounting in decentralized autonomous organization and method employed thereof. The system comprises sleeve asset management layer configured to perform the operations for the approval process, transaction fulfillment, rebalancing, tokenization, taxation and manages derivatives, and sleeve performance reporting layer configured to perform the reporting layer with manage the sleeve health report based on the modules of log management, event correlation, anomaly detection and audit. The system comprises a sleeve data layer configured to access the data with the functionalities of real-time pricing, value, reconciliation service and benchmark the transaction to the targeted levels, and a decentralized autonomous organization (DAO) characteristic layer configured to get the digitally signed and authenticated approvals to validate the transactions and a tokenization module incentivizes the specific node performing the transaction initiated on behalf of the custodian and virtual sleeve account. Fig. 2

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060727 A

(19) INDIA

(22) Date of filing of Application :24/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : EARLY ACTION PREDICTION USING DEEP LEARNING FRAMEWORK FOR ANOMALY DETECTION FROM SURVEILLANCE VIDEOS BY RECURRENT RESIDUAL INCEPTION V3 AND LSTM

<p>(51) International classification :H04N0007180000, G06N0003040000, G06N0003080000, G06K0009620000, G06K0009000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)D.MANJU Address of Applicant :Assistant Professor, Department of CSE, G. Narayanamma Institute of Technology & Science, Autonomous, Shaikpet, Hyderabad – 500104, Telangana, India. -- ----- 2)Dr.M.SEETHA 3)Dr.P.SAMMULAL Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)D.MANJU Address of Applicant :Assistant Professor, Department of CSE, G. Narayanamma Institute of Technology & Science, Autonomous, Shaikpet, Hyderabad – 500104, Telangana, India. ----- ---- 2)Dr.M.SEETHA Address of Applicant :Professor & HOD, Department of CSE, G. Narayanamma Institute of Technology & Science, Autonomous, Shaikpet, Hyderabad – 500104, Telangana, India. ----- ---- 3)Dr.P.SAMMULAL Address of Applicant :Professor, Department of CSE, JNTU H College of Engineering, Jagtial, Nachupally,(Kondagattu), Kodimial Mandal, jagtial Dist, Telangana, 505501, India. ----- -----</p>
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(57) Abstract :

Video surveillance has become very significant in the contemporary era as it has many benefits to public and governments. It is made using Closed-Circuit Television (CCTV) surveillance cameras. It can help in identifying abnormal events that can help in many applications of computer vision. The current invention is the result of a hybrid model for anomaly detection from surveillance videos. It includes deep learning models such as Long Short Term Memory (LSTM) and Recurrent Residual Inception V3 model. It exploits the concept of unravelled view that is viewed as a collection of many paths instead of single deep network. Recurrent Residual InceptionV3 network makes use of both inception v3 block and residual block to increase training efficiency and reduce execution time. Inception V3 block is capable of handling more data while residual block strives to increase accuracy. LSTM model is trained in order to have better prediction of events. The current invention is equipped with a strong pre-processing phase for improving performance. The pre-processing has ensemble kind of behaviour for leveraging quality of the deep learning models. It has potential to reduce execution time and improve prediction accuracy. This invention benefits many stakeholders such as police, law enforcing agencies, governments, legal entities involving law proceedings, researchers and academia.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : IoT BASED REMOTE PATIENT MONITORING SYSTEM USING WIRELESS BODY AREA NETWORKS (WBAN)

(51) International classification :A61B0005000000, A61B0005024000, A61B0005110000, A61B0005010000, A61B0005020500

(86) International Application No :PCT//
 Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 With the advent of IoT Technologies, Healthcare Monitoring of Patients is very much possible from a remote location using Sensors. These sensors in Wireless Body Area Networks are designed to be tiny and intelligent that are capable to capture and monitor physiological symptoms of patients from remote location. According to the research analytics of World Health Organization, nearly 32% of the deaths in India are due to heart related diseases. It is also reported that this ratio is expected to increase rapidly, thereby reporting highest number of heart disease cases in India amongst other countries of the world. This fact clearly illustrates the need for continuous remote healthcare monitoring of the patients. Disclosed is Remote Healthcare Monitoring System using Wireless Body Area Networks. Various Sensors such as Temperature Sensor, Heartbeat Sensor, Accelerometer and Gyroscope records the Healthcare Metrics of a patient. The recorded data are evaluated using Artificial Intelligence Techniques for the healthcare related issues as the vital healthcare signs of patients are monitored using Wireless Body Area Networks. The evaluated results from the Raspberry Pi processor is sent as an alert to the smart phones of doctors and other caregivers for assistance.

(54) Title of the invention : TMPS SYSTEM- A NEW VENTURE IN DIAGNOSIS AND MANAGEMENT OF TMJ DYSFUNCTION IN MALOCCLUSION PATIENTS

<p>(51) International classification :A61B0005110000, A61B0005000000, A61C0007360000, A61B0005020500, A61F0005560000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ADHIPARASAKTHI DENTAL COLLEGE AND HOSPITAL Address of Applicant :ADHIPARASAKTHI DENTAL COLLEGE AND HOSPITAL MELMARUVATHUR, TAMIL NADU, INDIA, 603319 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. SUDHAKAR VENKATACHALAPATHY Address of Applicant :5I, WEST TOWER, SIS MERIDIAN APPARTMENTS, 100 FEET BYPASS ROAD, GANGAI NAGAR, VELACHERY, CHENNAI TAMIL NADU, INDIA, 600042 -----</p> <p>2)DR. VINODHINI THOPPAY SUBRAMANIAN Address of Applicant :5I, WEST TOWER, SIS MERIDIAN APPARTMENTS, 100 FEET BYPASS ROAD, GANGAI NAGAR, VELACHERY, CHENNAI TAMIL NADU, INDIA, 600042 -----</p> <p>3)DR. RAVISANKAR BALASUNDARAM Address of Applicant :3/1 DHANDEESWARAR COLONY, THROUPATHY AMMAN KOIL STREET, VELACHERY, CHENNAI TAMIL NADU, INDIA, 600042 -----</p> <p>4)DR. HARISH GNANASAMBANTHAN Address of Applicant :5/36, ESWARANKOVIL STREET, PADI, CHENNAI, TAMIL NADU, INDIA, 600050 -----</p> <p>5)DR. SUMANTH RANGARAJAN Address of Applicant :RANGASILLAM,NEW NO 4, VAIGAI STREET, GURUSAMY NAGAR, GOWRIVAKKAM, CHENNAI, TAMIL NADU, INDIA, 600073 -----</p> <p>6)DR. ANANDA DEVI CHINNASAMY Address of Applicant :NO:16/4, SANJEEVIRAYAN KOIL STREET, ARIYALUR, TAMIL NADU, INDIA, 621704 -----</p> <p>7)DR. MURUGANANDAM SIVANANDHAM Address of Applicant :E26, GOLDEN JUBILEE APARTMENTS,ANNA MAIN ROAD, KK NAGAR, CHENNAI, TAMIL NADU, INDIA, 600078 -----</p> <p>8)DR. MAHALAKSHMI KRISHNAKUMARAN Address of Applicant :RANGASILLAM, NEW NO 4, VAIGAI STREET, GURUSAMYNAGAR, GOWRIVAKKAM, CHENNAI, TAMIL NADU, INDIA, 600073 -----</p> <p>9)DR.ASWINI SOUNDHARYA SEKAR Address of Applicant :DOOR NO:9,PLOT NO:62A,PART-IV, SANTHOSH STREET, V.G.P.SHANTHI NAGAR, PALLIKARANAI, CHENNAI, TAMIL NADU, INDIA, 600100 -----</p> <p>10)DR. PANDI GANESAN Address of Applicant :197/1, VIVEKANANDA STREET, ARANMANAIPUDHUR, THENI DISTRICT TAMIL NADU, INDIA, 625531 ---</p> <p>11)DR. PRAVEENKUMAR SIVASANKARAN Address of Applicant :39/22, FIRST STREET,KANNAGINAGAR, GINGEE, VILLUPURAM DISTRICT TAMIL NADU, INDIA, 604202 -----</p> <p>12)DR. SRUTHI JEEVAGAN Address of Applicant :132, THENNADAI STREET, VANDAVASI POST, BIRUDHUR VILLAGE, THIRUVANNAMALAI DISTRICT TAMIL NADU, INDIA, 604408 -----</p>
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(57) Abstract :

TITLE: TMPS SYSTEM- A NEW VENTURE IN DIAGNOSIS AND MANAGEMENT OF TMJ DYSFUNCTION IN MALOCCLUSION PATIENTS APPLICANT: ADHIPARASAKTHI DENTAL COLLEGE AND HOSPITAL ABSTRACT The present discloses a Temporo Mandibular Pressure Sensor System which is capable of finding the pressure applied in each and every tooth and thereby cumulatively calculating pressure at TMJ for diagnosis and management of TMJ dysfunction in malocclusion patients. The Temporo Mandibular Pressure Sensor System of the present invention comprises of: a. an array of sensors positioned on a magnetic strip having adhesive property, adapted to be placed on each and every tooth and configured to monitor pressure on each tooth which is subjected to biting; b. an amplifier integrated with the sensors and adapted to receive data from the sensors and configured to amplify the received data; c. a controller integrated with the amplifier and adapted to receive the amplified data from the amplifier and configured to process the amplified data to form a viewable variables and d. a display integrated with the controller and adapted to receive the viewable variables and configured to display the value of pressure applied on biting.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060769 A

(19) INDIA

(22) Date of filing of Application :25/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A PERIODONTAL HAND SCALER INSTRUMENT FOR OCCLUSAL CALCULUS

(51) International classification :A61B0017320000, A61C0003000000, B25B0023000000, A61B0017540000, A61C0019040000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

TITLE: A PERIODONTAL HAND SCALER INSTRUMENT FOR OCCLUSAL CALCULUS APPLICANT: ADHIPARASAKTHI DENTAL COLLEGE AND HOSPITAL ABSTRACT The present invention discloses a Periodontal hand scaler instrument for removing occlusal calculus in the grooves and fissures and for removing bulky calculus from the occlusal surface. The Periodontal hand scaler instrument of the present invention comprises of a handle[1] integrated with tapering shanks [2,3] on either ends of the handle[1] which in turn coupled with working ends[4,5] on ends of the shanks [2,3]. The instrument is characterized in that the working ends[4,5] is positioned equal and oppositely angled at 90 degrees with respect to the handle[1]. The working end [4] comprises of a curved blade having inner cutting edge [6] and outer cutting edge [7] with thin and sharp tip[8] configured to remove occlusal calculus in the grooves and fissures. The working end [5] comprises of a curved blade having inner cutting edge[9] and outer cutting edge[10] with bulk tip[11] configured to remove bulk calculus on occlusal surface.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : IOT INTELLIGENCE WASTE MANAGEMENT SYSTEM

<p>(51) International classification :B65F0001140000, B09B0003000000, B65F0001160000, F23G0005460000, C02F0001780000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.Piyush Kumar Pareek Address of Applicant :Professor and Head , Department of Computer Science Engineering , East West college of Engineering , Bengaluru - 560064 -----</p> <p>2)Mr.Bibhu Kalyan Mishra 3)Dr. Garima Sharma 4)Shamanth B K 5)Dr Jayalakshmi N 6)Dr. Kiran.G 7)Dr.Appasaba L V 8)Dr.Lakshminarayana.K 9)Dr. L. Thimmesha 10)DEEPA V P Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Piyush Kumar Pareek Address of Applicant :Professor and Head , Department of Computer Science Engineering , East West college of Engineering , Bengaluru - 560064 -----</p> <p>2)Mr.Bibhu Kalyan Mishra Address of Applicant :Assistant Professor, Department of Computer Science, Faculty of Science Sri Sri University, Cuttack, Odisha -----</p> <p>3)Dr. Garima Sharma Address of Applicant :Mody University of Science and Technology, Lakshmangarh, Sikar -----</p> <p>4)Shamanth B K Address of Applicant :Visiting professor at University Visvesvaraya College of Engineering -----</p> <p>5)Dr Jayalakshmi N Address of Applicant :Visiting professor at Vishveswarayya university college of Engineering -----</p> <p>6)Dr. Kiran.G Address of Applicant :Designation: Associate Professor Welingkar Institute of Management Development and Research Bangalore - 560100 -----</p> <p>7)Dr.Appasaba L V Address of Applicant :Assistant Professor, Department of Management Studies, Visvesvaraya Technological University- Belagavi, Belagavi Tq & Dist-590018 ----</p> <p>8)Dr.Lakshminarayana.K Address of Applicant :Assistant Professor, Department of Master of Business Administration, Visvesvaraya Technological University, Center for Post Graduate Studies- Bangalore Region, Muddenahalli, Chickballapura Tq & Dist-562101 -----</p> <p>9)Dr. L. Thimmesha Address of Applicant :Assistant Professor & Head Department of English & Humanities Government Engineering College Hassan - 573201, Karnataka , INDIA. -----</p> <p>10)DEEPA V P Address of Applicant :Affiliation:GOVERNMENT ENGINEERING COLLEGE,Ramanagara -----</p>
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(57) Abstract :
 ABSTRACT The utility model reveals a waste management system that can handle biodegradable, non-biodegradable, and food waste efficiently. As part of the system's routine, non-biodegradable rubbish is recycled, biodegradable waste is buried, and food waste is delivered to stray animals and humans. IoT trash management attempts to maintain things clean and sanitary while reducing the amount of solid waste produced in a cost-effective way.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060784 A

(19) INDIA

(22) Date of filing of Application :25/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYNTHESIS METHOD OF BIOPLASTIC MATERIALS AND BIODEGRADATION ANALYSIS

<p>(51) International classification :C12P0007620000, C08L0003020000, A01G0009020000, C02F0001680000, C08K0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Department of chemical engineering, Sathyabama Institute of Science and Technology, Chennai-600119 Tamil Nadu, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr D.Venkatesan Address of Applicant :Associate Professor Department of chemical engineering, Sathyabama Institute of Science and Technology, Chennai-600119 Tamil Nadu, India ----- ---</p> <p>2)R. Mohana Prakash Address of Applicant :Department of chemical engineering, Sathyabama Institute of Science and Technology, Chennai-600119 Tamil Nadu, India -----</p> <p>3)Dr D. Prabu Address of Applicant :Associate Professor Department of chemical engineering, Sathyabama Institute of Science and Technology, Chennai-600119, Tamil Nadu, India ----- ---</p> <p>4)Dr S.Sathish Address of Applicant :HOD, Professor Department of chemical engineering, Sathyabama Institute of Science and Technology, Chennai-600119, Tamil Nadu, India -----</p> <p>5)Dr. S. Balasubramanian Address of Applicant :HOD, Professor Department of chemical engineering, KPR Institute of Engineering and Technology, Coimbatore-641407 Tamil Nadu, India -----</p>
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(57) Abstract :

The present invention is in the field of bio-plastics. The invention particularly provides a synthesis method for preparation of fruit peel based bioplastics and biodegradation analysis of fruit peel based bioplastics thereof. The method of synthesis of bioplastics in that starch were prepared by cutting down peel into pieces then blended, thereby adding chemicals and upon drying process. This method involves the synthesis of bioplastic in dual process by natural and chemical method in order to achieve better biodegradation capability. Biodegradation analysis in soil and water environment, water absorption analysis, and characterization techniques were reported by Fourier transform infrared spectroscopy. Biodegradation analysis of prepared bioplastics has been the green root to sustain in world of plastics, biodegradable and easily adaptable.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : Land use and Land Cover classification using RGB&L Based supervised classification algorithm

<p>(51) International classification :G06N0003040000, G06K0009460000, G06K0009000000, G06K0009620000, G06N0003080000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.M.RENUKA DEVI Address of Applicant :Associate Professor, Dept of Computer Applications, Sri Krishna arts and science College, Coimbatore, Tamilnadu Pincode:642006 ----- 2)Dr. L. ARUNA 3)Dr.P.Logeswari 4)Dr.P.SUDHA 5)Dr.R.U.Anitha 6)Dr.K.SUTHA 7)Dr.P. ARAVINDAN 8)Dr.P.VELMURUGAN 9)S.SUDHA 10)J GOKULAPRIYA 11)G.BANUPRIYA 12)M.Meena Krithika Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.M.RENUKA DEVI Address of Applicant :Associate Professor, Dept of Computer Applications, Sri Krishna arts and science College, Coimbatore, Tamilnadu Pincode:642006 ----- 2)Dr. L. ARUNA Address of Applicant :Professor & Principal, Computer Science, Vivekanandha College For Women, Unjanai, Namakkal District, Tamilnadu, India Pincode: 637205 ----- 3)Dr.P.Logeswari Address of Applicant :Assistant Professor, Computer Applications, Sri Krishna Arts And Science College, Coimbatore, Tamil Nadu, India Pincode:641008 ----- 4)Dr.P.SUDHA Address of Applicant :Assistant Professor, MCA, Srm Institute Of Science And Technology, Ramapuram Campus Chennai, Tamilnadu, India Pincode: 600089 ----- 5)Dr.R.U.Anitha Address of Applicant :Assistant Professor, Department of Computer Science, Sona College of Arts and Science, Salem, Tamilnadu, India Pincode: 636005 ----- 6)Dr.K.SUTHA Address of Applicant :Assistant Professor, MCA, SRM Institute of Science and Technology, Ramapuram Campus, Chennai, Tamilnadu, India Pincode: 600089 ----- 7)Dr.P. ARAVINDAN Address of Applicant :Assistant Professor, Computer Applications, Government Arts and science college, Valparai, Tamil Nadu, India Pincode:642127 ----- 8)Dr.P.VELMURUGAN Address of Applicant :Assistant Professor, Computer Science, Government Arts and Science College, Valparai, Tamilnadu, India Pincode: 642 127 ----- 9)S.SUDHA Address of Applicant :Research Scholar, Computer Science, Sri Krishna Arts And Science College, Coimbatore, Tamil Nadu, India Pincode:641008 ----- 10)J GOKULAPRIYA Address of Applicant :Research Scholar, Sri Krishna Arts and science college Coimbatore, Tamil Nadu, India Pincode:641008 ----- 11)G.BANUPRIYA Address of Applicant :Research Scholar, Computer Science, Sri Krishna Arts and science college Coimbatore, Tamil Nadu, India Pincode:641008 ----- 12)M.Meena Krithika Address of Applicant :Assistant Professor, Computer science, Nallamuthu Gounder Mahalingam College, Pollachi, Tamilnadu, India Pin:642001 -----</p>
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(57) Abstract :
Remotely sensed imagery has traditionally been divided into two categories: land cover (LC) and land use (LU), with little consideration given to the innately hierarchical and nested interactions between them. A unique combined deep learning framework is suggested and shown for classification tasks in the LC and LU domains. In the proposed Joint Deep Learning (JDL) model, which integrates a multilayer perceptron (MLP) and a convolutional neural network (CNN), iterative updating is performed via the use of a Markov process. The CNN carries out LU classification in the JDL, and it is made conditional on the LC probabilities predicted by the MLP in the JDL. Additionally, those LU probabilities, coupled with the original images, are re-used as inputs to the MLP to improve the representation of spatial and spectral features in both the spatial and spectral domains. This iterative process of updating the MLP and CNN results in a joint distribution, in which both LC and LU are categorized simultaneously via the use of the MLP and CNN.

No. of Pages : 25 No. of Claims : 4

(54) Title of the invention : A PSEUDO LINEAR ENHANCED PHASE-LOCKED LOOP-BASED CONTROL SYSTEM FOR CONTROL OF DISTRIBUTION STATIC COMPENSATOR IN DISTRIBUTION NETWORK

<p>(51) International classification :H02J0003180000, H02J0003360000, H02M0007538700, H02J0003320000, H02J0003480000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. J.RAMESH Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru, Vijayawada-520007 ----</p> <p>-----</p> <p>2)Dr.M.SUDHAKARAN 3)Dr. KUMAR CHERUKUPALLI 4)Dr.P.CHANDRA BABU NAIDU 5)Mrs. MANGALAPURI SRAVANI Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. J.RAMESH Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru, Vijayawada-520007 ----</p> <p>-----</p> <p>2)Dr.M.SUDHAKARAN Address of Applicant :Professor, Department of Electrical and Electronics Engineering, Puducherry Technological University, Puducherry-605014 -----</p> <p>3)Dr. KUMAR CHERUKUPALLI Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Prasad V. Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada-520007 -</p> <p>-----</p> <p>4)Dr.P.CHANDRA BABU NAIDU Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru, Vijayawada-520007 ----</p> <p>-----</p> <p>5)Mrs. MANGALAPURI SRAVANI Address of Applicant :Ph.D. Research Scholar, Department of Electrical & Electronics Engineering, Vignana's Foundation for Science, Technology & Research (Deemed to be University), Vadlamudi, Guntur,AP-522213. -----</p>
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(57) Abstract :

[023] The present invention discloses a Pseudo Linear Enhanced Phase-Locked Loop-based Control System for Control of Distribution Static Compensator in Distribution Network. The system includes, but is not limited to, a three-phase three-leg VSC based DSTATCOM is linked with a distribution network for compensating linear and non-linear load as depicted in Figure 1. In the DSTATCOM, the VSC converts the dc-link capacitor voltage into three-phase ac voltages. By the interfacing inductor, these voltages are coupled with the ac system. Effective exchange of active and reactive power between the DSTATCOM and the ac system is possible only by making proper adjustments of the phase and magnitude of the output voltages of the DSTATCOM. A technically attractive solution to solve the above problems is to use some efficient control with the help of power electronic converters. Accompanied Drawing [FIG. 1]

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141060844 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A NEURAL-FUZZY APPROACH IN THE MEDICAL IMAGE PROCESSING SYSTEM

<p>(51) International classification :G06T0007187000, G06Q0050220000, G06T0007110000, G16H0030200000, G06T0007000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. P. AURCHANA Address of Applicant :ASST. PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SCHOOL OF ENGINEERING, MALLA REDDY UNIVERSTIY, MAISAMMAGUDA, KOMPALLY, HYDERABAD, TELANGANA, INDIA , 500100. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. P. AURCHANA Address of Applicant :ASST. PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SCHOOL OF ENGINEERING, MALLA REDDY UNIVERSTIY, MAISAMMAGUDA, KOMPALLY, HYDERABAD, TELANGANA, INDIA, 500 100. -----</p> <p>2)KOTHAKONDA MANASA Address of Applicant :ASST. PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SCHOOL OF ENGINEERING, MALLA REDDY UNIVERSTIY, MAISAMMAGUDA, KOMPALLY, HYDERABAD, TELANGANA, INDIA , 500100. -----</p> <p>3)Dr. U. SESADRI Address of Applicant :ASST. PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SCHOOL OF ENGINEERING, MALLA REDDY UNIVERSTIY, MAISAMMAGUDA, KOMPALLY, HYDERABAD, TELANGANA, INDIA , 500100. -----</p> <p>4)Dr. GOUTHAM MAMIDISETTI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SCHOOL OF ENGINEERING, MALLA REDDY UNIVERSTIY, MAISAMMAGUDA, KOMPALLY, HYDERABAD, TELANGANA, INDIA , 500 100. -----</p> <p>5)Dr. M. SANTHOSH KUMAR GOUD Address of Applicant :ASST. PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SCHOOL OF ENGINEERING, MALLA REDDY UNIVERSTIY, MAISAMMAGUDA, KOMPALLY, HYDERABAD, TELANGANA, INDIA , 500 100. -----</p> <p>6)GANTA RAJU Address of Applicant :ASST. PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SCHOOL OF ENGINEERING, MALLA REDDY UNIVERSTIY, MAISAMMAGUDA, KOMPALLY, HYDERABAD, TELANGANA, INDIA , 500 100. -----</p>
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(57) Abstract :
 Medical images are increasingly being used in healthcare services for diagnosis, treatment guidance, treatment planning, and monitoring illness progression. In fact, medical imaging mostly processes uncertain, lost, vague, complementary, conflicting, redundant contradictory, distorted information and data has powerful structural character. The contents similarity extracted from the picture with presto red models is included in the interpretation of every picture as a generic method. The progress of fuzzy pattern recognition based medicinal imaging, which contributes to solving medical difficulties in diagnosis and visualization, has sparked increased interest. In the context of medical imaging, vulnerabilities can arise at any time, resulting in true segmentation inaccuracy.

No. of Pages : 6 No. of Claims : 0

(54) Title of the invention : VOICE CONTROLLED MEDICAL PRESCRIPTION DISPENSER

(51) International classification :A61B0017000000, G06Q0050220000, G06F0003160000, A61B0034370000, G10L0015220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In the Past few years AI has made a significant impact on the healthcare industry which got us thinking whether AI will replace physical doctors in the future. Although we feel that it's not possible to completely replace doctors, AI can still assist physicians in making their work easier and more efficient by assisting patients and medical staff to solve their medical problems. There are a number of medicines released in the market every day and a doctor and the medical staff can't keep track of the medicines prescribed by the government and nor can we provide good doctors who can prescribe medicines in the rural and urban areas. To overcome such major problems in the basic health structure in the health industry it would be very beneficial if we use an AI which can assist the doctors as well as be used as a doctor itself in the rural and urban areas to recommend medicines. Voice Controlled Medicine Prescription Dispenser is essentially a voice-controlled machine. The input to this system is the name of the disease, illness or symptoms. Once when it receives through the symptoms the medicine for that corresponding illness or disease would be provided so that for disease which don't require the attention of the senior doctor who is very scarce in rural and urban areas can be dealt with by the nursing staff so that other serious patients can get the opportunity. This project will work very efficiently even in the rural areas due to its capability of taking input in rural languages,. Health Care voice recognition capabilities have received many positive reviews, and the interaction is simple and easy. This health-controlled machine will make it much easier for the people especially in the rural areas to treat themselves. It has the potential off enabling continuity of care, as patients can interact with it the same way whether in a hospital setting or at home. Many people in the rural areas suffer due to the lack of proper medical facilities and availability of doctors 24x7 and due to the lack of knowledge as to what medicines to be taken for simple diseases. Many facilities are not available to the people in such areas. No good doctors are available and most of them have no idea about the proper medication to use for a particular disease or symptom which makes it too difficult to treat the patient in difficult situations. So, the main aim of this work is to help the people get proper medical facilities which are also affordable and much easy to treat oneself.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : A threat model for security attacks on internet of robotic things data exchange

(51) International classification :H04L0029060000, H04L0029080000, G06N0020000000, H04W0004700000, G06F0021760000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 A threat model for security attacks on internet of robotic things data exchange. Abstract: The use of robots has increased dramatically across a wide range of industries. Agriculture and medical care are examples, as are the military and law enforcement, as well as logistics. A robot's job is to assist humans, make things easier, and improve their quality of life. There have been numerous incidents that have resulted in very bad outcomes, such as the death of people. Accidents happen all the time, but those caused by malicious attacks are a difficult problem to solve because they are so uncommon. One example is when robots are hijacked or taken over, which can have serious consequences for the economy and finances. Because IoT devices have limited power, data encryption and device authentication are typically not included. Making IoT hardware is typically not expensive, but there are a few exceptions. The integrity and security of many things that are part of the Internet of Things are being called into question as a result of these changes. As IoT hardware is developed, an attacker can use a Hardware Trojan (HT) to obtain information or cause things to malfunction. This protocol is used to transmit data from a sensor to a microcontroller. Second, we examine the protocol's security flaws. We use an analogue hardware Trojan to carry out our MITM attack. This Trojan has the ability to move between the digital and analogue worlds, making it extremely useful.

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : Deep learning techniques in hippocampal segmentation using coronal brain MRI

<p>(51) International classification :G06N0003040000, A61B0005000000, G06N0003080000, A61B0005160000, G01N0033680000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Mr. Anvar Shathik J Address of Applicant :Associate Professor & Head, (Senior Faculty –iNurture Education solutions), Srinivas University college of Engineering & Technology, Mukka, Mangalore, Karnataka, 574146 -----</p> <p>2)Bilal Ahmed Mir 3)Dr. Senthil Kumar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Anvar Shathik J Address of Applicant :Associate Professor & Head, (Senior Faculty –iNurture Education solutions), Srinivas University college of Engineering & Technology, Mukka, Mangalore, Karnataka, 574146 -----</p> <p>2)Bilal Ahmed Mir Address of Applicant :Research Scholar, Graduate School of Science and Engineering for Education, University of Toyama , 3190 Gofuku, Toyama, 930-8555, Japan. -----</p> <p>3)Dr. Senthil Kumar Address of Applicant :Professor & Head , Department of Computer Science & Engineering, Srinivas University college of Engineering & Technology, Mukka, Mangalore, Karnataka, 574146 -----</p>
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(57) Abstract :
Deep learning techniques in hippocampal segmentation using coronal brain MRI Abstract: Magnetic resonance imaging (MRI) technology has been used to investigate a variety of neurological diseases as well as the structure of the brain. It has also been used to investigate how the brain functions (MRI). Early detection of Alzheimer's disease (AD) is critical for taking preventative measures. Because segmented MRI can examine tissue structures in greater detail, it can be used to better classify specific neurological disorders. Alzheimer's disease can be diagnosed in a variety of ways, each with a varying degree of difficulty. Deep learning approaches for dividing up the brain and classifying This is because deep learning methods are increasingly being used in place of traditional machine learning methods in a variety of industries. We'll look at deep learning methods for analysing quantitative brain MRI data to determine whether a person has Alzheimer's (AD). In this section, we discuss how convolutional neural network architectures are used to examine anatomical brain structure and diagnose Alzheimer's disease. We also discuss how brain MRI segmentation improves AD classification, best practises in this field, and future research. As a conclusion, we provide an overview of the current state of Alzheimer's disease diagnostics and discuss potential research directions in this area.

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : Internet of Things based Poaching prevention System in the Forest Using WSN

<p>(51) International classification :A01G0017000000, A01G0023000000, A01G0023040000, H04W0084180000, A01G0023093000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. A. Indira Priyadarsini Address of Applicant :Asst Professor of Botany, SKR Govt Degree College, Nagari, Chittoor dt- 517 590,AP,India -----</p> <p>2)Dr. I. S. Chakrapani</p> <p>3)Dr.Ashish Kumar</p> <p>4)Mr.RAGHAV DWIVEDI</p> <p>5)V Leela Devi</p> <p>6)Dr.R.M.SARAVANA KUMAR</p> <p>7)Dr.Sayyed Juned Allahabaksh</p> <p>8)Mr.D Y KIRAN KUMAR</p> <p>9)Mr.DALSANIA PIYUSHKUMAR CHANDULAL</p> <p>10)Mr.BHAGIRATH S BHATT</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. A. Indira Priyadarsini Address of Applicant :Asst Professor of Botany, SKR Govt Degree College, Nagari, Chittoor dt- 517 590,AP,India -----</p> <p>2)Dr. I. S. Chakrapani Address of Applicant :Asst. Professor of Zoology PRR&VS Govt College, Vidavalur 524318-AP, India -----</p> <p>3)Dr.Ashish Kumar Address of Applicant :Assistant Professor, Department of Biotechnology, Sant Gahira Guru Vishwavidyalaya Sarguja Ambikapur Chhattisgarh-497001, Chhattisgarh, India -----</p> <p>4)Mr.RAGHAV DWIVEDI Address of Applicant :Assistant Professor, PSIT, Kanpur - Agra - Delhi, NH2, Bhauti, Kanpur, Uttar Pradesh-209305, UTTAR PRADESH, INDIA -----</p> <p>-----</p> <p>5)V Leela Devi Address of Applicant :Student , 3rd Semester, M. Tech (Power and Energy Systems). Energy Institute, A institute of Rajiv Gandhi Institute of Petroleum and Technology, c/o NMIT , Yelahanka, Bangalore- 560064, Karnataka, India -----</p> <p>-----</p> <p>6)Dr.R.M.SARAVANA KUMAR Address of Applicant :ASSOCIATE PROFESSOR, SAVEETHA SCHOOL OF ENGINEERING, SIMATS, SAVEETHA NAGAR, THANDALAM, CHENNAI-602105, TAMILNADU, INDIA -----</p> <p>7)Dr.Sayyed Juned Allahabaksh Address of Applicant :Assistant Professor, Arts, Commerce and Science College Onda, Tal. Vikramgad, Dist. Palghar 401605, Maharashtra, India -----</p> <p>----</p> <p>8)Mr.D Y KIRAN KUMAR Address of Applicant :PG-Student, JNTUA CEA, Anantapur, Andhra Pradesh, India- 515002, Andhra Pradesh, India -----</p> <p>9)Mr.DALSANIA PIYUSHKUMAR CHANDULAL Address of Applicant :LECTURER EC A. V. PAREKH TECHNICAL INSTITUTE, EC DEPARTMENT, NEAR HEMU GADHVI HALL, TAGORE ROAD, RAJKOT-360001, GUJARAT, INDIA -----</p> <p>10)Mr.BHAGIRATH S BHATT Address of Applicant :LECTURER EC, A. V. PAREKH TECHNICAL INSTITUTE, EC DEPARTMENT, NEAR HEMU GADHVI HALL, TAGORE ROAD, RAJKOT- 360001, GUJARAT, INDIA -----</p>
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(57) Abstract :

Internet of Things based Poaching prevention System in the Forest Using WSN Abstract: At this point, getting trees like Sandal and Sagwan into the country has been in the news for a few days. Because these trees are so expensive, many people are hesitant to purchase them. For a long time, Indian smugglers have been smuggling these trees. Illegal wood trade is endangering forests all over the world. To prevent this, preventative measures must be implemented. Because trees can be sold for a lot of money, there has been a significant increase in tree-cutting incidents. When we're here, our job is to keep the trees safe so that no illegal goods can pass through them. They want to keep teak, sandalwood, and other valuable trees from being cut down.

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : A METHOD FOR EXTRACTION OF GARCINIA INDICA LEAF EXTRACT AND EVALUATION OF THE ANTI-OBESITY ACTIVITY THEREOF

<p>(51) International classification :A61K0036380000, A23L0033105000, B01D0003080000, B01D0011020000, C07C0045780000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Rama Narsimha Reddy Anreddy Address of Applicant :Professor & Principal, CVM College of Pharmacy, Velichala, Ramadugu, Karimnagar -505451 -----</p> <p>2)Dr. Sudha Parimala</p> <p>3)Dr. Akash Marathakam</p> <p>4)Dr.M. Sri Ramachandra</p> <p>5)Dr. Arul Prakasam KC</p> <p>6)Dr P.Pandian</p> <p>7)Dr.G.Alagumanivasagam</p> <p>8)Dr.A.Kottai Muthu</p> <p>9)Dr. J. Amutha Iswarya Devi</p> <p>10)Mr. Ashish Singhai</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Rama Narsimha Reddy Anreddy Address of Applicant :Professor & Principal, CVM College of Pharmacy, Velichala, Ramadugu, Karimnagar -505451 -----</p> <p>2)Dr. Sudha Parimala Address of Applicant :Associate Professor, Dep of Pharmacognosy, RBVRR Women's College of Pharmacy, Hyderabad - 500027, Telangana, India -----</p> <p>3)Dr. Akash Marathakam Address of Applicant :Professor and Head Dept of Pharmaceutical Chemistry National College of Pharmacy Kozhikode, Kerala-673602 -----</p> <p>4)Dr.M. Sri Ramachandra Address of Applicant :Associate Professor, Bhaskar Pharmacy College, Yenkapally, Moinabad, Rangareddy (Dist.), Telanagana-500075 -----</p> <p>5)Dr. Arul Prakasam KC Address of Applicant :Professor, Department of Pharmacy Practice, JKKMMRF, College of Pharmacy, Komarapalayam Post, Namakkal Dist. -638183 -----</p> <p>6)Dr P.Pandian Address of Applicant :Associate Professor, Department of Pharmacy, Annamalai University, Annamalai Nagar Chidambaram-608002 -----</p> <p>7)Dr.G.Alagumanivasagam Address of Applicant :Assistant Professor Department of Pharmacy Annamalai university -----</p> <p>8)Dr.A.Kottai Muthu Address of Applicant :Associate Professor Department of Pharmacy Annamalai University Annamalai Nagar .608002. -----</p> <p>9)Dr. J. Amutha Iswarya Devi Address of Applicant :Principal St. Mariam college of Pharmacy, Pudur-627851 Tirunelveli District, TamilNadu -----</p> <p>10)Mr. Ashish Singhai Address of Applicant :Assistant Professor, College of Pharmacy, Teerthankar Mahaveer University, Moradabad, Uttar Pradesh, India-244001 -----</p>
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(57) Abstract :

ABSTRACT A METHOD FOR EXTRACTION OF GARCINIA INDICA LEAF EXTRACT AND EVALUATION OF THE ANTI-OBESITY ACTIVITY THEREOF The present disclosure relates to method for extracting Garcinia indica leaf methanolic extract and the evaluation of its anti-obesity activity. The method involves collecting, drying and grinding of Garcinia indica leaves, followed by Soxhlet extraction in methanol. The resulting extract is filtered and the solvent is removed by distillation in a rotary evaporator to obtain solid residue. This extract is used for evaluation of acute toxicity and anti-obesity activity in adult female albino wistar rat model using Atorvastatin as standard treatment. Anti-obesity activity was evaluated by measurement of total cholesterol, triglycerides, HDL and LDL cholesterol levels. (FIG. 1 will be the reference figure)

No. of Pages : 16 No. of Claims : 2

(54) Title of the invention : A THERMODYNAMIC ANALYSIS SYSTEM OF HALL CURRENT AND SORET NUMBER ON HYDROMAGNETIC COUETTE FLOW IN A ROTATING SYSTEM WITH A CONVECTIVE BOUNDARY CONDITION

<p>(51) International classification :G01N0011140000, B21B0037000000, G06F0119080000, G01N0033490000, G01L0003240000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. VENKATESWARLU MALAPATI Address of Applicant :Department of Mathematics, V. R. Siddhartha Engineering College, Vijayawada, Andhra Pradesh, India, PIN: 520 007 -----</p> <p>2)MRS. M. PRAMEELA 3)DR. M. PHANI KUMAR</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. VENKATESWARLU MALAPATI Address of Applicant :Department of Mathematics, V. R. Siddhartha Engineering College, Vijayawada, Andhra Pradesh, India, PIN: 520 007 -----</p> <p>2)MRS. M. PRAMEELA Address of Applicant :Department of Mathematics, P.V.P. Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, India, PIN: 520 007 -----</p> <p>3)DR. M. PHANI KUMAR Address of Applicant :Department of Mathematics, VIT-AP University, Amaravati, Andhra Pradesh, India, PIN: 522 237 ----- -----</p>
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(57) Abstract :

A THERMODYNAMIC ANALYSIS SYSTEM OF HALL CURRENT AND SORET NUMBER ON HYDROMAGNETIC COUETTE FLOW IN A ROTATING SYSTEM WITH A CONVECTIVE BOUNDARY CONDITION 5 [033] The present invention discloses a thermodynamic analysis system of hall current and Soret number on hydromagnetic Couette flow in a rotating system with a convective boundary condition. The present invention considers the effect of the fascinating and novel characteristics of Hall current and Soret number on hydromagnetic Couette flow in a rotating system with a convective boundary condition. Exact solutions for the fluid 10 velocity, temperature, and species concentration, under Boussinesq approximation, are obtained in closed form by using the two-term perturbation technique. The interesting parts of thermal dispersing outcomes are taken into account. Graphical evaluation appears to depict the trademark direct of introduced parameters on non-dimensional velocity, temperature, and concentration profiles. Also, the numerical assortment for skin 15 friction coefficient, Nusselt number, and Sherwood number is examined through tables. In particular, primary velocity decreases and secondary velocity increases with an increase in the magnetic parameter. Accompanied Drawing [FIG. 1]

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061067 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Living Walls with Moving Panel

(51) International classification :G06Q0030020000, H04L0029060000, A01G0009020000, G07F0007020000, G02B0027090000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An automatic maintenance system for living wall comprises of a moving panel along a grid like a scrambler puzzle which id enables panels of a living wall to be moved towards specific service points on the wall openings either manually or through automation.

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061068 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Contactless Vending System

(51) International classification :G07F0009100000, A41D0013110000, G07F0011000000, A62B0018020000, G07F0019000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The objective of the present invention is to design and develop an advanced mask vending machine. According to the embodiment of the present invention, a vending machine which dispenses masks for a lower cost and allows easy access to those in need of it. Further in accordance with the present invention, by this the user can protect themselves and buy a mask at a cheaper price. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061069 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : FOLDABLE KIDS NEST

(51) International classification :A61K0035570000, B65D0077060000, A61K0008670000, H04W0004210000, A45C0009000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The objective of the present invention is to provide a bird's nest bag which allows a kid to sleep or sit inside. According to the embodiment of the present invention, the bird nest bag is used to isolate kids below 2 years, who are affected by COVID-19. The netted portion of the bag allows a clear visibility to check on the user by the medical assistants, during emergency situations. The children below two years of age can be isolated in the bags for a shorter duration. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061070 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Retractable Changing cum Resting Area

<p>(51) International classification :E04H0001000000, G02B0006060000, E01F0015140000, F24F0013020000, B32B0007120000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Faculty Of Architecture, Dr. M.G.R Educational and Research Institute Address of Applicant :Dr. M.G.R Educational and Research Institute, Service Rd, Mogappair, Adayalampattu, Chennai, Tamil Nadu, India -600095. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shravya A Address of Applicant :Faculty Of Architecture, Dr. M.G.R Educational and Research Institute, Service Rd, Mogappair, Adayalampattu, Chennai, Tamil Nadu, India -600095. -----</p> <p>2)Shrruthi M Address of Applicant :Faculty Of Architecture, Dr. M.G.R Educational and Research Institute, Service Rd, Mogappair, Adayalampattu, Chennai, Tamil Nadu, India -600095. -----</p> <p>3)D. Jayanthi Address of Applicant :Faculty Of Architecture, Dr. M.G.R Educational and Research Institute, Service Rd, Mogappair, Adayalampattu, Chennai, Tamil Nadu, India -600095. -----</p>
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(57) Abstract :

The objective of the present invention is to provide a modular retractable unit which is adapted to form a private room with foldable panels which provide an enclosed work area providing privacy. According to the embodiment of the present invention, the wrappers can be fixed to any pole whereas the frames are connected to form the cylindrical shape, providing the needed amount of privacy. (Refer Fig. 3)

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061071 A

(19) INDIA

(22) Date of filing of Application :27/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Octagon Booth

(51) International classification :G01G0019500000, G07C0011000000, D06F0033000000, H01S0003097500, G08G0001010000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The octagon booth is designed to sterilize people before getting into crowded place. The general parameters like temperature, height, weight, pulse rates are accurately calculated and briefly printed. In order to make things time efficient, instead of standing in queue to check each parameter, all the parameters are being calculated at once. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(51) International classification :H02J0003140000, G05B0015020000, G06Q0050060000, H04W0004800000, G05B0019418000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Smart grids are a progression of the prevailing electric circulation systems due its rising mandate of energy, the enlargement in the usage of renewable energy supplies, and the growth of unique and inventive Information and Communication Technologies (ICT). The connection of systems founded on wireless grids can display a significant role in the allowance of the smart grid in the direction of smart home environment that could be believed as one of the best imperative components of smart networks. Moreover, observing and control applications, energy reaping, and inventive metering practices over smart wireless strategies are flattering progressively significant. In this note, the present investigation recommends an innovative energy managing method for smart homes that syndicates a wireless grid, based on Bluetooth Lower Energy (BLE), for message amid home machines, along with a Home Energy Management (HEM) system. Overall, the projected invention discourses the effect of backup machines and high-power grade loads in crowning hours to the consumption energy charges of users. Simulation outcomes deliver that the proposed invention is effectual in footings of dropping crowning load demand and consumption electricity charges with an upsurge in the security level of users

No. of Pages : 17 No. of Claims : 7

(54) Title of the invention : ELECTRIC POWER CUT SYSTEM BASED ON ADVANCED SENSOR

(51) International classification :G01R0022060000, G01R0021000000, H04W0004140000, G01R0022100000, G01R0011020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Force reception can be monitored using an electrical instrument known as a force meter. The general use of price and power consumption allows individuals to overcome the abuse of invoices. The wattmeter shows the number of connected devices and reports statistics to each customer and electrical panel to reduce manpower. People can check their energy usage anytime, anywhere. Interaction between the meter and the mobile phone is done using the GSM module. Energy conservation is the most pressing and complex issue. Automatic electricity meters are used in household electrical switchgear. GSM Short Message Service (SMS) presents the device as a smart power monitoring device. Smart electricity meters provide statistics to optimize and reduce energy consumption. This gadget interacts with the built-in controller and GSM modem for data transfer. Our answer is to connect the equipment to the transformer wires and pole wires with the power supply. This sensor circuit detects cord breaks, shorts and under voltages in the cord and disconnects the cord from the mains, saving lives and providing additional protection for household appliances in the house, especially during monsoons. And finally, it immediately sends malfunction/reputation reports to relevant authorities and nearby homes to keep them awake and safe during the rain.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061158 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : AUTOMATED COVID'19 MONITORING SYSTEM

(51) International classification :G06Q0030020000, G07C0011000000, G16H0050800000, G06Q0050260000, G06Q0050100000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The covid19 without any doubt has become the major health issue worldwide. The World Health Organization has resisted calling the epidemic a PANDEMIC. The pandemic has resulted in making even the day-to-day life hard especially shopping. So, our project focuses to solve the problem of overcrowding especially in shopping complex and super markets. In case, the customer is not having a NFC enabled mobiles, We would give the customers a tag in the form of an accessory which would be easy to carry around. As they enter, they must scan the tag which will monitor the number of people entering into the shopping complex. And this information will be fed into the database. As per government regulations to maintain the social distancing the number of people gathering can be limited and monitored with this system. In any case the number of people exceeds, the next person entering will be restricted from entering into the shopping complex. People could book their time slot for shopping priority with their tag unique number through our database. To ensure the safety of customers we are adding a human independent temperature detector and a smart sanitizing system. In an unfortunate situation if any of the customers are detected to be covid19 positive at later stage or any diseases that is contagious then with the help of the database we could figure out the people who met him/her in the shopping complex thereby the preventive measures can be carried out fast.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061311 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ECO SUSTAINABLE LIGHT WEIGHT LOW CALCIUM GEOPOLYMER BRICK

(51) International classification :C04B0028000000, C04B0012000000, C04B0018080000, C04B0022060000, C04B0111280000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

A method for manufacturing a geopolymer brick (116), the method comprising steps of: mixing, 70% by weight of fly ash (104), 30% by weight of waste wood ash (106), fine aggregate (108), and a binder (112) in a pan mixer (102); adding, alkaline activator (110) in the mixture to activate aluminosilicate material; conveying, the mixture into a brick mold (114) through a conveyor; compacting, the mixture into the brick mold (114) using Vibro compaction; casting, the geopolymer brick (116) using the brick mold (114); and curing, the casted geopolymer brick (116).

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : METHOD FOR PREPARING PHYCO-VERMICOMPOST FOR DOUBLE FERTILIZER TREATMENT OF CHILI PLANTS

<p>(51) International classification :C05F0017050000, B09B0003000000, C02F0003200000, C09B0061000000, B65F0001140000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kalasalingam Academy of Research & Education Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu Email ID: ipr@klu.ac.in Mb: 8807110703 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shantkriti Srinivasan Address of Applicant :No. 5, 2nd Main Road, 1st Cross, Selva Nagar, Ponnagar extension, Tiruchirappalli620001, Tamil Nadu -- -----</p> <p>2)Mariya Sneha Rani Joseph Address of Applicant :210/5 lilly cottage, Alagu pillai nagar, Achampathu, Madurai-625 019 -----</p> <p>3)Neelaveni Velusamy Address of Applicant :67 SDA school backside, Thiruvalluvar nagar,Usilampatti, Madurai-625532 -----</p> <p>4)Pavithra Petchimuthu Address of Applicant :4/251 East SR Varutha raja puram, Tuticorin-628301 -----</p>
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(57) Abstract :

A method (500) for preparing phyco-vermicompost (400) for double fertilizer treatment of chili plants in an apparatus (200), wherein the method (500) comprising steps of: collecting biodegradable waste (100) from a wasteland; drying the collected biodegradable waste (100) for a first predefined duration of time; crushing the dried biodegradable waste (100) using a crushing method; adding a first predefined amount of sand (204) as a bottom layer in the apparatus (200); mixing a cow dung slurry (202) and the crushed biodegradable waste (100) to form a first mixture (208); releasing earthworm species (206) over the first mixture (208) to form a vermicompost; and mixing the vermicompost with a second predefined amount of dried algae (300) to prepare the phyco-vermicompost (400).

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : METHOD OF INCREASING SHELF-LIFE OF PANEER

<p>(51) International classification :A23L0019000000, A23B0007005000, A23B0007060000, A01C0001000000, A23L0007196000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Kalasalingam Academy of Research & Education Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu Email ID: ipr@klu.ac.in Mb: 8807110703 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Sivakumar Durairaj Address of Applicant :Kalasalingam School of Agriculture and Horticulture, Kalasalingam Academy of Research and Education, Krishnankoil, Tamil Nadu-626126 -----</p> <p>2)Dr. Jagamohan Meher Address of Applicant :Kalasalingam School of Agriculture and Horticulture, Kalasalingam Academy of Research and Education, Krishnankoil, Tamil Nadu-626126 -----</p> <p>3)Perumalla Srikanth Address of Applicant :Kalasalingam School of Agriculture and Horticulture, Kalasalingam Academy of Research and Education, Krishnankoil, Tamil Nadu-626126 -----</p> <p>4)D. Ragasudha Address of Applicant :H. No: 3-14, Penugonda, Kesamudram, Mahabubabad, 506101, Telangana State -----</p> <p>5)B. Doraswamyreddy Address of Applicant :H-NO: 1-35/A, Chagantipadu, Thotla Valluru, Vijayawada, Krishna, A.P, 521163 -----</p> <p>6)B. Ushasree Address of Applicant :H. No: 36-9-89/1, Behind Indian Bank, Dharmaram, Warangal, 506330, Telangana -----</p>
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(57) Abstract :

A method (800) of increasing a shelf-life of paneer (100), wherein the method (800) comprising steps of: preparing the paneer (100) in a cubic form from a milk using an acidic solution; blanching the prepared paneer cubes (102a-102n) at a first predefined temperature for a first predefined duration of time; immersing the blanched paneer cubes (102a-102n) in a hot water for a second predefined duration of time to increase moisture content; drying the immersed paneer cubes (102a-102n) in a sterile area; adding a third predefined amount of spices (300) to a fourth predefined amount of the dried paneer cubes (102a-102n) to form increased shelf-life paneer cubes (500); and analyzing the increased shelf-life paneer cubes (500) for microbiological, rheological and sensory attributes.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061314 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DISEASE PREDICTION

(51) International classification :G06K0009620000, G16H0050200000, G16H0020100000, G16H0050300000, G16H0040630000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system (100) for predicting a disease, the system (100) comprising: a processor (104) located on an application server (102); a storage medium (106) configured to store programming instructions executable by the processor (104), wherein the storage medium (106) comprises: a data receiving module (114) configured to receive user inputs from a user device (110); a data analyzing module (116) configured to extract features of the user inputs and classify the extracted features using a set of pre-defined classifiers (118); and a disease predicting module (120) configured to match the classified features with a pre-trained data set and predict the disease based on the matched features.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : INTELLIGENT SYSTEM AND METHOD FOR STRESS DETECTION USING EEG SIGNALS FOR EMOTIONAL HEALTHCARE MONITORING THROUGH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

(51) International classification :A61B0005000000, A61B0005160000, G06N0020000000, H01L0027120000, A61B0005047600

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 The present invention is related to Intelligent system and method for stress detection using EEG signals for emotional healthcare monitoring through artificial intelligence and machine learning The objective of present invention is to solve the abnormalities presented in the prior art techniques related to stress detection of person using EEG signals.

No. of Pages : 28 No. of Claims : 5

(54) Title of the invention : AI BASED HYBRID AIRCRAFT FOR MEDICINE DELIVERIES IN REMOTE AND DISASTER AREAS USING IOT

<p>(51) International classification :B64C0039020000, B64C0003560000, G05D0001000000, G05D0001100000, G08G0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Santosh M Nejakar Address of Applicant :Nejakar Technologies, Siddadevanagar, Near Head Post Office -----</p> <p>2)DR. PRATHIK JAIN S 3)MR. CHANDRASHEKAR B S 4)DR. ABDUL LATEEF HAROON P S 5)TEJASWINI B M 6)MR SRIKANTHA K M 7)PRATHIBA SHANBOG P S 8)DR. G. SHIVAKUMAR 9)C M NAVEENKUMAR Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Santosh M Nejakar Address of Applicant :Nejakar Technologies, Siddadevanagar, Near Head Post Office -----</p> <p>2)DR. PRATHIK JAIN S Address of Applicant :Assistant Professor, Dept Aeronautical Engineering, Dayananda Sagar College of Engineering, Karnataka, India -----</p> <p>3)MR. CHANDRASHEKAR B S Address of Applicant :S/O B N Shankrappa, Baramasamudra Bisilehalli post, Kadur taluk Chikkamagalur Karnataka, India -----</p> <p>4)DR. ABDUL LATEEF HAROON P S Address of Applicant :Associate Professor, Dept of ECE, Bellari Institute of Technology and Management, Jnana Gangotri Campus, Hospet Rd, near Allipur, Allipura, Bellari Karnataka, India -----</p> <p>5)TEJASWINI B M Address of Applicant :Assistant Professor Dept of Electronics and Communication Engineering, Bangalore Institute of Technology Bangalore, Karnataka, India. -----</p> <p>6)MR SRIKANTHA K M Address of Applicant :Assistant Professor, Dept of ECE, Bellari Institute of Technology and Management, Jnana Gangotri Campus, Hospet Rd, near Allipur, Allipura, Bellari Karnataka, India -----</p> <p>7)PRATHIBA SHANBOG P S Address of Applicant :Assistant Professor ,Dept of ECE, Bellari Institute of Technology and Management, Jnana Gangotri Campus, Hospet Rd, near Allipur, Allipura, Bellari Karnataka, India -----</p> <p>8)DR. G. SHIVAKUMAR Address of Applicant :Professor and Head, Dept of Electronics and Communication Engineering, Malnad College of Engineering, No 21, Salagame Rd, Rangoli Halla, Hassan, Karnataka, India -----</p> <p>9)C M NAVEENKUMAR Address of Applicant :Assistant Professor, Dept of Electronics and Communication Engineering, Malnad College of Engineering, No 21, Salagame Rd, Rangoli Halla, Hassan, Karnataka, India -----</p> <p>10)DR. ASHWINI SHIVDAS SHINDE Address of Applicant :Associate Professor, Dept of CSE (Artificial Intelligence) Nutan College of Engineering and Research, Pune -----</p> <p>11)10. DHAMMJYOTI VITHALRAO DHAWASE Address of Applicant :Ph.D. Research Scholar, Dept of CSE, MGM Collehe of Engineering, Nanded -----</p>
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(57) Abstract :

Autonomous hybrid aircraft with folding wing configuration is methodical for the last mile delivery of medicine for rural and remote areas. The designed aircraft can carry a payload of 4kgs with a flight time of up to 45 mins and at a high stability speed of 85km/h. This drone is equipped with intelligent systems leading them to perform autonomously even in GPS (Global Positioning System) denied areas and away from obstacles helping for the disaster-prone areas. The folding wing configuration of this minimizes the Take-off and Landing area which is more reliable.

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : SMART SHOPPING CART WITH AUTOMATED BILLING SYSTEM

<p>(51) International classification :G06Q0030040000, H04M0015000000, G06Q0020140000, G06Q0020100000, G06Q0030060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)R.M.D. Engineering College Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Hemalatha R Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>2)Dr Ilamathi K Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>3)Dr Bennila Thangammal C Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>4)Nathiya Devi K Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>5)Santhoshini P Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p>
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(57) Abstract :

The objective of the present invention is to design and develop an automated system for easy shopping and billing. The smart trolley which integrates with RFID reader (108), Barcode reader (102), Arduino (107) and LCD display (109) and IR sensors (103, 104, 105) with it. The scanned items by the customer will automatically add into the billing list and generate bill for items purchased. The user can view the generated bill using LCD display (109) also, we can pay the bill using RFID technology (108). These modules are integrated, programmed and tested to satisfy the functionality. (Refer Fig. 1)

No. of Pages : 12 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061352 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : NEEDLELESS GLUCOSE MONITORING WITH IOT AND MACHINE LEARNING

(51) International classification	:A61B0005145000, A61B0005000000, A61B0005024000, G06N0020000000, G01N0021310000	(71)Name of Applicant : 1)R.M.D. Engineering College Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The objective of the present invention is to design and develop a needleless glucose monitoring with IoT and machine learning. The transmitted signal is detected by the photodetector and the output current of the photo detector is converted into voltage signal and then it is filtered and amplified. This amplified signal is fed into arduino microcontroller (102). the inbuilt ADC block is used for converting the received analog signal to digital form. This digital signal is processed by using second order regression analysis to predict the blood glucose value and the blood glucose value is displayed on the LCD display (104). (Refer Fig. 1)

No. of Pages : 15 No. of Claims : 1

(54) Title of the invention : A SYSTEM TO MONITOR MENTAL WELLBEING VIA AI POWERED CHATBOTS

<p>(51) International classification :H04L0012580000, G06N0020000000, G16H0050300000, G16H0050200000, A61B0005160000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)R.M.D. Engineering College Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.K.Saravanan Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>2)Dr.K.Balasubadra Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>3)Dr.V.Prasanna Srinivasan Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>4)Dr.P.M.Joe Prathap Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>5)Dr.R.Jothilakshmi Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>6)Dr.B.Kalpana Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>7)Dr.D.Praveena Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p> <p>8)M.Radhika Address of Applicant :R.M.D. Engineering College, RSM Nagar, Gummidipoondi Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India – 601206. -----</p>
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(57) Abstract :
The objective of the present invention is to design and develop an artificial intelligence powered chatbots to monitor mental wellbeing of an individual. The system is to provide a self-assessment of the mental health of the individual. A person facing any physical illness knows to visit a doctor right away but a person facing mental problems would not know whom and when to approach anyone. It would be useful for those people to use this application and get a solution right away. (Refer Fig. 1)

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : EDUCATIONAL APPROACHES USING 3D PRINTING AND INTERNET OF THINGS (IOT)

(51) International classification :H04L0029080000, G09B0005020000, G09B0019220000, G06F0016350000, G06N0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The Internet of Things (IoT) is a new age technology that is revolutionizing computing. It is intended that all objects around us will be connected to the network, providing anytime, anywhere access to information. This study introduces IoT with 3d printing in order to enhance the learning experience especially for inclusive education for primary and secondary schools where delivery of knowledge is not limited to physical, cognitive disabilities, human diversity with respect to ability, language, culture, gender, age and of other forms of human differences. The article also emphasizes the role of learning style as a discovery process that incorporates the characteristics of problem solving and learning. 3d printing learning can chose as it is widely may be used in research and in practical information systems applications. A consistent pattern of finding emerges by using a combination of 3d printing approaches and internet of things where specific individual differences, learning approach differences and IoT application differences are taken as a main research framework. Further several suggestions were made by using this combination to IoT architecture and smart environment of internet of things.

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061360 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR OBSTACLE DETECTION

(51) International classification :B60Q0009000000, G01S0015931000, G01S0013931000, G01S0015870000, G01S0015930000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An obstacle detection system (100) comprising: distance sensors (104a-104d) embedded in a cloth of a user, to sense a distance between obstacles (102) and the user; a control unit (106) connected to the distance sensors (104a-104d), wherein the control unit (106) is configured to: receive the sensed distance from the distance sensors (104a-104d); compare the received distance with a pre-defined distance stored in a memory; and trigger a channel with a required pre-set sound of a voice record and playback unit (108) to generate a voice alert of the pre-set sound through a sound unit (110) such that the triggered channel corresponds to at least one of, the distance sensors (104a-104d) having the sensed distance equal to the pre-defined distance.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061364 A

(19) INDIA

(22) Date of filing of Application :28/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : Augmented Reality Smart Glass for Patient Supervision

(51) International classification :G06Q0050220000, G06T0019000000, G02B0027010000, C03C0003087000, G16H0010200000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The objective of the present invention is to design and develop an augmented reality smart glass for patient supervision. In an aspect of the present invention, the glass is used to collect the real time patient's data from the hospitals and presents to the doctors through Augmented Reality glass and also alerts if any abnormality occurs in patients' health. (Refer Fig. 1)

No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : SELF-SUPERVISED FUZZY CLUSTERING NETWORK BASED CLASSIFICATION OF RETINAL IMAGE WITH ADVANCED IMAGE PROCESSING TECHNIQUES

<p>(51) International classification :G06K0009620000, G16H0050200000, A61B0003060000, G16B0040000000, A61K0031150000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)R.M.D. Engineering College, Kavaraipeitai – 601206 Address of Applicant :R.M.D. Engineering College, Kavaraipeitai – 601206 --- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.S.Muthusundari Address of Applicant :Associate Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206. ----- ----- 2)Dr.P.Ezhumalai Address of Applicant :Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206. ----- ----- 3)Dr.M.A.Berlin Address of Applicant :Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206. ----- ----- 4)Dr.C.S.Anita Address of Applicant :Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206 ----- ----- 5)Dr.D.Rajalakshmi Address of Applicant :Associate Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206. ----- ----- 6)Dr. A.K.Jaithunbi Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206. ----- ----- 7)J. GeethaPriya Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206. ----- ----- 8)K.Padmapiya Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206. ----- ----- 9)K.Mandal Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206. ----- ----- 10)G.Shankar Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, R.M.D. Engineering College, Kavaraipeitai – 601206 ----- -----</p>
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(57) Abstract :
Retinopathy is a vision-related consequence of diabetes. Damage to blood vessels in the photosensitive tissue at the back of the eye causes it (retina). Retinopathy may present with no symptoms or just moderate vision abnormalities at first. It may eventually result in blindness. Late identification of retinopathy, on the other hand, can result in irreversible damage to the eyes, leading to total and permanent blindness. Although this condition is treatable, the harm it causes is irreversible. We decided to employ machine learning to automate the diagnosis procedure in order to avoid this issue. We utilise the support vector machine (SVM) algorithm, Fuzzy clustering and CNN to classify the generated histogram since early detection of diabetes can help all patients and limit negative health implications such as blindness. To represent features, a histogram grouping approach is provided. Experiments reveal that the proposed system achieved good results in accuracy, precision and recall.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : AUTOMATIC SALT SEGMENTATION WITH UNET IN PYTHON USING DEEP LEARNING

(51) International classification :G06N0003040000, G06N0003080000, G06K0009620000, G01V0001340000, G01V0001300000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 A few spaces of Earth that are wealthy in oil and gaseous petrol likewise have gigantic stores of salt beneath the surface. Because of this association, knowing exact areas of enormous salt stores is amazingly vital to organizations engaged with oil and gas investigation. To find salt bodies, proficient seismic imaging is required. Human specialists which prompts exceptionally emotional furthermore exceptionally factor renderings examine these pictures. To propel computerization and increment the exactness of this interaction. The opposition was extremely famous, gathering 3221 people and groups. Information for the opposition incorporated a preparation set of 4000 seismic picture fixes and relating division veils. The test set contained 18,000 seismic picture patches utilized for assessment (all pictures are 101 x 101 pixels). Profundity data of the example area was likewise accommodated each seismic picture fix. The strategy introduced in this invention depends on the creator's investment also, it depends on preparing a profound convolutional neural network (CNN) for semantic division. The U-Net model in mix with ResNet enlivens the design of the proposed network also DenseNet structures. To all the more likely understand the properties of the proposed design, a progression of trials were directed applying normalized approaches utilizing a similar preparing structure. The outcomes showed that the proposed engineering is practically identical and, largely, better than these division models.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061641 A

(19) INDIA

(22) Date of filing of Application :29/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SMART MATERIAL FABRICATION METHOD FOR HANDLING DEFLECTION SUPPRESSION OF PLATES

<p>(51) International classification :H02N0002180000, H01Q0015000000, H04R0017000000, H01L0027088000, H01L0041090000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. ATUL Address of Applicant :Assistant Professor, Dept. of Mechanical Engg., Alliance College of Engg. and Design, Alliance University - Central Campus, Chikkahadage Cross, Chandapura - Anekal, Main Road, Bengaluru, Karnataka 562106 -</p> <p>-----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. ATUL Address of Applicant :Assistant Professor, Dept. of Mechanical Engg., Alliance College of Engg. and Design, Alliance University - Central Campus, Chikkahadage Cross, Chandapura - Anekal, Main Road, Bengaluru, Karnataka 562106 -----</p> <p>2)Dr. G. DIVYA DEEPAK Address of Applicant :Assistant Professor, Dept. of Mechanical Engg., Alliance College of Engg. and Design, Alliance University - Central Campus, Chikkahadage Cross, Chandapura - Anekal, Main Road, Bengaluru, Karnataka 562106 -----</p> <p>3)Dr. RANJAN KUMAR Address of Applicant :Assistant Professor, Dept. of Mechanical Engg., Swami Vivekananda University, Barrackpore, Kolkata, West Bengal - 700121 -----</p> <p>4)Dr. Piyush Pratap Singh Address of Applicant :Faculty, Dept. of Mechanical Engg., National Institute of Technology, Calicut, Kozhikode - 673601 ---</p> <p>-----</p>
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(57) Abstract :

ABSTRACT A SMART MATERIAL FABRICATION METHOD FOR HANDLING DEFLECTION SUPPRESSION OF PLATES
The present invention provides a smart material fabrication method for handling deflection suppression of plates, comprising a step of considering one or more quadrilateral shaped plates (1), arranging/fabricating one or more smart material patch(s) on the plates according to a line type arrangement and in cross-type arrangement, bonding a layer of piezoelectric material on one of the side of the plates (1), wherein, the arranging/fabricating one or more smart material patch(s) (2) on the plates (1) helps to reduce deflection for both the arrangement and, an effective frequency band for maximum suppression of deflection is shifted from lower frequency band to higher frequency band and the method helps in optimal placements of the patch for maximizing the vibration control and based on the control strategy for a plurality of sensors and actuators placement. Ref Figure 1

No. of Pages : 21 No. of Claims : 7

<p>(51) International classification :G06Q0050200000, G09B0007000000, G06Q0040060000, G09B0005000000, G09B0019000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Prof. Dr. ASHA SUNDARAM Address of Applicant :Professor / Principal, Saveetha School of Law, Saveetha Institute of Medical and Technical Sciences, 162, Ponnammalle High Rd, Velappanchavadi, Chennai, Tamil Nadu- 600077. -----</p> <p>2)Dr.S.THANGAMAYAN</p> <p>3)Ms. ASWATHY PRAKASH G</p> <p>4)Dr. MURUGAN RAMU</p> <p>5)N. UMACHITRA</p> <p>6)Dr. ANJU MOHAN</p> <p>7)Ms. JAYAPREETHI MANOHARAN</p> <p>8)Dr. S. SELVARAJU</p> <p>9)BETSY VINOLIA RAJASINGH</p> <p>10)K.NIRANJANA</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Prof. Dr. ASHA SUNDARAM Address of Applicant :Professor / Principal, Saveetha School of Law, Saveetha Institute of Medical and Technical Sciences, 162, Ponnammalle High Rd, Velappanchavadi, Chennai, Tamil Nadu- 600077. -----</p> <p>2)Dr.S.THANGAMAYAN Address of Applicant :Assistant Professor and Head, Saveetha School of Law, Saveetha Institute of Medical and Technical Sciences, 162, Ponnammalle High Rd, Velappanchavadi, Chennai, Tamil Nadu- 600077 -----</p> <p>3)Ms. ASWATHY PRAKASH G Address of Applicant :Assistant professor, Saveetha school of law, Saveetha institute of medical and technical sciences, 162, Ponnammalle High Rd, velappanchavadi, chennai, Tamil Nadu -600077 -----</p> <p>4)Dr. MURUGAN RAMU Address of Applicant :Associate Professor, Saveetha School of Law, Saveetha Institute of Medical and Technical Sciences, 162, Ponnammalle High Rd, Velappanchavadi, Chennai, Tamil Nadu- 600077. -----</p> <p>5)N. UMACHITRA Address of Applicant :Associate professor, Saveetha school of law, Saveetha institute of Medical and Technical Sciences, 162, poonamalli High Rd, Velappanchavadi, Chennai, Tamil Nadu- 600077. -----</p> <p>6)Dr. ANJU MOHAN Address of Applicant :Professor Saveetha School of Law, Saveetha Institute of Medical and Technical Sciences, 162, Ponnammalle High Rd, Velappanchavadi, Chennai, Tamil Nadu- 600077. -----</p> <p>7)Ms. JAYAPREETHI MANOHARAN Address of Applicant :Assistant Professor Saveetha School of Law, SIMATS, 162, Poonamallee High road, Chennai 600077 -----</p> <p>8)Dr. S. SELVARAJU Address of Applicant :Associate Professor, Saveetha School of Law, Saveetha Institute of Medical and Technical Sciences, 162, Ponnammalle High Rd, Velappanchavadi, Chennai, Tamil Nadu- 600077. -----</p> <p>9)BETSY VINOLIA RAJASINGH Address of Applicant :Associate Professor Saveetha School of Law, Saveetha Institute of Management and Technical Studies, 162, Ponnammalle High Rd, Velappanchavadi, Chennai- 600077 -----</p> <p>10)K.NIRANJANA Address of Applicant :Assistant Professor, Saveetha School of Law, Saveetha Institute of Medical and Technical Sciences, 162, Ponnammalle High Rd, Velappanchavadi, Chennai, Tamil Nadu- 600077. -----</p>
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(57) Abstract :

[023] Online teaching has become more common as technological advances over the past decades provide new educational opportunities. New technology also provides new ways for teachers to conduct teaching. Today, various teaching methods are used. What teaching methods should be used to retain students' attention during lectures What should be used to enhance student enjoyment in lectures This thesis examines these questions through eye tracking examination. The test lessons were viewed in short lecture clips, each recorded using different teachings and eye observation. In addition, the test subjects responded to a questionnaire related to lecture pleasure. Based on the results, it seems that focusing and enjoying during online lectures is often dictated by the intellectual burden. Teaching methods that use certain techniques to reduce the level of cognitive load are excellent at concentrating students. Also, students appreciate the teaching methods that make the most use of chalk board. In the field of educommerce, ie e-learning for e-commerce, this is doubly true. An informed customer who can effectively assess the offered goods and services becomes the main and loyal partner for the company. Companies operating not only in the e-commerce environment should take this fact into account and offer their clients the required information in a clear and acceptable form in order to convince the customer with logical and truthful arguments about the benefits of investing in its products. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8] [FIG. 9]

No. of Pages : 28 No. of Claims : 4

(54) Title of the invention : A SYSTEM FOR DETECTING THREATS IN IOT NETWORKS AND METHOD THEREOF

(51) International classification :H04L0029080000, H04L0029060000, H04W0004700000, G06F0021550000, G06F0021620000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a system for detecting threats in IoT networks and method thereof. The method and system include, but not limited to, a processing unit configured to provide at a plurality of IoT network layers that monitors and tracks IoT security data for user authentication analysis; and a monitoring module provided at an IoT network overlayer that monitors, tracks, and measures the IoT security data across a plurality of IoT network environments; and a CAS algorithm that is used to learn, predict, and take action based on the IoT security data across a plurality of IoT network environments and assign a log entry type to each of the plurality of log entries connected in the IoT network environment. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061676 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : THE AUTOMATED TITRATOR

(51) International classification :G01N0031180000, G01N0021770000, B01J0019000000, B01F0015040000, G01N0031160000
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
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(57) Abstract :

The current invention is an automated titrator which is useful in the field of engineering chemistry as it helps in determining unknown concentration of an identified analyte. With technological innovations, the automation of titrator is made so as to make it simpler and precise in producing desired outcome. The invention also controls reaction conditions besides reducing the risk of human error. The embedded software tracks every variable of the experiment to ensure correct processing. The microcontroller involved in the system controls electric circuits while sensors detect change in the reaction in the real time thus resulting in an efficient output. While dealing with highly concentrated solutions, the automated titrator can be used to have high impact. In order to reduce delay in response time and minimize error, the invention has a knob fixed to a motor which is controlled by the microcontroller in response to a colour sensor. Thus, it accurately operates knob so as to avoid excess solution coming out of the burette and plays its role in producing expected output. The automated titrator not only reduces error but also improves the accuracy of outcomes. The current invention is beneficial to many stakeholders such as companies dealing with chemical engineering, pharmaceutical entities, healthcare professionals and healthcare units besides researchers and academia.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : A FRAMEWORK FOR CYBER-WARFARE

<p>(51) International classification :H04L0029060000, G06Q0010060000, G06Q0050260000, A63F0013335000, G06Q0090000000</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr.Devi Varaprasad Romala Address of Applicant :Mr.Devi Varaprasad Romala, Research Scholar , Dr BR Ambedkar College of Law, Andhra University South Campus, Andhra University, Visakhapatnam, Andhra Pradesh 530003, rdvprasad.lawrs@andhrauniversity.edu.in, 8180954354 ----- 2)Mr. Y.V. Kiran Kumar 3)Mrs. Deepthi Rodda Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr.Devi Varaprasad Romala Address of Applicant :Mr.Devi Varaprasad Romala, Research Scholar , Dr BR Ambedkar College of Law, Andhra University South Campus, Andhra University, Visakhapatnam, Andhra Pradesh 530003, rdvprasad.lawrs@andhrauniversity.edu.in, 8180954354 ----- 2)Mr. Y.V. Kiran Kumar Address of Applicant :Mr. Y.V. Kiran Kumar, Assistant Professor, GITAM School of Law, GITAM Deemed to be University, Visakhapatnam, Andhra Pradesh - 530045, vyarijar@gitam.edu, 8008722820 ----- 3)Mrs. Deepthi Rodda Address of Applicant :Mrs. Deepthi Rodda, Research Associate, Damodaram Sanjivayya National Law University, Nyayaprastha, Sabbavaram, Visakhapatnam, Andhra Pradesh - 531035, dipthirodda@gmail.com, 9059644528 -----</p>
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(57) Abstract :

The exponential rise as well as the widespread adoption of social media, cybersecurity becomes an integral aspect of a city's, society generally, including people's lives. Cybersecurity has offered a rising variety of possible threats as well as concerns, in addition to its advantages. Several nations with modern information and communications technology (ICT) had also developed cybersecurity strategies and legislation to gain a competitive advantage in cybersecurity. At all in this global generation threatens the government, yet in the internet, limits have been porous, as well as data, concepts, as well as goals, could flow without respect for the area of authority. That shows that old governmental institutions are still not necessarily transferable to the cyber-arena. The community, on the other hand, was adjusting. Governments were created as well as rolling out new debugging tools, and almost all of those desire to be the dominant actor in the cyber-arena. Information security measures have been an essential part of the military in several nations. Quasi players, in addition to country, have been using the weakness inherent interconnectedness of cybercrime to cause massive injury to households and regions. Concerning cyber readiness, cybersecurity nuclear disarmament, plus powerful nations, wherever manufacturing techniques humanity selects, the matching form of conflict would emerge Cybersecurity, like ground, ocean, sky, as well as deep space, has become a new battleground as information technology (IT) advances. The Web seems to have become a significant element of a city's, society generally, including employees' work lives. Furthermore, these have garnered traction for future growth. Nevertheless, including the benefits that the Web has provided, has also carried along with a growing range of potential threats as well as concerns.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141061874 A

(19) INDIA

(22) Date of filing of Application :30/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : OPTICAL SENSING DEVICE FOR CARDIAC AUSCULTATION

(51) International classification :A61B0007040000, A61B0005020500, H02J0003140000, A61B0005113000, G06F0001329600

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to a device (100) for cardiac auscultation, the device comprising an opto-electronic circuitry (102) adapted for photo reflective detection of a plurality of heart sound signals of a subject, the opto-electronic circuitry comprising a voltage to frequency converter (202) that converts electrical signal into pulses of optical signal, a preamplifier adapted for reception, amplification and conversion of the optical signal reflected from the chest part of the subject into suitable electrical signal; a comparator (206) adapted to deselect frequencies of the electrical signal beyond the desired audible frequencies; and a frequency to voltage converter (208) converts the desired frequencies into analog voltage signal for hearing the plurality of heart sound signals.

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : An IOT equipment based secured cloud network communication method

(51) International classification :H04L0029080000, H04W0004700000, H04L0012240000, H04L0029060000, G06N0020000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The present invention discloses an Internet of Things (IOT) equipment based secured cloud network communication system and method thereof. The method and system include, but not limited to, an IoT communication interface configured to receive IoT data signals from and transmit signals to a IoT access point and a user terminal via an IoT cloud network; and a processing unit configured to receive, via the IoT communication interface, an access request sent by the IoT access point, the access request carrying user / node information of the IoT user terminal attempting to access the IoT access point; determine whether the IoT access point is a trusted IoT access point after the access request is received. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 9

(54) Title of the invention : ARTIFICIAL INTELLIGENCE CONTROLLED VACUUM CLEANING SYSTEM WITH INFORMATION STORAGE

(51) International classification :G06T0007000000, A47L0009280000, H01L0021670000, G06N0020000000, G06F0040300000

(86) International Application No Filing Date :NA :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 Artificial intelligence controlled vacuum cleaning system with information storage is specially designed to clean up the surface with the help of electro mechanical control system, the role of AI is to enable the system to detect any obstacle and to ensure that the system works without any human intervention. In addition to that the system is designed to record the information about the surface to clean and to store the same in the memory, where in the system can record the details of 1000 different surface with different measurements.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062138 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ASSISTANCE SYSTEM AND METHOD FOR ELDERLY PERSON

(51) International classification :A61B0005000000, A61B0005024000, A61B0005110000, G08B0021040000, G08B0025010000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An assistance system (100) for elderly person, the system (100) comprising: a wearable device (102) adapted to be worn by the elderly person, wherein the wearable device (102) comprises: a distributed sensor unit (108) that comprises a set of sensors for detecting health parameters; a location tracking unit (110) arranged to track a location of the user; a reminder unit (112) adapted to generate reminder in a pre-defined time interval to remind the elderly person for a scheduled event; and a processing unit (106) located on a cloud server (104), wherein the processing unit (106) is configured to: receive the detected health parameters from the distributed sensor unit (108); analyze the detected health parameters to determine any abnormality in a health condition of the elderly person; and generate an alert message on detecting the abnormality and transmit the alert message to a user device (122).

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062140 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ECO-SUSTAINABLE THREE DIMENSIONAL PRINTED GEOPOLYMER BRICK

(51) International classification :C04B002800000, C04B0111000000, C04B0028080000, C04B0014220000, C04B0007153000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A method for manufacturing a geopolymer brick (116), the method comprising steps of: mixing, 50% by weight of waste glass powder (104), 50% by weight of ground granulated blast furnace slag (106), a binder (108), and a fine aggregate (110) in a pan mixer (102) to create a geopolymer mortar; adding, alkaline activator (112) in the geopolymer mortar; conveying, the geopolymer mortar into a 3D printer (114); extruding, the geopolymer brick (116) using the 3D printer (114).

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : SMART SOLAR POWERED ELECTRIC FENCE

(51) International classification :A01K0003000000, A01K0011000000, A01M0029300000, A01K0015020000, A01M0029100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT SMART SOLAR POWERED ELECTRIC FENCE The present disclosure relates to a system for smart solar powered electric fence with sensors for protection of crops from wild animals. The system comprises of an electric fence with one or more plain steel/iron wire, a fence charger system, a 12V battery, graphene doped solar panel array, a control unit and multiple sensor subunits. The sensor units detect approaching people or animals and sends the data to the control unit. The control unit analyses the sensor data and determines whether the approaching object is a human or animal. If it is determined to be an animal, the control unit activates the fence charger which converts the 12V DC power from the battery to 8.5 – 9.9 KV pulsed AC to power the electric fence. The solar panel array is responsible for charging the battery during daytime for later use. (FIG. 1 will be the reference figure)

No. of Pages : 19 No. of Claims : 3

(54) Title of the invention : STABILITY INDICATING METHOD DEVELOPMENT AND VALIDATION OF ANTICANCER DRUG USING RP-HPLC METHOD

<p>(51) International classification :G01N0030020000, A61K0031655000, G01N0030060000, C12N0007000000, G01N0030880000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. Ajay Kumar TV Address of Applicant :FR&D Scientist, Azidus Laboratories Ltd, Rathinamangalam, Vandalur Chennai, Tamil Nadu ----- 2)Dr Uma Nath U 3)Dr. V. Parthasarathy 4)Dr. K. Anitha 5)Dr R.A.M. Jainaf Nachiya 6)Dr. Subash Chandran M P 7)Dr. Akash Marathakam 8)Dr. Sreejith M 9)Dr. M.S. Premalatha 10)Dr. P. Premkumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Ajay Kumar TV Address of Applicant :FR&D Scientist, Azidus Laboratories Ltd, Rathinamangalam, Vandalur Chennai, Tamil Nadu ----- 2)Dr Uma Nath U Address of Applicant :Professor, Department of Pharmaceutical Chemistry, MGM College of Pharmacy , Pilathara, Vilayamcode Po, Kannur, Kerala ----- 3)Dr. V. Parthasarathy Address of Applicant :Professor, Department of Pharmacy, Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu ----- 4)Dr. K. Anitha Address of Applicant :Assistant Professor, Department of Chemistry, Arulmigu Palaniandavar Arts College For Women, Palani, Tamil Nadu ----- 5)Dr R.A.M. Jainaf Nachiya Address of Applicant :Assistant Professor, BS Abdur Rahman Crescent Institute of Science and Technology, crescent school of Pharmacy, Vandalur, Chennai 600048, Tamil Nadu ----- 6)Dr. Subash Chandran M P Address of Applicant :Professor and Head, Department of Pharmaceutics, SreeKrishna college of pharmacy and research centre, Parassala, Thiruvananthapuram, Kerala 695502 ----- 7)Dr. Akash Marathakam Address of Applicant :Professor and Head, Dept. of Pharmaceutical Chemistry, National College of Pharmacy, Kozhikode,Kerala-673602 ----- 8)Dr. Sreejith M Address of Applicant :Professor and Head Dept of Pharmaceutical Chemistry Nazareth, College of Pharmacy Thiruvalla, Kerala-689546 ----- 9)Dr. M.S. Premalatha Address of Applicant :Assistant professor, Department of Zoology, Government Arts College, Coimbatore-641018. Tamil Nadu ----- 10)Dr. P. Premkumar Address of Applicant :Professor, Department of Pharmaceutics, Tagore College of Pharmacy, no-22, vandalur – kelambakkam main road, Rathinamangalam, Melakottaiyur post, Tamilnadu -----</p>
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(57) Abstract :

ABSTRACT STABILITY INDICATING METHOD DEVELOPMENT AND VALIDATION OF ANTICANCER DRUG USING RP-HPLC METHOD Aspects of present disclosure relate to a stability indicating method development and validation of anticancer drug using Reverse Phase-High Performance Liquid Chromatography (RP-HPLC) method. Initial chromatographic conditions were set and different trials were run to Dacarbazine get eluted with good peak symmetric properties. Mobile phase 0.1 % OPA buffer PH 5.0 : Acetonitrile (90:10 % v/v), flow rate 1ml, and detection wave length at 323 nm conditions were finalized as optimized method. A stability study on Dacarbazine was carried out and an efficient HPLC method for quantification and identification of its degradation products in bulk drug was developed and validated. Figure 7 shall be reference figure.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062163 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING A PRODUCT LEVEL DEMAND ACROSS A PLURALITY OF DIGITAL PLATFORMS

<p>(51) International classification :A47K0010320000, A47K0010380000, H01S0005042000, A47K0010160000, G07F0009020000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)FLIPKART INTERNET PRIVATE LIMITED Address of Applicant :Buildings Alyssa, Begonia & Clover, Embassy Tech Village, Outer Ring Road, Deverabeesanahalli Village, Bengaluru - 560103, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SHYAM BERIWAL Address of Applicant :Adarsh Palm Retreat Villas, Bellandur, Bangalore, India PIN Code 560103 -----</p> <p>2)ANKUR KUMAR Address of Applicant :Alpine Eco Apartment, Doddenakundi,Behind Rainbow Children Hospital, Bangalore, 560037 -----</p> <p>3)UTSAV AWASTHI Address of Applicant :A-83/3 Awas Vikas Colony, Hardoi, UP 241001 -----</p> <p>4)RAVI VIJAYA RAGHAVAN Address of Applicant :No. 71, Lake Shore Homes, Hosa Road, Kasavanahalli, Bangalore 560035 -----</p> <p>5)SUHAS MISHRA Address of Applicant :B 236, Prestige silversun, Kadubeesanhalli, Bangalore - 560035; -----</p> <p>6)ATUL MISHRA Address of Applicant :345, Mangalam Tower, SBP Housing Park, Dera Bassi, Punjab 140507 -----</p> <p>7)ANSHUL GUPTA Address of Applicant :1/136 Pipal Mandi, Agra-282003, UP. -----</p>
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(57) Abstract :
As attached in PDF

No. of Pages : 30 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062228 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A KIND OF HIGH SHARING RETE NETWORK CONSTRUCTION METHOD

<p>(51) International classification :G06N0005040000, H04L0029060000, G06F0016245800, G06N0003000000, G16Z0099000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. A. Raji Reddy Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 2)Mr. G. Srikanth Address of Applicant :Professor, Dept. of ECE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 3)N. Bhaskar Address of Applicant :Assoc. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 4)L. Mangesh Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 5)M. Balu Address of Applicant :Asst. Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a kind of high sharing Rete network construction method. The kind of high sharing Rete network construction method includes setting initial condition is configured to carried out initial condition based on sharing degree model sequence, it is thus achieved that sequence of conditions by a regular collection rule, and utilizing a described sequence of conditions is configured to construct an Alpha network. The method further includes generating a ranked up described Alpha network to new Alpha network by the mean sigma methods of the nodes sharing degree of the comprised node of classification, and utilizing a described new Alpha network is configured to builds a Beta network. Fig. 1

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : AUTHENTICATION SYSTEM AND METHOD FOR AUTONOMY-BASED IDENTITY AUTHENTICATION

<p>(51) International classification :H04L0009080000, H04L0029060000, H04L0009320000, H04L0009300000, G06F0021330000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. A. Raji Reddy Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>2)Dr. K. Srujan Raju Address of Applicant :Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>3)Dr. Sudha Aravind Address of Applicant :Professor, Dept. of ECE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>4)J. Narasimha Rao Address of Applicant :Asst. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>5)Murali Kanthi Address of Applicant :Asst. Professor, Dept. of CSE (DS), CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure directed towards a user autonomy-based identity authentication implementation method, comprising: the user defines a user identifier uID, the client generates a self-use key pair by using a key generation tool, including a private key sk and a public key PK, The server defines a seed key identifier seedID and generates a seed key, including a seed private key seedsk and a seed public key seedPK, The user logs in to the server and submits the uID, after the server checks and accepts the uID, the user submits the PK, the server submits the uID submitted to the uID by the seedsk, the private key is used to digitally sign the PK submitted by the client to generate a PKsig (including the signature of the PK and the isk to the PK), and package the uID, seedID, and PKsig.

No. of Pages : 12 No. of Claims : 1

(54) Title of the invention : HIGH-SPEED FREQUENCY HOPPING AUTOMATIC GAIN CONTROL METHOD

<p>(51) International classification :H04B0001713000, H04W0052140000, G01S0011060000, H04J0003040000, H04L0007000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. A. Raji Reddy Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 2)Dr. V. Kesava Reddy Address of Applicant :Professor, Dept. of Mathematics, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 3)Dr. D. Maneiah Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 4)T. Sai Kumar Address of Applicant :Assoc. Professor, Dept. of ECE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 5)K. Karunakar Address of Applicant :Asst. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure directed towards an automatic gain control method of high-speed frequency hopping, the method comprises: a low-speed synchronous signal and a high-speed data communication signal are received by different channels, and the low-speed synchronous signal measures signal power in the process of synchronous receiving and sets an AGC initial value; a baseband demodulates the low-speed synchronous signal, if not, the synchronization fails, then the signal is judged as an interference signal, the AGC initial value is adjusted according to the power of the signal if the synchronization is successful, the signal is judged as a target signal, and the AGC initial value is adjusted according to the power of the signal; and after the synchronization of the low-speed synchronous signal is successful, the channel is switched to the receiving channel of the high-speed data communication signal. FIG.1

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : CARICA PAPAYA LEAF PERIODONTAL CHIP

<p>(51) International classification :A61K0009000000, A61K0008978900, A61K0036732000, C08J0003090000, A61K0047360000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. MGR Educational and Research Institute Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. K. Vishnu Prateek Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>2)Dr.R. Sruthi Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>3)Dr. Shankar Ram Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p>
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(57) Abstract :

The present invention relates to a pharmaceutical carrier formulation with the following features: A thin film substrate, Ethanolic extract of Curica Papaya as a drug, Chitosan for its medicinal properties and for good solubility, HPMC K4M for slow drug release and Propylene glycol for its plasticizing and viscosity related properties. The bio-degradable papaya extract periodontal chip is prepared as: macerated ethanolic papaya leaf extract is evaporated to obtain a dense semi solid extract. 0.5% w/w of the ethanolic extract is added to 4% w/v of chitosan soaked in aqueous 1% v/v acetic acid overnight and mixed to form a uniform solution to which accurately weighed quantity of HPMC K4M and propylene glycol are added as co-polymers and mixed and transferred thinly on aluminium lined petri-dishes, dried and cut into small rectangular chips. Fig. 1

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : LIMB EXTREMITIES SUPPORTER

(51) International classification :A61G0007050000, A61B0005047600, A61F0013100000, A61G0001040000, F16M0011100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention relates to developing a limb extremities supporter. It is a specially designed equipment used at the time of dressing by a health care professional. The limb supporter provides comfort to patient, tries to reduce the work-related back pain and the man hours of nurses. The device includes a hand shaped cushion supporter (202) to rest the leg, adjustable screws (200) to adjust and fix at comfortable height, double sided Velcro straps (203) to fasten the leg and get support. The base of the stand (201) forms the elongated stem like structure of the device which has a stand connector (204) that can be placed on the bed and fitted to the side rails of the cot, which prevents it from losing balance and slip down. Stainless steel can be used for stand. Fig. 1

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062277 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : A NOVEL COMPACT AND EGRONOMIC HAND HELD DENTAL VIBRATOR

(51) International classification :A61C0009000000, A61H0023020000, A61C0013340000, B28B0011080000, A61F0002800000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The aim of the present invention is to develop a hand held model vibrator. This device can be attached to the prosthetic impression tray. It passes vibrations to the Impression tray when the model is being poured, therefore these vibrations dislodge the entrapped air from the unset plaster and enable an impression without porosities for better accuracy of the dental working model to enable more perfect work for the patient. It has a momentary switch, a power source socket and 2 mini vibrating motors. The mini vibrating motors (fig 2) are the primary functioning unit of the device. It produces around 7100 RPM and functions at a voltage of 3 to 6V. Fig. 2

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062278 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM FOR PRINTING 3DMODELS USING BI-MATERIAL ACETABULAR LINER

(51) International classification :B33Y001000000, B33Y005002000, B29C0064400000, B22F0003105000, B29C0064386000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention is about method of representing a three dimensional (3D) object using bi-material acetabular liner. The component to be printed is designed using modeling software CATIA and converted into .stl format. This .stl file is sent to the 3D printer which converts to G codes. The material is fed to the printer and necessary process parameters are set in the machine. Then the component is printed layer by layer. Finally the part printed is removed and post processing is done if necessary. The fabricated product is tested for dimensional accuracy and surface roughness.

No. of Pages : 9 No. of Claims : 3

(54) Title of the invention : AUTO BODY VITALS ANALYZER AND INJECTOR

<p>(51) International classification :A61B0005000000, A61B0005021000, A61B0005020500, A61B0005145500, G16H0050200000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. MGR Educational and Research Institute Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Manoj Kumar M Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>2)Dr. Hema V H Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>3)Parameswari M Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>4)Anitha G Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p>
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(57) Abstract :

The present invention relates to developing an auto body vitals analyzer and injector. It analyses the body vitals like blood glucose, blood pressure and pulse at regular intervals and injects the required amount of pre calculated medication based on weight and parameters with specific drug such as insulin, dopamine, dobutamine, noradrenaline, adrenaline, amiodarone into the patient's body in emergency and critical care units. This system includes an analyzer, a monitor that receives physical signals from the analyzer, and an injector junction. Settings in the monitor include age, weight, drug name, frequency of checking, alarms. These help in multiple drug delivery during emergencies at a time for critically ill patients with diabetes mellitus, hypertension and arrhythmias in incidence of medication errors related to picking, preparation and administration is minimized, saves the time in emergency and critical care unit and also hospital stay is minimized.

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : FURCATION BONE FILE WITH CONDENSOR

<p>(51) International classification :G02B0006440000, A61F0002280000, A61B0017160000, A61F0002460000, A61B0017560000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. MGR Educational and Research Institute Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Snophia Rani Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>2)Dr. Uma Sudhakar Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p> <p>3)Dr. S. Catherine Jean Address of Applicant :Dr. MGR Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095, India ----- -----</p>
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(57) Abstract :

The present invention relates to an instrument for periodontal procedures and surgeries with the following features: a cylindrical handle (102) with grip grooves along its body and with shanks (101, 103) on both ends, a rotary or automated furcation file (100) that can be used for furcation management, tunnelling procedures and other periodontal treatment procedures and surgeries, and a condenser (104) for particulate bone graft. The furcation bone file with the diameter of the files less than 1mm is helpful for tunnelling procedure because of its reduced diameter, it does not damage the adjoining tooth structures. It also overcomes the removing excess bone issue of the normal furcation file. The condenser has dimension smaller than the furcation entrance which will be useful to condense the bone graft when planning for regenerative procedures. Fig. 1

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062281 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : ARTOCARPUS HETEROPHYLLUS GEL FOR PERIODONTITIS

(51) International classification :A61K0036600000, A61K0008970000, A61C0019040000, A23L0033105000, A61K0008410000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to the field of periodontal treatments. More specifically to developing a product that is used as an adjunct for the treatment of periodontitis using the extract of Artocarpus Heterophyllus. The product is in a form of fruit extract gel that changes its structure to liquid crystal when contacted with gingival fluid in the periodontal pocket.

No. of Pages : 8 No. of Claims : 3

(54) Title of the invention : Real Time and Effective High Speed Data Acquisition System in IOT Environment Using WSN

(51) International classification :H04W0084180000, H04L0029080000, H04W0004700000, G05B0019042000, H04W0004380000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Real Time and Effective High Speed Data Acquisition System in IOT Environment Using WSN Abstract: Obtaining sensor data from industrial wireless sensor networks (WSNs) in Internet of Things (IoT) environments requires the use of a sensor interface device. Because of the device's connect number, sampling rate, signal types, and so on, sensors can't do as much as they could at this point. Another issue with complicated and time-consuming data collection code in an Internet of Things (IoT) environment is that each sensor is linked to a device. This makes keeping up with the code difficult. Part of this project involves developing a new method for creating a changeable smart sensor interface for industrial WSNs. The core controller is built using an advanced complex-programmable logic device (CPLD). As a result, many different sensors can be used at the same time to collect a large amount of data quickly. To ensure that this design works, it will make use of the Intelligent Sensor Interface Specification. A new method of obtaining data from sensors, in addition to the traditional methods, has been developed. The device was created using cutting-edge CPLD programmable technology and an intelligent sensor specification. Using IoT to monitor the industrial environment has yielded promising results. There is evidence that the proposed system functions as expected.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : IoT Cloud and Big Data based Wearable (2.0) Health-care system to enhance healthcare sector

<p>(51) International classification :A61B0005000000, H04L0029080000, A41D0001000000, G16H0050300000, H04B0001382700</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.T.Anuradha Address of Applicant :Professor VR Siddhartha Engineering College , Kanuru, Vijayawada 520007,Andhra Pradesh India -----</p> <p>2)Bilal Ahmed Mir 3)Dr.L.S.Sindhuja 4)Dr. V. S. Anita Sofia 5)Dr Deepak Prashar 6)Dr. B. Anuja Beatrice 7)Dr.J.Vijayalakshmi 8)Dr A Chandrasekar 9)Dr S Jothi 10)Dr. Brijesh Sathian Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.T.Anuradha Address of Applicant :Professor VR Siddhartha Engineering College , Kanuru, Vijayawada 520007,Andhra Pradesh India -----</p> <p>2)Bilal Ahmed Mir Address of Applicant :Research Scholar, Graduate School of Science and Engineering for Education, University of Toyama , 3190 Gofuku, Toyama, 930-8555, Japan. -----</p> <p>3)Dr.L.S.Sindhuja Address of Applicant :Assistant Professor PSG College of Arts & Science, Coimbatore, Tamilnadu ,India -----</p> <p>4)Dr. V. S. Anita Sofia Address of Applicant :Associate Professor PSG College of Arts & Science Coimbatore – 641014, Tamilnadu, India -----</p> <p>5)Dr Deepak Prashar Address of Applicant :Principal Green Hills Pharmacy College Kumarhatti Solan , Himachal Pradesh, India -----</p> <p>6)Dr. B. Anuja Beatrice Address of Applicant :Department of Computer Science, Sri Krishna Arts and Science College, Coimbatore, Tamilnadu, India -----</p> <p>7)Dr.J.Vijayalakshmi Address of Applicant :Guest Lecturer Government Arts and Science College, Vedaranyam, Nagapattinam (Dist), 614810, Tamil Nadu, India -----</p> <p>8)Dr A Chandrasekar Address of Applicant :Professor & Head Department of CSE- St. Joseph's college of engineering, OMR, Chennai, 600119,Tamilnadu India -----</p> <p>9)Dr S Jothi Address of Applicant :Associate professor Department of CSE- St. Joseph's college of engineering, OMR, Chennai,600119,Tamilnadu India -----</p> <p>-</p> <p>10)Dr. Brijesh Sathian Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar -----</p>
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(57) Abstract :

IoT Cloud and Big Data based Wearable (2.0) Health-care system to enhance healthcare sector Abstract: The rise of new technologies has resulted in more powerful and comprehensive applications. People are becoming more interested in terminal-cloud integrated systems because they provide better service and experience. A more reliable and intelligent service is on the way, thanks to new terminal technologies (such as smart clothes) and cloud technologies. According to those who write about Wearable 2.0 health care systems in this article, this system, dubbed Wearable 2.0, will improve both service and experience for the next generation of health care systems. Washable clothing is smart because it can collect physiological data and send it to a cloud-based machine intelligence system for analysis. The system then provides users with information about their physical and emotional well-being. This type of washable smart clothing is an important component of this system.

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141062304 A

(19) INDIA

(22) Date of filing of Application :31/12/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PERFORMANCE AND RELIABILITY OF PV BASED SMART GRIDS

(51) International classification :G06Q0050060000, B60L0053630000, G06Q0010100000, G10L0015190000, B60L0053660000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT Our Invention Performance and Reliability of PV Based Smart Grids This invention presents an outline of the exhibition examination strategies accessible for the Smart Grid (SG). Expanded energy interest, unstable energy costs, questionable power age from the sustainable power assets (RERs), electric vehicles, and ecological worries are meeting up to change the idea of the customary power framework. Numerous service organizations are currently moving towards the brilliant metering and the Smart Grid answers for address these difficulties. Shrewd Grid is comprehensive of advance devices, most recent correspondence innovations and capacity gadgets, which makes the Smart Grid defenseless and complex. This invention expects to audit the exhibition investigation of Smart Grid. It likewise presents different models of the Smart Grid execution records. It presents the techniques accessible for security, unwavering quality and versatility appraisal in Smart Grid. It likewise depicts the execution approach utilizing the continuous instruments and methods

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : CLINICAL DECISION SUPPORT SYSTEM FOR DIAGNOSIS AND TREATMENT OF COPD USING ENSEMBLE METHODS.

<p>(51) International classification :G16H0050200000, G16H0050700000, G06Q0050220000, G16H0010600000, G16H0050500000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Sudhir S Anakal Research Scholar Address of Applicant :Department of Computer Science & Engineering (MCA), VTU's Center for PG Studies, Kusnoor road, Kalburgi-585106 INDIA. ----- 2)Dr. P Sandhya Associate Professor 3)Mr. Ambresh Bhadrashetty Assistant Professor 4)Dr. Babu Reddy Assistant Professor 5)Dr. B. Shambhu Lingappa Associate Professor 6)Mr. Chandrasekhar Uppin Senior Academics 7)Mr. Sridhar S Anakal Assistant Professor 8)Mr. Satish Uplaonkar Assistant Professor 9)Mrs. Manjulabai A. Bhadrashetty Assistant Professor 10)Mrs. Prayaga Siddappa Assistant Professor Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Sudhir S Anakal Research Scholar Address of Applicant :Department of Computer Science & Engineering (MCA), VTU's Center for PG Studies, Kusnoor road, Kalburgi-585106 INDIA. ----- 2)Dr. P Sandhya Associate Professor Address of Applicant :Department of Computer Science & Engineering (MCA), VTU's Center for PG Studies, Mysuru-570019 INDIA. ----- 3)Mr. Ambresh Bhadrashetty Assistant Professor Address of Applicant :Department of Computer Science & Engineering (MCA), VTU's Center for PG Studies, Kusnoor road, Kalaburagi-585106 INDIA. ----- 4)Dr. Babu Reddy Assistant Professor Address of Applicant :Department of Mechanical Engineering, VTU's Center for PG Studies, Kusnoor road, Kalaburagi-585106 INDIA ----- 5)Dr. B. Shambhu Lingappa Associate Professor Address of Applicant :Department of Management Studies VTU's Center for PG Studies, Kusnoor road, Kalaburagi-585106 INDIA. ----- 6)Mr. Chandrasekhar Uppin Senior Academics Address of Applicant :Department of Computer Science, BAZE University, Abuja. ----- ----- 7)Mr. Sridhar S Anakal Assistant Professor Address of Applicant :Faculty of Computer Applications, Sharnbasva University, Kalaburagi-585106 INDIA. ----- 8)Mr. Satish Uplaonkar Assistant Professor Address of Applicant :Department of Management Studies, VTU's Center for PG Studies, Kusnoor road, Kalaburagi-585106 INDIA ----- 9)Mrs. Manjulabai A. Bhadrashetty Assistant Professor Address of Applicant :Department of Computer Science, Government First Grade College, Kalagi, Kalaburagi-585106 INDIA. ----- 10)Mrs. Prayaga Siddappa Assistant Professor Address of Applicant :Department of Computer Science, Government College (A), Kalaburagi-585106 INDIA. -----</p>
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(57) Abstract :
ABSTRACT Our Invention is a Clinical Decision Support System for Diagnosis and Treatment of COPD Using Ensemble Methods is a Ongoing wind stream limit is the shared factor of patients with persistent obstructive aspiratory illness (COPD). In any case, it is unimaginable to expect to anticipate bleakness and mortality of individual patient's dependent on the level of lung work hindrance, nor does the level of wind current limit permit direction with respect to treatments. In the course of the last many years, comprehension of the elements adding to the heterogeneity of infection directions, clinical show, and reaction to existing treatments has significantly progressed. Without a doubt, analytic evaluation and treatment calculations for COPD have become more customized. Notwithstanding the pneumonic anomalies and inhaler treatments, extra-aspiratory highlights and comorbidities have been contemplated and are viewed as fundamental parts of exhaustive infection the executives, including way of life mediations. In spite of these advances, anticipating and additionally altering the course of the infection remains right now unthinkable, and choice of patients with a gainful reaction to explicit mediations is inadmissible. Subsequently, non-reaction to pharmacologic and non-pharmacologic medicines is normal, and numerous patients have recalcitrant manifestations. In this manner, there is a continuous desperation for a more designated and comprehensive administration of the infection, fusing the fundamental standards of P4 medication (prescient, preventive, customized, and participatory). This audit portrays the current status and neglected requirements in regards to customized medication for patients with COPD. Likewise, it proposes a frameworks medication approach, incorporating hereditary, natural, (micro)biological, and clinical elements in exploratory and computational models to translate the staggered intricacy of COPD. Eventually, the procured experiences will empower the improvement of clinical choice emotionally supportive networks and advance customized medication for patients with COPD.

No. of Pages : 17 No. of Claims : 9

(54) Title of the invention : Cashew Shell and Fly Ash Rich Brake Liner

<p>(51) International classification :F16D0069020000, C04B0033135000, C04B0028020000, C02F0103300000, C04B0018080000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)SAVEETHA ENGINEERING COLLEGE Address of Applicant :Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai – 602105, TamilNadu, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.R.Selvam Address of Applicant :Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai – 602105, TamilNadu, India. -----</p> <p>----- 2)Dr.S.Suresh Address of Applicant :Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai – 602105, TamilNadu, India. -----</p> <p>----- 3)Mr.R.Prakash Address of Applicant :Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai – 602105, TamilNadu, India. -----</p> <p>----- 4)Mr.A.Thamaraiselvan Address of Applicant :Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai – 602105, TamilNadu, India. -----</p> <p>-----</p>
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(57) Abstract :

This invention relates to a novel idea of Cashew Shell and Fly Ash Rich Brake Liner composite material applicable in automobile industries. Automotive industries are finding difficult in meeting the increasing demand of brake lining material, which is being supplied by the few industries at present. The composition of this brake lining is kept trade secret by the suppliers and it makes difficult to develop other sources of new suppliers. Henceforth, the hybrid material collected from organic and inorganic material chosen for brake lining material developed using the ingredients such as; fly ash, cashew shell powder, phenolic resin, aluminum wool, barites, lime powder, carbon powder, copper powder at two different compositions. Frictional properties in fly ash and cashew shell powder particles are suitable for composites as a filler material. The development of this material with fly ash replaces the asbestos that prevents health hazards caused by its fibers, which may cause asbestosis, mesothelioma and lung cancer. Furthermore, the production cost of such materials can also be reduced through large volume use of fly ash readily available in most countries of the world.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : METHOD FOR IDENTIFYING A DEVICE USING ATTRIBUTES AND LOCATION SIGNATURES FROM THE DEVICE

(51) International classification	:H04L0009320000, G06N0020000000, H04L0029080000, H04W0004020000, H04L0029060000	(71) Name of Applicant : 1)Near Pte. Ltd. Address of Applicant :160 Robinson Road,#20-03 SBF Center, Singapore-068914 -----
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(32) Priority Date	:05/01/2021	Address of Applicant : NA
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(87) International Publication No	: NA	-----
(61) Patent of Addition to Application Number	:NA	2)Sumanth N
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(62) Divisional to Application Number	:NA	-----
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR IDENTIFYING A DEVICE USING ATTRIBUTES AND LOCATION SIGNATURES FROM THE DEVICE A method for identifying an entity device using device signature of the entity device and location signature of a location. The method includes generating device signature for the entity device based on device and connection attributes and user agent strings obtained from independently controlled data sources, generating location signature for the location based on latitude-longitude pair, shape or size of the location, and connection attributes of devices connecting from the location, receiving location data streams from the entity device, generating a cohort of device signatures for the location, generating indexed data stream for the location using combination of the location signature and the cohort of device signatures, building set of rules or machine learning model based on indexed data stream, assigning unique generated identifier for entity device, and identifying, the entity device using the unique generated identifier from selected data stream that does not include device identifier of the entity device. FIG.1

No. of Pages : 34 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202147004967 A

(19) INDIA

(22) Date of filing of Application :05/02/2021

(43) Publication Date : 04/02/2022

(54) Title of the invention : PAINTING FACILITY

(51) International classification :B05B0013020000, B05B0016200000, B05B0016000000, B05D0007000000, B05B0013040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
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(57) Abstract :

No. of Pages : 28 No. of Claims : 8

(54) Title of the invention : INTELLIGENT STREET LAMPS IN SMART CITIES BASED ON THE INTERNET OF THING

(51) International classification :H05B0047190000, H05B0047100000, H05B0047185000, E02D0029140000, H04B0010112000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The current innovation relates to an energy-efficient smart street lighting setup and technique for operating it. The setup and technique comprise, but are not restricted to, a number of detectors designed to sense atmospheric lighting along the roadway or street as well as a control module linked with the detectors and designed to acquire the instruments' detecting result and produce a control action based on detecting outcome and preconfigured information contained integrity of the information attempting to control lighting of situated street lamps, and a centralized data processing server to control lighting of street lights/lamps based on the requirements of the environment with confirmation of operating and non-working circumstances of all situated road led lighting.

No. of Pages : 7 No. of Claims : 3

(54) Title of the invention : Method and Central Network Server for providing continuous services to a User Equipment

(51) International classification :G01C0021360000, H04W0040020000, G06Q0030060000, H04W0004400000, H04W0012000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Embodiments herein disclose a method and central network server (200) for providing continuous services to a User Equipment (UE) (500). The method includes receiving an initial location of a UE (500) and an intended destination for the UE (500). Further the method includes identifying a best route to reach the intended destination from the initial location of the UE (500). Further the method includes detecting at least one wireless access points along the best route which can provide services to the UE (500). Further the method includes instructing the detected at least one wireless access points along the best route to provide extended coverage to the UE (500).

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : Machine learning based real time hospitality improvement system for hotel industries

(51) International classification :G06Q0050120000, H04N0021436000, G06F0016000000, G06Q0010020000, G06N0020000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention is machine learning based real time hospitality improvement system for hotel industries. The data memory computerized algorithm module to store the normalized rooms data, and a communication computerized algorithm module to communicate the normalized rooms data to the verity of hotel guest mobile computing unit according to a selected communication protocol that is selected via each hotel guest computer device of the verity of hotel guest mobile computing unit from among a verity of available communication protocols provided by the communication computerized algorithm module.

No. of Pages : 17 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000068 A

(19) INDIA

(22) Date of filing of Application :02/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : VAT PEN (VEIN AND ARTERY TRACKER PEN)

(51) International classification :G09B0023280000, G07D0007121000, A61F0007030000, A61B0008060000, A61B0001060000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT VAT PEN (VEIN AND ARTERY TRACKER PEN) This invention is related to the field of medical devices. More particularly the invention is a device to particularly locate the vein and artery of a person. The device includes an optic lens through which infra red light is shone on the skin. Vein is detected through optic lens using infra – red light with three different colors such as white, green and red intentionally and artery is detected with blue light sensor alarm (beep) sound when firmed on the skin and it has USB PIN by which the detector can be connected to tablet computer and even with mobile phones. A scrolling button is attached to the base of the VAT PEN to make different sizes by zoom in/zoom out so that the size of the vein is imaged clearly.

No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : DEVELOPMENT OF BIO MATERIALS PROCESS FOR ENGINEERING PRODUCTION AND CONTROL

<p>(51) International classification :H01L0021840000, G06F0030130000, B32B0007120000, G06F0016350000, H01M0004900000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Gopala Rao Thellaputta Address of Applicant :Dr. Gopala Rao Thellaputta, Professor, Department of Mechanical Engineering, St. Ann's College of Engineering & Technology, Nayunipalli Village, Challareddy palem Post, Vetapalem Mandal, Chirala-523187, Prakasam District, Andhra Pradesh, ramgo_31@yahoo.co.in, 9381684688 -----</p> <p>2)Mr.Saddam Hussain 3)Dr Vishwanath Patil 4)Dr. Shiva Johri 5)Dr.N.Tulasi Radha 6)Mr.Kannadasan B 7)Mr.Avinash Dattatray Chavan</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Gopala Rao Thellaputta Address of Applicant :Dr. Gopala Rao Thellaputta, Professor, Department of Mechanical Engineering, St. Ann's College of Engineering & Technology, Nayunipalli Village, Challareddy palem Post, Vetapalem Mandal, Chirala-523187, Prakasam District, Andhra Pradesh, ramgo_31@yahoo.co.in, 9381684688 -----</p> <p>2)Mr.Saddam Hussain Address of Applicant :Mr.Saddam Hussain,PhD scholar, Department of Civil and Architecture Engineering, Kyushu institute of technology. 8040015 Kitakyushu Fukuoka Japan -----</p> <p>3)Dr Vishwanath Patil Address of Applicant :Dr Vishwanath Patil, Associate Professor, Department of Mechanical Engineering, Faculty of Engineering and Technology, Sharnbasva University Kalaburagi-585101 Karnataka -----</p> <p>4)Dr. Shiva Johri Address of Applicant :Dr. Shiva Johri , Associate Professor; Management Discipline, Department Of Management, Oriental College of Management, Oriental Group of Institutes Bhopal ,462022 ,Madhya Pradesh -----</p> <p>5)Dr.N.Tulasi Radha Address of Applicant :Dr.N.Tulasi Radha,Associate Professor,Department of Mechanical Engineering, Malla Reddy Engineering College (A) Maisammaguda(H),Gundlapochampally (V),Medchal (M). Medchal - Malkajgiri District Telangana - 500100 -----</p> <p>6)Mr.Kannadasan B Address of Applicant :Mr.Kannadasan B, Assistant Professor, Department of Civil Engineering, B.S.Abdur Rahman Crescent Institute of Science and Technology, GST Road, Vandalur Chennai - 600048 -----</p> <p>7)Mr.Avinash Dattatray Chavan Address of Applicant :Mr.Avinash Dattatray Chavan, Assistant Professor Department of Mechanical Engineering, St. John College of Engineering & Management, Manor Road, Near Shakti Udyog Industrial Area, Vevoor Village, Palghar-401404, Maharashtra -----</p>
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(57) Abstract :

The whole work examines a variety of processes aimed at developing a computerized substance classification system. The significance of a bio materials knowledge-based strategy (KBS) in modular construction is discussed. The use of KBS in the choice of bio materials production and control of labeled compounds in an engineering phase is discussed. Furthermore addressed will be the evolution of commodities catalogs, that are occasionally used as general design tools. By use of KBS mostly in the area of approach has two composites and its usage in the construction phase are selected as exemplary illustrations.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000070 A

(19) INDIA

(22) Date of filing of Application :02/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A ROBOTIC SURGERY ASSISTING SIMULATION SYSTEM AND METHOD THEREOF

(51) International classification :A61B0034300000, A61B0034000000, A61B0034200000, A61B0090000000, B25J0009100000
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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3)Dr.Vodnala Veda Prakash

4)Dr.R.Subash

5)Mr.Kiran Kumar Algot

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(57) Abstract :

The present invention discloses a robotic surgery assisting simulation system and method thereof. The system includes, but not limited to, a display unit to view a movement of various electronic and electrical component consisting of an actuator unit that generates a driving force to operate a base unit having a plurality of rotational axis spaced a first angular distance from each of the rotational axis; a first internal link with the actuator unit having an intermediate shaft pivotally connected to the base unit at the first rotational axis and spaced a second angular distance from the first rotational axis. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 8

(54) Title of the invention : MANAGEMENT OF THE INDUSTRY 4.0 BUSINESS MODEL

<p>(51) International classification :G06Q0010060000, G06Q0030020000, G06Q0010100000, G06Q0099000000, G06Q0050180000</p> <p>(86) International Application No Filing Date :PCT// / :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.Saritha Mididoddi Address of Applicant :Dr.Saritha Mididoddi,Assistant Professor, VaagdeviEngineering College, Bollikunta, Warangal, Telangana-5066002. aduvala.saritha@gmail.com, +91 9010835704 ----- --- 2)Dr. Sagar Hambirrao Mohite 3)Dr. Manita Arora 4)Ms. Supriya Lamba Sahdev 5)Dr. Navleen Kaur 6)Dr. P. Viswanath 7)Mr.Kannadasan B Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.Saritha Mididoddi Address of Applicant :Dr.Saritha Mididoddi,Assistant Professor, VaagdeviEngineering College, Bollikunta, Warangal, Telangana-5066002. aduvala.saritha@gmail.com, +91 9010835704 ----- --- 2)Dr. Sagar Hambirrao Mohite Address of Applicant :Dr. Sagar Hambirrao Mohite, Director,Institute of Hotel Management, MGM University, Aurangabad-431003,Maharashtra ----- 3)Dr. Manita Arora Address of Applicant :Dr. Manita Arora, Assistant Professor, Amity School of Business, Amity University, Noida, Sector-125, Uttar Pradesh - ----- 4)Ms. Supriya Lamba Sahdev Address of Applicant :Ms. Supriya Lamba Sahdev, Assistant professor Amity international business school, Amity University Noida, Sector-125, Uttar Pradesh ----- 5)Dr. Navleen Kaur Address of Applicant :Dr. Navleen Kaur, Associate Professor, Amity International Business School, Amity University Noida ,Uttar Pradesh --- ----- 6)Dr. P. Viswanath Address of Applicant :Dr. P. Viswanath, Assistant Professor (A), School of Management Studies, Jntua, Ananthauramu, Andhra Pradesh - 515002. ----- 7)Mr.Kannadasan B Address of Applicant :Mr.Kannadasan B, Assistant Professor, Civil Engineering, B.S.Abdur Rahman Crescent Institute of Science and Technology, GST Road, Vandalur Chennai - 600048 -----</p>
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(57) Abstract :
Business practices must evolve regularly in a changing marketing environment as well as the digitization for businesses to maintain a competitive advantage and ensure overall economic survival. Corporations, on the other hand, would be unable to effectively examine and standardize their business strategy administration. As an outcome, combining Industry 4.0, marketing strategies, as well as business strategy management products highlights an institution's capabilities and leads to higher competitive but also operational performance. A modeling process in business strategy management is built to support a company's progress, providing help according to the needs but also a strategic alignment of the organization. It evaluates the organization's present intelligence level but also recommends a series of steps to progressing toward a defined business strategy as well as operational mastery through highlighting areas for improvement. As a result, the business model connects an administration operational strategy as well as management information to different ideas as well as makes them available to the market through a redesigned business strategy.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000128 A

(19) INDIA

(22) Date of filing of Application :03/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A FLEXIBLE EXTENDED SPITTOON

(51) International classification :B41J0002165000, A61J0019000000, A61G0015140000, B41J0002170000, A61J0019040000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A FLEXIBLE EXTENDED SPITTOON The present innovation is to introduce a new, flexible extended spittoon. This could be a boon for patients with Spondylitis, geriatric, obese and pregnant patients, who have immense difficulties to bend to spit their residues, during a dental procedure, in the spittoon. An added advantage is that, this spittoon prevents the cross contamination from patient to dentist. This flexible spittoon, consists of a lid which can be opened and closed, as and when required. It is opened on both ends, and is connected to the sink of the spittoon. Ideally, this spittoon, encompasses the sanitary features and is designed to prevent spillage in the dental chair. It is simple to use with readily available materials, user-friendly and easy to manufacture. Moreover, it is provided with provision for water flush for self-cleansing.

No. of Pages : 11 No. of Claims : 2

(54) Title of the invention : INTELLIGENT QUESTION-ANSWER INTERACTION METHOD AND DEVICE BASED ON MACHINE LEARNING

<p>(51) International classification :G06F0016332000, G06F0016330000, G06F0016350000, G06N0020000000, G06F0016360000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. Ahmed Ali Baig Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>2)Dr. K. Srujan Raju Address of Applicant :Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>3)Dr. Raj Kumar Patra Address of Applicant :Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>4)M. Chalapathi Rao Address of Applicant :Assoc. Professor, Dept. of IT, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>5)S. Malleesh Address of Applicant :Asst. Professor, Dept. of ECE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure directed towards a question-answer interaction method and a device based on machine learning, the method comprises the following steps: obtaining the user's question text, and extract the question elements of the question text, retrieving a question answer corresponding to the question text from a preset knowledge graph according to the question element If the number of question answers retrieved is greater than 1, then input the question text and the question answer into the preset corpus classification model to obtain the accuracy probability of each question answer, and determining a pushed answer corresponding to the question text according to the accuracy probability of each question answer, and sending the pushed answer to the user. FIG.1

No. of Pages : 18 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000242 A

(19) INDIA

(22) Date of filing of Application :03/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Modification of Obwegeser Channel retractor

(51) International classification :A61B0017800000, A61B0001320000, A61C0007000000, A61L0024000000, A61B0017000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT Modification of Obwegeser Channel retractor This invention is related to the field of medical devices. The objective of this invention is to improve the visibility in the surgical field which otherwise has a poor visibility. The application is in the field of Oral and Maxillofacial Surgery in the specific area of Orthognathic surgery. LED light source can illuminate the Lingual surface of the Ramus which enhances the visibility of that area.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000260 A

(19) INDIA

(22) Date of filing of Application :03/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : MODIFIED DENTAL BURNER

(51) International classification :A61C0013000000, C07K0014540000, A61C0013200000, G01N0033530000, A45F0005020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT MODIFIED DENTAL BURNER This invention is related to a modified Dental Burner. Dental burner frequently gets blocked due to dipping of molten wax, resulting in oxidized yellow flame and impairs the work flow and purity of the flame. A slight modification in the design of the burner can completely avoid or overcome this problem. The vertical barrel of the burner is modified by the addition of a bend which has a belly wax pool to retain the wax which is accidentally dropped. This in turn is directed vertically to maintain the vertical flame.

No. of Pages : 7 No. of Claims : 1

(54) Title of the invention : Deep Learning for Optimization of Power & Energy Management System in Hybrid Electric Vehicles

(51) International classification :B60L0053300000, G06Q0030040000, G06Q0020140000, G07F0015000000, H04M0015000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 As a result of the development of electric vehicles with longer trip ranges (EVs), they will travel through various networks serviced by different utilities. We thus introduce an architecture that can provide roaming cars with charge service. In addition, although the energy internet allows energy and information flow, its roaming service is not smooth since its core design supports the internet. Decentralized system-based Blockchain technology can provide a secure billing platform to charge electrical vehicles traveling through the many electric charging stations. In addition, artificial intelligence integration (AI) guarantees a fair share of the income for participating players. This article aims to create an integrated billing architecture for AI and blockchain that would provide a charging service to roaming electricity systems and provide a fair and uniform billing service.

No. of Pages : 28 No. of Claims : 6

(54) Title of the invention : INTELLIGENT CONTROL DEVICE OF AN INTELLIGENT CABINET

<p>(51) International classification :G06K0009000000, G07C0009000000, H05K0007200000, B25J0011000000, B24B0051000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. A. Raji Reddy Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 2)Dr. V. Kesava Reddy Address of Applicant :Dept. of Mathematics, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 3)Dr. Ch. Srinivasa Rao Address of Applicant :Professor, Dept. of Civil Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 4)Dr. T. S. Masthan Rao Address of Applicant :Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 5)Dr. Suraya Mubeen Address of Applicant :Professor, Dept. of ECE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure directed towards an intelligent cabinet control device, comprising: an intelligent lock installed on an intelligent cabinet, a memory sensor, a magnetic door switch, a temperature sensor, a humidity sensor, an Intelligent card installed on an article, a fingerprint reading head, an intelligent card reading head, a control host, an audible and visual alarm, an automatic dialer, a transfer device, and a computing device, the output of the fingerprint reading head is connected with the control host which is respectively connected with the audible and visual alarm and the automatic dialer; the control host is connected with the intelligent lock, the magnetic door switch, the memory sensor, the temperature sensor, and the humidity sensor; the intelligent card reading head reads the intelligent card installed on the article in a non-contact mode. The output of the intelligent card reading head is connected with the control host. FIG.1

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000266 A

(19) INDIA

(22) Date of filing of Application :03/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : MACHINE LEARNING SYSTEM AND METHOD FOR FEATURE TUNING AND PARAMETER OPTIMIZATION

(51) International classification :G06N002000000, A61B0005040000, G10L0015060000, G06F0030200000, H04W0028180000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Exemplary embodiments of the present disclosure directed towards a machine learning system and method for feature tuning and parameter optimization comprising following steps: random generation of multiple parameter sets, multiple parameter sets are carried out to the iteration optimization based on EnKF, the multiple parameter sets after optimizing are carried out to Performance Evaluation, parameter set according to assessment result, supplementary parameter set, parameter sets in parameter sets in pair set pond and described supplementary parameter set is carried out iteration optimization and the Performance Evaluation based on EnKF again, By the adoption of the method, the computational efficiency for processing the computed results of parameter optimization.

No. of Pages : 21 No. of Claims : 2

(54) Title of the invention : IIoT's BASED REMOTE MONITORING AND AUTOMATIC PESTICIDE SPRAYING USING AGRICULTURE DRONES

<p>(51) International classification :B64C0039020000, A01M0007000000, G05D0001000000, G05D0001100000, H04L0029080000</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.S.Pathur Nisha Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>2)Prof.S.Satheesh Kumar</p> <p>3)Prof.R.Allocious Britto Rajkumar</p> <p>4)Prof.J.Karthikeyan</p> <p>5)Prof.A.Balthilak</p> <p>6)Prof. V. Rajasubramanian</p> <p>7)Dr.T.Manikandan</p> <p>8)Prof.T.Banu</p> <p>9)Dr.M.Sivanesh Prabhu</p> <p>10)Prof.Gulja S Nair</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Prof.S.Satheesh Kumar Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>2)Dr.T.Manikandan Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>3)Prof.J.Karthikeyan Address of Applicant :Nehru Institute of Engineering and Technology, Thirumalayampalayam, Coimbatore -----</p> <p>4)Prof. V. Rajasubramanian Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>5)Prof.T.Banu Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>6)Prof.R.Allocious Britto Rajkumar Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>7)Prof.A.Balthilak Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>8)Dr.S.Pathur Nisha Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>9)Dr.M.Sivanesh Prabhu Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p> <p>10)Prof.Gulja S Nair Address of Applicant :Nehru Institute of Technology, Jawahar gardens, Kaliyapuram, Coimbatore – 641105. -----</p>
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(57) Abstract :

Agriculture is the main source of food supply. In farming the farmers uses powerful fuel based IC engines for heavy machineries. These machineries requires skilled technician to operate and it causes environmental pollution. To overcome all the disadvantages in traditional approach, drones were introduced in smart farming. The drones are also referred as Unmanned Aerial Vehicle (UAV).It is a kind of flying robot which can be controlled remotely. Drones can spray the pesticides all over the farm uniformly even to the place where farmers were not able to reach. It helps the farmers to govern the farm from safe and secure location. In this invention, the agricultural drone was designed to facilitate the farmers to ease their work and increase the crop productivity by remote monitoring using IIoT's. These drones can fly autonomously in the air and the aircraft's motion will be controlled remotely by an operator to spray the pesticides over the field. It also consists of sensors and cameras that will record and capture high resolution images. The information's obtained from the drone will be communicated with the farmers using IIoT's. Thus the smart agriculture drones helps the farmers with crop monitoring, pesticide spraying, disease detection etc.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000277 A

(19) INDIA

(22) Date of filing of Application :04/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : MODIFIED MOUTH MIRROR WITH ATTACHMENTS

(51) International classification :A61B0001000000, C08L0033020000, G02B0007182000, A61C0001080000, A61C0017100000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT MODIFIED MOUTH MIRROR WITH ATTACHMENTS This modified mouth mirror of dimensions 2x1 inch with a rectangular shape having rounded margins and an angulation will give a wider area of visualization along with good reflection and adequate retraction in the buccal segment of the oral cavity. Attachments in the form of rings can be provided in the mouth mirror to accommodate tubes for air, water and suction. The mirror can be made concave so as to get an enlarged image.

No. of Pages : 5 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000403 A

(19) INDIA

(22) Date of filing of Application :04/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ORAL BIOSCOPE A Robust dual purpose Oral Cancer Screening and Biopsy Tool

(51) International classification :A61B0010020000, A61B0001060000, A61B0017320500, A61B0001240000, H01J0009227000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT ORAL BIOSCOPE A Robust dual purpose Oral Cancer Screening and Biopsy Tool This invention is related to the field of medical devices. A hand-held device (Gun shaped) with handle containing two buttons (Blue and Red) and a head at right angles to the handle. [External light source and eyeglass filter]. Initially when blue button is switched on, it initiates the screening process producing a blue light (436nm) which screens the autofluorescence of the oral tissues. Lack of autofluorescence (dark areas) depict suspicious sites. In such sites, the red button is switched on which immediately activates the release of the punch biopsy instrument and facilitates procurement of biopsy from the appropriate site right away.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000405 A

(19) INDIA

(22) Date of filing of Application :04/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A MARKET STUDY ABOUT LASER TONER

<p>(51) International classification :G06Q0030020000, G06Q0030060000, G06Q0010040000, G06F0009300000, A61B0005040200</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Mohanasundari M Address of Applicant :Associate Professor MBA, Kongu Engineering College Erode- 638060, Tamilnadu -----</p> <p>2)Dr. V.Kannan 3)Dr. A. BHASKARAN 4)Dr. T.SENTHILNATHAN 5)Dr. ASHISH GUPTA 6)Dr. Praveen Kumar S 7)Dr. P.SORUBARANI 8)Dr. Bala Sendhil Kumar G. Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Mohanasundari M Address of Applicant :Associate Professor MBA, Kongu Engineering College Erode- 638060, Tamilnadu -----</p> <p>2)Dr. V.Kannan Address of Applicant :Managing director, CLDC Research and Development No.997, Mettupalayam Road, Near X Cut Signal,R.S.Puram, Coimbatore 641002, Tamilnadu -----</p> <p>3)Dr. A. BHASKARAN Address of Applicant :Professor and Head, Applied Physics Sri Venkateswara College of Engineering, Pennalur,Sriperumbudur Tk., Kancheepuram District-602117, Tamilnadu -----</p> <p>4)Dr. T.SENTHILNATHAN Address of Applicant :Assistant Professor, Applied Physics, Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur Tk., Kancheepuram District, Tamilnadu -----</p> <p>5)Dr. ASHISH GUPTA Address of Applicant :PROFESSOR & HEAD,ENGLISH, GOVERNMENT GIRLS COLLEGE, BETUL-460001, MADHYA PRADESH -----</p> <p>6)Dr. Praveen Kumar S Address of Applicant :Professor & Dean School of Commerce and Management, Bharath Institute of Higher Education and Research, Chennai, Tamilnadu -----</p> <p>7)Dr. P.SORUBARANI Address of Applicant :Head of the Department B.Com (Business Analytics) KPR College of Arts Science and Research, Coimbatore, Tamilnadu -----</p> <p>8)Dr. Bala Sendhil Kumar G. Address of Applicant :Professor MBA Sri Manakula Vinayagar Engineering College, Puducherry- 605107 -----</p>
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(57) Abstract :

A Market Study about Laser Toner Abstract: The study's goal was to discover how Laser Toners are perceived by their users on a variety of levels. The survey included respondents from all walks of life. Participants in the study want to know why people choose one brand over another, what features they value, why they buy Laser Toner refills, and how they maintain their Laser Toners. Questionnaires and focus groups are two of the methods used in the study. These studies assist businesses in learning more about how customers think about purchasing a product or service, allowing them to better position their products and services to entice more customers to buy. People are asked to rate how much they prefer brand-name toners over generic toners in this survey. It also assists in determining what customers truly think and think about, as well as what they expect in the future, by observing what they say and do. It took place solely in the city of Chennai. It considers HP, Samsung, and Canon, but it also considers three other companies. Furthermore, the study only included 100 people because the information they provided was not always accurate.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000406 A

(19) INDIA

(22) Date of filing of Application :04/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Cloud and IoT based framework to prevent sneaking & conserve woodlands using WSN

<p>(51) International classification :C07D0213300000, C12N0015820000, A61K0031496500, C07D0471040000, C07D0295150000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. Anita Rose J T Address of Applicant :Associate Professor St. Joseph's College of Engineering OMR, Chennai - 119 Tamil Nadu, India ----- 2)Dr.J.Vijayalakshmi 3)Y. M. Mahaboobjohn 4)Dr.Reshma V.K 5)Mr. Rahul Agarwal 6)Ms. SHILPY SHARMA 7)Mr. Alok Kumar 8)Ms. Anupriya kumari Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Anita Rose J T Address of Applicant :Associate Professor St. Joseph's College of Engineering OMR, Chennai - 119 Tamil Nadu, India ----- 2)Dr.J.Vijayalakshmi Address of Applicant :Guest Lecturer Government Arts and Science College, Vedaranyam, Nagapattinam (Dist) - 614810, Tamil Nadu, India ----- 3)Y. M. Mahaboobjohn Address of Applicant :Assistant Professor Mahendra College Of Engineering, Minnampalli, Salem-636106, TamilNadu, India ----- 4)Dr.Reshma V.K Address of Applicant :Assistant Professor, Department of Artificial Intelligence and Machine Learning, Hindustan College of Engineering and Technology, Valley campus,Pollachi highway,Othakkalmandapam, Coimbatore- 641032 TamilNadu, India ----- 5)Mr. Rahul Agarwal Address of Applicant :Assistant professor , Raja Balwant Singh Engineering Technical Campus, Agra-283105, Uttar Pradesh, India ----- 6)Ms. SHILPY SHARMA Address of Applicant :Assistant Professor COLLEGE OF ENGINEERING ROORKEE, Vardhman Puram, 7KM Roorkee Hardwar Road.- 247667, Uttrakhand, India. ----- 7)Mr. Alok Kumar Address of Applicant :Student, COLLEGE OF ENGINEERING ROORKEE, Roorkee-247667, Uttrakhand, India ----- 8)Ms. Anupriya kumari Address of Applicant :Student, COLLEGE OF ENGINEERING ROORKEE, Roorkee-247667, Uttrakhand, India -----</p>
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(57) Abstract :

Abstract: Trees found in wasteland, such as shoe timber, pose a clear threat to woodland assets and will result in significant financial losses worldwide in the future as a result of people stealing or breaking into these trees. Because there are fewer of these plants than there were previously, they have become overabundant in every way. They are used in medicine as well as to improve the appearance of objects. Because the cost of importing these plants is so high, it is critical to act quickly. Using a three-pin MEMS acceleration sensor and a microcontroller-based system based on WSN novelty, I developed a system that detects when plants or twigs have been cut.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000407 A

(19) INDIA

(22) Date of filing of Application :04/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : The Important Role of Finance and Management Planning In Business

(51) International classification :G06Q0010060000, G06Q0040000000, G99Z0099000000, G06Q0040020000, A63F0013822000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 The Important Role of Finance and Management Planning In Business Abstract: Before a strategy can be truly successful, three things must be accomplished: the company must be aligned with the outside world, it must have a realistic internal view of its core competencies and long-term competitive advantages, and the strategy must be properly implemented and monitored. Investigate the role of finance in strategic planning, decision-making, action, and keeping an eye on what's going on in the long run. Each person, company, and country must have a clear understanding of who they are. They must also know where they are going and how they will get there. Analytical models that depict an organisation, company, or country as consciously incompetent play an important role in strategic planning. This gives people an incentive to create a new one. The first through fifth steps are depicted here. The chosen strategy must be strong enough to allow the company to do things differently than its competitors or more efficiently than its competitors. Metrics play an important role in a well-thought-out strategic plan. Metrics aid in translating the vision and mission into measurable outcomes. It's critical because strategic planning is all about allocating resources, which wouldn't make sense if resources were infinite. Finance and financial goals, as well as financial performance, play an important role in strategic planning and decision-making. This is especially true when it comes to putting the plan into action and monitoring it. This article will demonstrate how this can occur.

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : Relationship marketing in hotel organizations

(51) International classification :G06Q0010060000, G06Q0099000000, G06Q0030020000, G06Q0010040000, G06Q0050260000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 [09] The hotel industry has a few peculiar features. Today's hotel industry is complex and diverse. It is facing cut throat competition. The survival and success of the hotel industry rest on the adoption of appropriate management strategy to maintain service quality. It is not only a service industry with high dependence on customer service, but is also an industry which has multiple segments and sectors. In the Indian Hotel Industry, apart from the Indian Private Sector, the Government of India, the State Governments and foreign private sector are all present. It has a wide ranging operational scale from the smallest hotel to the five starred posh hotels. As a highly capital intensive industry, its employment potentials cannot be over-emphasized. The hotel industry in the country as a whole and in Tamil Nadu particularly, has been beset with a multiplicity of problems. Further the hotel industry has not been placed on par with other export/ manufacturing industries. All these burden the Hotel industry and distort the tariff structure and working results. To cap all these, there is a heavy incidence of taxation. In view of the regional diversities, the problems and prospects of the industry are likely to vary from region to region. Hence a series of micro-level studies shall provide vital input to the planners and policy makers. The proposed study is an attempt in this direction. It is also observed that comprehensive and intensive studies touching upon various aspects of the hotel industry are limited. However, with regard to other industries in territory sector, different researchers and institutions have undertaken a lot of scientific and detailed studies. The analysis of the problems in the hotel industry from the hoteliers' point of view and the customer expectations and perception has not been focused so far. Hence, the present study focuses on the various issues relating to the hotel industry in two aspects namely the different dimensions of the products and services offered by the hoteliers and customer expectations and their fulfillment.

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000457 A

(19) INDIA

(22) Date of filing of Application :04/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : NETWORK SECURITY ATTACK DEFENSE SYSTEM USING STATE ATTACK AND DEFENSE GRAPH MODEL AND METHOD EMPLOYED THEREOF

<p>(51) International classification :H04L0029060000, G06T0001000000, H04L0012180000, B61C0017020000, C23F0001020000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. Ahmed Ali Baig Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>2)Dr. B. Kavitha Rani Address of Applicant :Professor, Dept. of IT, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>3)B. Ramji Address of Applicant :Asst. Professor, Dept. of CSE (DS), CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>4)J. Srividya Address of Applicant :Asst. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>5)D Sandhya Rani Address of Applicant :Asst Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a network security attack defense system using state attack and defense graph model and method employed thereof. The method includes determining connectedness structure reach ability matrix of all hosts node in network topology and utilizing tender spots scanning tools Nessus, ISS and SARA, and each host node in network is scanned and obtains the tender spots set of each host node. The method further includes according to the tender spots set of each host node and the utilization rule structure state attacking and defending figure of each tender spots and conjunction with safe tender spots evaluating system CVSS, the probability of success and the hazard index of each atomic strike in computing mode attacking and defending figure and determining mentioned two kinds of attack paths in conjunction with the tender spots prevention and control measure, formulate defense policies. FIG. 2

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000458 A

(19) INDIA

(22) Date of filing of Application :04/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : PAYMENT ROUTE SYSTEM AND METHOD EMPLOYED THEREOF

<p>(51) International classification :G06Q0020320000, G06Q0020380000, G06Q0020400000, G06Q0020160000, G06K0019073000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. A. Raji Reddy Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>2)Dr. S. Rao Chintalpudi Address of Applicant :Professor, Dept. of CSE (AIML), CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p> <p>3)Dr Vinoda Reddy Address of Applicant :Professor, Dept. of CSE (AIML), CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>4)C R Sruthi Reddy Address of Applicant :Asst. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India -----</p> <p>5)N Sravanthi Address of Applicant :Asst. Professor, Dept. of CSE (DS), CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
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(57) Abstract :
Exemplary embodiments of the present disclosure directed towards a payment route system and method, comprising: a request processing module configured to obtain the user's payment request, rule matching module the payment method selected by a user is a direct-linked payment method, payment processing module configured to generate payment parameters according to payment channels, update module, update the order status according to the payment result, and display the payment result to the user.

No. of Pages : 12 No. of Claims : 2

(54) Title of the invention : Detection and classification of diabetic retinopathy from fundus images using optimized 3 sigma and NN method

(51) International classification :G06T0007000000, A61B0003120000, G16H0050200000, G06K0009460000, A61B0003000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Abstract Diabetic retinopathy is the major cause of vision loss in the world of age group 18 to 65 years. Diabetic retinopathy is the progressive pathological alterations in the retinal microvasculature, leading to areas of retinal non-perfusion, increased vascular permeability, and the pathological proliferation of retinal vessels. It can be tedious and time consuming to decipher subtle morphological changes in optic disk, microaneurysms, haemorrhages, blood vessels, macula, and exudates through manual inspection of fundus images. Early identification of disease will help the patient in preventing the vision loss. Hence, it is beneficial to have regular cost-effective eye screening for a diabetic patient. A computer base diagnosis system can significantly reduce the burden on the ophthalmologists and may alleviate inter and intra observer variability. The research concentrate into an aspect of automatic detection and grading of diabetic retinopathy; namely the identification of blood vessels, optic disc, microaneurysms, exudates in RGB fundus images. The literature review of various retinal feature extractions and grading techniques were analyzed and the results of analysis a need for further development. An automated system is developed for detection and classification of diabetic retinopathy. The results of various existing methods are compared with our proposed methods. In this thesis, RGB fundus images are trained and tested. For salient features uses blood vessels, optic disc, exudates, microaneurysms, shape, size, and area, are extracted from the input RGB fundus image using mathematical morphology techniques, Optimized three sigma method for features extractions and NN classifier is used to investigated the classification. These results are based on 219 RGB images collected from private BTGH dataset. For training and testing 180 RGB fundus images with significant pathology from dataset are used. The remaining RGB fundus images are of low resolution from which pathology can't be extracted. Hence, the retinal fundus image is been used as input. Then these images are pre-processed with some pre-processing algorithms like image enhancement, equalization of histogram to improve the proposed system performance. Total image data files are divided to training and testing datasets. Features are extracted for training and testing using feature extraction algorithm individually. Finally for clinical decision making, the extracted features have been applied to the NN classifier to classify the input image as normal and abnormal. The result obtained is 99.93% of accuracy using the proposed methods on BTGH private datasets. The classification accuracy has been compared with various other techniques. The performance of the developed clinical decision support system has been estimated and found that the grading sensitivity, specificity and accuracy are high which proves to be a reliable system for clinical pathology. The advantage of the author's approach lies in the optimized three sigma method and neural network methods consistent as well as accurate detection and classification

No. of Pages : 28 No. of Claims : 3

(54) Title of the invention : THE EFFECT OF OUTSOURCING HUMAN RESOURCES ON ORGANIZATIONAL PERFORMANCE

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0030020000, G06Q0099000000, G06N0003040000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 Excellent organizational performance improvements are becoming critical in today's increasingly competitive environment. The impact of human resource functions on organizational efficiency has intrigued the interests of both researchers and practitioners. When outsourcing is seen as a tactic used by organizations to strengthen their core strengths and efficiently deploy their resources, how much human resource services anything may be outsourced brings up the relevance of company culture in deciding the success of outsourcing. Aside from administrative tasks like cleaning, catering, staff transportation, and security, certain human resources functions may be outsourced such as training and payroll adds positively to performance standards via the employment of only authentic strategy and organizational culture. Human resource management performance and employee perceptions of outsourcing are crucial for optimizing a convenient approach. The purpose of this literature review is to determine which human resource activities may be outsourced and yet contribute value to corporate performance. The research is deficient in examining the impact of employees' shifting views on outsourcing on the organization in-depth and the effect of organizational culture on the linkages mentioned earlier.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000628 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Smart production monitoring and management system

(51) International classification :G06Q005040000, G06K001700000, G05B0019042000, G07F009020000, G07C0003000000
 (86) International Application No :PCT/
 Filing Date :01/01/1900
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Abstract: It is critical to have a monitoring system in place during every manufacturing process. The time it takes to process raw materials is one factor that influences how long it takes to make a product. A traditional company requires the operator to record the time it takes to process each order on a piece of paper. If you use this method to complete your work, you are likely to make numerous errors. The goal of this paper is to create a system that can automatically record and track processing time in order to solve this problem. There is a device attached to the machine that makes things that automatically checks the production process. It will be simple to use because it has a touch screen LCD. The person who operates the machine's ID card contains an RFID chip that records his or her name. Scanning the database for information about the workpiece using the barcode on the monitoring sheet, then looking up that information in the database A sensor on the machine can show how long it takes to machine in real time. The system's outputs include information such as how long it takes to process and how much storage space it has. In this case, the workshop planning app from the company can be wirelessly linked to this system. Following the tests, many of the system's functions were discovered to be operationally sound. When this system is implemented, higher-level managers will be able to keep track of processing times more quickly and accurately.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000639 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM FOR DELIVERING ONSITE AUTOMOBILE PARTS AND PRODUCING THE SAME USING ADDITIVE MANUFACTURING

(51) International classification :G06Q0030060000, G06Q0010080000, B33Y0080000000, B33Y0010000000, B60P0003140000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A SYSTEM FOR DELIVERING ONSITE AUTOMOBILE PARTS AND PRODUCING THE SAME USING ADDITIVE MANUFACTURING Aspects of present disclosure relate to a process of manufacturing of spare parts for automobiles, more specifically, it pertains to an onsite process close to individual customer's location for manufacturing of the spare parts of automobiles. The process of manufacturing of the spare parts is done with respect to specificity of the models of automobiles and customer's demand. The onsite manufacturing of the spare parts is advanced by the implementing the additive manufacturing apparatus enabled on a movable cart that has active GPS so as to sync with the customer's location. The cart is mediated by the cloud server synced with the order placed by the customer on the e-commerce website stating the requirement of a spare part.

No. of Pages : 18 No. of Claims : 7

(54) Title of the invention : REALIZING MEDICAL AND HEALTH CARE SYSTEM AND METHOD EMPLOYED THEREOF

<p>(51) International classification :H04W0084180000, A61B0005145500, A61B0005010000, A61B0005020000, H04W0012060000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)CMR Technical Campus Address of Applicant :CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. Ahmed Ali Baig Address of Applicant :Professor, Dept. of Mechanical Engineering, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 2)Dr. S. Rao Chintalpudi Address of Applicant :Professor, Dept. of CSE (AIML), CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. ----- 3)G Vinesh Address of Applicant :Asst. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 4)Dr B Laxmaiah Address of Applicant :Assoc. Professor, Dept. of CSE, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India ----- 5)M. Rajendar Address of Applicant :Asst. Professor, Dept. of Mathematics, CMR Technical Campus, Kandlakoya, Medchal Road, Hyderabad, Telangana - 501401, India. -----</p>
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a realizing medical and health care system and method employed thereof. The method includes acquiring pathological information of a human body by a medical sensing node, such as blood oxygen, sphygmus, pulse and body temperature by various probes, such as a blood oxygen probe, a pulse probe and a body temperature probe, and transmitting the data to wireless sensor network gateway equipment through a wireless sensing module. The method further includes transmitting the pathological data to terminal equipment through an infrastructure network by the gateway equipment, and implementing seamless switching among the wireless sensing network, an Ethernet and a wireless local area network to get rid of the restrict of wire line equipment and use related mobile equipment, such as a PDA and a smart phone and monitoring the pathological information of a patient conveniently of the wirelessly and remotely and fast in a hospital or a wireless network coverage. FIG. 2

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241000660 A

(19) INDIA

(22) Date of filing of Application :05/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR ADDRESS CONFLICT DETECTING IN A COMMUNICATION SYSTEM

(51) International classification :H04L0029120000, H04L0029060000, H04W0024080000, H04N0009750000, G06T0007194000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Exemplary embodiments of the present disclosure directed towards a conflicting address in a communication system, which is applied to a communication system with one-to-multipoint communication mode, and includes the following steps: the background periodically sends a conflict detection broadcast frame for querying various addresses of the foreground communication equipment to the foreground; The foreground receives the conflict detection broadcast frame and reads the address information of the background; the foreground constructs a conflict detection response frame according to the communication protocol and sends it to the background; the background receives the conflict response frame, extracts the information, and detects whether there is an address conflict.

No. of Pages : 10 No. of Claims : 1

(54) Title of the invention : A SEGMENTED ELECTRIC FENCING TO ENABLE SAFE PROTECTION FOR BOTH INNER AND OUTER BOUNDARIES

<p>(51) International classification :A01K0003000000, A63B0069020000, E04H0017160000, E04H0017000000, A01M0029240000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Lakkayan Thirupathi Arjun Raja Address of Applicant :PG Scholar, Department of Electrical and Electronics Engineering, PSNA College of Engineering and Technology, Dindigul. -----</p> <p>2)Ramasamy Karthigaivel 3)Balachandran Karthikeyan</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Lakkayan Thirupathi Arjun Raja Address of Applicant :PG Scholar, Department of Electrical and Electronics Engineering, PSNA College of Engineering and Technology, Dindigul. -----</p> <p>2)Ramasamy Karthigaivel Address of Applicant :Professor, Department of Electrical and Electronics Engineering, PSNA College of Engineering and Technology, Dindigul. -----</p> <p>3)Balachandran Karthikeyan Address of Applicant :Research Scholar, Department of Electrical and Electronics Engineering, PSNA College of Engineering and Technology, Dindigul. -----</p>
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(57) Abstract :

The present invention relates to a fencing system for improving the security and safety of human and wildlife by divide the entire fencing into multiple segments (1). Each segment (1) having an inner boundary sensors (4) are used to produce only annunciation to alert and keep away from the electric fencing and an outer boundary sensors(motion sensor) (3) are used to produce annunciation and activation of electric fence segment which is energized by a short electric pulse only for threaten the animals / humans intend to touch the fence. After the activation the electric fencing segment (1) will become ideal condition after some time delay. In this kind of segmental powering up only a particular segment (1) will be activated remaining at rest position. Each segments (1) are separately working which results in continuous operation even a fault or breakage on any segment and it is easy for maintenance during the live operation without shutdown the entire fencing system. Further, the each segmented fencing configured with a Low voltage coiled relays to identify the breakage or fault on the electric fencing (Refer below figure 2).

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : Development of a new approach in financial management, based on the principles and methodologies of Lean

<p>(51) International classification :G06Q0010060000, G06Q0030020000, G06Q0010000000, G06F0017000000, H04N0021435000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Arpana. D Address of Applicant :Associate Professor, Department of PG studies(Management), The Oxford college of Business Management, Affiliated to Bangalore University, Bangalore- 560102, Karnataka ----- 2)Dr. P. Radha 3)Dr. Nikitha Alur 4)Dr. M. Surekha 5)Dr. S. Rajasekar 6)Dr. Sivagnana Bharathi.S 7)Dr. E. Subbulakshmi 8)Dr.J.A. Raja 9)Dr. Garima Singh 10)Dr. Abhishek Sharma 11)Dr. S. Rekha Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Arpana. D Address of Applicant :Associate Professor, Department of PG studies(Management), The Oxford college of Business Management, Affiliated to Bangalore University, Bangalore- 560102, Karnataka ----- 2)Dr. P. Radha Address of Applicant :Associate Professor, The Oxford College of Business Management, 4th sector HSR Layout, Bangalore – 560102, Karnataka ----- 3)Dr. Nikitha Alur Address of Applicant :Professor, The oxford college of Business Management, 4th sector HSR Layout, Bangalore – 560102, Karnataka ----- 4)Dr. M. Surekha Address of Applicant :Professor, The Oxford College of Business Management , 4th sector HSR Layout, Bangalore – 560102, Karnataka ----- 5)Dr. S. Rajasekar Address of Applicant :Principal, Akshaya Institute of Management Studies, Coimbatore- 641032, Tamil Nadu ----- 6)Dr. Sivagnana Bharathi.S Address of Applicant :Assistant Professor, KIT – Kalaigner Karunanithi Institute of Technology, Coimbatore- 641402, Tamil Nadu. ----- 7)Dr. E. Subbulakshmi Address of Applicant :No.2.. 1st Floor, Vasantham Nagar, Main Road, Avadi, Chennai- 600054, Tamil Nadu. ----- 8)Dr.J.A. Raja Address of Applicant :Professor, The Oxford College of Business Management, 4th sector HSR Layout, Bangalore -560102, Karnataka. ----- 9)Dr. Garima Singh Address of Applicant :Assistant Professor, Department of Business Administration, Bareilly College, Bareilly , Uttar Pradesh- 243001 ----- 10)Dr. Abhishek Sharma Address of Applicant :Assistant Professor, Bareilly College, Bareilly , Uttar Pradesh- 243001 ----- 11)Dr. S. Rekha Address of Applicant :Assistant Professor Department of Commerce Government Arts and Science College, Valparai, Coimbatore- 642127, Tamil Nadu -----</p>
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(57) Abstract :
[014] This work presented the data analysis for different sections of the questionnaire and provided useful insights for consolidating the proposed framework. From the data analysis, we tried to identify the highest rated factors for CSFs Tools, in Information Technology organizations. The data analysis also provided the critical set of tools from the exhaustive list of LSS tools that are mostly used while deploying LSS at IT organizations. We also evaluated different dependent variables in relation to independent variables in order to analyze that the responses are constant across the organization or a particular set of respondents is reporting otherwise.

No. of Pages : 25 No. of Claims : 4

(54) Title of the invention : Deep learning based Artery Deposition Analysis using Segmentation and CNN Classification

<p>(51) International classification :A61B0005000000, A61B0005045200, A61B0005020000, C07D0239340000, A61B0005046800</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.C.P.CHANDRAN Address of Applicant :ASSOCIATE PROFESSOR, COMPUTER SCIENCE, AYYA NADAR JANAKI AMMAL COLLEGE (Autonomous), SIVAKASI- 626 124, TAMILNADU ----- 2)Mrs.S.RAJATHI 3)Mrs.G.PANDISELVI Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.C.P.CHANDRAN Address of Applicant :ASSOCIATE PROFESSOR, COMPUTER SCIENCE, AYYA NADAR JANAKI AMMAL COLLEGE (Autonomous), SIVAKASI- 626 124, TAMILNADU ----- ----- 2)Mrs.S.RAJATHI Address of Applicant :ASSISTANT PROFESSOR, COMPUTER SCIENCE, M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN, DINDIGUL- 624 001, TAMILNADU ----- ----- 3)Mrs.G.PANDISELVI Address of Applicant :ASSISTANT PROFESSOR, COMPUTER SCIENCE, AYYA NADAR JANAKI AMMAL COLLEGE (Autonomous), SIVAKASI, 626 124, TAMILNADU ----- -----</p>
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(57) Abstract :

Deep learning based Artery Deposition Analysis using Segmentation and CNN Classification Abstract: If someone has a problem with their circulatory system, it can be harmful to their health. When an electrocardiogram is performed, it can be used to categorise this disease. ECGs are the most effective way to show how a patient is doing right now, as well as to diagnose and treat a wide range of heart problems. Changes in ECG parameters such as P-waves, QRS complexes, and T-waves can reveal the condition that caused artery deposits. Many artery diseases, which can be fatal, cannot be treated with new arteries. There has to be a way to categorise artery diseases so that they can be identified. In this project, an algorithm known as CNN will be used to classify artery diseases.

No. of Pages : 8 No. of Claims : 8

(54) Title of the invention : Machine Learning based facial and emotional identification techniques for Pharma Applications

(51) International classification :G06K0009000000, G06K0009620000, G08B0013196000, G06K0009660000, G06T0007130000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
 According to the present invention, one way to predict personality traits from a subject person's face image is as follows: a) collecting training images of multiple people for a training proposal, where each training image is linked to metadata describing human personality traits; b) classifying the collected training images into training groups by the linked metadata.

No. of Pages : 22 No. of Claims : 5

(54) Title of the invention : Eco- efficient concretes with incorporation of biomass ash

<p>(51) International classification :C04B0028020000, C04B0040020000, G01N0033380000, G06F0011340000, C04B0028080000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.MAKENDRAN C Address of Applicant :Assistant Professor, Department of Civil Engineering, Road and Transportation Engineering, College of Engineering & Technology, Wollega University P.O.Box 395, Nekemte, Ethiopia. -----</p> <p>2)Dr. K. Parthiban 3)Ms. Ance Mathew 4)Dr.M.Veerapathran 5)Dr.S.Prabakaran 6)AUGASTIN SANTHIYAGU I 7)Dr. P. Prabhu 8)Dr.M.Sivaraja 9)Dr.A.Ramamurthy 10)Dr.M.Ramarao Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.MAKENDRAN C Address of Applicant :Assistant Professor, Department of Civil Engineering, Road and Transportation Engineering, College of Engineering & Technology, Wollega University P.O.Box 395, Nekemte, Ethiopia. -----</p> <p>2)Dr. K. Parthiban Address of Applicant :Senior Assistant Professor, School of Civil Engineering, SASTRA Deemed University, Thanjavur – 613 401. -----</p> <p>3)Ms. Ance Mathew Address of Applicant :Head of the Department, Department of Civil Engineering, St.Joseph’s College of Engineering & Technology, Choondacherry, Palai, Kottayam District- 686579 Kerala -----</p> <p>4)Dr.M.Veerapathran Address of Applicant :Assistant Professor(SG), Department of Civil Engineering, Dr.N.G.P Institute of Technology Coimbatore –641 048. -----</p> <p>5)Dr.S.Prabakaran Address of Applicant :Associate Professor, Department of Mechanical Engineering, Karpagam academy of higher education, Pollachi Main Road, Eachanari Post, Coimbatore-641021 Tamil Nadu. -----</p> <p>6)AUGASTIN SANTHIYAGU I Address of Applicant :Assistant Professor, MAM COLLEGE OF ENGINEERING AND TECHNOLOGY, M.A.M College of Engg. & Tech., Trichy - Chennai Trunk road, Siruganur, Tiruchirappalli- 621105. -----</p> <p>7)Dr. P. Prabhu Address of Applicant :Assistant Professor, DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, Opposite Salem airport, KamalapuramSikkanampatty, Omalur, Tamil Nadu 636309 -----</p> <p>8)Dr.M.Sivaraja Address of Applicant :Professor, Department of Civil Engineering, Nehru Institute of Technology Kaliyapuram, Coimbatore 641105 -----</p> <p>9)Dr.A.Ramamurthy Address of Applicant :Associate Professor, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research Chennai-73 -----</p> <p>10)Dr.M.Ramarao Address of Applicant :Associate Professor, Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai, Tamil Nadu- 600126 -----</p>
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(57) Abstract :

[010] The objective of this work is to evaluate the possibility of producing concrete with improved performance incorporating a high volume of fly ash and having the mentioned aspects. In particular, aspects related to the need to contribute to sustainable development, improving the performance of concrete and manufacturing low-cost concrete, making the product economically competitive. It is intended to achieve the objectives using the incorporation of low cost current materials available in the national market, namely, fly ash. Thus, it is necessary to characterize the mechanical performance and durability of concrete manufactured with reduced amounts of cement and resorting to the additional incorporation of large volumes of fly ash. There are, then, objectives of the work to fulfill, such as trying to understand the effect of the introduction of biomass ash on the characteristics of the concrete, and the effect and necessity of curing in water and curing in water saturated with lime in the concrete. It will also be necessary to carry out tests related to the workability, strength and durability of the concrete. The performance of these tests and the corresponding analysis of results, allowed us to understand the effect of different concrete compositions, analyzing those that achieve better performance in different tests, curing times and types of cure, as well as understanding the reason for the results obtained. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4]

No. of Pages : 27 No. of Claims : 8

(54) Title of the invention : A HYBRID WEB MINING FRAMEWORK FOR USER BEHAVIOUR ANALYSIS

<p>(51) International classification :G06Q0030020000, G06Q0010100000, G06F0016350000, G06N0020000000, G06F0011340000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.N.Pushpa Latha Address of Applicant :Professor, Department Of Computer Science and Engineering , Marri Laxman Reddy Institute of Technology & Management, Dundigal, Hyderabad, Telangana, India , Pin; 500043 -----</p> <p>2)Dr.S.Sai Satyanarayana Reddy 3)Dr.N.Subhash Chandra 4)Dr.K.Venkateswara Reddy Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.N.Pushpa Latha Address of Applicant :Professor, Department Of Computer Science and Engineering , Marri Laxman Reddy Institute of Technology & Management, Dundigal, Hyderabad, Telangana, India , Pin; 500043 -----</p> <p>2)Dr.S.Sai Satyanarayana Reddy Address of Applicant :Professor, Department Of Computer Science and Engineering, Sreyas Institute of Engineering&Technology, Hyderabad, Telangana, India , pin 500065 -----</p> <p>3)Dr.N.Subhash Chandra Address of Applicant :Professor, Department Of Computer Science and Engineering , C.V.R.Engineering College, Hyderabad, Talangana, Pin 501 510 -----</p> <p>4)Dr.K.Venkateswara Reddy Address of Applicant :Professor, Department Of Computer Science and Engineering , Marri Laxman Reddy Institute of Technology & Management, Dundigal, Hyderabad, Telangana, India , Pin; 500043 -----</p>
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(57) Abstract :

In the contemporary era, businesses are driven by web based enterprise applications. Users across the globe can use such applications. Analysing behaviour of users can lead to business intelligence acquisition that helps businesses to make well informed decisions to promote business. The current invention is meant for realizing a hybrid web mining framework for user behaviour analysis. The framework has different modules such as pre-processing, cluster ensemble, user behaviour analysis, hybrid approach and optimization. It takes web log files as input and discover trends or patterns from the data. Such trends of patterns when interpreted result in required business intelligence. The pre-processing module takes care of improving quality of input data. Cluster ensemble module helps in building high quality clusters so as to improve performance of further processing. There are two clustering procedures involved for improving efficiency. They are known as Extensible and Classification by Pattern-Based Hierarchical Clustering (ECPBHC) and Enhanced Multi-Facial Subset Selection Clustering (EMFSSC). User behaviour analysis module is realized using algorithm such as Sequential Web Usage Miner (SWUM) algorithm and another algorithm for representation of multi-view clusters. The hybrid approach module combines the cluster ensemble and user behaviour analysis while the optimization module has mechanisms to obtain most useful patterns. Finally, the framework produces useful information in the form of actionable knowledge or business intelligence that can server organizations to grow. This invention benefits many stakeholders such as organizations that need web users' usage statistics, professional organizations providing usage mining services, researchers and academia.

No. of Pages : 16 No. of Claims : 7

(54) Title of the invention : SIX SIGMA MANAGEMENT TECHNIQUES TO ADVANCE BUSINESS PRACTICES IN MANUFACTURING INDUSTRIES

<p>(51) International classification :G06Q0010060000, G09B0019000000, B21D0053880000, G06Q0030020000, B21B0031020000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.K.Jawahar Rani Address of Applicant :Professor St.Joseph's College of Engineering, Old Mahabalipuram Road, Chennai- 600119, Tamil Nadu, India ----- 2)Dr.M.Anuradha 3)D.Deepika 4)Ms.Ajay Kumari 5)Dr. Niti Saxena 6)Dr.S.NAGASUNDARAM 7)AMEEN BASHA H 8)Dr.G.PURUSHOTHAMAN 9)Dr.A.Geetha 10)Dr.D .D.Paul Dhinakarn Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.K.Jawahar Rani Address of Applicant :Professor St.Joseph's College of Engineering, Old Mahabalipuram Road, Chennai- 600119, Tamil Nadu, India ----- 2)Dr.M.Anuradha Address of Applicant :Assistant Professor & Head : Management Science. Jayagovind Harigopal Agarwal Agarsen College, No:1, Manjambakkam Road, Madhavaram, Chennai- 600060, Tamil Nadu, India ----- 3)D.Deepika Address of Applicant :Assistant Professor, Department of Management Science. Jayagovind Harigopal Agarwal Agarsen College, No:1, Manjambakkam Road, Madhavaram, Chennai- 600060, Tamil Nadu, India ----- 4)Ms.Ajay Kumari Address of Applicant :Research Scholar, University of Madras, Chennai-600001, Tamil Nadu, India ----- 5)Dr. Niti Saxena Address of Applicant :Associate Professor College Name with address: Jagannath International Management School, New Delhi 110019, Delhi, India ----- ----- 6)Dr.S.NAGASUNDARAM Address of Applicant :Assistant Professor Vels University, Pallavaram, Chennai-600117, Tamilnadu, India ----- 7)AMEEN BASHA H Address of Applicant :Assistate Professor The New College (Autonomous) New no: 147 / Old no 87 Peters Rd, Royapettah, Chennai-600014, Tamil Nadu, India --- ----- 8)Dr.G.PURUSHOTHAMAN Address of Applicant :Assistant Professor & HoD of B.Com (A&F) S.A. COLLEGE OF ARTS & SCIENCE, Poonamallee Avadi Main Road, Thiruverkadu, Chennai-600 077, Tamil Nadu, India. ----- 9)Dr.A.Geetha Address of Applicant :Associate Professor and Head Bharath Institute Of Higher Education And Research-600126, Tamilnadu, India ----- 10)Dr.D .D.Paul Dhinakarn Address of Applicant :Asst. Professor, Commerce, Affiliation College: JHA Agarsen College, Chennai-600060, Tamilnadu, India -----</p>
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(57) Abstract :
Abstract: When the Six Sigma method was first used, it was intended to assist large manufacturing companies in maintaining their quality control systems. This quality control system's goal was to improve the manufacturing process while also reducing the number of defects. Later, the Six Sigma method was adopted by a variety of industries all over the world. Consider what Six Sigma is and what it means to produce things in accordance with Six Sigma rules. Lean Six Sigma can help you save money by using a systematic approach to reduce or eliminate non-value-added activities. An important aspect of this method is to eliminate unnecessary procedures and replace them with those that add value. This method ensures both high quality and satisfied customers by paying close attention to even the smallest details, so it's a good idea. When it comes to manufacturing, this chapter discusses Lean Six Sigma (LSS). This section discusses the most important aspects of LSS. In this chapter, we discuss how to use Lean Six Sigma in small and medium-sized businesses, including what it can and cannot do for you, how to tell if your business is ready for Lean Six Sigma, and how to demonstrate how it works using examples from the manufacturing industry. The chapter concludes with conclusions and recommendations for next steps. Those who want to begin the process must be aware of the benefits, challenges, methods, and tools of Lean six sigma implementation. This chapter may be useful to those who work in the field. These common themes can be beneficial to those studying Lean Six Sigma.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001077 A

(19) INDIA

(22) Date of filing of Application :07/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM AND METHOD FOR OBJECT RECOGNITION, COMPUTER EQUIPMENT AND STORAGE MEDIUM

(51) International classification :G06K0009000000, G06K0009620000, G06K0009460000, G06T0019000000, A63F0013837000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Exemplary embodiments of the present disclosure directed towards an object recognition method, device, computer equipment, and storage medium, which can obtain an object recognition model trained based on a second virtual scene sample image and a first virtual scene sample image that has marked the location of a target virtual object: the object recognition method comprising acquiring an image to be recognized, the image to be recognized is an image of a second virtual scene, Obtain a trained object recognition model, extracting a feature map from the image to be recognized based on the feature extraction module, Performing target virtual object detection on the image to be recognized according to the feature map, Determining the predicted position information of the target virtual object in the image to be recognized. FIG.1

No. of Pages : 14 No. of Claims : 2

(54) Title of the invention : EXPERIMENTAL INVESTIGATION OF HRP/INDUSTRIAL WASTE COMPOSITION AS AN AUXILIARY ADDITIVE TO CEMENT AND LIME IN SOIL STABILIZATION

(51) International classification :E02D0003120000, C09K0017060000, E02D0003000000, C09K0017100000, E02D0017200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Synthetic stabilization includes the utilization of chemical molecules for starting responses inside the soil for change of its geotechnical properties. Stabilization of Cement and lime have been the most widely recognized stabilization techniques took on for treating soil. Cement stabilization brings about great compressive qualities and is liked for cohesion less to reasonably durable soil however loses viability when the soil is exceptionally plastic. Lime stabilization is the most favored technique for plastic soil's; nonetheless, it demonstrates to be insufficient in sulfate rich soil's and performs ineffectively under outrageous conditions. With such disadvantages, heaps of investigates have been embraced to resolve the issues confronted with every stabilization technique, specifically, the utilization of strong squanders for soil stabilization. Strong waste reuse has acquired high energy for accomplishing feasible waste administration lately. Research has shown that the utilization of strong squanders as added Chemicals with and trade for ordinary stabilizers has brought about better outcomes than the presentation of either separately. This invention delivers a significant delivery on lime/Cement stabilization with HRP as added substances (Additive) and assists with framing a sound stage for additional examination on HRP as added substances to customary stabilizers.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001084 A

(19) INDIA

(22) Date of filing of Application :08/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : COMPOSITIONS FOR PRINTING AND PAINT FORMULATIONS THEREOF

(51) International classification :A61K0008970000, C08K0005000000, C09D0011101000, C08L0099000000, A23L0025000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The present invention discloses eco-friendly compositions for printing. The composition comprises cashew nut shell liquid (CNSL), a plasticizer and tamarind seed kernel powder (TSKP), wherein a weight percent of CNSL, the plasticizer and TSKP in the composition is in the ratio of 1:1:3.3. The present invention also discloses paint formulations incorporating these eco-friendly compositions and methods for making the same.

No. of Pages : 20 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001085 A

(19) INDIA

(22) Date of filing of Application :08/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHODS FOR PRINTING A SUBSTRATE

<p>(51) International classification :A61K0008970000, G01J0003460000, C09D0175080000, G03C0008560000, B01F0013100000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)PROFESSOR JAYASHANKAR TELANGANA STATE AGRICULTURAL UNIVERSITY Address of Applicant :Rajendranagar, Hyderabad 500030, Telangana, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. SANKU LAKSHMI POOJA Address of Applicant :Scientist, Clothing & Textiles component, AICRP-WIA, PG&RC, Professor Jayashankar Telangana State Agricultural University, Rajendranagar 500 030, Hyderabad, Telangana ----- 2)DR. AALAPATI PADMA Address of Applicant :Principal Scientist & Unit Coordinator (Retd.) AICRP-H.Sc. & University Head, Dept. of APTX, PG&RC, Professor Jayashankar Telangana State Agricultural University, Rajendranagar 500 030, Hyderabad, Telangana ----- 3)DR. JAMKANDI HAYAVADANA Address of Applicant :Professor & Head, Dept. of Textile Technology, College of Technology, University College of Technology, Osmania University, Hyderabad 500007, Telangana ----- 4)DR. VELIVELLI VIJAYA LAKSHMI Address of Applicant :Professor & Head. Dept. of RMCS, College of Community Science, Professor Jayashankar Telangana State Agricultural University, Saifabad – 500 004, Hyderabad, Telangana ----- 5)DR. INTURI RAJITHA Address of Applicant :Associate Professor, dept. of Knitwear Design, National Institute of Fashion Technology, Madhapur 500 081, Hyderabad Telangana -----</p>
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(57) Abstract :

The present invention discloses methods for printing a substrate using eco-friendly paint formulations. The method includes providing a paint formulation comprising cashew nut shell liquid (CNSL), a plasticizer, tamarind seed kernel powder (TSKP), a mordant and a colouring agent wherein a weight percent of CNSL, the plasticizer and TSKP in the formulation is in the ratio of 1:1:3.3. The paint formulation can be applied directly on the substrate to form a print.

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001109 A

(19) INDIA

(22) Date of filing of Application :08/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A SPEECH SIGNAL PROCESSING SYSTEM FOR AUTOMATED VIRTUAL ASSISTANT IN ELECTRONIC GAMING DEVICE AND METHOD THEREOF

<p>(51) International classification :G07F0017320000, G06F0003160000, G10L0015260000, G10L0015220000, G06N0003000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Smt. S. Siva Priyanka Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Kakatiya Institute of Technology & Science, Warangal, Telangana, India. Pin Code:506015 -----</p> <p>2)Dr. Surekha Reddy Bandela Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Smt. S. Siva Priyanka Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Kakatiya Institute of Technology & Science, Warangal, Telangana, India. Pin Code:506015 -----</p> <p>2)Dr. Surekha Reddy Bandela Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Institute of Aeronautical Engineering, Hyderabad, Telangana, India. Pin Code:500043 -----</p>
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(57) Abstract :

ABSTRACT A SPEECH SIGNAL PROCESSING SYSTEM FOR AUTOMATED VIRTUAL ASSISTANT IN ELECTRONIC GAMING DEVICE AND METHOD THEREOF [035] The present invention discloses a speech signal processing system for automated virtual assistant in electronic gaming device and method thereof. The system includes, but not limited to, a video and audio interface adapted to receive and process an input voice signal from user; an artificial intelligence-based interface provided with a processing unit suitable for receiving data communication representing a plurality of game states and game output from the video and audio interface; and a virtual assistant unit to animate an automated virtual assistant on the video and audio interface. Further, a game output console adapted to convert and translate the plurality of game states and game output from the video and audio interface into animated behavior information and animated speech information for input to the virtual assistant unit. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 9

(54) Title of the invention : SMART MASK USING SENSORS AND IoT TO DETECT BLOOD OXYGEN LEVELS OF COVID PATIENTS

(51) International classification :A61B0005145500, A61B0005000000, A61B0005145000, A61M0016100000,
A61B0008120000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
There has been steep rise in the number of COVID cases in India in the recent few years. One of the main indicator of the presence of COVID-19 infection is person is the drop in blood oxygen levels. Decrease in blood oxygen level causes fatigue and shortness of breath, which are considered to be possible preliminary symptoms of COVID. The oxygen levels of a person is determined by measuring the Oxygen Saturation Level (SpO2). The normal SpO2 range is between 95% to 100%. Any value recorded less than 94 is considered to be an indication of low blood oxygen levels. Proposed is a smart mask embedded with a flexible blood oxygen sensor. The sensors are built using Light Emitting Diodes (LEDs) which can glow red and near-infrared light rays to detect the blood oxygen levels. The sensor readings are recorded at sixteen grid points by the smart mask and is same is transmitted to the physician using IoT, thereby enabling 24/7 monitoring of blood oxygen levels of COVID patients.

No. of Pages : 15 No. of Claims : 3

(54) Title of the invention : HERBAL BASED HAND SANITIZER

<p>(51) International classification :A61Q0017000000, A01N0031020000, A61K0008970000, A61Q0019000000, A61Q0019100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mrs. A. Lakshmi Priya Address of Applicant :Assistant Professor, Department of Science and Humanities, Nehru Institute of Engineering & Technology, Nehru Gardens, Thirumalayam Palayam, Coimbatore-641105. Email: priyadaranya@gmail.com Ph:9791759938 -----</p> <p>2)Mrs. S. Jenisha 3)Mrs. D. Tharani Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mrs. A. Lakshmi Priya Address of Applicant :Assistant Professor, Department of Science and Humanities, Nehru Institute of Engineering & Technology, Nehru Gardens, Thirumalayam Palayam, Coimbatore-641105. Email: priyadaranya@gmail.com Ph:9791759938 -----</p> <p>2)Mrs. S. Jenisha Address of Applicant :Assistant Professor, Department of Science and Humanities, Nehru Institute of Engineering & Technology, Nehru Gardens, Thirumalayam Palayam, Coimbatore-641105. Email: jeni.chem@gmail.com Ph:9715937117 -----</p> <p>3)Mrs. D. Tharani Address of Applicant :Assistant Professor, Department of Science and Humanities, Nehru Institute of Engineering & Technology, Nehru Gardens, Thirumalayam Palayam, Coimbatore-641105. Email: tharuskrp@gmail.com Ph:9944396502 -----</p>
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(57) Abstract :

The first and foremost mode of transmission of microbes and infections are hands. Hand hygiene is the important one which has to be noticed in the prevention, control and reduction of infections. Due to COVID pandemic the need of hand sanitizer has increased which causes dryness to hand. Considering the need, we have prepared an herbal sanitizer using plant extracts like Pedalium murex Linn extract and Ocimum Basilium extract in certain proportions with other ingredients including isopropyl alcohol, hydrogen peroxide, glycerol and distilled water. The ingredients were selected on the basis of their antimicrobial and antifungal property. The ingredients and sanitizer were evaluated for antimicrobial and antifungal property. The antimicrobial activity was compared with other commercial hand sanitizer and maximum activity was showed against Klebsiella spp. and minimum against E. coli and P. aeruginosa by all the sanitizer used. The efficiency of hand sanitizer was checked on hands of many volunteers. The sanitizer reduced or eliminated the growth of pathogens isolated from hands. The pH of the sanitizer was maintained to be alkaline with good texture and odor. No turbidity was observed when kept for prolonged days and no skin dryness was observed when used by the volunteers.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : INDEX MODULATION TECHNIQUES FOR 5G WIRELESS NETWORKS

<p>(51) International classification :H04L0027260000, H04B0007060000, H04L0012911000, G06F0016290000, H04W0048180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr Sajeer Address of Applicant :Assistant Professor Department of Computer Science and Engineering MES COLLEGE OF ENGINEERING KUTTIPPURAM Malappuram- 679582, Kerala -----</p> <p>2)Dr Girish Kumar D</p> <p>3)Dr. U. Urathal Alias Sri Swathiga</p> <p>4)Dr. V.Kannan</p> <p>5)Dr .R.Suganya</p> <p>6)Dr.B.KANAMMAI</p> <p>7)Mrs G.Aparna</p> <p>8)Dr Danish Ather</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr Sajeer Address of Applicant :Assistant Professor Department of Computer Science and Engineering MES COLLEGE OF ENGINEERING KUTTIPPURAM Malappuram- 679582, Kerala -----</p> <p>2)Dr Girish Kumar D Address of Applicant :Associate Professor, Artificial Intelligence & Machine Learning, Ballari Institute of Technology & Management, Ballari-583104, Karnataka -----</p> <p>3)Dr. U. Urathal Alias Sri Swathiga Address of Applicant :Assistant Professor, Computer Science, Dharmamurthi Rao Bahadur calavala Cunnan Chetty's Hindu College, Pattabiram, Chennai- 600072, Tamilnadu -----</p> <p>4)Dr. V.Kannan Address of Applicant :Managing director, CLDC Research and Development No.997, Mettupalayam Road, Near X-Cut Signal,R.S.Puram, Coimbatore-641002, Tamilnadu -----</p> <p>5)Dr .R.Suganya Address of Applicant :Assistant professor, Information Technology, Sri Krishna College of technology, Coimbatore- 641042, Tamilnadu -----</p> <p>-----</p> <p>6)Dr.B.KANAMMAI Address of Applicant :ASSOCIATE PROFESSOR SCHOOL OF COMMERCE Department of B.Com(PA) KPR College of Arts Science and Research,, Avinashi Road, Arasur, Coimbatore-641407, Tamilnadu --</p> <p>-----</p> <p>7)Mrs G.Aparna Address of Applicant :Assistant professor , Electronics and Communications Engineering , Geethanjali college of Engineering and Technology , Hyderabad, Telangana -----</p> <p>8)Dr Danish Ather Address of Applicant :Associate Professor School of Engineering and Technology Sharda University Greater Noida, Uttar Pradesh -----</p> <p>-----</p>
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(57) Abstract :

Abstract: New 4G wireless systems are being researched as people demand faster data speeds, better service, and fully mobile wireless networks. Wireless networks ten times more efficient than current fourth-generation networks are expected around 2020. Users with limited mobility can now connect to networks capable of transmitting data at speeds of up to ten gigabits per second. To achieve the 5G network goals, significant changes to the architecture of next-generation systems are required. There have been numerous excellent suggestions for 5G network physical layer design. In this section, we'll talk about MIMO systems which is the most critical aspects of 5G systems in the coming years: This article discusses how spatial modulation techniques and OFDM with IM can be used to improve efficiency of 5G in the near future. It focuses on two promising information management applications: SM and OFDM (OFDM-IM).

No. of Pages : 8 No. of Claims : 8

(54) Title of the invention : ARTIFICIAL INTELLIGENCE TECHNOLOGY BASED INTELLIGENT MOBILE ROBOT SYSTEM

(51) International classification :G05D0001020000, G05D0001000000, B25J0005000000, B25J0009160000, A47L0009120000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Artificial intelligence technology based intelligent mobile robot system Abstract: If the environment is unfamiliar to this sensor-based mobile robot navigation system demonstrated in this paper, it makes no difference. An obstacle-filled environment can be navigated using Sun SPOT technology. In an unknown environment with obstacles, this system allows remote control of a mobile robot's movement. This feature is useful in many situations. Demonstrate the effectiveness and validity of the proposed fuzzy control strategy for a wheeled mobile robot. It avoids obstacles and keeps its speed constant. Khepera, an autonomous mobile robot with a free-range spot, was fitted with the remote method. This is exactly what happened. The results of the experiments and the positive results of avoiding obstacles in unfamiliar environments are used to demonstrate how and how well the sensor-based remote control strategy works.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : Compact Planner antenna for high-speed communication

(51) International classification :H04W0004800000, H01Q0021280000, H01Q0015140000, H01Q0001270000, G06F0030390000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Abstract: As more businesses and residences adopt 2.4 GHz, antenna design has become a source of frustration for many people. Radio frequency (RF) is not the same as low-frequency voltage when it comes to energy transmission. Furthermore, adhering to best practises when designing a board layout for IEEE 802.15.4 and Bluetooth low energy can save time and eliminate errors. This is especially true for antenna design and layout. Customers can improve their chances of passing the first time by reading this application note's explanation of the board layout and antenna design. Factors such as frequency and intended use are taken into account when designing an antenna. It also considers its size and range. Determine which parameters are most important to your application so that appropriate trade-offs can be made to ensure a smooth operation. Many factors must be considered when choosing an antenna, including how it should be tuned and how much power it should be able to gain or lose. This document makes no claim to be an exhaustive study of antenna construction. This guide focuses on teaching customers the fundamentals of board layout and antenna selection so they can choose the best antenna type for their needs if they are unfamiliar with proper board layout. Several well-known antennas are also shown as potential solutions for low energy applications. This document defines some basic antenna terms and explains how they work. Another topic that was thoroughly discussed and explained was how to match the antennas. Several real-world antenna designs were simulated and tested; the results are shown below

No. of Pages : 9 No. of Claims : 7

(54) Title of the invention : VLSI Based Impulse Noise Cancellation to Enhance the Image Quality Visually

<p>(51) International classification :G06T0005000000, G06F0021620000, G06T0005500000, G01S0007520000, H04N0019194000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)T.D.Subha Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering, R.M.K. Engineering College, RSM Nagar, Kavaraipettai Gummidipoondi Taluk, Thiruvallur Dist. Pin: 601206 State: Tamil Nadu Country: India ----- 2)Mr. Arunkumar K 3)Mr. N. Murugan 4)Ms.Selciya Selvan 5)Mr.M. PRAVEEN 6)Dr.R.Remya 7)Dr.L.Poonguzhali 8)Dr.Amirthalakshmi.T.M 9)Mr. Kannan R 10)J.SWORNA JO LJHA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)T.D.Subha Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering, R.M.K. Engineering College, RSM Nagar, Kavaraipettai Gummidipoondi Taluk, Thiruvallur Dist. Pin: 601206 State: Tamil Nadu Country: India ----- 2)Mr. Arunkumar K Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering, Saveetha Engineering college , Chennai, Pin: 602105 State: Tamilnadu Country: India ----- 3)Mr. N. Murugan Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering, Arjun college of technology Coimbatore - Pollachi highway, Thamaraiikulam,Coimbatore,Pin: 642 120 State: Tamilnadu Country: India ----- 4)Ms.Selciya Selvan Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering, Arjun College of Technology, Coimbatore - Pollachi Highway, Thamaraiikulam, Coimbatore Pin: 642 120 State: Tamilnadu Country: India ----- 5)Mr.M. PRAVEEN Address of Applicant :Assistant professor(SG), Department of Electronics and Communication Engineering, Saveetha Engineering college , Chennai Pin: 602105 State: Tamilnadu Country: India ----- 6)Dr.R.Remya Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering, Arunachala college of Engineering for Women, Manavilai Pin: 629203 State: Tamilnadu Country: India ----- 7)Dr.L.Poonguzhali Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Panimalar Institute of Technology, Poonamallee Pin:600123 State: Tamil Nadu Country:India ----- 8)Dr.Amirthalakshmi.T.M Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering, Rajalakshmi Institute of Technology, Kuthambakkam, Chennai 600124 State:Tamilnadu Country:India ----- 9)Mr. Kannan R Address of Applicant :Assistant professor(SG), Department of Electronics and Communication Engineering, Saveetha Engineering college , Chennai Pin: 602105 State: Tamilnadu Country: India ----- 10)J.SWORNA JO LJHA Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering, Arunachala college of Engineering for Women, Manavilai Pin: 629203 State: Tamilnadu Country: India -----</p>
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(57) Abstract :
VLSI Based Impulse Noise Cancellation to Enhance the Image Quality Visually Abstract: During the capture and transmission of images, impulsive noise is a common cause of image loss. In this paper, we show how to quickly and effectively implement a VLSI version of the Adaptive Rank-Order Filter (AROF). This algorithm can be used to reduce noise in images while keeping the image's quality intact. To speed up the filtering process, the AROF VLSI architecture employs pipelining and multiprocessing. Decision Tree Based Denoising technique used to assess the efficiency of the new algorithm.

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : MACHINE LEARNING ALGORITHM FOR PREDICTING DIABETES USING BIG DATA ANALYSIS

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(51) International classification	:G16H0050700000, G01N0033480000, G16H0070200000, G06Q0050220000, A61B0005010000	
(86) International Application No Filing Date	:PCT// :01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Diabetes mellitus is among basic sicknesses and bunches of individuals are experiencing this infection. Age, heftiness, absence of activity, inherited diabetes, living style, terrible eating regimen, hypertension, and so on can cause Diabetes mellitus. Individuals having diabetes have high danger of illnesses like coronary illness, kidney sickness, stroke, eye issue, nerve harm, and so on current practice in medical clinic is to gather required data for diabetes finding through different tests and suitable therapy has given dependent on conclusion. Enormous Data Analytics assumes a huge part in medical services ventures. Medical services businesses have enormous volume data sets. Utilizing enormous information examination one can study immense datasets and track down secret data, stowed away examples to find information from the information and anticipate results appropriately. In existing strategy, the characterization and forecast exactness is not high. In this paper, we have proposed a diabetes expectation model for better characterization of diabetes, which incorporates not many outer elements liable for diabetes alongside ordinary elements like Glucose, BMI, Age, Insulin, and so forth Grouping precision is helped with new dataset contrasted with existing dataset. Further, with forced a pipeline model for diabetes forecast planned towards working on the precision of characterization.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : Small Traders' Perception Towards Corporate Retailing

<p>(51) International classification :G06Q0030020000, G06K0009000000, G06F0016904000, G06Q0010060000, H01J0037260000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. D. Ravindran Address of Applicant :Assistant Professor, Kristu Jayanti College (Autonomous), Kothanur Post, K.Narayanapura, Bangalore- 560077, Karnataka --- ----- 2)Dr.Veldandi Ramchander Rao 3)Dr. Krithika. M 4)Dr. Rakesh Kumar Yadav 5)Dr. P. Karthikeyan 6)Dr. S. Thandayuthapani 7)Dr. SP. Karuppiah 8)Dr. D. Murugan 9)Dr. A. Rajeswari 10)Dr. D. Joel Jebadurai Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. D. Ravindran Address of Applicant :Assistant Professor, Kristu Jayanti College (Autonomous), Kothanur Post, K.Narayanapura, Bangalore- 560077, Karnataka ----- - 2)Dr.Veldandi Ramchander Rao Address of Applicant :Professor and Principal, Vaageswari Institute of Management Sciences, Beside LMD Police Station Ramakrishna Colony, Timmapur, Karimnagar-505481, Telangana. ----- 3)Dr. Krithika. M Address of Applicant :Assistant Professor (SG), Institute of Science and Humanities, Saveetha School of Engineering Chennai- 600105, Tamil Nadu ----- ----- 4)Dr. Rakesh Kumar Yadav Address of Applicant :Professor, School of Business Management, IFTM University, Lodhipur Rajput, (NH-24) Moradabad- 244102, Uttar Pradesh. ----- ----- 5)Dr. P. Karthikeyan Address of Applicant :Associate Professor, Department of Management Studies, Periyar University PG Extension Centre, Dharmapuri- 636701, Tamil Nadu. ----- ----- 6)Dr. S. Thandayuthapani Address of Applicant :Assistant Professor, Department of MBA, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, No.42, Avadi-Vel Tech Road, Poonamallee - Avadi High Rd, Vel Nagar, Chennai-600062, Tamil Nadu. ----- 7)Dr. SP. Karuppiah Address of Applicant :Assistant Professor, Department of MBA, St.Joseph's College of Engineering, OMR, Chennai- 600119, Tamil Nadu ----- 8)Dr. D. Murugan Address of Applicant :Assistant Professor, Department of Business Studies, Hindustan College of Arts & Science, Padur, Chennai- 603103, Tamil Nadu ----- ----- 9)Dr. A. Rajeswari Address of Applicant :Assistant Professor, Department of Business Administration, JP College of Arts and Science, Agarakattu, Tenkasi Dist- 627852, Tamil Nadu ----- 10)Dr. D. Joel Jebadurai Address of Applicant :Assistant Professor, Department of MBA, St.Joseph's College of Engineering, OMR, Chennai- 600119, Tamil Nadu -----</p>
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(57) Abstract :
[011] The current study seeks to examine the impact of corporate retailing on consumers and small businesses in Tamil Nadu. This study is limited to three major retail divisions: food and groceries, fashion and accessories and pharmaceuticals. All three retail segments account for approximately 55 percent of retail sales in recent years. The current study is limited to three corporate retailers, Reliance Fresh, McMart and Himalaya Pharmaceuticals. In the current work, the factors that motivate consumers to like corporate retail outlets, their level of satisfaction with the work of corporate retailers and the perceived impact of consumers and small retailers on corporate retail outlets are mainly emphasized.

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001176 A

(19) INDIA

(22) Date of filing of Application :09/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : IOT BASED SMART CRADLE USING RASPERRY PI

(51) International classification :H04N0007180000, A61K0036730000, A47D0009000000, G06Q0050000000, G08B0025080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The system is based on raspberry pi in which any one of the saved values differs, it alerts the parents. This raspberry pi also gives instruction to the video camera attached with the system and the video will be recorded when the baby’s movements is monitored continuously. The monitoring video will be displayed live on the monitor. At present, females have started working in industrialized sectors which in turn affects the child care in the families. Since nowadays managing the cost of living has become difficult, females started working which has affected their children’s care.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : TUBERCULOSIS DETECTION USING ARTIFICIAL INTELLIGENCE (AI)

(51) International classification :G06N0003040000, G06K0009620000, G06N0003080000, G06T0007000000, G06K0009660000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 7. ABSTRACT Tuberculosis (TB), a potentially serious infectious lung disease, continues to be a leading cause of worldwide death. Proven to be conveniently efficient and cost-effective, chest X-ray (CXR) has become the preliminary medical imaging tool for detecting TB. The need to strengthen the treatment and screening in TB affected countries. In this proposal, a systematic review is carried on deep learning-based Computer-Aided Diagnostic (CAD) systems that are used to analyze chest X-rays for diagnosing pulmonary tuberculosis (TB). Deep learning has recently become one of the most successful techniques, particularly in the analysis of medical images. In Deep learning Convolutional Neural Networks (CNNs) are widely used for TB detection. A CNN model is commonly comprised of convolutional layers, sub-sampling/ pooling layers, and fully connected layers. By assembling the individual CNN models, the classification accuracy of CXRs is further improved. Moreover, each model presents an unstable and unpredictable performance on different datasets and for different classification tasks. The Figure associated with Abstract is Fig 3.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : A BATTERY MANAGEMENT SYSTEM FOR ELECTRIC VEHICLES

(51) International classification :B60L0058130000, B60R0016023000, B60R0025000000, H02J0007350000, B60L0053650000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

7. ABSTRACT Present invention relates to a Battery Management System (1) (BMS) for electric vehicles, wherein the said electric vehicle comprises a battery, an electric motor, and a transceiver. The said system (1) comprises a main controller (9), a power management module (2), a High Voltage (HV) power interface module (3), a control unit (4), a battery management module (4), a battery pack (6), one or more interface units (7), and wired connectivity module (8). The said main controller (9) configured to control flow of charge between said battery and said electric motor at least in part in response to information received by said transceiver. The said controller (9) is configured to receive, via said transceiver, information related to a charge portion and to control operation of said battery based on a difference between said charge portion and accumulated charge drawn since receiving said information related to said charge portion. The Figure associated with Abstract is Fig 1.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001181 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A METHOD AND DEVICE OF UNDERGROUND MINE DETECTING ROBOT USING SENSOR NETWORK

<p>(51) International classification :G05D0001020000, B25J0009160000, E21F0017180000, G06Q0050020000, E21F0011000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)The Principal Francis Xavier Engineering College Tirunelveli Address of Applicant :The Principal, Francis Xavier Engineering College, Tirunelveli – 627003 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. N. Muthukumar Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr. N. Muthukumar, Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. -----</p> <p>2)Dr. K.Lakshmi Narayanan Associate Professor Department of Electronics and Communication Engineering Francis Xavier Engineering College Tirunelveli Address of Applicant :Dr. K.Lakshmi Narayanan, Associate Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli - 627003, Tamil Nadu, India. -----</p> <p>3)Dr. G.Rajakumar Professor Department of Electronics and Communication Engineering Address of Applicant :Dr. G.Rajakumar, Professor, Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli -627003, Tamil Nadu, India. ---- -----</p>
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(57) Abstract :

Work on the design of an underground mine detection robot, using sensor networks, to detect and transmit the ambient characteristics of the mining environment. To address mining environmental disasters, we are developing a robotic monitor, a safety measure for mine workers that is most essential in underground mining areas. In this design, the system is built using various sensor networks which is based on the Arduino UNO microcontroller, which is used to monitor the parameters around the underground mine and communicate the information to the mine workers. Here, the goal is to establish an efficient wireless communication between transceivers in a challenging underground medium. Using magnetic induction based transmission through soil. For this soil transceiver is selected for communication inside the mine.

No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : Cultivating functional crops using nano organic composition and method thereof

<p>(51) International classification :B82Y003000000, H01L0051000000, A61K0031280000, C07F0007300000, A61K0008580000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. J. Madhusudhanan Address of Applicant :Professor and Head of the Department, Department of BioTechnology, Anand Institute of Higher Technology, Flat No G3, Cindhya Manor, Rajendran Street, M.A.V.Rajapandian Avenue, Sembakkam, Chennai, TamilNadu, India, Pincode: 600073 -----</p> <p>2)Mr. Sudhama. V. N. 3)Dr. Anil Kumar 4)Ms. S.S. Kerur 5)Dr. Vinayaka K.S. 6)Mr. Santosh S. Nandi 7)Dr. Wasudeo Balaji Gurnule 8)Dr Sumanta Bhattacharya 9)Dr.K.Sreelatha 10)Dr. Moumita Saha Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. J. Madhusudhanan Address of Applicant :Professor and Head of the Department, Department of BioTechnology, Anand Institute of Higher Technology, Flat No G3, Cindhya Manor, Rajendran Street, M.A.V.Rajapandian Avenue, Sembakkam, Chennai, TamilNadu, India, Pincode: 600073 -----</p> <p>2)Mr. Sudhama. V. N. Address of Applicant :Assistant Professor, Department of P.G. Studies in Botany, I.D.S.G. Government College, Chikkamagaluru, Karnataka, India, Pincode: 577102 -----</p> <p>3)Dr. Anil Kumar Address of Applicant :Ex Research Scholar, Department of Botany, DDU, Gorakhpur University, Gorakhpur, Uttar Pradesh, India, Pincode: 273009 -----</p> <p>4)Ms. S.S. Kerur Address of Applicant :Assistant Professor, Department of Chemistry, KLE Dr. M.S. Sheshagiri College of Engineering and Technology, Belagavi, Karnataka, India, Pincode-590008 -----</p> <p>5)Dr. Vinayaka K.S. Address of Applicant :Assistant Professor, Department of Botany, Sri Venkataramana Swamy College, Bantwal, Dakshina Kannada, Karnataka, India, Pincode: 574211 -----</p> <p>6)Mr. Santosh S. Nandi Address of Applicant :Assistant Professor, Department of Chemistry, KLE Dr. M.S. Sheshagiri College of Engineering and Technology, Belagavi, Karnataka, India, Pincode-590008 -----</p> <p>7)Dr. Wasudeo Balaji Gurnule Address of Applicant :Professor, Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur, Maharashtra, India, Pincode: 440024 -----</p> <p>8)Dr Sumanta Bhattacharya Address of Applicant :Research Scholar, Textile Technology, Maulana Abul Kalam Azad University of Technology, Howrah, West Bengal, India, Pincode: 711106 -----</p> <p>9)Dr.K.Sreelatha Address of Applicant :Associate Professor in Physics, Ch.S.D.St.Theresa's College for Women (A), Eluru, West Godavari, Andhra Pradesh, India Pincode-534003 ----</p> <p>10)Dr. Moumita Saha Address of Applicant :Research Scholar, Department of Botany, Tripura University (A Central University), Suryamani Nagar, Agartala, Tripura, India, Pincode: 799022 -----</p>
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(57) Abstract :

In the present invention, a method for cultivating functional crops using nano organic germanium and nano organic selenium is disclosed, in which nano-sized organic germanium and nano-sized organic selenium, which are prepared in nanoscale sizes by performing one or more selected from a method for applying physical energy (heat or pressure) to organic germanium and organic selenium, a method for applying explosive electrical energy to organic germanium and organic selenium, and a chemical bonding process, are irrigated.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001188 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : PLANT MEDIATED NANO-HYDOXYAPATITE BASED WOUND HEALING GEL

(51) International classification :A61K0036280000, A61K0036190000, A61L0015460000, A61L0027120000, B82Y0030000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Gel is a semi solid, soft three-dimensional crosslinked network within the liquid. Wound healing is a multi-step process that restores the functional and structural qualities of damaged tissue. A prevalent weed found in India's rice fields is Tridax procumbens L. (Compositac). The juice of Tridax procumbens leaves has traditionally been used to cure cutaneous wounds. Nanohydroxyapatite has many diverse biomedical applications due to its biocompatibility, bioactivity and its unique property creates chemical bonding to bone with resultant decrease in inflammation and is nontoxic with the resultant stimulation of osteoblasts with bone formation. In this present investigation we analysed Tridax procumbens based Hydroxy apatite nanoparticles for the preparation of wound healing gel. UV-Vis spectroscopy, Fournier transform infrared spectroscopy, spreadability, syringability were used for its characterization. The synthesized nanoparticle exhibits a maximum wavelength of within 360 nm after 24 h. Tridax Procumbens mediated nano hydroxyapaptite gel pave a new path for wound healing with its effective cytotoxicity, anti-inflammatory activity and scavenging activity.

No. of Pages : 7 No. of Claims : 4

(54) Title of the invention : DESIGNING HELMET BY ATTACHING GADGETS FOR ENHANCING THE SAFETY OF RIDER AND PILLION RIDER

(51) International classification :G08B0021060000, B60K0028060000, B62J0001140000, G06Q0010060000, B62J0027000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :
 Over a lakh of people were killed in road accidents, which is more than the number of people killed in the war. Motorcyclists are also at a greater risk of a fatal accident per kilometer travelled. Over 37% of fatal accidents are caused by drowsy riders. In that 2% is caused due to Pillion riders falling asleep. There are numerous devices out in market to wake up rider who have fallen asleep. In this project we are attempting to develop a solution in order to wake up the pillion rider who has fallen asleep in motorbike which is equally dangerous as sleeping drivers. Over 93% of Pillion Rider fait asleep and takes a micro sleep during a long drive. The drowsiness of the Pillion rider makes him fall from the bike, drag the driver with him or the bike may be unable to control which causes accidents, so using this jacket and gadgets will help the rider and pillion rider from fatal accidents.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001215 A

(19) INDIA

(22) Date of filing of Application :10/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Wheelchair Lift for Passenger Vehicles

<p>(51) International classification :A61G0003060000, A61G0005100000, B60P0001440000, A61G0005000000, B60N0003000000</p> <p>(86) International Application No :PCT// / Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Tapco Pneumatics Pvt. Ltd. Address of Applicant :No. 296-A, Sector II, Second Street, Sidco Industrial Estate, Ambattur Industrial Estate (North Phase), Chennai - 600098 (TamilNadu, India) -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Sudhakar V Address of Applicant :No. 296-A, Sector II, Second Street, Sidco Industrial Estate, Ambattur Industrial Estate (North Phase), Chennai - 600098 (TamilNadu, India) -----</p> <p>2)Shyama Charan Shukla Address of Applicant :No. 296-A, Sector II, Second Street, Sidco Industrial Estate, Ambattur Industrial Estate (North Phase), Chennai - 600098 (TamilNadu, India) -----</p>
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(57) Abstract :

Title: Wheelchair lift for passenger vehicles The present invention discloses a wheelchair lift for passenger vehicles comprising parts such as a mounting assembly (400); a platform assembly (200); a guiding assembly having combined bearing and profile (600); a hydraulic cylinder (700) to give a unidirectional force for up and down motion of the platform; an electrical control panel (803); a pendent box stowed on a wall mounted clip inside the vehicle; a safety lock (900) and a safety flap (1000) whereby the platform assembly (200) can be automatically unfolded and deployed at entry level position in a horizontal orientation, and further moved to ground level position in the unfolded condition and inversely, and automatically folded and stowed at stowed position in a vertical orientation adjacent to the vehicle opening. Fig. of Abstract – Fig. 1

No. of Pages : 28 No. of Claims : 7

(54) Title of the invention : Recommendations and organization system of breast-cancer detection using machine learning technique

<p>(51) International classification :G01N0033574000, G06T0007000000, G06K0009620000, G16H0050200000, G16H0050700000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mrs. Saraswathi.T Address of Applicant :Assistant professor Easwari Engineering college Ramapuram, chennai-89, Tamilnadu, India ----- 2)Mr.THAMBA MESHACH W 3)Ravi Kumar Barwal 4)Dr Neeraj Raheja 5)Ashok 6)Ranjith S 7)Mr.Amit Vilasrao Pondkule 8)Dr Pankaj Kumar 9)S Shanthini 10)Dr. Brijesh Sathian 11)Seema Grewal Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mrs. Saraswathi.T Address of Applicant :Assistant professor Easwari Engineering college Ramapuram, chennai-89, Tamilnadu, India ----- 2)Mr.THAMBA MESHACH W Address of Applicant :Associate Professor Department of Computer Science and Engineering , Prathyusha Engineering College Thiruvallur, Chennai, Tamilnadu, India ----- 3)Ravi Kumar Barwal Address of Applicant :Research Scholar Maharishi Markendeswar (Deemed to be university) Mullana (Ambala), Haryana, India ----- 4)Dr Neeraj Raheja Address of Applicant :Assistant Professor Maharishi Markendeswar (Deemed to be university) Mullana Ambala, Haryana, India ----- 5)Ashok Address of Applicant :Assistant Professor Govt PG College Ambala Cantt Ambala, Haryana, India ----- 6)Ranjith S Address of Applicant :Assistant professor Jeppiaar engineering college Jeppiaar nagar, Semencherry Rajivi Gandhi salai,OMR Chennai, Tamilnadu, India ----- 7)Mr.Amit Vilasrao Pondkule Address of Applicant :Academic Incharge Dattakala College of Pharmacy Baramati Dist Pune, Maharashtra, India ----- 8)Dr Pankaj Kumar Address of Applicant :Assistant Professor Govt college for women shahzadpur Ambala, Haryana, India ----- 9)S Shanthini Address of Applicant :Assistant Professor Department of Computer Science and Engineering, St. Joseph's College of Engineering, (Autonomous) ,Anna university OMR, Chennai 600119, Tamilnadu, India ----- 10)Dr. Brijesh Sathian Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar ----- 11)Seema Grewal Address of Applicant :Assistant Professor, Government College Barwala Panchkula, affiliated with Kurukshetra University, Kurukshetra, Haryana -----</p>
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(57) Abstract :
Recommendations and organization system of breast-cancer detection using machine learning technique Abstract: Due to the fact that Breast cancer has developed into a major public health issue in the modern world, individuals must exercise caution. Individuals diagnosed with breast cancer early have a better chance of survival because they can begin treatment immediately. Patients can avoid unnecessary treatments, for example, if physicians correctly classify benign tumours in the first place. Much research has been conducted to determine the correct diagnosis and classification of BC. Additionally, it is beneficial to determine whether or not a patient has cancer. Machine learning (ML) has become the de facto method for classifying and forecasting BC patterns due to its unmatched ability to discover significant features in complex BC datasets. They may be beneficial to those who organise or classify data using classification and data mining methods. For example, in the medical field, these techniques are frequently used to ascertain what is occurring and reach conclusions. When malignant, cancerous lumps form in the breast tissue, the cancer spreads. Doctors may mistakenly diagnose a benign tumour as cancerous when it is not. Breast cancer detection systems must exist. These computer-aided detection (CAD) systems must incorporate ML techniques. Breast cancer patients now have a better chance of survival if they are diagnosed early enough, owing to improved treatment options. To maximise their effectiveness, dimension reduction and machine learning should be used in conjunction. Breast cancer is then detected using the Support Vector Machine algorithm.

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : COMPOSITE MATERIALS BASED ROOFING SYSTEM WITH EFFECTIVE, ECO-FRIENDLY AND MINIMUM MAINTENANCE COSTS

<p>(51) International classification :C08J0005040000, C08L0097020000, C04B0018240000, C08L0029040000, B29K0311100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR.G.KOUSALYADEVI Address of Applicant : ASSISTANT PROFESSOR, ARCHITECTURE AND INTERIOR DESIGN, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY CHENNAI-603203, TAMILNADU. -----</p> <p>2)Dr. K. Chandrasekhar Reddy 3)Dr :Vidyapriya.V 4)Dr. R. HARIHARAN 5)P.Diwahar 6)Dr. Sridhar Sathyanarayana 7)Dr. Nisha Rana 8)Dr. Nirajkumar Mehta 9)Mr RAJSHEKHAR YERGOL 10)Dr. V.Kannan Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR.G.KOUSALYADEVI Address of Applicant :ASSISTANT PROFESSOR, ARCHITECTURE AND INTERIOR DESIGN, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY CHENNAI-603203, TAMILNADU. -----</p> <p>2)Dr. K. Chandrasekhar Reddy Address of Applicant :Professor & Principal, Civil Engineering, INSTITUTE OF ENGINEERING & TECHNOLOGY, PUTTUR, CHITTOOR-517583, ANDHRA PRADESH. -----</p> <p>3)Dr :Vidyapriya.V Address of Applicant :Assistant Professor , Civil Engineering , SRM Easwari Engineering College , Chennai - 600 059, TamilNadu. -----</p> <p>4)Dr. R. HARIHARAN Address of Applicant :Assistant Professor,Chemistry,Pachaiyappa's College, Chennai – 600 030, TamilNadu. -----</p> <p>5)P.Diwahar Address of Applicant :RESEARCH SCHOLAR , DEPARTMENT OF PLASTIC TECHNOLOGY , CENTRAL INSTITUTE OF PETROCHEMICAL ENGINEERING AND TECHNOLOGY , CHENNAI, TAMILNADU. -----</p> <p>6)Dr. Sridhar Sathyanarayana Address of Applicant :Professor (former), Mechanical Engineering, Channabasaveshwara Institute of Technology, Tumkur-572216, Karnataka. -----</p> <p>7)Dr. Nisha Rana Address of Applicant :Assistant Professor, Zoology, eral Verma Subharti College of Science, Swami Vivekanand Subharti University Meerut-250005, Uttar Pradesh. -----</p> <p>8)Dr. Nirajkumar Mehta Address of Applicant :Associate Professor , Mechanical Engineering , ITM (SLS) Baroda University , Vadodara-390008, Gujara.t -----</p> <p>9)Mr RAJSHEKHAR YERGOL Address of Applicant :Associate Professor , Department of Civil Engineering, Sharmbasva University Sharan Nagar Kalaburagi – 585103, Karnataka. -----</p> <p>10)Dr. V.Kannan Address of Applicant :Managing director, CLDC Research and Development No.997, Mettupalayam Road, Near X-Cut Signal,R.S.Puram, Coimbatore-641002, Tamilnadu. -----</p>
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(57) Abstract :

Abstract: As people become more environmentally conscious, there is an increase in research and development into environmentally friendly materials. Materials that are environmentally friendly and renewable have never been more popular. People are also becoming more interested in materials that make better use of renewable resources. Natural fibre composite materials are becoming increasingly popular as a result of the environmental issues associated with petroleum-based products and the need to develop more environmentally friendly alternatives. Lower fibre costs, lighter weight, and a desire to create environmentally friendly products have accelerated the development of new natural-composite materials. Natural fibres are increasingly being used in composites by academics and researchers due to their environmental friendliness and durability. Natural fibre composites were created to reduce the use of nonrenewable resources as well as the high cost of synthetic fibres with a high density. Because of how easily fibres can be worked and used, they are also very easy to handle. When there aren't enough fibres, such as steel fibres, the problem arises. This is why incorporating a variety of fibres into your project is critical. One of the main disadvantages of natural fibres in composites is that they do not integrate well with the matrix and absorb a lot of moisture. As a result, chemical treatments to change the surface properties of the fibre are being considered. Natural fibres are frequently used as reinforcement in composites such as cement paste, mortar, and concrete to improve tensile, shear, and toughness properties. This is due to the fact that natural fibres are less expensive than synthetic fibres. Natural fibres must be thoroughly studied before any conclusions about their suitability for use in composite materials for any of the aforementioned purposes can be made.

No. of Pages : 9 No. of Claims : 8

(54) Title of the invention : Artificial intelligence and Machine Learning based intelligent system to improve the quality of Video Call Experience

(51) International classification :G06N0020000000, H04N0021442000, H04N0021845000, H04N0021433000, G06Q0030020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Artificial intelligence and Machine Learning based intelligent system to improve the quality of Video Call Experience Abstract: It is more important than ever to deliver content in a way that provides a positive user experience. This is due to the rapid growth of online video broadcasting. The paper created a machine learning model that can be used in real time and is regularly updated to predict the quality of experience provided by online video systems (QoE). This was accomplished by creating a platform that simultaneously broadcasts video content to a large number of people while also collecting and storing objective video metrics. Following each video, viewers are asked to fill out a short survey about their emotions. To maintain the accuracy of training data for machine learning models, video metrics and qualitative data are used (user surveys). The proposed system for estimating Quality of Experience has a mean error rate of 12–15%. Furthermore, it has a precision range of 12 to 15%. Use this method to quickly respond to questions about how to predict user experience for any online video delivery system, while avoiding the difficulties associated with quantifying subjective consumer experience with numerical metrics. Because computer networks share resources between in-advance (BA) and on-the-fly (OD) reservations, IR calls frequently have high preemption rates (IR). A network with Quality of Service (QoS) features does not perform well when there are numerous IR call preemptions. A tuning parameter is used by many of these models to achieve the desired preemption frequency. This article shows how to use an ANN model to change the rate at which ongoing calls are preempted.

No. of Pages : 11 No. of Claims : 8

(54) Title of the invention : Human Activity Tracking and Monitoring for Healthcare System using Faster Encryption of IoT Sensor

<p>(51) International classification :H04L0009000000, A61B0005000000, A61B0005110000, A61B0005020500, A61B0005024000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms. B.Sathya Bama, SRM Institute of Science and Technology Address of Applicant :Assistant Professor, Department of Information Technology, SRM Institute of Science and Technology, Ramapuram Campus, Chennai- 600089 ----- -- 2)Dr.N.KUMARAN, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya 3)Dr. K. LOKESHWARAN, C. Abdul Hakeem College of Engineering and Technology 4)Mr.A RIZWANBASHA, Jeppiaar Institute of Technology 5)Mrs.E.PADMA, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya 6)Dr.C.SUNITHA RAM, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya 7)Dr.S.GOKULAKRISHNAN, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Ms. B.Sathya Bama, SRM Institute of Science and Technology Address of Applicant :Assistant Professor, Department of Information Technology, SRM Institute of Science and Technology, Ramapuram Campus, Chennai- 600089 ----- -- 2)Dr.N.KUMARAN, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya Address of Applicant :Assistant Professor, CSE DEPARTMENT, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya (Deemed to be University), KANCHIPURAM, TAMILNADU-631561 ----- 3)Dr. K. LOKESHWARAN, C. Abdul Hakeem College of Engineering and Technology Address of Applicant :Associate Professor and Head, CSE Department, C. Abdul Hakeem College of Engineering and Technology, Melvisharam, Tamilnadu-632509 ----- 4)Mr.A RIZWANBASHA, Jeppiaar Institute of Technology Address of Applicant :Assistant Professor, Department of Information Technology, Jeppiaar Institute of Technology , Kunnam, Sunguvarchatram, Sriperumbudur -631604 ----- --- 5)Mrs.E.PADMA, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya Address of Applicant :Assistant Professor, CSE Department, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya (Deemed to be University), Kanchipuram, Tamilnadu-631561 ----- 6)Dr.C.SUNITHA RAM, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya Address of Applicant :Assistant Professor, CSE Department, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, (Deemed to be University) Kanchipuram, Tamilnadu-631561 ----- 7)Dr.S.GOKULAKRISHNAN, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya Address of Applicant :Assistant Professor, CSE Department, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, (Deemed to be University) Kanchipuram, Tamilnadu-631561 -----</p>
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(57) Abstract :
IoT is widely used in a variety of applications. In the healthcare system, the Internet of Things (IoT) plays a critical role in connecting doctors and patients using health monitoring devices. This is very cost-effective and beneficial for the elderly and disabled. There are various methods for monitoring the well-being of the elderly, and in this method, we compare various data mining methods that are used from data obtained from smart metres, appliance usage, and video surveillance, as well as their prediction accuracy. Wearable sensor-based human physical activity recognition. This is further extended to an IoT platform, which is based on a web-based application that integrates wearable sensors, smartphones, and activity recognition. To accomplish this, a smartphone collects data from wearable sensors and sends it to a server for processing and activity recognition. We gathered a unique data set of indoor and outdoor physical activities. The participants are of both genders, and the number of participants per activity varies. During these activities, the wearable sensors use accelerometers, gyroscopes, magnetometers, pressure, and temperature to measure various body parameters. These statistics and measurements are then represented in features vectors, which are used to train and test supervised machine learning algorithms (classifiers) for activity recognition. Using the WEKA machine learning suite, we evaluate several well-known classifiers such as random forests, support vector machines, and many others on the given data set and FHE has demonstrated the ability to run a computation without performing data decryption in a secure manner. Many authors have demonstrated the practical implementation of Somewhat Homomorphic Encryption (SHE) or Fully Homomorphic Encryption (FHE), schemes on both the addition and multiplication operations for SHE. To increase the computation power required by SHE methods, recent methods for implementing FHE methods completely rely on arbitrarily reducing the time taken to perform the encrypted multiplication operation.

No. of Pages : 6 No. of Claims : 2

(54) Title of the invention : Estimation of mineralogical clays by unmixing of hyperspectral images of 3 study sites at very high spatial resolution

(51) International classification :B07C0005340000, D21G0009000000, A61K0008810000, G01P0021020000, G01N0033220000

(86) International Application No :PCT// Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA Filing Date :NA

(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :
 [16] The objective of this work is twofold: • In the first part, the question of the choice of mixing poles arose. In fact, the estimation methods by disentangling are dependent on the spectra of the pure minerals input to the models. If these are not known, methods of detecting the mixing poles are used in order to identify them. If, on the contrary, the Mixing Poles (MPs) are known, the spectra come from spectral libraries such as the USGS library or pure mineral spectra taken from our laboratory data set. • In a second part, the performances of several demixing methods are compared to estimate each type of clay and more particularly that of montmorillonite.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001373 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : UNDERWATER SHIP SECURITY SYSTEM

(51) International classification :B63B0017000000, G05D0001000000, H02J0007350000, B63H0023020000, B60L0015200000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

Underwater ship security system comprises of in that remote operated vehicle and remote control, wherein the said remote operated vehicle comprises sensors and camera that are connected to arduino UNO and raspberry Pi which are connected to speed controller, battery bank, voltage divider, relays for direction control and motor, wherein the said remote control comprises LAN hub, laptop, touch screen and user that is connected to raspberry Pi. The present invention is a compact and easy technology.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001394 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A DIGITALLY ASSISTED 28GHZ CMOS VGLNA FOR 5G COMMUNICATIONS

(51) International classification :H03F0001320000, H03G0003300000, H04B0001180000, H04B0001100000, H03F0001260000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 A 28GHz two stage low noise amplifier (LNA) is proposed with envelope detection technique for power reduction (21.62%) and tuneable negative feedback capacitor for gain variation in 40nm CMOS technology. The envelope detection circuit turn-on the second half of the LNA by the RF signal input received at the first stage. The default gain is increased (31.53%) by the tuneable negative feedback capacitor circuit of the LNA with the control voltage from 0 to 1V. The received signal strength is sensed and processed by a digital signal processor to vary the control voltage for achieving higher sensitivity. In addition, 6.22GHz of bandwidth is achieved with the tuneable gain from 20.3dB to 26.7dB. The first stage of the LNA is designed with the inductive source degeneration for the noise reduction, and the multiple-gate topology is involved in the second stage to improve the linearity.

No. of Pages : 15 No. of Claims : 4

(54) Title of the invention : BRAIN CONTROLLED AUTOMATED WHEEL CHAIR FOR THE PATIENTS WITH CONTINUOUS READING OF BRAIN WAVES WITH WITH THE HELP OF BRAIN TO COMPUTER INTERFACE TECHNOLOGY

<p>(51) International classification :A61G0005100000, G06F0003010000, A61B0005000000, A61B0005110000, A61F0004000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1) Dr. D. LAKSHMI Address of Applicant :NO.3, MEENAKSHI NAGAR, (NEAR RAMANATHA ESHWAR TEMPLE), PORUR, CHENNAI 600 119. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. D. LAKSHMI Address of Applicant :NO.3, MEENAKSHI NAGAR, (NEAR RAMANATHA ESHWAR TEMPLE), PORUR, CHENNAI 600 119. -----</p> <p>2)Dr. I. JOHNSI STELLA Address of Applicant :F3, OAK TREE APARTMENT, KAZHIPATTUR, CHENNAI, TAMIL NADU, INDIA, 603 103 - -----</p> <p>3)SHIRLEY SELVAN Address of Applicant :NO.39, FIRST MAIN ROAD, AGS COLONY, CHENNAI, TAMIL NADU, INDIA, 600 042 -----</p> <p>4)E. MALARIZHI Address of Applicant : 10/33, FIRST FLOOR, NAIDU STREET, 3RD LANE, KOTTUR, CHENNAI, TAMIL NADU, INDIA, 600 085 -----</p>
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(57) Abstract :

In current culture, there are still more people who suffer from paralytic disorders, which lead them to be unable to communicate, move physically, or express their daily basic requirements, but they can still use their eyes and occasionally move their heads. This research operates on the basis of the Brain to Computer Interface concept (BCI). Our device enables individuals to steer the wheelchair to the desired location by blinking their eyes. So they don't require a caregiver to drive them; they can drive their own wheelchair. When we execute the application, the wheelchair begins to move, and the direction is selected by blinking the eyes. When the system starts, the wheelchair travels automatically; if one blink is detected, the automobile turns left; if two blinks are detected, the car turns right. If an anomalous blink is detected, the vehicle will immediately stop. Because the Raspberry Pi has built-in Bluetooth, no external Bluetooth is required for any application. Here, we used ultrasonic sensor for sudden obstacle avoidance. The primary use of this device is allowing disabled persons to be able to move their wheelchairs independently.

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : Weightage-based Process Scheduling Algorithm

(51) International classification :G06F0009480000, G05B0019418000, G06Q0010060000, G06F0016220000, G06F0011340000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The proposal is a process scheduling algorithm. It is a non-preemptive scheduling procedure. The procedure starts with processing the first received process. The finishing time of the previous process, arrival time and execution time of the other process in the queue is calculated to compute the least weightage. The process that has least weightage is considered to process next.

No. of Pages : 17 No. of Claims : 3

(54) Title of the invention : A SIMPLE ZnT8-PET BASED DIAGNOSTIC TEST TO DETECT EARLY GESTATIONAL DIABETES

(51) International classification :G01N0033680000, G01N0033569000, G01N0033564000, C07K0016060000, G01N0033574000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

TITLE: A SIMPLE ZnT8-PET BASED DIAGNOSTIC TEST TO DETECT EARLY GESTATIONAL DIABETES APPLICANT: UNIVERSITY OF MADRAS ABSTRACT The present invention discloses a simple diagnostic method for the early detection of gestational diabetes during the first trimester or at the time of confirmation of pregnancy. The method of the present invention comprises of following steps. (a) collecting the serum sample of a subject; (b) detecting ZnT8-PEP specific autoantibody isotope IgA by indirect ELISA using polyepitopepeptide of sequence NH₂-NKDQCPRERPEELEGGGGTAASRDSGGGGESPVDQDPD-COOH and measuring absorbance to get ZnT8 IgA (O.D450); (c) detecting ZnT8-PEP specific autoantibody isotope IgG by indirect ELISA using polyepitopepeptide of sequence NH₂-NKDQCPRERPEELEGGGGTAASRDSGGGGESPVDQDPD-COOH and measuring absorbance to get ZnT8 IgG (O.D450); (d) detecting total immunoglobulin isotope IgA by sandwich ELISA using anti-human IgA antibodies and measuring absorbance to get Total IgA (O.D450); (e) detecting total immunoglobulin isotope IgG by sandwich ELISA using anti-human IgG antibodies and measuring absorbance to get Total IgG (O.D450); (f) calculating Arbitrary Units (AU) = ZnT8 IgA (O.D450)/ Total IgA (O.D450) ZnT8 IgG (O.D450) /Total IgG (O.D450) (g) comparing AU with cutoff value of 1.6AU in which if the AU is greater than cutoff value indicates no risk for developing GDM and if the AU is lesser than cutoff value indicates high risk for developing GDM.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001533 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYNTHESIS OF RED MUD SUPPORTED ACID CATALYST AND PRODUCING SUCCINIC ACID OVER THE SAME

(51) International classification :B01J0023460000, C22B0021000000, B01J0023755000, B01J0037080000, B01J0023400000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present disclosure provides catalyst prepared from red mud which is a solid waste from aluminum industry. The present disclosure provides a method for synthesizing red mud supported phosphomolybdic acid (PMA/Red mud) as solid acid catalyst. The catalyst is easily recoverable and can be recycled successfully for reaction cycles without loss in activity. The present disclosure further provides an economic catalytic process from one step conversion of bio-renewable feedstocks to succinic acid over red mud supported phosphomolybdic acid (PMA/Red mud) catalyst.

No. of Pages : 24 No. of Claims : 9

(54) Title of the invention : Study on Foreign interests in the domestic tourism market

(51) International classification :G06Q0050140000, G06Q0040000000, G06Q0030020000, H04M0003220000, G06Q0010040000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Study on Foreign interests in the domestic tourism market Abstract: As the service sector becomes more competitive and tourism becomes more important to the global economy, tourism destinations are becoming more concerned with service quality. To remain viable in the tourism industry for an extended period of time, entrepreneurs must constantly develop their products and services. They can attract a large number of tourists and keep them happy, resulting in increased business and the success of their tourism business. Tourist receipts, income, employment, and government revenue all raise when tourism businesses perform well. This contributes to the expansion of the economy's GDP (GDP). This was also taken into account when determining the service experiences of domestic and foreign tourists in Kashmir. Data was gathered using self-administered questionnaires. Following that, the data was statistically analysed. During the course of this study, 1043 questionnaires were completed and returned to the researchers. The data was analysed using IBM's SPSS version 20.0. There were no statistically significant differences in the quality of service provided to domestic and international tourists in Kashmir's tourism services.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001610 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : The Blockchain and Artificial Intelligence based IoT Environment for 6G Wireless Network

(51) International classification :H04L0029080000, H04L0009320000, H04L0009060000, G06N0003020000, G06N0020000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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6)Dr. E Meher Abhinav
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(57) Abstract :
 This invention analyzes the Blockchain and Artificial Intelligence based IoT environment for 6G Wireless Networks. Internet of-things (IoT) are new age technology that provided a system to incorporated processing gadgets with sensors, cell phones, and distributed computing stages for association between gadgets. In control and a coordinated keen multi-specialist framework, the innovation can work with the geriatric control of the home. The Blockchain and Artificial Intelligence based IoT environment for 6G Wireless Networks of communication system, which will be faster, secure and more efficient than current networks, are currently being developed by researchers during this time period.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001611 A

(19) INDIA

(22) Date of filing of Application :11/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A novel IoT and machine learning based energy efficient system for smart homes

(51) International classification :G06N0020000000, G05B0013020000, G06Q0050060000, H04W0052340000, G06N0007000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 This invention analyzes a novel IoT and machine learning based energy efficient system for smart homes. A brilliant home climate might be given savvy gadget climate strategies that utilization shrewd gadgets to screen exercises inside a savvy gadget climate, report on these exercises, or potentially give shrewd gadget control dependent on these exercises. Therefore the power utilization is diminished by using the propounded approach in light of an Advanced Energy Management overseeing energy-effectiveness use.

No. of Pages : 16 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001620 A

(19) INDIA

(22) Date of filing of Application :12/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Wearable Device for Management of Postpartum Conditions

(51) International classification :A61B0005000000, H01M0010056800, H01M0004134000, A41C0003040000, A61H0023020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: Wearable Device for Management of Postpartum Conditions The present disclosure proposes a wearable device for management of postpartum conditions. The wearable postpartum management assembly effectively manages postpartum conditions of a user. The assembly comprises a belt structure 102, a heating means (not shown), a milk absorbing means (not shown), a vibration means (not shown), and an oil strip (not shown). The proposed wearable device aids in maintaining the breasts hygiene and helps both mother and child for better breast feeding. The proposed efficient post-pregnancy device massages the breasts to reduce or to remove milk clog and revive from the pain caused due to milk clog. The proposed wearable device provides a therapeutic effect to reduce breast swollenness, breast pain and soreness. The proposed wearable device helps to reduce belly fat and post-pregnancy scars.

No. of Pages : 13 No. of Claims : 9

(54) Title of the invention : A WEIGHTED DV-MULTI HOP APPROACH FOR LOCALIZATION IN WIRELESS SENSOR NETWORKS

<p>(51) International classification :H04W0084180000, G01S0005020000, H04W0004380000, A61B0005000000, G06F0017100000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. GEETA D. DEVANAGAVI Address of Applicant :SCHOOL OF C&IT, REVA UNIVERSITY, RUKMINI KNOWLEDGE PARK, KATTIGENAHALLI, YELAHANKA BANGALORE, KARNATAKA, INDIA - 560064. -----</p> <p>2)SAIFUDDIN KARURU 3)Dr. NIKHATH TABASSUM 4)REVA UNIVERSITY Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) Dr. GEETA D. DEVANAGAVI Address of Applicant :SCHOOL OF C&IT, REVA UNIVERSITY, RUKMINI KNOWLEDGE PARK, KATTIGENAHALLI, YELAHANKA BANGALORE, KARNATAKA, INDIA - 560064. -----</p> <p>2)SAIFUDDIN KARURU Address of Applicant :RESEARCH SCHOLAR, SCHOOL OF ECE, REVA UNIVERSITY RUKMINI KNOWLEDGE PARK, KATTIGENAHALLI, YELAHANKA, BANGALORE, KARNATAKA, INDIA, 560064 -----</p> <p>3)Dr. NIKHATH TABASSUM Address of Applicant :RESEARCH SCHOLAR, SCHOOL OF ECE, REVA UNIVERSITY RUKMINI KNOWLEDGE PARK, KATTIGENAHALLI, YELAHANKA, BANGALORE, KARNATAKA, INDIA, 560064 -----</p> <p>4)REVA UNIVERSITY Address of Applicant :RUKMINI KNOWLEDGE PARK, KATTIGENAHALLI, YELAHANKA, BANGALORE-560064 -- -----</p>
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(57) Abstract :

Sensors have a strong connection to the real world, which sets them apart from conventional networks in a major way. Through the use of a variety of sensing devices as well as the processing of raw data, sensor networks may detect & monitor physical phenomena occurring in the locations/regions where even the sensors are located or deployed. Physical phenomena linked with geographic locations/regions are much more important to users of wireless sensor networks over raw data from individual sensor nodes. Geospatial information is becoming more important in sensor networks and applications, and sensor nodes having GPS signal receivers become more widely available. Sensor nodes may also be located without GPS using a variety of localization methods. To address the issue of estimating the location and position among wireless sensor nodes, new approaches, techniques, and algorithms must be created. We propose a Weighted Distance Vector -Multi Hop (WDV-MHop) algorithm. This significantly decreases the error by averaging estimated positions of sensor nodes obtained from the hop counts of neighboring anchor nodes. Simulation results prove that the proposed algorithm substantially reduces the average of localization error of sensor nodes

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001642 A

(19) INDIA

(22) Date of filing of Application :12/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : PROCESS OF DISCONNECTION TRANSFER IN DIGITAL DATA TRANSFER

(51) International classification :G06Q0020040000, H04N0021442000, H04L0029060000, H04L0025490000, H04N0001320000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A process of disconnection transfer in digital data transfer is introduced. Information systems operate in a network environment and in an integrated systems environment. The communication between systems in these environments happens through data transfer. While performing the data transfer, disconnection is also transferred in such environments. This invention discloses the process of disconnection transfer in digital data transfer. The reference numerals present in the drawings are 8, 10, 101 102, 103, 104, 105, 106, 107, 108, A, A1, A2, B, B1, B2, C, C1, C2, D, D1 and D2.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001740 A

(19) INDIA

(22) Date of filing of Application :12/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : CHAINLESS BICYCLE

(51) International classification :B62M0017000000, A63B0022000000, A63B0022060000, F02B0075220000, B62B0007060000
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
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(57) Abstract :

A chainless bicycle (100), the bicycle (100) comprising: a frame (102);a pair of camshafts (104a-104b) arranged on a bottom of the frame (102) in a way that the each of the camshafts (104a-104b) is attached with a center axis of a hub (106);a pair of connecting rods (108a-108b), wherein each of the connecting rods (108a-108b) is attached eccentrically with the camshafts (104a-104b); and a pair of push pedals (110a-110b) attached with the connecting rods (108a-108b) and arranged such that on a pedaling drive, one of the push pedals (110a-110b) move up and another of the push pedals (110a-110b) moves down to activate a cam mechanism.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : METHOD OF PRODUCING TAMARIND POWDER

(51) International classification :D21B0001340000, A61K0036480000, A23L0002040000, A47J0019020000, C12N0011140000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :
 A method (200) of producing tamarind powder (108) using a hot air oven (106), the method (200) comprising steps of: soaking and crushing sour tamarind flesh; squeezing out juice from a pulp of the crushed tamarind flesh by using a pulper finisher (104); adjusting soluble solid content of the juiceto a first predefined temperature; and placing the juice in the hot air oven (106) at a second predefined temperature for a predefined amount of time for obtaining the tamarind powder(108).

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : IoT and Machine Learning based System to Identify Drowning Occurrences in Swimming- Pools

<p>(51) International classification :G06K0009620000, G06N0020000000, G08B0021080000, H04L0029080000, G06Q0010000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. C Gnana Kousalya Address of Applicant :Professor, St.Joseph's Institute of Technology,OMR,Chennai-600119, Tamilnadu, India -----</p> <p>2)Dr. G Rohini 3)Mrs.S.Tephillah 4)Mrs. Akilandeswary G 5)Mr.Bino. J 6)Dr.Manoranjan Dash 7)Prof.Ayasakanta Mohanty 8)Dr. SAURABH SHARMA 9)Mr. Y. M. Mahaboobjohn 10)Dr.Reshma V.K Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. C Gnana Kousalya Address of Applicant :Professor, St.Joseph's Institute of Technology,OMR,Chennai-600119, Tamilnadu, India -----</p> <p>2)Dr. G Rohini Address of Applicant :Professor, St.Joseph's Institute of Technology,OMR,Chennai-600119-Tamilnadu, India -----</p> <p>3)Mrs.S.Tephillah Address of Applicant :Associate Professor Department of ECE St. Joseph's Institute of Technology-600119, Tamilnadu, India -----</p> <p>4)Mrs. Akilandeswary G Address of Applicant :Assistant Professor Department of ECE St. Joseph's Institute of Technology-600119, Tamilnadu, India -----</p> <p>5)Mr.Bino. J Address of Applicant :Assistant Professor Department of ECE St. Joseph's Institute of Technology-600119, Tamilnadu, India -----</p> <p>6)Dr.Manoranjan Dash Address of Applicant :Associate Professor Siksha O Anusandhan University Bhubaneswar-751003, Odisha, India -----</p> <p>7)Prof.Ayasakanta Mohanty Address of Applicant :Professor Siksha O Anusandhan University Bhubaneswar-751003, Odisha, India -----</p> <p>8)Dr. SAURABH SHARMA Address of Applicant :ASSISTANT PROFESSOR, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR-144030-PUNJAB, INDIA -----</p> <p>9)Mr. Y. M. Mahaboobjohn Address of Applicant :Assistant Professor, Mahendra College Of Engineering, Minnampalli, Salem- 636106, Tamilnadu, India -----</p> <p>10)Dr.Reshma V.K Address of Applicant :Assistant Professor, Department of Artificial Intelligence and Machine Learning, Hindustan College of Engineering and Technology, Valley campus,Pollachi highway,Othakkalmandapam, Coimbatore-641032, Tamilnadu, India -----</p>
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(57) Abstract :

Abstract: In conjunction with the Internet of Things (IoT), these technologies have recently improved the performance of automated swimming- pool systems. Numerous researches have been conducted to determine how to prevent drowning by using a series of videos that track how people move and where they are in the water. This research proposes an efficient system that locates and classifies drowning objects using a single image. Its goal is to reduce the number of drowning. The proposed system employs IoT and transfer learning to continuously monitor the safety of a swimming pool. Using a special transferlearning-based model, complex features can be used to distinguish between humans and other. This model is based on one that was trained on the ImageNet image database. The proposed system is intended to shorten the time it takes people to complete tasks. It classifies the data and sends the results to the owner's mobile device. Specialized models are compared to other deep learning algorithms in terms of sensitivity, accuracy, and precision in a prototype experiment. This is known as the control group.

No. of Pages : 8 No. of Claims : 7

(54) Title of the invention : Metal complexes and composition with novel Synthesis, Characterization, and Properties of Binuclear Gold(I) Phosphine Alkynyl Complexes

(51) International classification :C07F0009500000, A61N0001300000, A61K0009000000, G01N0033574000, A61K0031660000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

A gold(I) complex containing a mixture of ligands has been developed as an anticancer agent. In this reaction, the gold(I) ion is coupled to a dithiocarbamate ligand and a phosphorus-containing ligand (e.g. phosphines). In addition, a pharmaceutical composition comprising the gold(I) complex, a technique of manufacturing the gold(I) complex, and a method for treating cancer are all detailed.

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001885 A

(19) INDIA

(22) Date of filing of Application :12/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Hybrid Renewable energy based automatic recharging mechanism for electric vehicle

(51) International classification :F03D0009000000, H02S0010120000, B60K0016000000, B60L0008000000, F03D0009110000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Electric vehicles, which do not have internal combustion engines, are included in the current disclosure. The vehicle includes at least one electric motor attached to a driving axle and a plurality of rechargeable batteries for supplying electrical energy to the motor from stored electrical energy. A variety of different energy sources replenishes the batteries. Wind energy is gathered via a system that includes ducts in the form of funnels and turbines. Solar energy is gathered via several different solar panels. Heat receptors capture the thermal energy emitted by a driving surface and store it. A generator attached to an axle may potentially be included in the vehicle. To regulate and combine electrical power from renewable sources such as wind, solar, thermal, and generators and selectively route electricity to the motor for driving and the batteries for recharging, the vehicle is outfitted with a management control system.

No. of Pages : 20 No. of Claims : 4

(54) Title of the invention : A NEW APPARATUS TO CONTROL DRAGS IN THE AUTOMOBILE STRUCTURE

(51) International classification :A61D0007000000, B62D0035000000, B60Q0001440000, G01S0019490000, G06F0013140000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention provides a device to reduce drag in automobile structure with aid of modern sensors and controllers. This structure comprises controller, a power supply, a storage, an output, a sensor, a user input, a motion actuator, a communication device and a plasma actuator. The motion sensor is configured to move plasma actuator to sweep across the surface. The motion sensor proposed here is piezoelectric device. The vehicles speed is measured by speed sensor and vehicle base pressure is detected by pressure sensor. The vehicle speed is controlled by data received from the various sensors. The controller may include one or more from among a processor, a microprocessor, a central processing unit (CPU), a graphics processor, Application Specific Integrated Circuits (ASICs), Field-Programmable Gate Arrays (FPGAs), state machines, circuitry, and a combination of hardware, software and firmware components.

No. of Pages : 10 No. of Claims : 3

(54) Title of the invention : A Novel method IoT based Smart Saline Bottle for Health Care System

<p>(51) International classification :A61L0002030000, A61C0019000000, C02F0001467000, C02F0001461000, A61L0002180000</p> <p>(86) International Application No :PCT//</p> <p>Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)S ARUN Address of Applicant :SUBRAMANIYA BHARATHI ST ,BALAJI NAGAR NAGAR , ANAKAPUTHUR ,CHENNAI -----</p> <p>2)Sanjeet Pandey,Dr Rammanohar Lohia Avadh University</p> <p>3)Dr.Vineet Kumar Singh,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University</p> <p>4)Ramesh Mishra,IET Dr Rammanohar lohia Avadh University</p> <p>5)Dr Lakhvinder Kaur,Manav Rachna International Institute of Research and Studies</p> <p>6)Dr.Balaji Vijayan Venkateswaralu,HKBK College of Engineering</p> <p>7)Ms.Boomija,Prathyusha engineering college</p> <p>8)E U INIYAN,Prathyusha Engineering College</p> <p>9)William Andrews. J.S. A. Engineering College</p> <p>10)K. SHILPA,Prathyusha engineering college</p> <p>11)Thayalaraj Christopher Jeyakumar,The American College</p> <p>12)Rupal.sengar,Research scholar,,Jayot Vidhyapeeth Women University</p> <p>13)Awadhesh Kumar Maurya,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Sanjeet Pandey,Dr Rammanohar Lohia Avadh University Address of Applicant :Bachelor of computer science Dr Rammanohar Lohia Avadh University Ayodhya Uttar Pradesh India 224001 -----</p> <p>2)Dr.Vineet Kumar Singh,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University Address of Applicant :Information Technology Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University Ayodhya Uttar Pradesh India 224001 -----</p> <p>3)Ramesh Mishra,IET Dr Rammanohar lohia Avadh University Address of Applicant :Electronics and Communication engineering IET Dr Rammanohar lohia Avadh University Ayodhya Uttar Pradesh India -----</p> <p>4)Dr Lakhvinder Kaur,Manav Rachna International Institute of Research and Studies Address of Applicant :Manav Rachna International Institute of Research and Studies Manav Rachna Campus Rd, Gadakhor Basti Village Sector 43, Faridabad, Haryana India -----</p> <p>5)Dr.Balaji Vijayan Venkateswaralu,HKBK College of Engineering Address of Applicant :Dept of Information Science and Technology HKBK College of Engineering Nagawara, Bengaluru-45 India -----</p> <p>6)Ms.Boomija,Prathyusha engineering college Address of Applicant :Department of IT Prathyusha engineering college Tamilnadu India -----</p> <p>7)E U INIYAN,Prathyusha Engineering College Address of Applicant :Department of Electronics and communication Prathyusha Engineering College Prathyusha engineering college Tamilnadu India -----</p> <p>8)William Andrews. J.S. A. Engineering College Address of Applicant :Information Technology S. A. Engineering College Chennai Tamilnadu India -----</p> <p>9)K. SHILPA,Prathyusha engineering college Address of Applicant :Assistant professor Department of IT Prathyusha engineering college Tamilnadu India -----</p> <p>10)Thayalaraj Christopher Jeyakumar,The American College Address of Applicant :Assistant Professor Department of Chemistry The American College Madurai,Tamilnadu India -----</p> <p>11)Rupal.sengar,Research scholar,,Jayot Vidhyapeeth Women University Address of Applicant :Jayot Vidhyapeeth Women University Jaipur Rajasthan India -----</p> <p>12)Awadhesh Kumar Maurya,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University Address of Applicant :Assistant Professor Information Technology Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University Ayodhya India -----</p> <p>13)Madhav chakolkar,Rajarshi shahu college of Pharmacy Address of Applicant :Rajarshi shahu college of Pharmacy Buldana, Khamgaon Road, Buldana, Maharashtra India 443001 -----</p>
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(57) Abstract :

In human health care saline treating skin conditions including cellulite, cell death, and decreased blood flow are provided. The present invention includes stable topical formulations made by electrolysis of saline to produce a target mixture of chemically reduced and oxidized molecules in saline. Target mixtures of chemically reduced and oxidized species are reduced and reactive oxygen species found in known biological systems by measuring the concentration of reactive oxygen species in electrolyzed saline. Can be reflected in. Rheology modifiers and buffers can be added. The formula is applied to areas of the skin that are affected by one or more skin conditions. A container holds the fluid and a power supply provides a source of electrical current to an anode and a cathode positioned within the container. The anode and cathode each comprise a cylindrical shape. The cathode is positioned concentrically in relation to the anode. The spacing between the cathode and the anode is not greater than a preferred amount. Moreover, the voltage potential between the cathode and the anode is not greater than a preferred amount. Also described is a system for disinfecting and/or sterilizing health care instruments. The instruments are bathed in the electrolyzed saline solution. If the instrument includes internal conduits the system of the present invention also preferably flows the electrolyzed saline solution through such conduits also to provide both cleaning and sterilization. The electrolyzed saline solution is recirculated from the electrodes to the instrument being sterilized. Embodiments of the invention are particularly suited to sterilizing dental drill handpieces without damage to the handpieces

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241001985 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A NOVEL IN VITRO DIFFUSION CELL FOR THE EVALUATION OF MEMBRANE PERMEABILITY

<p>(51) International classification :G01N0013000000, G01N0015080000, G01N0001400000, G01N0033150000, G01N0013040000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY PUDUCHERRY INDIA 607402 -----</p> <p>2)MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR.T.SIVASHANMUGAM Address of Applicant :PROFESSOR DEPARTMENT OF ANAESTHESIOLOGY, MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE, SRI BALAJI VIDYAPEETH PUDUCHERRY, PUDUCHERRY, INDIA, 607402. -----</p> <p>2)DR M. RAVISHANKAR Address of Applicant :EMERITUS, PROFESSOR, DEPARTMENT OF ANAESTHESIOLOGY, MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE, SRI BALAJI VIDYAPEETH PUDUCHERRY, PUDUCHERRY, INDIA, 607402. -----</p> <p>3)DR CHARULATHA R Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ANAESTHESIOLOGY, MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE, SRI BALAJI VIDYAPEETH PUDUCHERRY, PUDUCHERRY, INDIA, 607402. -----</p> <p>4)DR. RAJKUMAR Address of Applicant :CIDRF SRI BALAJI VIDYAPEETH UNIVERSITY PUDUCHERRY, PUDUCHERRY, INDIA, 607402. -----</p>
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(57) Abstract :

TITLE: A NOVEL IN VITRO DIFFUSION CELL FOR THE EVALUATION OF MEMBRANE PERMEABILITY APPLICANT: SRI BALAJI VIDYAPEETH AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE ABSTRACT
The present invention discloses a novel in vitro diffusion cell configured to accommodate both circular and rectangular shaped membranes of varying sizes from 3mm to 12mm diameter, for evaluation of membrane permeability. The in vitro diffusion cell of the present invention comprises of two quadrilateral blocks [1] characterized in that individually engraved with rectangular member at the centre and the two quadrilateral blocks[1] are adapted to placed together to form a rectangular drug chamber[2] comprising of donor chamber[3] and recipient chamber[4]. The two separate quadrilateral blocks[1] are fastened against each other by fixing means[5] at four corners and provided with two circular drug delivery channels[6] at summit of the donor chamber[3] and recipient chamber[4] for continuous sampling into the donor chamber[3] and recipient chamber[4]. The circular drug delivery channel[6] are adapted to be closed by screw threads with Allen key heads. The in vitro diffusion cell is configured to house in between the donor chamber[3] and recipient chamber[4], plurality of membrane holders[7] having different aperture size to harbor different size and shape membranes.

No. of Pages : 13 No. of Claims : 3

(54) Title of the invention : SEBACEOUS CYST ENUCLEATION SIMULATOR

(51) International classification :G09B0023280000, A61F0009007000, G09B0023300000, H04L0012260000, A61B0090000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 TITLE: SEBACEOUS CYST ENUCLEATION SIMULATOR APPLICANT: SRI BALAJI VIDYAPEETH AND MAHATMA GANDHI MEDICAL COLLEGE AND RESEARCH INSTITUTE ABSTRACT The present invention discloses a Sebaceous Cyst Enucleation Simulator configured to simulate anaesthetic injection, incision and dermal flap refection, cyst dissection, removal and suturing technique thereby helping in training sebaceous cyst removal. The Sebaceous Cyst Enucleation Simulator of the present invention comprises of circular base[1], with a cavity in the centre to accommodate a characterized cyst capsule[2].The cyst capsule[2] is covered with soft synthetic fibre layer[3] , to simulate connective tissue fibre component. The circular base[1] along with the cyst capsule[2] positioned inside the cavity is covered with skin component after injection of simulated blood component in the fibre layer[3] thereby forming a skin[4] and Cystic swelling[5] and a coloured component[6] is placed over the top of the swelling[5] to mimic punctum.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : DENTAL PULPOTOMY AND PULP CAPPING SIMULATOR

<p>(51) International classification :G09B0023280000, A61C0003020000, A23L0017500000, A61K0035618000, A61K0006540000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)SRI BALAJI VIDYAPEETH Address of Applicant :SRI BALAJI VIDYAPEETH PONDICHERRY-CUDDALORE MAIN ROAD, PILLAIYARKUPPAM PUDUCHERRY PUDUCHERRY INDIA 607403 -----</p> <p>2)INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)PROF. G.S. PRATHIMA Address of Applicant :DEPARTMENT OF PEDIATRIC & PREVENTIVE DENTISTRY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>2)PROF. DAVID LIVINGSTONE Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND IMPLANTOLOGY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p> <p>3)PROF. SHIVASAKTHY M Address of Applicant :DEPARTMENT OF PROSTHODONTICS AND IMPLANTOLOGY, INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES SRI BALAJI VIDYAPEETH PILLIYARKUPPAM, PONDICHERRY PONDICHERRY INDIA 607403 -----</p>
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(57) Abstract :

TITLE: DENTAL PULPOTOMY AND PULP CAPPING SIMULATOR APPLICANT: SRI BALAJI VIDYAPEETH AND INDIRA GANDHI INSTITUTE OF DENTAL SCIENCES ABSTRACT The present invention discloses a Dental Pulpotomy and Pulp capping simulator configured to offer high fidelity simulation for pulpotomy and pulp capping procedures thereby facilitating learning skills for practicing pulpotomy, direct and indirect pulp capping. The Dental Pulpotomy and Pulp capping simulator of the present invention comprises of a model of a molar crown[1] tooth having a hole[2], disposed on a holding base[3] having a channel[4] characterized in that a simulator pellet[5] configured to be accommodate inside the hole[2] and adapted to be removed through the channel[4] after completion of procedure, the simulator pellet[5] is a cylindrical container housed with plurality of layers comprising of: (a) hard acrylic plate[6] at the bottom to simulate floor of the pulp chamber; (b) red colored sponge[7] positioned above the hard acrylic plate[6] to simulate pulp tissue; (c) white colored cuttlefish bone disc[8] positioned above the red colored sponge[7] to simulate normal healthy tooth structure; (d) brown colored cuttlefish bone disc[9] positioned above the white colored cuttlefish bone disc[8] to simulate affected dentin;(e) yellow colored cuttlefish bone disc[10] positioned above the brown colored cuttlefish bone disc[9] to simulate infected dentin.

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : Improve Energy Efficiency and Power Control: A review at 5G Wireless Technologies

<p>(51) International classification :H04W0052240000, H04W0040100000, H04B0007045200, B60K0006440000, G06F0001320900</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.M.Navaneethakrishnan Address of Applicant :Associate Professor, CSE, St.Joseph college of engineering, Chennai- 602117, Tamilnadu ----- 2)Dr DEPAA RA B 3)SONGA SHASHANK NAIDU 4)Dr Kamal Kant Patra 5)Mr. Devareddy Harsha 6)Dr. K.Krishna Veni 7)Dr. Ch. Venkata Krishna Reddy 8)Dr . Prof. Ketan Sarvakar 9)Dr. Nisha Rana 10)Dr. V.Kannan Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.M.Navaneethakrishnan Address of Applicant :Associate Professor, CSE, St.Joseph college of engineering, Chennai- 602117, Tamilnadu ----- 2)Dr DEPAA RA B Address of Applicant :ASSISTANT PROFESSOR AND DEPUTY HOD, CIVIL ENGINEERING, Dr MGR EDUCATIONAL AND RESEARCH INSTITUTE, CHENNAI-600095, Tamilnadu ----- 3)SONGA SHASHANK NAIDU Address of Applicant :RESEARCH SCHOLAR, COMPUTER SCIENCE, YBN UNIVERSITY, RANCHI-834010, JHARKHAND, INDIA, ----- 4)Dr Kamal Kant Patra Address of Applicant :Associate Professor, Life Science, YBN UNIVERSITY, RANCHI--834010, (JHARKHAND), INDIA ----- 5)Mr. Devareddy Harsha Address of Applicant :Assistant Professor, Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad-500075, Telangana ----- 6)Dr. K.Krishna Veni Address of Applicant :Professor, Electrical and Electronics Engineering, ChaitanyaBharathi institute of Technology, Hyderabad- 500075, Telangana ----- 7)Dr. Ch. Venkata Krishna Reddy Address of Applicant :Assistant Professor, Electrical and Electronics Engineering, ChaitanyaBharathi institute of Technology, Hyderabad- 500075, Telangana ----- 8)Dr . Prof. Ketan Sarvakar Address of Applicant :Assistant Professor, Information Technology, Ganpat University - U. V. Patel College of Engineering, Mehsana 384012, Gujarat ----- 9)Dr. Nisha Rana Address of Applicant :Assistant Professor, Zoology, Keral Verma Subharti College of Science Swami Vivekanand Subharti University Meerut-250005, Uttar Pradesh ----- 10)Dr. V.Kannan Address of Applicant :Managing director, CLDC Research and Development No.997, Mettupalayam Road, Near X Cut Signal,R.S.Puram, Coimbatore-641002, Tamilnadu -----</p>
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(57) Abstract :
Improve Energy Efficiency and Power Control: A review at 5G Wireless Technologies Abstract: The goal of this study is to improve the energy efficiency (EE) of wireless networks (measured in bits/joule) by developing power management algorithms. While the signal-to-interference and noise ratios have been expressed more broadly than in previous works, despite having extremely low rate limits, several of the most promising 5G candidate technologies can be included. In this paper, maximum EE can be viewed in two ways. One is concerned with the network and the other with the end user. These objectives are met by making the world's energy consumption as efficient as possible while maintaining the network's minimum efficiency. There are also closed-form feasibility rules available. Game theory is used in the user-centric scenario to analyse network equilibrium and develop decentralised convergent power control algorithms. To evaluate their performance in both of the aforementioned scenarios, a single or a collection of resources is assumed to be used to send data.

No. of Pages : 15 No. of Claims : 10

(54) Title of the invention : DESIGN OF HYDRO-PNEUMATIC ISD SUSPENSION IN HEAVY MULTI-AXLE VEHICLES

<p>(51) International classification :F16F0009060000, B60G0011300000, B60G0017040000, F15B0001240000, B60G0021073000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. B M Prasanna Address of Applicant :Associate Professor, Department of Chemistry, Bapuji Institute of Engineering and Technology, Davanagere 577 004 ----- 2)Dr. Banuprakash G 3)Dr. Sreenivasa B R 4)Dr. B. H. Doreswamy 5)Dr. N Madhukeshawara 6)Mr. Guruprashanth N Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. B M Prasanna Address of Applicant :Associate Professor, Department of Chemistry, Bapuji Institute of Engineering and Technology, Davanagere 577 004 ----- 2)Dr. Banuprakash G Address of Applicant :Associate Professor, Department of Chemistry, S. J. B. Institute of Technology, Kengeri, Bangalore 560060 ----- 3)Dr. Sreenivasa B R Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Bapuji Institute of Engineering and Technology, Davanagere 577 004 ----- 4)Dr. B. H. Doreswamy Address of Applicant :Professor and Head, Department of Physics, S. J. B. Institute of Technology, Kengeri, Bangalore 560060 ----- 5)Dr. N Madhukeshawara Address of Applicant :Professor, Department of Mechanical Engineering, Jain Institute of Technology, Davanagere 577 003 --- 6)Mr. Guruprashanth N Address of Applicant :Assistant Professor, Department of Civil Engineering, Jain Institute of Technology, Davanagere 577 003 ---</p>
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(57) Abstract :

A hydro pneumatic vehicle suspension system consists of two strut assemblies with hydraulic struts that work on at least one hydro pneumatic piston-type accumulator in a hydro pneumatic vehicle suspension system. Among other things, the accumulator comprises a separating piston charged with hydraulic pressure on one side of a storage volume, pneumatic pressure on the other side of the spring chamber, and an additional spring force through a separating piston rod that protrudes from the piston-type accumulator. A pressure medium cylinder works onto the separating piston rod and is connected to at least one pressure accumulator that creates prestress pressure. The pressure medium cylinder's supplemental spring force acts upon the separating piston rod.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002199 A

(19) INDIA

(22) Date of filing of Application :13/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : MULTI-PURPOSE SWINGING DEVICE

<p>(51) International classification :H04N0005232000, A61G0005100000, G03B0017560000, H04N0001000000, A61H0001020000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr MGR Educational & Research Institute Address of Applicant :Periyar E.V.R. High Road, Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095, India. ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Anandhi S Address of Applicant :Department of Electronics and Communications Engineering, Dr MGR Educational & Research Institute, Periyar E.V.R. High Road, Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095, India. ----- -----</p> <p>2)M.Sasikala Address of Applicant :Department of Chemistry, Dr MGR Educational & Research Institute, Periyar E.V.R. High Road, Vishwas Nagar, Maduravoyal, Chennai, Tamil Nadu 600095, India. ----- -----</p>
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(57) Abstract :

A multi-purpose swinging device includes a frame 1 having a platform 2 for sitting propose, multiple buttons 3 connected with frame 1 to activate different movements of the frame 1, artificial intelligence enabled image capturing module 4 for capturing real-time images and determining physical appearance of the user, a telescopic handle 5 linked with module 4 for providing stability and grip, a motorized wheels 8 fixed on a slider 9 to provide movement from one place to other, a telescopic circular body connected with a primary gear 11 for providing rotational motion to frame 1, a tilt sensor 10 integrated in frame 1 for detecting tilt angle of the frame 1, a pair of inflatable sheet 14 and belt wrapped motorized roller 6 connected with weight sensor 7 for ensuring user safety and, an ultrasonic sensor 13 arranged for identifying any obstacles during movement of the frame 1.

No. of Pages : 17 No. of Claims : 9

(54) Title of the invention : AUTOMATED PRECIPITATION TITRATION DEVICE

(51) International classification :G01N0031160000, G01N0031180000, B01F0013080000, G01N0027060000, G01N0021780000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An automated precipitation titration device, comprising a titration assembly having a burette 1 connected to a burette stand 2 via a clamp 3, a beaker 4 positioned underneath the burette 1, a platform 5 adapted to accommodate the stand 2 and beaker 4, wherein the beaker 4 is filled with an analyte and indicator and the burette 1 is filled with a titrant, a motorized stopcock 6 connected to the burette 1 for allowing/restricting dripping of the titrant within the analyte, a magnetic stirrer 7 for continuously mixing the titrant with the analyte, a sensing module 8, 9 in sync with an artificial intelligence image capturing module 10 for monitoring formation of precipitation and color change in the solution, a conductivity sensor 11 for measuring conductivity of the solution, a touch interactive display panel 13 for displaying amount of the titrant utilized and conductivity of the halide ions formed.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : MECHANICAL CHARACTERIZATION STUDIES ON LOAM SANDY SOIL MIXED MICRO SILICA FOR STRUCTURAL APPLICATIONS

<p>(51) International classification :G01N0033380000, G01N0023220200, G01N0003080000, C04B0028180000, G01N0015080000</p> <p>(86) International Application No Filing Date :PCT// / :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.Prasanna Prattipati Address of Applicant :Dr.Prasanna Prattipati, Assistant Professor, Department of Mechanical Engineering, Jawaharlal Nehru Technological University,Hyderabad (JNTUH), Hyderabad,Telangana,500085. prajntu@jntuh.ac.in, 9885178361 -----</p> <p>2)Mr.Singaiiah Gali 3)Dr. Wasudeo Balaji Gurnule 4)Mr.Sushant Rahul 5)Mrs.Ch Mallika Chowdary 6)Dr Kowdodi Siva Prasad 7)Dr.Syed Abusale Mhamad Nabirqudri Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.Prasanna Prattipati Address of Applicant :Dr.Prasanna Prattipati, Assistant Professor, Department of Mechanical Engineering, Jawaharlal Nehru Technological University,Hyderabad (JNTUH), Hyderabad,Telangana,500085. prajntu@jntuh.ac.in, 9885178361 -----</p> <p>2)Mr.Singaiiah Gali Address of Applicant :Mr.Singaiiah Gali,Associate professor,Department of mechanical engineering,Hyderabad Institute of Technology And Management(HITAM), Hyderabad,Telangana,501401. -----</p> <p>3)Dr. Wasudeo Balaji Gurnule Address of Applicant :Dr. Wasudeo Balaji Gurnule,Professor,Department of Chemistry,Kamla Nehru Mahavidyalaya, Nagpur-440024, Maharashtra, -----</p> <p>4)Mr.Sushant Rahul Address of Applicant :Mr.Sushant Rahul, Master's Scholar, Department of Civil Engineering, Indian Institute Of Technology Kharagpur, Kharagpur, West Bengal 721302 -----</p> <p>5)Mrs.Ch Mallika Chowdary Address of Applicant :Mrs.Ch Mallika Chowdary,Assistant Professor,Department of Civil Engineering,Koneru Lakshmaiah Deemed to be University,Green Fields,Vaddeswaram,Guntur District,Andhra Pradesh,India.522502. -----</p> <p>6)Dr Kowdodi Siva Prasad Address of Applicant :Dr Kowdodi Siva Prasad, Professor, Department of Mechanical Engineering, Hyderabad Institute of Technology and Management, Gowdavelly (Village),Medchal (Mandal), Medchal-Malkajgiri (Dist.) – 501401.Telangana. India. -----</p> <p>7)Dr.Syed Abusale Mhamad Nabirqudri Address of Applicant :Dr.Syed Abusale Mhamad Nabirqudri,Professor & Prncipal, KCT Engineering College,K.C.T. Campus, Qamar-ul-Islam Colony, Roza(B), Kalaburagi-585104 -----</p>
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(57) Abstract :

The influence of micro silica on the morphological characteristics as well as structural qualities of glued sands was investigated using an experimental investigation. Building material type II was used as a cementing ingredient. The Sandy clay soil texture has an amount of cement of 6percentage points by mass. Micro silica was mixed into the concrete at a rate of 0, 4, 8, & Twelve % by mass. Circular cross-section samples with an 80 percent. Similarly, thickness, as well as the appropriate water level, was constructed as well as fixed for 7, 28, as well as 90 days. X-ray scattering studies, transmission electron microscopy, as well as transmission electron microscopy, were used to investigate the morphological properties of the concrete crystalline mixes at day 90. The impact of the curing period on the microstructural characteristics of solidified sandy tested samples 0% & 8% micro silica was examined using a scanning electron microscope (SEM). The current investigation additionally includes unrestrained stress as well as deformation tests. Micro silica helps in the improvement of bonded Topsoil Sandy clay, fine sand by generating a thicker, higher stable appearance, according to the findings of SEM as well as AFM experiments. The addition of a small amount of silica to the cement, clay raised the level of the calcium silicate point as well as the strength of the alkaline activator rise, according to SEM testing. The findings suggest that introducing the right amount of micro silica to cemented stabilized sands improves its microstructural and mechanical qualities.

No. of Pages : 15 No. of Claims : 4

(54) Title of the invention : Political Marketing model to Reconcile Marketing

<p>(51) International classification :G06Q0030020000, G06Q0010060000, G01N0033680000, G06Q0050260000, G09F0019220000</p> <p>(86) International Application No :PCT/// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr.R.Gowtham Address of Applicant :Mr.R.Gowtham, Research Scholar, Department of Commerce, College of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu – 6032023,gowthamphenom@gmail.com, 9941960811 -----</p> <p>2)Dr.S.Chitra</p> <p>3)Dr.C.M.Sudha Arogya Mary</p> <p>4)Mrs.Andi Hartati</p> <p>5)Dr.Prashanth V</p> <p>6)Dr. Manita Arora</p> <p>7)Mrs. Nutan Singh</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr.R.Gowtham Address of Applicant :Mr.R.Gowtham, Research Scholar, Department of Commerce, College of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu – 6032023,gowthamphenom@gmail.com, 9941960811 -----</p> <p>2)Dr.S.Chitra Address of Applicant :Dr.S.Chitra, Associate Professor, Department of Commerce, College of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu - 603203 -----</p> <p>3)Dr.C.M.Sudha Arogya Mary Address of Applicant :Dr.C.M.Sudha Arogya Mary, Assistant Professor, Department of Management Studies, Saveetha Engineering College (Autonomous) Saveetha Nagar, Thandalam, Chennai -602105 -----</p> <p>4)Mrs.Andi Hartati Address of Applicant :Mrs.Andi Hartati,Assistant Professor, Department of Government Science Study Program, Faculty of Social and Political Science, Tompotika University Luwuk Banggai, Indonesia -----</p> <p>5)Dr.Prashanth V Address of Applicant :Dr.Prashanth V, Assistant Professor, Department of Journalism and Mass Communication, St Pauls College, R-1 Campus, Bangalore -73 -----</p> <p>6)Dr. Manita Arora Address of Applicant :Dr. Manita Arora, Assistant Professor, Amity School of Business, Amity University, Noida, Sector-125, Uttar Pradesh -----</p> <p>7)Mrs. Nutan Singh Address of Applicant :Mrs. Nutan Singh, Associate Professor, Department of Political Science GDM Girls PG College ModiNagar, District-Ghaziabad, Uttar Pradesh, 201204 -----</p>
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(57) Abstract :

This research contributes to a number of other studies which create an opposing political marketing strategy. Stated skepticism, cynicism, misfortune, as well as boredom always has an impact on susceptibility to government marketing programs, depending on the results. This may be the first study we know about the term rejection in the organizational advertising system. Moreover, there were the two main areas identified in this study, which offer new avenues of invention. For one thing, the research was done in India. The study is designed to determine if the results could be applied to other countries. Also, researchers did not anticipate the various kinds of barriers in this research; nevertheless, the study aims to look at the function of the discovered characteristics in defining quiet, strong, as well as highly active resistance. Policy implications appear to be the last focus of this study.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002216 A

(19) INDIA

(22) Date of filing of Application :14/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : PROCESS FOR THE SYNTHESIS OF ENVIRONMENTALLY BENIGN DIAMINES AND DIISOCYANATES MONOMERS

(51) International classification :C08G0071040000, C07C0269060000, C08G0018760000, C08G0018100000, C08G0073100000
(86) International Application No Filing Date :PCT// / :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The current invention outlines a simple, cost effective and industrially scalable synthetic process for the synthesis of a series of amino acid diamines and diisocyanates monomers intending to prepare greener polyurethane formulations for the end users. A methodology of preparing amino acid diisocyanate is presented, the methodology comprising of reaction between amino acid diamine with triphosgene in presence of a mild base with the molar ratio of 1:1.5 to diamine at room temperature to form the amino acid diisocyanate. In some embodiments of the present disclosure, the amino acid diamine comprises with amino acid diester linkages having a structure resulting from deprotection of N-protected amino acid diester. In some other embodiments, method of making amino acid diester encompassing of reaction between commercially available N-protected amino acid with commercially available alkane diol is presented. Both amino acid diester and diamine can be reused as raw materials for forming non-isocyanate based PUs. And amino acid diisocyanate is a key ingredient to prepare biodegradable and biocompatible polyurethanes.

No. of Pages : 28 No. of Claims : 7

(54) Title of the invention : Techniques and Importance of Advertising Strategy of the Corporate World.

<p>(51) International classification :G06Q0030020000, G06Q0030060000, B29K0067000000, G07F0009020000, G09F0023060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.M.Sangeetha Address of Applicant :Assistant professor Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai-600017 ,Tamilnadu India. -----</p> <p>2)Mr. Manish Deepchand Rai 3)Mr. Anil Suresh Tiwari 4)Dr. A. John William 5)Dr. Hitesh Kumar 6)Mr.Sushil Kumar Maurya 7)Mr. Basavaraj S Mammani 8)Dr. K. Sivaperumal 9)Dr. Arun Kumar Pallathadka 10)Dr. Harikumar Pallathadka</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.M.Sangeetha Address of Applicant :Assistant professor Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai-600017 ,Tamilnadu India. -----</p> <p>2)Mr. Manish Deepchand Rai Address of Applicant :HoD School of Commerce SAGE University, Bhopal. Sahara Bypass Road, Katara Hills, Extension, Bhopal-46202, Madhya Pradesh, India. -----</p> <p>3)Mr. Anil Suresh Tiwari Address of Applicant :Assistant Professor B.K.Birla College (Autonomous), Kalyan, Dist. Thane-421304, Maharashtra, India -----</p> <p>4)Dr. A. John William Address of Applicant :Assistant Professor Department of Management Kristu Jayanti College Bangalore-560077, Karnataka, India -----</p> <p>5)Dr. Hitesh Kumar Address of Applicant :Director Mangalmai Institute of Management and Technology, Greater Noida-201310, Uttar Pradesh, India -----</p> <p>6)Mr.Sushil Kumar Maurya Address of Applicant :Associate Professor Mangalmai Institute of Management and Technology Greater Noida-201310, Uttar Pradesh, India -----</p> <p>7)Mr. Basavaraj S Mammani Address of Applicant :Assistant Professor Faculty of Business Studies MBA Sharnbasva University Kalaburagi-585103, Karnataka, India -----</p> <p>8)Dr. K. Sivaperumal Address of Applicant :Assistant Professor, Vel Tech Ranga Sanku Arts College, Avadi, Chennai 62. TamilNadu India -----</p> <p>9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director, Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West-795140, Manipur, India -----</p> <p>10)Dr. Harikumar Pallathadka Address of Applicant :Director, Manipur International University, Ghari, Imphal, Imphal West-795140, Manipur, India -----</p>
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(57) Abstract :

Abstract: Advertir is an archaic French verb that translates as to make a statement in order to attract attention. When a product or service is advertised in an impersonal manner, the message conveyed is identical to the one stated above regarding the product's or service's merits, price, and availability. In advertising, pull effects occur when an advertiser attempts to persuade a customer to purchase a product by directly appealing to them. Advertising has become the primary method for businesses to sell their products and demonstrate their superiority in today's competitive market. It is irrelevant whether advertisements are placed. They must be more aesthetically pleasing and functional. To capture the customer's attention. Advertising is the most effective method of communicating with people. Advertising educates consumers about the various brands and products available. Additionally, they learn how to utilise them to their advantage. Advertisements are directed at children of all ages. To accomplish this, you'll need a range of media, the most effective techniques, and the most effective methods.

No. of Pages : 8 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002378 A

(19) INDIA

(22) Date of filing of Application :14/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : BLOCKCHAIN-BASED SOLUTION FOR PROOF OF PICK-UP OF A PHYSICAL ASSET

<p>(51) International classification :G06Q0010080000, H04L0009320000, H04L0009300000, G06Q0010060000, G07F0017000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)R.Balakrishna Address of Applicant :#14, Sri Sai Nilayam,6th stage,11th block, BSK, Srinivasapura , -----</p> <p>2)M Siva Rama Krishna 3)Dr N Sandeep Varma Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)M Siva Rama Krishna Address of Applicant :Asst.Professor, Dept of Computer Applications,BMS College of Engineering, Bull Temple Road, Bangalore-560019 -----</p> <p>2)Dr N Sandeep Varma Address of Applicant :Asst.Professor, Dept. of Information Science and Engineering, B.M.S.College of Engineering, Bull Temple Road, Basavangudi, Bengaluru -----</p> <p>3)Dr.R.Balakrishna Address of Applicant :Dept of CSE, RajaRajeswari College of Engineering, Bangalore -----</p>
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(57) Abstract :

A Blockchain-based solution for Proof of pickup of physical assets. The solution presented has made it viable to be used in many delivery systems without relying entirely on a TTP. We were able to demonstrate how to implement a simple yet efficient smart contract to provide PoP of the item picked up by the carrier from the requested seller and how it is reflected on the customer's side.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002404 A

(19) INDIA

(22) Date of filing of Application :15/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ENHANCING THE CUSTOMER SATISFACTION THROUGH BIO MARKETING

(51) International classification :G06Q0030020000, G06Q0010060000, G09F0023000000, C02F0101000000, G09F0023060000
(86) International Application No Filing Date :PCT// / :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

Marketing strategy is the structure and control system for an entrepreneur's manufacturing and distribution activities, as well as competitive analysis to form and satisfy the demand for goods and services and making a profit. Management is just as essential as any other organizational strategy, including finance, production, research, logistics, and others. Bio marketing, as a management concept needs people to vote with their money for the products that they need. This defines the company's performance and best meets the requirements of the customers. Because reactor safety marketing is the process of persuading the masses to buy something, the majority of people mistakenly associate it with sales and promotions. The distinction may be found in the following: Face-to-face interaction is the norm in sales; the vendor must meet with prospective customers. By providing opportunities, marketing utilizes the public environment and certainly other methods to grab attention and persuade a large number of individuals who hadn't had any direct communication with several of the marketer's businesses. Peter Drucker, a prominent thinker on management issues, puts it this way: Bio marketing aims to make attempts on needless sales in good environment. Its goal is to get to explain the client so well that the good or brand will fit perfectly and sell itself

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002432 A

(19) INDIA

(22) Date of filing of Application :15/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN IMPLANTABLE DEVICE FOR CONTROLLING DISCHARGE OF URINE

<p>(51) International classification :A61F0002000000, A61N0001050000, A61F0002070000, A61B0017120000, A61N0001378000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)M.S. Ramaiah Institute of Technology Address of Applicant :MSR Nagar, MSRIT Post, Bangalore - 560054, Karnataka, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MYSORE, Jyothirmayi Address of Applicant :M.S. Ramaiah Institute of Technology, MSR Nagar, MSRIT Post, Bangalore - 560054, Karnataka, India - ----- 2)ASHWATHNARAYANA SETTY, Dinesh Pobbathy Address of Applicant :M.S. Ramaiah Institute of Technology, MSR Nagar, MSRIT Post, Bangalore - 560054, Karnataka, India - ----- 3)HAROHALLY, Nagaraj Krishna Address of Applicant :M.S. Ramaiah Institute of Technology, MSR Nagar, MSRIT Post, Bangalore - 560054, Karnataka, India - -----</p>
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(57) Abstract :

ABSTRACT AN IMPLANTABLE DEVICE FOR CONTROLLING DISCHARGE OF URINE The present disclosure envisages an implantable device (100) for controlling discharge of urine in a subject. The device (100) comprises a tubular body (102), an operative rear end (110A), a plurality of couplings (108), an operative front end (110B), a control region (114), and a detachable tube (118). The tubular body (102) is defined by holes (104) for securely stitching the rear end (110A) within a pouch (120) to receive urine. The plurality of couplings (108) is configured on outer surface of the tubular body (102). Each of the couplings (108) is configured to allow stitching of tubular body (102) to the skin outer surface. The control region (114) is configured at the front end (110B) for enabling or disabling the outlet (112). The control region (114) is configured to allow discharge of urine to exterior via a tube (118) in a controlled manner.

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002458 A

(19) INDIA

(22) Date of filing of Application :15/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN IOT BASED TECHNIQUE TO DETECT AND PREVENT CRIME OVER CLOUD

<p>(51) International classification :H04L0029060000, G06F0021560000, G16H0050200000, H04L0029080000, G06N0005040000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)DR. C. BALA SUBRAMANIAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION. KRISHNANKOIL. VIRUDHUNAGAR DISTRICT. TAMILNADU. -----</p> <p>2)DR. S. SUPRAKASH</p> <p>3)DR. S. P. BALAKANNAN</p> <p>4)DR. M. MARAGATHARAJAN</p> <p>5)DR. M. KARUPPASAMY</p> <p>6)MR. M. RAJA</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. C. BALA SUBRAMANIAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION. KRISHNANKOIL. VIRUDHUNAGAR DISTRICT. TAMILNADU. -----</p> <p>2)DR. S. SUPRAKASH Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION, KRISHNANKOIL. VIRUDHUNAGAR DISTRICT. TAMILNADU. -----</p> <p>3)DR. S. P. BALAKANNAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION, KRISHNANKOIL. VIRUDHUNAGAR DISTRICT. TAMILNADU. -----</p> <p>4)DR. M. MARAGATHARAJAN Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF COMPUTING SCIENCE AND ENGINEERING, VIT BHOPAL UNIVERSITY, BHOPAL - INDORE HIGHWAY, SEHORE, MADHYA PRADESH. -----</p> <p>5)DR. M. KARUPPASAMY Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER APPLICATION, KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION, KRISHNANKOIL - 626126. VIRUDHUNAGAR DISTRICT. TAMILNADU. -----</p> <p>6)MR. M. RAJA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION, KRISHNANKOIL - 626126. VIRUDHUNAGAR DISTRICT. TAMILNADU. -----</p>
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(57) Abstract :

An IOT based technique to detect and prevent crime over cloud is the proposed invention that utilizes artificial intelligence technologies for the purpose of designing a implementing this framework. With the advances in the field of network applications and information technology, the criminals or attacks are misusing the cyberspace platform to commit numerous ransomware attacks and crimes. The invention implements a successful decision support model guided by artificial intelligence to detect and prevent the crimes that may occur in the instance of transfer of data over the cloud. There are decision making algorithms that will prevent the user from downloading unwanted software or opening suspicious mails and these avoiding the ransomware attacks hat may possibly be applied on the personal computer of the user.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : AN IOT BASED SMART INTELLIGENT TRAFFIC MANAGEMENT SYSTEM

<p>(51) International classification :G08G0001017000, G08B0021020000, G08G0001096700, G06Q0050100000, G08G0001040000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.S.A.SAHAAYA ARUL MARY Address of Applicant :PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING,SARANATHAN COLLEGE OF ENGINEERING,TRICHY-620012 ----- ----- 2)DR.S.MOHANA 3)Dr.R. SENTHAMIL SELVI 4)DINESHKUMAR P 5)KARTHIK. R 6)RAMYA N Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.S.A.SAHAAYA ARUL MARY Address of Applicant :PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING,SARANATHAN COLLEGE OF ENGINEERING,TRICHY-620012 ----- ----- 2)DR.S.MOHANA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, TRICHY 620012 ----- 3)Dr.R. SENTHAMIL SELVI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, TRICHY 620012 ----- 4)DINESHKUMAR P Address of Applicant :ASSISTANT PROFESSOR/COMPUTER SCIENCE AND ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, TRICHY, 620012 ----- 5)KARTHIK. R Address of Applicant :ASSISTANT PROFESSOR / DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SARANATHAN COLLEGE OF ENGINEERING, TIRUCHIRAPPALLI - 620012. ----- ----- 6)RAMYA N Address of Applicant :ASSISTANT PROFESSOR/COMPUTER SCIENCE AND ENGINEERING,SARANATHAN COLLEGE OF ENGINEERING,TRICHY,620012 -----</p>
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(57) Abstract :

An IOT based smart intelligent road traffic management system is the proposed invention that focuses on designing and implementing framework of directing the traffic without the help of traffic police. The proposed invention is the need of the hour invention since many traffic personnel's have lost their precious lives during the pandemic situation. The invention uses artificial intelligent based monitoring system that collects the vehicle density on each road; thereby utilizing this data to direct and control vehicle at each and every signal board. The vehicles cannot even move a step by violating traffic rules.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002460 A

(19) INDIA

(22) Date of filing of Application :15/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : COGNITIVE TECHNIQUES TO PREVENT ADVANCED SECURITY THREATS TO PROTECT ASSETS

(51) International classification :G06N002000000, G06N0005020000, G06N0003000000, G06K0009620000, G06F0016245800

(86) International Application No :PCT// / Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA Filing Date :NA

(62) Divisional to Application Number :NA Filing Date :NA

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(57) Abstract :

Cognitive techniques to prevent the security threats and protect assets or information that are transferred over cloud is the proposed invention. The invention focuses on application of artificial intelligence technologies that is patterned on human thought processes to identify the treats and to protect the information and digital systems. The cognitive technique is implemented using data mining and pattern is an alarm that there is an attack from third party. The machine learning algorithms make it possible for the cognitive systems to mine data significant analysis of data for the purpose of analysis.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002464 A

(19) INDIA

(22) Date of filing of Application :15/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Image Processing and Deep Learning Based Smart Tracking and Counting Vehicle

(51) International classification :H04N0007180000, G08G0001017000, G08B0013196000, G06T0007000000, G06K0009000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
 Image Processing and Deep Learning Based Smart Tracking and Counting Vehicle Abstract: We'll discuss how to identify and track one-of-a-kind automobiles in a specific area of interest later in this research paper. Numerous traffic management and control systems must be equipped with the ability to detect and count vehicles. It must be capable of operating on roads, highways, and narrow lanes, to name a few applications. Automobiles can be detected through the observation of features such as haar cascades. The system receives a video or image and processes it to determine the number of vehicles present. We will investigate a method for detecting cars that could be used in traffic surveillance systems as part of this research. This system, in conjunction with CCTV cameras, is used to determine the presence or absence of nearby automobiles. Always begin by looking for automobiles and other vehicles. When utilising Haar Cascades, video can be used to assist in identifying the vehicle. It is used to train the Viola Jones Algorithm on these cascade classifiers. We can see some interesting things in the video by keeping track of each car in a specific area. This method is the quickest and most accurate way to identify, track, and count the number of cars up to 78 percent of the time. Frames are used to denote the difference between recorded video and live video footage. System: These frames were converted to greyscale in order for the system to accept them as input. Following that, a particular area of study was chosen for further investigation. The car was discovered by comparing its characteristics to those of a hare. The vehicle was located immediately upon exiting the danger zone. If the difference in their coordinates is less than the maximum number of pixels, we believe they are the same car. It's two cars as long as the width and height of one of the vehicles exceed the maximum number of pixels.

No. of Pages : 14 No. of Claims : 10

(54) Title of the invention : AN IOT EQUIPMENT BASED SECURED CLOUD NETWORK COMMUNICATION AND METHOD THEREOF

(51) International classification :H04L0029080000, H04L0029060000, H04L0009320000, H04W0004700000, H04W0012060000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The present invention discloses an IoT equipment based secured cloud network communication and method thereof. The system includes, but not limited to, a client device for sending a first message to an IoT based computation server over an IoT network requesting a secure communication session therewith, the message including an identity of the client connected in the IoT network requesting the authenticated communication session. Further, the client device is configured to receive from the computation server over the IoT network a digital certificate issued by a certifying source verifying information contained in the digital certificate, which includes a plurality of fields being transformed in accordance with a transformation instruction.
 Accompanied Drawing [FIG. 1]

No. of Pages : 20 No. of Claims : 8

(54) Title of the invention : A Blockchain-based interface for secret remote communication through a smartphone using wireless sensor network

(51) International classification :H04L0029080000, H04L0029060000, H04W0084180000, H04L0009320000, H04L0012240000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

This invention analyzes a block-chain based interface for secret remote communication through a smartphone using wireless sensor network. The internet is a global system of interconnected computers and computer networks that use a standard internet protocol suit to communicate with each other. The Internet of Things (IoT) is based on the idea that everyday objects, not just computers and computer networks, can be readable, recognisable, locatable, addressable, and controllable via secret remote communication through a smartphone using wireless sensor network.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002506 A

(19) INDIA

(22) Date of filing of Application :16/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : DESIGN A ELECTRIC PARKING BRAKE SYSTEM FOR VEHICLE

(51) International classification :B60T0013740000, F16D0121240000, G01L0005280000, B60T0017220000, G16B0005000000
(86) International Application No Filing Date :PCT// / :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
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(57) Abstract :

This study introduces a novel integrated Electric Parking Brake System (EPBS), which is built into the brake caliper. It has an electrically operated brake unit as well as a hydraulically pushed brake device, but instead of a screwing method, it employs a novel self-locking mechanism to boost efficiency and also working speed. It has all benefits of a traditional EPB technology, plus it has a better braking performance and a faster reaction time. An operating idea of this novel design is initially described in this work, accompanied by an introduction to the testing equipment and a review of experimental data. The results of the tests show this approach is feasible. Finally it covers the most important aspects of the EPBS program's development.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : Identification and classification of communication networking protocol on malicious network traffic mechanism using machine learning techniques.

<p>(51) International classification :H04L0029060000, H04L0009140000, G06F0021550000, H04L0009320000, H04L0012580000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Sunanda Das Address of Applicant :Associate professor, Department of CSE, Jain University, Jakkasandra Post, Kanakapura Rd, Bengaluru, Karnataka 562112 -----</p> <p>2)Dr. Nihar Ranjan Nayak</p> <p>3)Rocky Shaileshbhai Upadhyay</p> <p>4)Pankaj Kumar</p> <p>5)Mr. Pavan Patel</p> <p>6)Dr. Sheshang Degadwala</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Sunanda Das Address of Applicant :Associate professor, Department of CSE, Jain University, Jakkasandra Post, Kanakapura Rd, Bengaluru, Karnataka 562112 -----</p> <p>2)Dr. Nihar Ranjan Nayak Address of Applicant :Assistant professor Department of MCA , Sri Venkateswara College Of Engineering & Technology(Autonomous), chittoor, 517127,Andhra Pradesh -----</p> <p>3)Rocky Shaileshbhai Upadhyay Address of Applicant :Assistant Professor, Sigma Institute of Engineering, Ajwa-Nimeta Road, Vadodara, Gujarat 390019, India -----</p> <p>4)Pankaj Kumar Address of Applicant :Department of Computer Science & Engineering Lloyd Institute of Engineering & Technology, Greater Noida – 201306 (Uttar Pradesh), India -----</p> <p>5)Mr. Pavan Patel Address of Applicant :Assistant Professor, Computer Engineering, Alpha College of Engineering and Technology, Gandhinagar, Gujarat, India -----</p> <p>6)Dr. Sheshang Degadwala Address of Applicant :Associate Professor , Sigma Institute of Engineering Engineering Block, Sigma Group of Institutes, Ajwa-Nimeta Road, Bakrol, Vadodara, Gujarat 390019, India -----</p>
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(57) Abstract :
Cyber attack is the most threat to the digital era. As the digital era uses the internet as the main stream, the data transmitted from one end to another within the encryption mode. The man-in-middle attack occurs due to the malicious attempt to gain access to unauthorized system during internal and external server analyses. This invention analyzes identification and classification of communication networking protocol on malicious network traffic mechanism using machine learning techniques.

No. of Pages : 12 No. of Claims : 4

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(21) Application No.202241002531 A

(19) INDIA

(22) Date of filing of Application :17/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD OF FABRICATING COMPOSITES FOR EFFICIENT AND AFFORDABLE BUMPERS

(51) International classification :G01N0003080000, G01N0003200000, G01M0005000000, G01N0003040000, B32B0027380000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A method of fabricating composites for efficient and affordable bumpers. The method includes preparing carbon fibre reinforced epoxy composites by mixing an epoxy resin and hardener and by applying pressure. The method further includes performing a tensile test, using a universal testing machine to test load properties of carbon fibre reinforced epoxy composites. The method includes performing a flexural test, using the universal testing machine to test a transverse bending test of the carbon fibre reinforced epoxy composites. The method includes performing an impact strength test, using the universal testing machine to test load properties of the carbon fibre reinforced epoxy composites. The method further includes performing, using Scanning Electron Microscopy (SEM), a microanalysis and failure analysis of the carbon fibre reinforced epoxy composites. The method includes cutting Fibre Metal Laminates (FMLs), using a water jet machining (WJM) to remove metal particles and unwanted particles from a surface of FMLs. FIG. 2

No. of Pages : 17 No. of Claims : 1

(54) Title of the invention : SYSTEM FOR DETECTING QUALITY OF FOOD IN REAL-TIME

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for detecting quality of food in real-time, comprising food spoilage detection device has input device configured to enable user to select food type and processing device configured to analyze food type from input device, food spoilage detection device comprising juxtaposition sensors configured to generate first output signals and transmit first output signals to processing device for identifying distance between target food and food spoilage detection device, first output signals correspond to distance between target food and food spoilage detection device, processing device configured to perform spoilage detection if distance between target food and food spoilage detection device is within tolerable range; milieu sensors configured to generate second output signals and transmit second output signals to processing device for identifying facets of target food, facets comprising milieu of target food based on selected food type, second output signals correspond to facets of target food; biochemical sensors configured to generate third output signals and transmit third output signals to processing device for identifying concentration of biochemicals in milieu of target food, third output signals correspond to identified concentration of biochemicals, biochemical sensors configured to generate alerts through output device when target food is spoiled. Fig. 1

No. of Pages : 35 No. of Claims : 12

(54) Title of the invention : Fuel Cell and PV Array-Based Hybrid Power Generation

<p>(51) International classification :H01M0016000000, H01M0008048580, H02J0009060000, H01M0008043200, B60L0058400000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Selligoundanur subramaniam sivaraju Address of Applicant :S/O Subramaniam 168, 2nd Street Poombugar Nagar Amman Kovil East Saravanampatti ----- 2)Dr. G. BANU 3)Dr.LIJO JACOB VARGHESE 4)Dr.G.Manikandan 5)Pankaj Ramtekkar 6)Dr.M.Ruban 7)Dr Priyabrata Adhikary 8)Dr Susmita Kundu 9)Dr.M.SANGEETHA 10)C.M.Vivek Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Selligoundanur subramaniam sivaraju Address of Applicant :S/O Subramaniam 168, 2nd Street Poombugar Nagar Amman Kovil East Saravanampatti ----- 2)Dr. G. BANU Address of Applicant :Professor Department of Electrical and Electronics Engineering, VSB College of Engineering and Technical Campus, Coimbatore - 642109 ----- 3)Dr.LIJO JACOB VARGHESE Address of Applicant :Professor Department of Electrical and Electronics Engineering Sri Krishna College of Technology, Coimbatore ----- 4)Dr.G.Manikandan Address of Applicant :Assistant Professor, Department of lectronics and Communication Engineering, Saveetha School Of Engineering, Saveetha Institute of Medical and Technical Sciences, Thandalam, Chennai ----- 5)Pankaj Ramtekkar Address of Applicant :Plot No. 71, Mhalgi Nagar, Hudkeshwar Road, Nagpur-440034 ----- 6)Dr.M.Ruban Address of Applicant :Assistant professor in Vels Institute of Science, Technology & Advanced Studies (VISTAS) ----- 7)Dr Priyabrata Adhikary Address of Applicant :Professor-Mechanical, New Horizon College of Engineering, Bangalore ----- 8)Dr Susmita Kundu Address of Applicant :HOD-Electrical, Meghnad Saha Institute of Technology (MAKAUT), Kolkata ----- 9)Dr.M.SANGEETHA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, DR.NGP ARTS AND SCIENCE COLLEGE, COIMBATORE ----- 10)C.M.Vivek Address of Applicant :Assistant Professor Department of Mechanical Engineering, Periyar Maniammai Institute of Science and Technology -----</p>
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(57) Abstract :
One of the most widely used alternative energy sources is photovoltaic energy. Integrating Photo Voltaic power systems with other energy sources may help overcome inconsistency in power production. They are a potential choice because of their high efficiency, modularity, and fuel adaptability; nevertheless, one significant disadvantage is their sluggish dynamics. On the other hand, existing batteries are often incapable of delivering the long-term power required by escalating demands. PV power systems can be employed in various applications in conjunction with hybrid fuel cell and battery systems to deliver continuous, high-quality energy. For example, a hybrid PV/fuel cell power system may even be employed to continuously provide a reliable energy source. The design of a hybrid power system and the control mechanisms for power management are discussed in this paper.

No. of Pages : 11 No. of Claims : 6

(54) Title of the invention : A novel formulation having nanobubbles for sanitation

(51) International classification :B01F0003040000, B82B0003000000, B01F0005060000, C02F0101320000, C02F0101300000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

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(57) Abstract :

A nano bubble generator, a nanobubble-containing liquid solution having a significantly high concentration of nanobubbles, a system for generating the nanobubble-containing liquid solution, and methods for creating the nanobubble-containing liquid solution are all disclosed. It consists of an inflow portion for receiving a source liquid solution, a series of at least two sequential cavitation zones and shear planes for treating the source liquid solution and producing nanobubble containing liquid solution, and an outflow portion for releasing the nanobubble containing liquid solution from the nanobubble generator.

No. of Pages : 24 No. of Claims : 5

(54) Title of the invention : A SERVICE ORIENTED (CONSUMERS TO CONSUMERS) EXCHANGE OF WORKS THROUGH ONLINE PLATFORM

(51) International classification :H04M0001725000, A47G0033000000, F21V0015010000, A23L0031000000, G99Z0099000000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract :

The present invention relates to smart earnings based on the exchange of works through the online platform. More particularly, the system has a virtual platform for publishing users' needs and showing works to the earners for their earnings. For example, if one user needs something from the market that user can publish his work, on the way passing user can pick up the first user's work for the second user's earnings. The app which I am proposing will solve this problem. People can download this app and register themselves this using any government identification card, every registered person can earn money or get his work done. In the first case, in that app, if I keep a requirement in that app selecting the radius of the area which is near to my parent's home, people who are free or who are also planning to visit the same hospital for vaccination or other tests can take with them. In return, they can receive a few points which can be redeemed as money. Same with the second case, someone who is nearby passing through the route on which his home is there, can see the requirement and get it for him and give it as he is passing through the same route on which his home falls. Can receive a few points just by wasting a few seconds. This app helps people to get their work easily. The points they get can be redeemed as coupons, vouchers or cash. When people are going to do free, or they planning to go to the same place as the one in the requirement, they can help them as it is not the separate work, in return, they have many benefits.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : URBAN SURVEILLANCE SYSTEM IN SMART CITIES BY AUTOMATED DETECTION USING CNN

<p>(51) International classification :G06N0003040000, G06N0003080000, G06K0009320000, G06K0009620000, G01N0021956000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr P Alli Address of Applicant :Prof and Head Department of Computer Science and Engineering Velammal College of Engineering and Technology, Madurai -----</p> <p>2)Dr G Vinoth Chakkaravarthy</p> <p>3)Mrs .C B Selva Lakshmi</p> <p>4)Mr.K Azarudeen</p> <p>5)Mrs. R.Sarala</p> <p>6)Mrs.V.Lavanya</p> <p>7)Mrs.K.Santha Sheela</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr P Alli Address of Applicant :Prof and Head Department of Computer Science and Engineering Velammal College of Engineering and Technology, Madurai -----</p> <p>2)Dr G Vinoth Chakkaravarthy Address of Applicant :Associate Professor Department of Computer Science and Engineering Velammal College of Engineering and Technology, Madurai -----</p> <p>3)Mrs .C B Selva Lakshmi Address of Applicant :Assistant Professor -II Department of Computer Science and Engineering Velammal College of Engineering and Technology, Madurai -----</p> <p>4)Mr.K Azarudeen Address of Applicant :Assistant Professor Department of Computer Science and Engineering Velammal College of Engineering and Technology, Madurai -----</p> <p>5)Mrs. R.Sarala Address of Applicant :Assistant Professor -III Department of Computer Science and Engineering Velammal College of Engineering and Technology, Madurai -----</p> <p>6)Mrs.V.Lavanya Address of Applicant :Assistant Professor-III Department of Computer Science and Engineering Velammal College of Engineering and Technology, Madurai -----</p> <p>7)Mrs.K.Santha Sheela Address of Applicant :Assistant Professor -III Department of Computer Science and Engineering Velammal College of Engineering and Technology, Madurai -----</p>
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(57) Abstract :

We propose a unified deep neural network, which can localize license plates and recognize the letters simultaneously in a single forward pass. The whole network can be trained end-to-end. In contrast to existing approaches which take license plate detection and recognition as two separate tasks and settle them step by step, our method jointly solves these two tasks by a single network. It not only avoids intermediate error accumulation but also accelerates the processing speed. For performance evaluation, four data sets including images captured from various scenes under different conditions are tested. Extensive experiments show the effectiveness and the efficiency of our proposed approach. The images from the camera were processed near the camera itself and the results were published to the central server for further processing. The scope of this project is to present a cost effective viable solutions, so we will be implementing the system and technologies needed to process the image locally and convolution neural network (CNN) techniques used in detecting the number plate region.

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : HRM Training and Development to improve Employee Performance in a Organization

(51) International classification :G06Q0010100000, G06Q0010060000, G06Q0090000000, G09B0019000000, G09B0005000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :

HRM Training and Development to improve Employee Performance in a Organization Abstract: The ability of an organisation to retain its best employees through employee development is one of the most critical factors that contribute to the organization's long-term success and productivity. If employers do not address certain issues, the process will be lengthy and extremely frustrating for employees. It is implemented through a well-planned training and development programme that incorporates a variety of methods developed by subject-matter experts. In today's fast-paced world, any business must ensure that its employees maintain current skills and knowledge. Every business must look for ways to cut costs while increasing output. The most effective means of accomplishing this objective is through professional development programmes that emphasise employee education and training.

No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : Factors affect the Academics' Job Satisfaction in Higher Education

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0050200000, G06Q0030020000, E05D0007000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

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(57) Abstract :

Factors affect the Academics' Job Satisfaction in Higher Education. Abstract: Academicians are necessary for the proper operation of a university. Indeed, they are regarded as an institution's lifeblood. Promising institutions go to great lengths to retain academic staff in order to maintain accreditation and ensure the satisfaction of all stakeholders. Academics who are content with their jobs can be invaluable to management and engineering firms as well as universities. The term job satisfaction refers to an employee's attitude toward their place of employment. This can be determined by the wage disparity between what they receive and what they expect from their job. Additionally, it wishes to determine the role of each of these dimensions in the development of job satisfaction. Indian academics from a variety of management and engineering schools in the Delhi-NCR region were included in the sample. The study's 235 academics were chosen using a simple random sampling method. The majority of the initial data was gathered through the use of survey questionnaires created by the researchers. Descriptive and regression analysis were used to examine the collected data. The authors established a statistically significant and linear relationship between job characteristics and job satisfaction in this study. Pay was discovered to be one of the most critical aspects of a job; it had the greatest effect on job satisfaction, up to and including the amount of assistance received. 410β. There are numerous ways to improve your job satisfaction if you are dissatisfied with it. That will come later. The percentages of individuals in each group are 399, 324, and 238, respectively.

No. of Pages : 9 No. of Claims : 8

(54) Title of the invention : Contrast, color enhancement based haze elimination of under-water by using image processing technology

<p>(51) International classification :G06T0005000000, G06K0009460000, G06T0005500000, G06T0005400000, G01J0003460000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr. J.James Manoharan Address of Applicant :Associate Professor & Head, Bishop Heber College (Autonomous), Tiruchirappalli -620 017 Tamil Nadu, India ----- 2)Dr N P G Bhavani 3)Mr.D.Sankar 4)Dr Suresh Babu V 5)Ms.S. Geerthana 6)Mr.B. Sathiyaprasad 7)Mr.S.Sudharsan 8)Mr.Bhaskar Kamal Baishya 9)Dr. Yogesh Sharma 10)Mr.Rathan Natarajan Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. J.James Manoharan Address of Applicant :Associate Professor & Head, Bishop Heber College (Autonomous), Tiruchirappalli -620 017 Tamil Nadu, India ----- 2)Dr N P G Bhavani Address of Applicant :Associate Professor Institute of ECE, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai- 602 105 Tamil Nadu, India ----- 3)Mr.D.Sankar Address of Applicant :PG Student, Hindusthan Institute of Technology, Valley Campus, Pollachi Highway, Coimbatore- 641032 Tamil Nadu, India ----- 4)Dr Suresh Babu V Address of Applicant :Associate Professor, Hindusthan institute of Technology, Valley Campus, Pollachi Highway, Coimbatore - 641032 Tamil Nadu, India ----- 5)Ms.S. Geerthana Address of Applicant :Assistant professor, K. Ramakrishnan College of Technology, Trichy- 621112 Tamil Nadu, India ----- 6)Mr.B. Sathiyaprasad Address of Applicant :Research Scholar, Annamalai University Annamalai Nagar Chidambaram- 608 002. Tamil Nadu, India ----- 7)Mr.S.Sudharsan Address of Applicant :Assistant Professor, Department of ECE, Rajalakshmi Engineering College (REC), Vellore - Chennai Rd, Rajalakshmi Nagar, Thandalam, Chennai- 602105 Tamil Nadu, India ----- 8)Mr.Bhaskar Kamal Baishya Address of Applicant :Dhruba Nagar, Ward no 5, PO & PS Golaghat- 785621 Assam, India ----- 9)Dr. Yogesh Sharma Address of Applicant :Assistant Professor, Bareilly College, Bareilly- 243001 Uttar Pradesh, India ----- 10)Mr.Rathan Natarajan Address of Applicant :Sr.Lead Engineer Software Collins Aerospace ,Bengaluru-560103 Karnataka, India -----</p>
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(57) Abstract :
Contrast, color enhancement based haze elimination of under-water by using image processing technology Abstract: Due to the scattering and absorption of light by water, the quality of underwater images degrades over time as this process occurs more slowly. This deterioration results in faded colours, decreased brightness, and difficulty distinguishing objects in the image. The proposed method improves the contrast as well as colour of underwater images. This method is suitable for repairing damaged images. Despite its simplicity, we believe our method will increase the frequency with which people see underwater images. The process of removing haze from the image is critical. Utilize the dark channel to remove haze from a single image. This is an easy way to remove haze from an image. Haze is a common natural and atmospheric phenomenon. Numerous image processing and computer application software programmes are battling to restore underwater image clarity.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002920 A

(19) INDIA

(22) Date of filing of Application :18/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : IMAGING BASED SECURITY DEVICE AND METHODS OF AUTHENTICATING AN AUTHORIZED USER THEREOF

<p>(51) International classification :H04L0029060000, G07C0009000000, H04W0012080000, G06F0003041000, G06F0021710000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. B. S. CHARULATHA Address of Applicant :Professor, Department of Information Technology, Rajalakshmi Engineering College, Chennai -----</p> <p>-----</p> <p>2)Dr. A. VISHNU PRIYA 3)Dr. ASHISH KUMAR SRIVASTAVA 4)Dr. P. SUDHA 5)Dr. K. SUTHA 6)Mr. M. EZHILVENDAN</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. B. S. CHARULATHA Address of Applicant :Professor, Department of Information Technology, Rajalakshmi Engineering College, Chennai -----</p> <p>-----</p> <p>2)Dr. A. VISHNU PRIYA Address of Applicant :Assistant Professor (Senior Grade 2), SCOPE, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore -----</p> <p>3)Dr. ASHISH KUMAR SRIVASTAVA Address of Applicant :Professor, Department of Computer Science and Engineering , School of Engineering, Presidency University, Bangalore -----</p> <p>4)Dr. P. SUDHA Address of Applicant :Assistant Professor, Department of Computer Science and Applications (MCA), SRM Institute of Science and Technology, Ramapuram Campus, Chennai -----</p> <p>-----</p> <p>5)Dr. K. SUTHA Address of Applicant :Assistant Professor, Department of Computer Science and Applications (MCA), SRM Institute of Science and Technology, Ramapuram Campus, Chennai -----</p> <p>-----</p> <p>6)Mr. M. EZHILVENDAN Address of Applicant :Assistant Professor, Department of Information Technology, Adhiparasakthi Engineering College, Melmaruvathur -----</p>
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(57) Abstract :

The present invention herein belongs to a security device, particularly relates to an authentication device with a touch panel interface, more particularly a plurality of imaging and colour palette embodied user authorization device to prevent an unauthorized access of services, in real-time efficiently, comprising a central processing unit, wherein said central processing unit [102] computes a plurality of inputs, a touch panel interface, wherein said touch panel interface [104] provisioned to display and also receive said plurality of inputs, a memory, wherein said memory [106] configures to maintain a database, a plurality of communication interfaces, wherein said plurality of communication interfaces [108] configured to transfer the computed data to a central cloud server, and a battery, wherein said battery [110] made the security device [100] as a stand-alone device. FIGURE 1

No. of Pages : 17 No. of Claims : 10

(54) Title of the invention : CHANGES IN METAL LEACHING FROM COAL FLY ASH DURING WET STORAGE AND REUSE

(51) International classification :B09B0003000000, A62D0003330000, C05D0009000000, A62D0101430000, C02F0011000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

A thermal power plant generates large amounts of fly ashes which contain toxic metals. The disposal of coal fly ash in ash pond subjects these metal rich materials to conditions that may result in further sequestration of the metals or to their release to the environment. The release and transport of trace metals from coal fly ash material in the wet storage in the ash ponds is an area of environmental concern. The major potential impacts of fly ash disposal in ash pond are leaching of potentially toxic substances into soils, surface water and groundwater. The soluble salt content in ashes is closely related to the coal properties and the age of the fly ash and also to the pH, electrical conductivity and other environmental conditions like temperature. When fly ash interacts with water, the principal processes affecting the leaching are dissolution of primary solids and precipitation of secondary solids as well as redox conditions, sorption and hydrolysis reactions. Leaching tests are used as tools to estimate the release potential of constituents from fly ash over a range of possible waste management activities, including recycling or reuse, for assessing the efficacy of waste treatment and disposal processes. The wet disposal of the fly ash into the ash ponds also causes leaching of constituents from fly ash due to weathering. pH of these storage ponds keeps decreasing with time thereby increasing leaching of elements like As, Pb, Se, Cr, Cu, Zn, etc. The ash solids in these ponds form complexes which trigger absorption or rapid release of elements into either the free water column or in the solid phases only through dissolution or adsorption. As, Cr, Cu, Pb and Se may form complexes with Ca, Fe, Al or Si. The young stage of ash ponds, a few months into existence shows maximum activity with respect to leaching, complex formation and re-precipitation. During reuse of coal fly ash as cement amendment, the elements which pose a greater risk of contaminating the surrounding water bodies are Al, As, Cd, Fe, Pb and Se. In the present research work, the main focus is to assess the leaching potential of fly ash in the fly ash ponds and to study the changes in metal speciation and mobility that can occur during wet storage of coal fly ash under static conditions as well as during reuse.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002945 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN APPARATUS FOR LOCATION TRACKING AND MONITORING THE OCCUPANCY STATUS OF A PUBLIC COMMUTING VEHICLE

<p>(51) International classification :G08B0021020000, G07C0009270000, G06K0019077000, B60L0058210000, G01S0019140000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)NATIONAL ENGINEERING COLLEGE - NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE Address of Applicant :K.R.NAGAR, KOVILPATTI - 628503, TAMIL NADU, INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)N Gowthami Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>2)V Anitha Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>3)R Raghul Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>4)B Dharangan Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>5)S Arun Sunder Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p> <p>6)B Saravanan Address of Applicant :National Engineering College, KR Nagar, Kovilpatti – 628503, Tamil Nadu -----</p>
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(57) Abstract :

An apparatus (10) for tracking the location and monitoring the occupancy status of a public commuting vehicle is disclosed. Said apparatus (10) broadly comprises: a primary control member (11); an at least a secondary control member (12); an at least a location tracking member (14); an at least an occupancy detecting member (13); an at least a communication member (15); a first power source (17); an at least a second power source (18); and an application on a computing device (16). The disclosed apparatus (10): is simple in construction; is cost-effective; can be retrofitted to vehicles; and helps to remotely monitor the location and the occupancy status of vehicles. Figure to be Included in Abstract is Figure 1

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002946 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN APPARATUS FOR THE SURVEILLING OF WATER FROM A POTABLE WATER SOURCE

(51) International classification :H01M0010480000, G06K0009000000, C02F0001000000, H04L0029060000, B01D0061360000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :

An apparatus for the surveilling of water from a potable water source is disclosed. Said apparatus broadly comprises: a plurality of sensing members; an at least a control member (101); an at least a filtering member; a pressure control member (114); and an acoustic sensing member-based water level controller. Said plurality of sensing members includes: an at least a cloudiness sensing member (102); an at least a dissolved content sensing member (103); and an at least a pH sensing member (104). Said at least one control member (101) determines whether water from a source of potable water is potable or not, and also instructs said apparatus to perform remedial action to make said water potable, if said water is determined as not being potable. The disclosed apparatus offers at least the following advantages: is simple in construction; is cost-effective; is reliable; has low maintenance costs; and can be retrofitted into or onto existing water tanks. Figure to be Included in Abstract is Figure 1

No. of Pages : 28 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002947 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A DEVICE FOR CONTROLLING THE ILLUMINATION LEVEL OF A VEHICLE HEADLAMP

(51) International classification :G08G0001160000, H05B0041392000, G08G0001090000, H01R0009240000, B60Q0001140000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A device (10) for controlling the illumination level of a vehicle headlamp, depending on the location of travel, is disclosed. Said device (10) broadly comprises: an at least a controlling member (11); an at least a location tracking member (12); an at least a switching member (14); and a dashboard member (13). The at least one controlling member (11) is configured to identify the location of travel of the vehicle, on which the device (10) is installed, along with a type of road, and switch the illumination level of the vehicle headlamp between low and high. The disclosed device (10) offers at least the following advantages: is simple in construction; is cost-effective; can be retrofitted to vehicles; and helps reduce tragic accidents due to high-beam lights.

No. of Pages : 15 No. of Claims : 9

(54) Title of the invention : A MACHINE LEARNING BASED APPROACH TO DETECT MALWARE IN CYBER SECURITY

(51) International classification :H04L0029060000, G06F0021560000, G06F0021550000, G06F0021620000, G06N0020000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 A machine learning based approach to detect malware in the cyber over cloud with the intention of providing security and privacy to the sensitive data that are transferred over cloud. The proposed invention is implemented by applying feature selection to the cloud data by machine learning for the purpose of identifying the possible malware that may interrupt the functionality of network. The invention will alert the concerned persons if there exist features that are endangering to the cyber and its security issue.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : METHOD OF PREPARING HERBAL SANITATION KIT

<p>(51) International classification :A61K0036530000, A61K0008970000, A61K0036738000, B01D0011020000, C10L0010020000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kalasalingam Academy of Research & Education Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu Email ID: ipr@klu.ac.in Mb: 8807110703 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)V. Aruna Janani Address of Applicant :119, Valalar Street, Rajapalayam, Virudhunagar - 626 117 -----</p> <p>2)D. Gokul Address of Applicant :Department of Chemical Engineering, SBCE, KARE- 626126 -----</p> <p>3)E.Karthikeyan Address of Applicant :Department of Chemical Engineering, SBCE, KARE- 626126 -----</p> <p>4)Keerthana Address of Applicant :Department of Chemical Engineering, SBCE, KARE- 626126 -----</p> <p>5)Satheesh Address of Applicant :Department of Chemical Engineering, SBCE, KARE- 626126 -----</p>
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(57) Abstract :

A method (400) of preparing herbal sanitation kit, wherein the method (400) comprising steps of: grinding dried Ocimum Basilicum Linn leaves (100) using a grinding method; isolating an extract from the grinded Ocimum Basilicum Linn leaves (100) at a first predefined temperature by adding a first predefined amount of solvent; filtering the extract of the Ocimum Basilicum Linn leaves (100) using a filtration technique; concentrating the filtered extract of the Ocimum Basilicum Linn leaves (100) at a second predefined temperature to prepare Ocimum Basilicum Linn concentrate; preparing liquid soap mixture of the herbal sanitation kit by mixing a first predefined ratio of an exothermic solution, a second predefined ratio of an oil and a third predefined ratio of the Ocimum Basilicum Linn concentrate; and drying the liquid soap mixture in a mold for a first predefined duration of time to prepare a soap (300) of the herbal sanitation kit.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002964 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD OF PREPARATION OF THERMAL INSULATION PLASTER

(51) International classification :A61K0036880000, A61K0009700000, A61K0036290000, E04F0013020000, E04F0013040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

A method(200) of preparation of plaster (106) for exterior walls, the method (200) comprising steps of: drying Typha Latifolia (100) collected from water bodies by using a drying technique; pulverizing the Typha Latifolia (100) by using a pulverizer; collecting cement (102) and fine aggregates (104) required for a preparation of the plaster (106); and adding a pre-defined percentage of the pulverized Typha Latifolia (100) in the collected cement (102) and the fine aggregates (104) to prepare the plaster (106) to be applied on the exterior walls.

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : ROBOTIC WEED REMOVING APPARATUS AND METHOD THEREOF

<p>(51) International classification :G06K0009000000, G06K0009460000, B07C0005342000, G06K0009620000, G06T0007000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kalasalingam Academy of Research & Education Address of Applicant :Kalasalingam Academy of Research & Education Indian Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil-626 126, Srivilliputhur, Virudhunagar District, Tamil Nadu Email ID: ipr@klu.ac.in Mb: 8807110703 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)R. Raja Subramanian Address of Applicant :5/482, Krishna Nagar First Street, Krishnankoil, Srivilliputtur (via), Virudhunagar-626126 -----</p> <p>2)Sandhya Tanushkodiraman Address of Applicant :129, Thambapillai Street, Rajapalayam - 626117 -----</p> <p>3)Chinimilli Bhanu Mohan Kumar Address of Applicant :Chinimilli Bhanu Mohan Kumar Indian India 6-35, RayalamBhimavaram, West Godavari, Andhra Pradesh-534208 -----</p> <p>4)Monika SreeVelampudi Address of Applicant :Flap S1, Shri Lakshmi Ganapati Residency, Sai Madhav Nagar, Vepagunta, Vishakapatnam, Andhra Pradesh. Pincod: 530047 -----</p> <p>5)R. Raja Sudharsan Address of Applicant :14/7, Duraisamy Nagar, Main Street, Bye Pass Road, Madurai. Pincod: 625010 -----</p>
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(57) Abstract :

A robotic weed removing apparatus (100), the apparatus (100) comprising: a robotic vision unit (104), wherein the robotic vision unit (104) comprises: an image capturing unit (106) to capture images of a farmland having weeds grown among crops; an image processing unit (108) configured to: compare the captured images with images pre-stored in a Database(110); and recognize the weeds from the captured images based on the comparison by using deep learning techniques; a guidance unit (112) adapted to guide the apparatus (100) to turn wheels (118) of the apparatus (100) to a specific position of the farmland having the recognized weeds; a flexible rotating arm (116) to be moved in a downward direction to uproot recognized weeds from the specific position of the farmland.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002966 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : SYSTEM FOR INDICATING LIQUIFIED PETROLEUM GAS LEVEL

(51) International classification :G06Q0030060000, F02M0021020000, F02D0041000000, F02D0019060000, G01N0033000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A system(100) for indicating Liquefied Petroleum Gas (LPG) level, the system(100) comprising: a weight sensor (102) to detect an amount of Liquefied Petroleum Gas (LPG) present in a cylinder; a processing unit (108) adapted to receive the detected amount of the Liquefied Petroleum Gas (LPG) and to compare the detected amount with a predefined threshold value; a communication unit (122) adapted to share a message on a user device (118) and/or to a gas agency when the compared amount of the Liquefied Petroleum Gas (LPG) is less than the predefined threshold value; a gas sensor (104) to detect a leakage of the Liquefied Petroleum Gas (LPG) from the cylinder; and an alerting unit (110) adapted to trigger an alarm based on the detected leakage of the Liquefied Petroleum Gas (LPG).

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241002967 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD OF PREPARING ORGANIC MANURE TO PROMOTE PLANT GROWTH AND CROP YIELD

(51) International classification :C05F0003000000, C05F0011000000, C05F0009040000, A23L0033105000, A01C0001060000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A method (600) of preparing an organic manure to promote plant growth and crop yield, wherein the method (600) comprising steps of: preparing panchagavya (102) using a first set of constituents; loading an apparatus (100) with a first predefined amount of the prepared panchagavya (102); adding a second predefined amount of tender coconut water (104) in the apparatus (100) containing the prepared panchagavya (102); and adding a third predefined amount of a plant hormone (106) in the apparatus (100) to prepare the organic manure.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003026 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : IOT Based – Automated Indoor Air Quality and LPG Leak Detection Control System.

<p>(51) International classification :F24F0011300000, B60H0001000000, F24F0011620000, F24F0110660000, F24F0110700000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Daniel Lawrence I Address of Applicant :2/83, Kottagaimeedu, Arumbanur (Post), Madurai-625104. ----- 2)Dr.C.Ramesh Kannan 3)B.Aravinth 4)Dr.S.Rajarajan 5)Dr.P.Venkatesh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Daniel Lawrence I Address of Applicant :2/83, Kottagaimeedu, Arumbanur (Post), Madurai-625104. ----- 2)Dr.C.Ramesh Kannan Address of Applicant :Professor/ Mechanical Engineering Dr.NavalarNedunchezhiyan College of Engineering, Cuddalore, Tamilnadu, India - 606303. ----- 3)B.Aravinth Address of Applicant :Assistant Professor/ Mechanical Engineering Dr.NavalarNedunchezhiyan College of Engineering, Cuddalore, Tamilnadu, India - 606303. ----- 4)Dr.S.Rajarajan Address of Applicant :Instructor, Sri Ramakrishna Mission Vidyalya Industrial Training Institute, Coimbatore - 641001 ----- 5)Dr.P.Venkatesh Address of Applicant :Assistant Executive Engineer/Mechanical, TANGEDCO, Kundah Pumped Storage Hydro Electric Project, Emerald, The Nilgiris-643209. -----</p>
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(57) Abstract :

Indoor air quality characteristics is more important in ergonomically comfortable vehicle journey. Nowadays, In India, the significance of awareness in indoor air quality has been increasing for several years. An advanced system and method is developed with advanced design for Indoor air quality control system for sensing and controlling indoor air within a car cabin. The auto IAQ control system and LPG detector is implemented for maintain the occupants comfort and safe environment, comprising of, Air Conditioner (01), Microcontroller (02), Energy saver mode/Swift mode ON/OFF (03), Wi-Fi sensor (40) Alarm for toxic concentration of Alcohol (04), Temperature sensor and relative humidity sensor(11), Carbon Dioxide sensor (12), Particulates matter (13) and Alcohol detector (14), wherein the advanced and most precision sensors are associated with in the system and monitors and controls the indoor air characteristics. The micro controller receive the data from the sensing device and based on the receiving data, the micro controller operate the vehicle air conditioning system also indicate the LPG concentration.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003064 A

(19) INDIA

(22) Date of filing of Application :19/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD FOR MAXIMIZING SEAMLESS VERTICAL MEDIA INDEPENDENT HANDOVER USING MODIFIED INVASIVE WEED OPTIMIZATION ALGORITHM

<p>(51) International classification :H04W0036000000, H04W0036140000, H04W0036300000, H04W0036360000, H04W0036180000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr Siddaram R Patil Address of Applicant :Professor of ECE & Dean Academics , PDA college of engg, Kalaburgi, Karnataka -----</p> <p>2)Soumya B Peddi</p> <p>3)Dr Jayashree Agarkhed Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr Siddaram R Patil Address of Applicant :Professor of ECE & Dean Academics , PDA college of engg, Kalaburgi, Karnataka -----</p> <p>2)Soumya B Peddi Address of Applicant :Assistant Professor Computer science and Engg , PDA college of engg, Kalaburgi, Karnataka -----</p> <p>-----</p> <p>3)Dr Jayashree Agarkhed Address of Applicant :Professor Computer science and Engg , PDA college of engg, Kalaburgi, Karnataka -----</p>
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(57) Abstract :

ABSTRACT METHOD FOR MAXIMIZING SEAMLESS VERTICAL MEDIA INDEPENDENT HANDOVER USING MODIFIED INVASIVE WEED OPTIMIZATION ALGORITHM The present disclosure relates to a method for maximizing seamless vertical media independent handover using modified Invasive Weed Optimization (IWO) algorithm. The method comprising of initialization of population of seed and dispersing, calculation of fitness for weed, reproduction of seeds, generation and evaluation, and selection of new population. The modified IWO algorithm is implemented in vertical handoff (VHO) decision making problem where the balancing of Network load is the chief constraint. The effect of optimization technique involves seamless VHO support in heterogeneous wireless networks. The modified IWO involves handoff decision process using vertical handoff triggering and selection of the wireless network.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : AI based Intelligent Hybrid Power Management System for Smart City

(51) International classification :H02J0003140000, H02J0003000000, G06Q0050060000, H02J0003320000, G05B0015020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 The regulation of energy supply and demand may be improved via methods and systems. An energy control unit includes one or more algorithms for scheduling the management of energy consumption devices based on predicted energy supply and demand. Devices that may be planned or postponed in energy consumption are triggered at times of the lowest energy consumption. Activation of energy storage batteries and other energy sources (such as solar cells) is done to sell energy to the grid when it is judged that the cost circumstances are favourable.

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : MAXIMAL CONNECTIVITY MODELING OF HUMAN BRAIN NETWORKS

<p>(51) International classification :G16C0020300000, A61B0005047600, C12Q0001370000, G06N0003020000, A61K0031506000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr L Mary Florida Associate Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering Chunkankadai Nagercoil Address of Applicant :Dr L Mary Florida Associate Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering, Chunkankadai, Nagercoil- 629 003 Tamil Nadu. -----</p> <p>2)Dr M Felix Nes Mabel Assistant Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering Chunkankadai Nagercoil 3)Mrs. S. Asha Alice Assistant Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering Chunkankadai Nagercoil 4)Dr R Jemila Rose Associate Professor Dept of IT St.Xavier’s Catholic College of Engineering Chunkankadai Nagercoil Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr L Mary Florida Associate Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering Chunkankadai Nagercoil Address of Applicant :Dr L Mary Florida Associate Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering, Chunkankadai, Nagercoil- 629 003 Tamil Nadu. -----</p> <p>2)Dr M Felix Nes Mabel Assistant Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering Chunkankadai Nagercoil Address of Applicant :Dr M Felix Nes Mabel Assistant Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering, Chunkankadai, Nagercoil- 629 003 Tamil Nadu. -----</p> <p>3)Mrs. S. Asha Alice Assistant Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering Chunkankadai Nagercoil Address of Applicant :Mrs. S. Asha Alice Assistant Professor Dept of Mathematics St.Xavier’s Catholic College of Engineering, Chunkankadai, Nagercoil- 629 003 Tamil Nadu. -----</p> <p>4)Dr R Jemila Rose Associate Professor Dept of IT St.Xavier’s Catholic College of Engineering Chunkankadai Nagercoil Address of Applicant :Dr R Jemila Rose Associate Professor Dept of IT St.Xavier’s Catholic College of Engineering, Chunkankadai, Nagercoil- 629 003 Tamil Nadu. -----</p>
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(57) Abstract :

Graph analysis is rapidly growing in popularity as an approach to modelling the complexity of the human brain connectivity. Network science and graph theory applications have recently spread widely to help in understanding how human cognitive functions are linked to neuronal network structure, thus providing a conceptual frame that can help in reducing the analytical brain complexity and underlining how network topology can be used to characterize and modelling. The main purpose of this paper is how brain properties can emerge through the interactions of distinct neuronal units in various cognitive and neurological applications using graph labelling methods and to analyze Maximal connectivity modelling in the human brain network.

No. of Pages : 21 No. of Claims : 4

(54) Title of the invention : Public Healthcare medicinal plants for disease prevention

(51) International classification :C07K0014415000, C12N0015820000, A61K0038000000, A61K0038170000, C12N0015620000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

A transgenic garlic plant producing pokeweed antiviral protein, or a fusion protein containing pokeweed antiviral protein and ricin A-chain, is one embodiment of the invention, according to one embodiment. According to the researchers, garlic plants with this transgene may be more disease resistant, and the plant's antiviral properties may be beneficial to animals who ingest the plant. According to another aspect of the invention, a vector including a polynucleotide that encodes pokeweed antiviral protein and a fusion protein comprising pokeweed antiviral protein and ricin A-chain is a vector provided. According to a further aspect of the invention, the invention includes a fusion protein comprising pokeweed antiviral protein or a fusion protein comprising pokeweed antiviral protein and ricin A-chain, or a combination thereof. Depending on the formulation, the fusion protein may be administered to a person either as an extract or in conjunction with a pharmaceutical excipient as an antiviral drug.

No. of Pages : 23 No. of Claims : 5

(54) Title of the invention : IOT BASED REALTIME LANDSLIDE MONITORING SYSTEM

<p>(51) International classification :G01D0004000000, G08C0017020000, H04W0024080000, G06F0015160000, G01V0003200000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)A Selvaraj Address of Applicant :8 Rethinasamy nagar First street RMS Colony NK Road Thanjavur ----- 2)Dr.G.SUDHA 3)Mrs.M.Birunda 4)Dr.A.S.Anakath 5)Dr.R.Kannadasan 6)Dr.M. SUBAGUNASEKAR 7)Dr.V.VIDYAPRIYA 8)Dr. M. VIGNESHKUMAR 9)Dr. R.A. REJIN NISHAKALANK 10)Dr. MALINI MURRALI Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)A Selvaraj Address of Applicant :8 Rethinasamy nagar First street RMS Colony NK Road Thanjavur ----- 2)Dr.G.SUDHA Address of Applicant :Professor, Department of Biomedical Engineering, Muthayammal Engineering College, Rasipuram, Tamil Nadu. India ----- 3)Mrs.M.Birunda Address of Applicant :Assistant Professor, Department of Biomedical engineering, Muthayammal Engineering College, Rasipuram, Tamil Nadu. India ----- 4)Dr.A.S.Anakath Address of Applicant :Professor, School of Computing, E.G.S Pillay Engineering College, Nagapatinam, Tamil Nadu, India ----- 5)Dr.R.Kannadasan Address of Applicant :SCOPE, Department of Software system, VIT Vellore. Tamil Nadu, India ----- 6)Dr.M. SUBAGUNASEKAR Address of Applicant :Guest lecturer, Department of Geoin-formatics, The Gandhigram Rural In-sistute, Dindigul, Tamil Nadu, India ----- 7)Dr.V.VIDYAPRIYA Address of Applicant :16, F3, Silver Spring Apartment, Bethel-puram East, Tambaram, Chennai, Tamil Nadu, India ----- 8)Dr. M. VIGNESHKUMAR Address of Applicant :Associate Professor, Department of Civ-il Engineering, PSN College of Engi-neering and Technology, Tirunelveli, Tamil Nadu, India ---- 9)Dr. R.A. REJIN NISHAKALANK Address of Applicant :Anadha Bhaban, Bharanivilai, Kaniya-kumari, Tamil Nadu. India ----- 10)Dr. MALINI MURRALI Address of Applicant :Director, Sri Saradha College for Wom-en, Tirunelveli, Tamil Nadu. India -----</p>
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(57) Abstract :
ABSTRACT TITLE: IOT BASED REALTIME LANDSLIDE MONITORING SYSTEM IoT based real time landslide monitoring system in landslide prone zone comprising: a monitoring section (112) constituted to sensing components and produce the measurement data of said parameters from landslide prone zone quickly. A transmitting section (110) configured to transmit said pa-rameters to the central server. A central server (201) configured to store the measured data of said parameters. A remote display unit (202) configured to display all measured data. The said real-time parameters monitoring system in landslide prone zone comprising said Insitu unit configured to measure the said parameters across landslide prone zones comprising a central processor (109) and central server unit (201) configured to save and produce the said parameters remotely. {Figure 1 and 2}

No. of Pages : 18 No. of Claims : 8

(54) Title of the invention : PATIENT MANAGEMENT IN HOSPITAL EMERGENCY SYSTEM USING BLOCKCHAIN

(51) International classification :G16H0010600000, H04L0009320000, G06Q0020400000, G06Q0050220000, A61B0006000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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10)Mrs Fatima M Inamdar
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(57) Abstract :
 There is a technique for preauthorization that includes a computer system and a computer software product. Identifying a therapy for a medical problem with a beneficial result may be part of the present invention. The present invention may also include the identification of many essential aspects of the identified therapy. An additional step in the present invention may be to identify several traits applied to a patient. An additional aspect of the present invention might identify a stakeholder-based on the patient's characteristics. Additionally, the identified stakeholder may be authorized by the present invention. A new block may then be created based on the authorized stakeholder by the present invention. The fresh block may be added to a blockchain network to process authorizations.

(54) Title of the invention : Wavelet Domain Based Adaptive Line Enhancement (WD-ALE) with a Controlled Delay for Noise Cancellation in Phonocardiogram Recording

(51) International classification :A61B0007040000, A61B0007000000, A61B0005000000, A61B0005040200, G06T0005000000

(86) International Application No Filing Date :PCT// / :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :
 Background/ambient noise elimination is one of the most significant tasks for heart sound/phonocardiogram (PCG) analysis-based diagnosis of cardiovascular disease. Given the diagnostic value of PCG in assessing several cardiac disordered and cardiac condition monitoring it is extremely important detect non-cardiac sounds during PCG recording. We propose a wavelet decomposition based adaptive line enhancer (WDALE) for denoising the phonocardiograms in which step size is controlled with the periodic nature of the signals. A suitable shift or delay in adaptive line enhancement is estimated using ratio of singular values of the embedded matrix constructed via selected window in phonocardiogram. This estimated delay is in fact the time period of a heartbeat. A fast conversion of learning curve can be achieved when wavelet decomposed signal is passed through weights in adaptive phase with least-mean-square (LMS). Wavelet domain based least mean square subjects to faster convergence due to orthogonal components of the input signals which result through wavelet decomposition. Cardiac sounds contaminated with environmental high frequency and stationary signals are efficiently separated/suppressed from meaningful cardiac sound with a significant accuracy. The proposed adaptive filter is tested with some cardiac sound with SNR more than dB.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003339 A

(19) INDIA

(22) Date of filing of Application :20/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ALUMINIUM FERRITE (AlFeO₃): RECYCLABLE AND LEACH RESISTANT MAGNETIC PHOTOCATALYST FOR WASTEWATER TREATMENT

(51) International classification :B01J0035000000, C02F0001720000, C02F0001300000, C02F0101300000, B01J0037020000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

ABSTRACT ALUMINIUM FERRITE (AlFeO₃): RECYCLABLE AND LEACH RESISTANT MAGNETIC PHOTOCATALYST FOR WASTEWATER TREATMENT The present disclosure discloses the process of synthesis of Aluminium ferrite (AlFeO₃) as a magnetic photocatalyst for treatment of slurry wastewater in presence of UV and visible light sources. FIG. 2B

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : A DRINKING VESSEL

(51) International classification :A61L0002100000, A47G0019220000, H02M0007120000, H02M0003158000, G06F0003048700

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A DRINKING VESSEL The present disclosure relates to a drinking vessel (100) for liquid sterilization that includes a hollow body (20), a lid (2), a sensing unit (4), a control unit (6), a switching and timing unit (8), a UV lamp (10) and a handle (26). The hollow body (20) holds a liquid to be sterilized. The lid (2) is configured to be manually displaced for closing and opening the mouth of the body (20). The sensing unit (4) senses the level of liquid in the body (20). The control unit (6) is configured to generate control signal based on sensed signal. The switching and timing unit (8) receives control signal and is configured to generate an activation signal to turn ON the UV lamp (10) for a predefined time period to emit ultraviolet light inside the body (20) for sterilization of the liquid.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003357 A

(19) INDIA

(22) Date of filing of Application :20/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : CONTROL SYSTEM OF BLDC MOTOR/ PMSM OF THE ELECTRO-MECHANICAL ACTUATION SYSTEM FOR AIRBORNE APPLICATIONS

(51) International classification :H02P0006160000, H02P0006080000, H02P0006120000, H02P0007030000, H02P0029024000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention discloses a system and method for providing higher reliability to the control system of the Brush less direct current (BLDC) Motor/ Permanent Magnet Synchronous Motor (PMSM) of the electro-mechanical actuation (EMA) system for airborne applications/ vehicles. It is comprising of Motor 1, Fins 19, Absolute encoder 20, HALL Sensor, Incremental encoder, Control section 3, Gate Driver 50, H-Bridge circuit 64, Servo power supply 16, provided with redundant features consisting of a) 3 Gate drivers - Gate Driver 1 50, Gate Driver 2 51, Gate driver 3 60; b) 2 sets of HALL sensors: HALL sensor 1, HALL sensor 2; c) 2 sets of Incremental Encoders: Incremental Encoder 1, Incremental Encoder 2 and d) 2 Power stages (H-Bridge): H-Bridge circuit 1 64, H-Bridge circuit 2 65 having six MOSFETs in each stage. It makes the system to operate continuously even if any one of the primary/default features fails.

No. of Pages : 45 No. of Claims : 13

(54) Title of the invention : The potential of green thinking in HR promotion and sustainable development of IT sectors staffs

<p>(51) International classification :G06Q0010100000, G06Q0010060000, G09B0019000000, G06Q0050220000, G06Q0050100000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. M. Manimekalai Address of Applicant :Assistant Professor, Department of Commerce, Srimad Andavan Arts and Science College (Autonomous), T.V. Kovil, Trichy, Pin: 620005, Tamilnadu. -----</p> <p>-----</p> <p>2)Dr. S. Thanigaimani 3)Dr.L.Satheeskumar 4)Mr. N. Senthilkumaran 5)Dr.S.Gopi 6)Dr. K. Kannan 7)Mrs. M. SathanaPriya 8)Dr. Vidhya.P 9)Dr.S.Tephillah Vasantham 10)Mr. M.Vadivel</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. M. Manimekalai Address of Applicant :Assistant Professor, Department of Commerce, Srimad Andavan Arts and Science College (Autonomous), T.V. Kovil, Trichy, Pin: 620005, Tamilnadu. -----</p> <p>-----</p> <p>2)Dr. S. Thanigaimani Address of Applicant :Assistant Professor, Department of Commerce, Srimad Andavan Arts and Science College (Autonomous), T.V. Kovil, Trichy, Pin: 620005. Tamilnadu. -----</p> <p>-----</p> <p>3)Dr.L.Satheeskumar Address of Applicant :Assistant Professor, PG and Research Department of Commerce, K.N.Govt. Arts College for Women (A), Thanjavur, Pin: 613007 Tamilnadu. -----</p> <p>--</p> <p>4)Mr. N. Senthilkumaran Address of Applicant :Assistant Professor Mepco School of Management Studies, Mepco Schlenk Engineering College, (Autonomous), Mepco Schlenk Engineering College, Sivakasi, Pin: 626005 Tamilnadu. -----</p> <p>5)Dr.S.Gopi Address of Applicant :Assistant Professor, Mepco School of Management Studies, Mepco Schlenk Engineering College, Sivakasi, Pin: 626005 Tamilnadu. -----</p> <p>6)Dr. K. Kannan Address of Applicant :Associate Professor, MBA Department, Mepco Schlenk Engineering College, Sivakasi, Pin : 626005, Tamilnadu. -----</p> <p>7)Mrs. M. SathanaPriya Address of Applicant :Assistant Professor, Karpagam Academy of Higher Education, Pollachi main road, Echanari Coimbatore, Pin 641021 Tamilnadu. -----</p> <p>8)Dr. Vidhya.P Address of Applicant :Assistant Professor, Department of B.Com (CA), Sri Ramakrishna College Of Arts and Science(Autonomous), Avinashiroad, Nava India Coimbatore. Pin: 641006 Tamilnadu. -----</p> <p>9)Dr.S.Tephillah Vasantham Address of Applicant :Assistant Professor, Department of Management Studies, Mepco Schlenk Engineering College, Sivakasi, Pin:626005. Tamilnadu. -----</p> <p>10)Mr. M.Vadivel Address of Applicant :Assistant Professor, Department of Commerce – PA, Sri Ramakrishna College of Arts and Science, Coimbatore. Pin: 641006 Tamilnadu. -----</p>
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(57) Abstract :

[09] Green HRM plays a vital role all over the world. Today, many of the 5 organizations that accept online applications rely on the human resource management team to review the application and conduct virtual interviews as well as provide online training and development. Therefore, it is very useful and convenient for the employees and also for the organization. Especially large organizations conduct employee performance reviews, compensation, employee relations, and 10 other wellness activities over the Internet. The objective of this study is to measure green thinking among IT employees in Madurai. The study is exploratory and analytical. It is designed to analyze the level of green thinking and gauge their level of interest in green HRM implementation among IT employees in Madurai. Monthly income and green training and development (0.035), green performance appraisal 15 (0.021), and green employee relations (0.037) are worth less than the table value (0.05). Therefore, the null hypothesis is accepted and the alternative is rejected. The majority (72%) of respondents agree that the organization encourages green entrepreneurs and provides guidelines for implementing green HRM security measures. And respondents also agree that the organization conducts virtual 20 interviews, collects the online application, and displays the green logo on the company website, etc.

No. of Pages : 20 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003389 A

(19) INDIA

(22) Date of filing of Application :20/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A THERMAL CONTROL COATING COMPOSITION FOR PASSIVE TEMPERATURE CONTROL AND METHOD FOR PREPARING THE SAME

(51) International classification :C09D0001020000, C04B0028260000, B64G0001500000, C04B0111000000, C08K0003340000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Disclosed herein is a very low solar absorptive, high IR emissive, and antistatic thermal control coating composition with very low volatile condensable matter evolution and a method for preparing the same, wherein an inorganic polymer binder is selected, and blended with special oxide and silicate fillers like gallium oxide, magnesium oxide, indium oxide, aluminium oxide, aluminosilicate, magnesium silicate, etc. to form a premix. The said premix is dispersed in aqueous medium, applied over the substrate and curing is done at ambient temperature to form the said curable coating composition. The invention is very much useful in both spacecraft thermal control systems and general purpose radiators.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003519 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A KIND OF MUSHROOM FORTIFIED CAKE PREPARATION METHOD THEREOF

(51) International classification :A21D0002360000, A21D0002340000, A21D0013800000, A23L0031000000, A21D0002180000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In recent days lot of innovation is developed in the food industry such as wafer, crunchy chocolates, ice cream biscuits and cakes. Cakes are usually consumed by all age groups and it is a must item during the celebrations. These cakes are to be consumed freshly as it has very less shelf time. Most of the cakes are prepared from maida which is not good for health and in order to overcome this issue it is been proposed to prepare cakes using wheat flour and a special ingredient dry oyster mushroom powder which enhances the taste and flavor of the cake. The dry oyster mushroom powder adds more nutritional value to the cake and many more advantages are mentioned in detail.

No. of Pages : 21 No. of Claims : 9

(54) Title of the invention : A Blockchain-based interface for secret remote communication through a smartphone using wireless sensor network.

<p>(51) International classification :H04L0029080000, H04L0029060000, H04W0084180000, H04L0009320000, H04L0012240000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Rajib Guhathakurta Address of Applicant :Associate Professor, Sri Venkateswara College of Engineering and Technology, Department of IT, Chittoor, Andhra Pradesh, Pin : 517127 -----</p> <p>2)Dr. A. Jegatha Christy</p> <p>3)Rakesh Yemineni</p> <p>4)T R S Chandran</p> <p>5)Dr. Abhijit Chandratreya</p> <p>6)Ahmed Refaie Ali</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Rajib Guhathakurta Address of Applicant :Associate Professor, Sri Venkateswara College of Engineering and Technology, Department of IT, Chittoor, Andhra Pradesh, Pin : 517127 -----</p> <p>2)Dr. A. Jegatha Christy Address of Applicant :Assistant Professor of Physics, Jayaraj Annapackiam College for women, Periyakulam 625601 Theni District Tamilnadu, India -----</p> <p>3)Rakesh Yemineni Address of Applicant :Associate Professor, Department of ECE, Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering and Technology, Vijayawada , Andhra Pradesh -----</p> <p>4)T R S Chandran Address of Applicant :Assistant Professor, Department of ECE, Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering and Technology, Vijayawada , Andhra Pradesh -----</p> <p>5)Dr. Abhijit Chandratreya Address of Applicant :Assistant Director (Research, Training and Development), SCES'S INDIRA INSTITUTE OF MANAGEMENT PUNE, India -----</p> <p>6)Ahmed Refaie Ali Address of Applicant :Mathematics and Computer Science Department, Faculty of Science, Menoufia University, Egypt -----</p>
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(57) Abstract :
This invention analyzes a block-chain based interface for secret remote communication through a smartphone using wireless sensor network. The internet is a global system of interconnected computers and computer networks that use a standard internet protocol suit to communicate with each other. The Internet of Things (IoT) is based on the idea that everyday objects, not just computers and computer networks, can be readable, recognisable, locatable, addressable, and controllable via secret remote communication through a smartphone using wireless sensor network.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003576 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Development Of Advanced Artificial Intelligence Model and Its Impact on Cryptocurrency Market

<p>(51) International classification :G06Q0020060000, G06Q0040040000, G06N0020000000, G06Q0050000000, H04L0012580000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)K Arul Rajan Address of Applicant :Professor, PSG Institute of Management, PSG College of Technology, Coimbatore, Tamilnadu, India -----</p> <p>-</p> <p>2)Rajimol K P 3)Md. Abdul Raheem Junaidi 4)Himanshu Gupta 5)Kawerinder Singh Sidhu 6)Dr M srinivasa 7)Dr. Jitendra 8)Dr. G. Rajasekar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)K Arul Rajan Address of Applicant :Professor, PSG Institute of Management, PSG College of Technology, Coimbatore, Tamilnadu, India -----</p> <p>-</p> <p>2)Rajimol K P Address of Applicant :Assistant Professor, Atria Centre for Management and Entrepreneurship, Atria Institute of Technology, Hebbal, Bangalore, Karnataka India. -----</p> <p>3)Md. Abdul Raheem Junaidi Address of Applicant :Assistant Professor, Mechanical Engineering Department, Muffakham Jah college of Engineering and Technology, Banjara Hills, Hyderabad, Telangana, India -----</p> <p>4)Himanshu Gupta Address of Applicant :Assistant Professor, Department of CSE, College of Engineering Roorkee, Utrakhand, India -----</p> <p>5)Kawerinder Singh Sidhu Address of Applicant :Research Scholar, Uttaranchal Institute of Management (UIM) Uttaranchal University, Dehradun, Utrakhand -----</p> <p>-----</p> <p>6)Dr M srinivasa Address of Applicant :Narayana Professor, BBA Department, KL Business School, KL University KLEF Vijayawada, Andhra Pradesh ----</p> <p>-----</p> <p>7)Dr. Jitendra Address of Applicant :Gowrabhathini, Associate Professor, KL Business School, KL University, KLEF Vijayawada, Andhra Pradesh -----</p> <p>-----</p> <p>8)Dr. G. Rajasekar Address of Applicant :Professor, Department of Business Administration, CR Engineering College, Tirupati, Andhra Pradesh -----</p>
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(57) Abstract :

This invention analyzes development of advanced artificial intelligence model and its impact on cryptocurrency market. Decentralize cryptocurrency have emerged new currency worldwide. Challenges increases as increasing in popularity of cryptocurrency. Therefore AI can use as solution for challenges. AI gives big data solution as live chatbots, analyze social media message, anti fraud mechanism, handle lot of users at real time etc. According to an embodiment AI is extensively used in intelligent trading systems to do stock market prediction and currency price prediction. This helps in taking decisions on when to buy, hold or sell a stock based on different markers that change over time. Anti-fraud detection tasks make use of machine learning to learn from spending behaviors and patterns and detect suspicious patterns.

No. of Pages : 15 No. of Claims : 3

(54) Title of the invention : Artificial Intelligence Based System For Improving Understanding Skills Of Humanoid Robots Through Implementing Neural Network.

<p>(51) International classification :G09B0019000000, G06N0020000000, G06F0040300000, G06N0003000000, G06N0003020000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Chetan Jagannath Shelke Address of Applicant :Associate Professor, Department of Information Technology, Alliance University ,Bangalore -----</p> <p>-----</p> <p>2)Rajib Guhathakurta 3)Dr. Amitkumar Jaydevbhai Nayak 4)Susmita Das 5)Dr. Rathnakar Achary 6)Janmejy Pant Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Chetan Jagannath Shelke Address of Applicant :Associate Professor, Department of Information Technology, Alliance University ,Bangalore -----</p> <p>-----</p> <p>2)Rajib Guhathakurta Address of Applicant :Associate Professor,, Sri Venkateswara College of Engineering and Technology, Department of IT, Chittoor, Andhra Pradesh, Pin : 517127 -----</p> <p>3)Dr. Amitkumar Jaydevbhai Nayak Address of Applicant :Head of the Department, Assistant Professor, Devang Patel Institute of Advance Technology and Research, Charotar University of Science and Technology, Gujarat, India -----</p> <p>4)Susmita Das Address of Applicant :Assistant Professor, Electronics and Instrumentation Engineering Department Narula Institute of Technology, Kolkata, West Bengal, India -----</p> <p>5)Dr. Rathnakar Achary Address of Applicant :Associate Professor, Department of Information Technology, Alliance University ,Bangalore -----</p> <p>-----</p> <p>6)Janmejy Pant Address of Applicant :PhD Scholar, University Institute of Pharmaceutical Sciences, SAS Nagar, Mohali -----</p>
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(57) Abstract :

This invention analyzes artificial intelligence based system for improving understanding skills of humanoid robots through implementing neural network. The design of intelligent computers has been a goal of the discipline of Artificial Intelligence (AI) since the arrival of digital computers. This invention brings a new framework that concludes human actions from observations using semantic representations. The semantic or symbolic depiction techniques castoff to distinguish human activities combine the information found from image arrangements with their trajectories, thereby yielding more accurate systems for recognizing human actions in real scenarios. This framework could be exploited to discourse the tough and exciting problem of transferring tasks and skills to humanoid robots. This framework made to permit robots to acquire and govern a higher-level understanding of a demonstrator's behaviour via semantic representations.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : IoT, Machine Learning Based Intelligent Intrusion Detection Systems for Detecting Cyber Threats

<p>(51) International classification :H04L0029060000, G06F0021560000, G06N0020000000, G06Q0050180000, H04L0029080000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Koteswara Rao Vaddempudi Address of Applicant :Professor Prakasam Engineering College, Kandukur, Prakasam dt, Andhra Pradesh, India ----- 2)Dr. Khel Prakash Jayant 3)Mrs. Channaveeramma E 4)Dr.K.M.Palaniswamy 5)Dr. P. Santhosh Kumar 6)Mr. A. Suresh 7)Mrs. R.M. Mallika 8)Mr. G. Saravana Gokul 9)Dr.O.Nagaraju 10)Dr. Brijesh Sathian 11)Dr.Ravi Kanth Motupalli Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Koteswara Rao Vaddempudi Address of Applicant :Professor Prakasam Engineering College, Kandukur, Prakasam dt, Andhra Pradesh, India ----- 2)Dr. Khel Prakash Jayant Address of Applicant :Professor Dewan VS Institute of Engineering & Technology, Affiliated : AKTU, Meerut 250103,Uttar Pradesh, India Uttar Pradesh, India ----- 3)Mrs. Channaveeramma E Address of Applicant :Assistant Professor Department of Electronics and Communication Engineering Navodaya Institute of Technology Raichur-584101, Karnataka, India ----- 4)Dr.K.M.Palaniswamy Address of Applicant :Professor Department of Electronics and Communication Engineering Dr.T.Thimmayya Institute of Technology, KGF., Karnataka, India ----- 5)Dr. P. Santhosh Kumar Address of Applicant :Assistant Professor, SRM Institute of Science and Technology, Ramapuram Campus, Bharathi Salai, Chennai, 600089, Tamilnadu, India ----- 6)Mr. A. Suresh Address of Applicant :Associate Professor Siddharth Institute of Engineering & Technology, Puttur 517583, Andhra Pradesh, India ----- 7)Mrs. R.M. Mallika Address of Applicant :Associate Professor Siddharth Institute of Engineering & Technology, Puttur, 517583, Andhra Pradesh, India ----- 8)Mr. G. Saravana Gokul Address of Applicant :Assistant Professor Siddharth Institute of Engineering & Technology, Puttur, 517583, Andhra Pradesh, India ----- 9)Dr.O.Nagaraju Address of Applicant :Assistant Professor& Head, Dept. Of Computer Science, Govt. Degree College, Macherla, Andhra Pradesh, India ----- 10)Dr. Brijesh Sathian Address of Applicant :Scientist, Geriatrics and Long term care Department, Rumailah Hospital, Hamad Medical Corporation, Doha, Qatar, P. O BOX 3050, Doha, Qatar ----- 11)Dr.Ravi Kanth Motupalli Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, VNRVJIET, Bachupally, Hyderabad, Telangana, India -----</p>
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(57) Abstract :
IoT, Machine Learning Based Intelligent Intrusion Detection Systems for Detecting Cyber Threats Abstract: The number of devices connected to the internet has grown in lockstep with the popularity of the internet. Since then, the Internet of Things has exploded in popularity. Cyber-attacks have also increased in number as a result of these new technologies. Users of IoT devices and devices on the market are at risk as a result of these attacks. Depending on the circumstances, these errors can result in significant financial and intellectual property losses. There is only one way to recover data stolen from malicious software and malware distributed by malicious individuals via the Internet of Things (IoT). With the TensorFlow platform, you can create Deep Learning algorithms to assist you in determining if someone stole your programming or source code. This is a form of infringement of intellectual property. It's called Google Code Jam (GCJ), and it occurs annually. The General Commission on Judicial Oversight conducts an annual investigation into utilisation theft to ascertain its true nature. It is a common practise to obtain malware samples via the Mailing Dataset. Deep Learning has a lot of potential for the future as a new and efficient way to solve real-world problems in the detection of cyber security threats.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003611 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Food Analysis Using Chemical Sensor

(51) International classification :G01N0033000000, G01N0033120000, G01N0033020000, B01D0061120000, H01L0029786000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Food Analysis Using Chemical Sensor Abstract: Electronic nose has gained wide acceptance in different industrial applications and with rapid advances in sensor technologies adopted for E-nose, there is more promising applications for E-nose. E-nose technologies is considering various advancements in areas of sensor design, improvement in materials, innovations in software, micro circuitry design to reduce footprint and system integration. In this work, a prototype electronic nose is developed for checking food quality. The system uses array of metal oxide semiconductor to sense the samples and the signals from the samples are analyzed using artificial neural network which can categorize the food sample. Through experiments, the proposed solution was found to have a categorization accuracy of 94.40%. The results are promising and demonstrate the reliability of electronic nose for food sample testing.

No. of Pages : 13 No. of Claims : 8

(54) Title of the invention : A Study of Magnetic Properties of Dy doped YFeO3 Multiferroics

<p>(51) International classification :H01F0001400000, G01N0023200000, G01N0023220600, C04B0035624000, H01L0043100000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.G. Padmasree, Professor/ Department of Physics, Stanley College of Engineering and Technology for Women. Address of Applicant :Stanley College of Engineering and Technology for Women, Chapel Road, Abids, Hyderabad,Telangana-500001. -----</p> <p>2)Dr.Lakshmi Dwarapudi, Lecturer / Department of Physics, Government Degree College.</p> <p>3)M.Sumalatha, Assistant Professor/ Department of Physics, Sreenidhi Institute of Science and Technology.</p> <p>4)Dr.Atragada.Chittibabu, Assistant Professor (Adhoc) / Department of Physics, Krishna University.</p> <p>5)Dr.Paritala Raghava Rao, Assistant Professor (Adhoc) / Department of Physics, Krishna University Dr. MRAR PG Centre.</p> <p>6)Dr.N.Narasimha Rao, Assistant Professor (Adhoc) / Department of Physics, Krishna University Dr. MRAR PG Centre.</p> <p>7)Dr.B. Jayaram Satyanarayana Swamy, Assistant Professor (Adhoc) / Department of Physics, Krishna University Dr. MRAR PG Centre.</p> <p>8)Dr.N.Ch.Ramesh Babu, Assistant Professor (c) / Department of Physics, Rajiv Gandhi University of Knowledge Technologies.</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.G. Padmasree, Professor/ Department of Physics, Stanley College of Engineering and Technology for Women. Address of Applicant :Stanley College of Engineering and Technology for Women, Chapel Road, Abids, Hyderabad,Telangana-500001. -----</p> <p>2)Dr.Lakshmi Dwarapudi, Lecturer / Department of Physics, Government Degree College. Address of Applicant :Government Degree College, Pithapuram, East Godavari, A.P-533450. -----</p> <p>3)M.Sumalatha, Assistant Professor/ Department of Physics, Sreenidhi Institute of Science and Technology. Address of Applicant :Sreenidhi Institute of Science and Technology, Yamnampet, Ghatkesar, Hyderabad, Telangana-501301. -----</p> <p>4)Dr.Atragada.Chittibabu, Assistant Professor (Adhoc) / Department of Physics, Krishna University. Address of Applicant :Krishna University, Machilipatnam, A.P-521003. -----</p> <p>5)Dr.Paritala Raghava Rao, Assistant Professor (Adhoc) / Department of Physics, Krishna University Dr. MRAR PG Centre. Address of Applicant :Krishna University Dr. MRAR PG Centre, Nuzvid, A.P-521201. -----</p> <p>6)Dr.N.Narasimha Rao, Assistant Professor (Adhoc) / Department of Physics, Krishna University Dr. MRAR PG Centre. Address of Applicant :Krishna University Dr. MRAR PG Centre, Nuzvid, A.P-521201. -----</p> <p>7)Dr.B. Jayaram Satyanarayana Swamy, Assistant Professor (Adhoc) / Department of Physics, Krishna University Dr. MRAR PG Centre. Address of Applicant :Krishna University Dr. MRAR PG Centre, Nuzvid, A.P-521201. -----</p> <p>8)Dr.N.Ch.Ramesh Babu, Assistant Professor (c) / Department of Physics, Rajiv Gandhi University of Knowledge Technologies. Address of Applicant :Rajiv Gandhi University of Knowledge Technologies, Nuzividu, A.P-521202. -----</p>
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(57) Abstract :

Abstract The structural and magnetic properties of $Y_{1-x}Dy_xFeO_3$ ($x = 0.0, 0.2, 0.4, 0.6$ and 0.8) multiferroic materials have been investigated in this paper. By employing sol-gel method, Dy doped YFeO₃ multiferroic materials are being prepared. The samples are characterized by X-Ray Diffraction (XRD) analysis and Scanning Electron Microscopic (SEM) studies. XRD graphs show that all the samples are crystalline, monophasic and possess distorted orthorhombic structure. SEM studies reveal that samples possess non uniform distribution of grains and possess irregular shape. Magnetization studies of Dy doped YFeO₃ suggests that magnetic properties of the samples strongly depend on the doping concentration of Dy. As doping concentration increases it enhances the magnetic properties of YFeO₃. This enhancement may be due to the additional Dy-Dy interactions, Dy-Fe interactions and Fe-O-Fe super exchange bond caused by the distortion of crystal structure.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003615 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A PRODUCT WARRANTY LIFECYCLE MANAGEMENT SYSTEM AND A METHOD TO OPERATE THE SAME

(51) International classification :G06Q0030060000, G06Q0030000000, G06Q0010100000, H04W0004000000, G06F0016903800

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A product warranty lifecycle management system (100) is disclosed. A product information acquisition module (110) receives a product list representative of a plurality of products available with a plurality of sellers, collects product information associated with each of the plurality of products of the product list. A warranty registration module (120) registers each of the plurality of products with a warranty expiry date under a corresponding consumer's name for offering product warranty. A warranty notification module (130) displays product warranty information on a user interface of an electronic device associated with a plurality of consumers, notifies upcoming product routine service to the plurality of consumers. A service handling module (140) receives identification details of one or more nominees nominated by a corresponding plurality of consumers, enables the one or more nominees nominated to handle the upcoming product routine service based on verification of the one or more identification details using one or more verification techniques. FIG.1

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003655 A

(19) INDIA

(22) Date of filing of Application :21/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : FLAME RETARDENTCOATING COMPOSITION AND A PROCESS FOR ITS PREPARATION

(51) International classification :C09D0005180000, B01J0023000000, C09D0004000000, C12N0015113000, C09D0165000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

ABSTRACT FLAME RETARDENTCOATING COMPOSITION AND A PROCESS FOR ITS PREPARATION The present disclosure relates to a flame retardant coating composition and a process for its preparation. The coating composition comprises exfoliated nanosheets of at least one anionic clay, wherein the anionic clay is exfoliated by using at least one surfactant and water, under sonication. The coating composition is effectively used for coating PU foams. The coating composition of the present disclosure effectively retards the fire and extinguishes the flame of the PU foams. The flame retardant coating composition can also be used in a paint composition.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003675 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : A POWER SUPPLY SYSTEM WITH BIOMETRIC AUTHENTICATION FOR ELECTRIC VEHICLE AND METHOD THEREOF

<p>(51) International classification :H04L0029080000, G06F0021320000, H02J0007350000, H04W0012000000, B60R0016033000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. R. Palanisamy Address of Applicant :Assistant Professor, Department of EEE, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu - 603203 -----</p> <p>2)Dr. S. Usha</p> <p>3)Dr. T. M. Thamizh Thentral</p> <p>4)Dr. K. Selvakumar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. R. Palanisamy Address of Applicant :Assistant Professor, Department of EEE, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu - 603203 -----</p> <p>2)Dr. S. Usha Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu - 603203. -----</p> <p>-----</p> <p>3)Dr. T. M. Thamizh Thentral Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu - 603203. -----</p> <p>-----</p> <p>4)Dr. K. Selvakumar Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu - 603203. -----</p> <p>-----</p>
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(57) Abstract :

[030] The present invention discloses a power supply system with biometric authentication for electric vehicle and method thereof. The system includes, but not limited to, a vehicle battery system configured to supply power for driving the electric vehicle and provided with a rechargeable module and a biometric device; a network module with a display device connected with a biometric device in an IoT network for activating and monitoring a plurality of parameters of the vehicle battery system which is associated with one or more electric devices; a processing unit configured to recharge on the vehicle battery system using electric energy generated by a solar power generator, and perform charging termination control on the vehicle battery system when the detected charge amount is equivalent to a predetermined charge amount; a user identification module for identifying a network fingerprint based on the IoT network; and a memory unit for storing user fingerprints in a database. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003690 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : DYNAMIC MULTIPATH ROUTING USING MOBILE NODES TO REDUCE DELAY AND ENERGY CONSUMPTION FOR CONGESTION CONTROL IN WIRELESS SENSOR NETWORKS

<p>(51) International classification :H04W0084180000, H04L0012761000, H04L0012801000, H04L0012733000, H04W0040040000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Suma S Address of Applicant :Information Science and Engineering, Poojya Doddappa Appa College of Engineering, Aiwani-E-Shahi Area, Shambhognlli, Kalaburagi, Karnataka 585102 -----</p> <p>2)Dr.Bharati Harsoor Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Suma S Address of Applicant :Information Science and Engineering, Poojya Doddappa Appa College of Engineering, Aiwani-E-Shahi Area, Shambhognlli, Kalaburagi, Karnataka 585102 -----</p> <p>2)Dr.Bharati Harsoor Address of Applicant :Information Science and Engineering, Poojya Doddappa Appa College of Engineering, Aiwani-E-Shahi Area, Shambhognlli, Kalaburagi, Karnataka -----</p>
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(57) Abstract :

Dynamic topology causes connection breakdown as well as reduced capacity unstable connections, lowering system capacity as well as causing delays as well as cause issues. The stability of the connection, channel capacity, as well as the power of the cluster have all been important factors in ensuring successful wireless connectivity. Current WSN focus on multi-hop networks, where evaluates the optimum number of hops, and every connection breakdown causes link failures, raising resend duration as well as power usage. To identify the congestion control, a control mechanism based on signal transmitting, receive connection speed, and caching queue is used. An on-demand link, as well as a power flexible multicast routing strategy for WSN, was now being designed to overcome these challenges. The suggested technique determines the signal strength of networks using a LEI, which determines whether or not a link was steady or unsteady. The O-LEADM system determines the neighbor node residual power as well as builds mutually routing strategy while retaining a link stable, accurate, plus interconnect lifespan.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003691 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Automatic assistance system based on IoT for effective crowd management

(51) International classification :H04L0029080000, H04Q0003000000, G06Q0010060000, G06Q0010000000, G06Q0030000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :
 The goal of this work would be to estimate individuals in any service company using IoT sensors and RFID technologies. The job's purpose is to control and minimize crowding so that network operators may give better service to customers. The job's goals seem to be to investigate present operational processes, including inadequacies and to create intelligent services for the existing system. In repair facilities, the role entails managing people in an automated way. The adoption of an IoT-based automated presence and numbering technology in repair shops can help control crowds. Whenever the barrier limit is exceeded, the automated process calculates the number of people in the repair center and restricts admission.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003696 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Fuzzy Model to Improve Manpower Capability

(51) International classification :G06Q0010060000, A61K0031047000, G06N0007020000, C07K0014500000, C12P0001000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Specialist conversations, Analytic Hierarchy Process (AHP) analytics, & the Fuzzy Logic System (FLS) are used throughout this research to examine the firms' Engineering Manpower Outsourcing (EMO) competency. The results of this research reveal that EMO competencies can be broken down into three factors: price, assets, and strategies. The overall results of the study showed that the price factor has the most effect on EMO. The overall findings of the fuzzy assessment show that when a business wants to enhance its EMO, companies should priorities a mixture of straight price & skill sub-variables inside a resource factor above the different price & approach sub-variable configurations. Furthermore, empirical findings suggest that this interior procedure sub-variable had a substantial effect on a technique factor, whereas the interior coaching & foreign alliances, sub had a minimal effect upon this technique factor when it comes to EMO.

No. of Pages : 13 No. of Claims : 8

(54) Title of the invention : The Block chain technology to protect data access using a smart contract mechanism

<p>(51) International classification :G06F0021620000, H04L0029080000, H04L0029060000, H04L0009320000, G06Q0040040000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr Lingareddy Nagulapalli Address of Applicant :Assistant Professor, DTDP, SPA, Dr. YSRAF University, Kadapa, Andhra pradesh, 516001 -----</p> <p>2)Dr. Navneet Kumar Agrawal</p> <p>3)Mr. Abhijit Maidamwar</p> <p>4)Dr. Archana Vyas</p> <p>5)Mr. Javangula Vamsinath</p> <p>6)Ms. Mahima Yadav</p> <p>7)Mr. Mahendra Kumar B</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr Lingareddy Nagulapalli Address of Applicant :Assistant Professor, DTDP, SPA, Dr. YSRAF University, Kadapa, Andhra pradesh, 516001 -----</p> <p>2)Dr. Navneet Kumar Agrawal Address of Applicant :Assoc. Professor, Department of Electronics and Communication Engineering, College of Technology and Engineering, MPUAT,Udaipur 313001 Rajasthan -----</p> <p>3)Mr. Abhijit Maidamwar Address of Applicant :Assistant Professor,Department of Electronics and Telecommunication Engineering, G H Raisonni Institute of Engineering and Technology , Hingana-wadi link road,MIDC, Nagpur-440016, Maharashtra ,India -----</p> <p>4)Dr. Archana Vyas Address of Applicant :Assistant professor,Department of Electronics and Telecommunication Engineering, G H Raisonni University, Amravati-444701, Maharashtra India -----</p> <p>5)Mr. Javangula Vamsinath Address of Applicant :Assistant Professor, Computer Science and Engineering,VNR Vignana Jyoti Institute Of Engineering And Technology, Bachupally, Hyderabad, Telangana,500015 -----</p> <p>---</p> <p>6)Ms. Mahima Yadav Address of Applicant :Department of Computer Science and Engineering, Sikkim Manipal Institute of Technology, Sikkim -----</p> <p>7)Mr. Mahendra Kumar B Address of Applicant :Assistant Professor, Department of MCA, Dayananda Sagar College of Engineering, SM Hills, Kumaraswamy Layout Bengaluru- 560111, Karnataka India -----</p>
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(57) Abstract :

Over the coming decades, the growing quantity of wireless equipment connected by broadband could reach millions. While computers are currently being increasingly presented offer possible methods for processing enormous information, privacy issues can be solved simply by massive techniques. By embracing the business paradigm, security issues would only get worse, particularly in the area of confidential information. But more financial information also health information acquired through highly complex interconnected gadgets. Therefore, the new fully distributed and highly private mentoring solution required dealing with these issues. Given the private characteristics of the entire industry, the innovation of the distributed ledger offers another potential option. This work shows an experimental infrastructure based on blockchain as well as a unique methodology for information accessibility based on smart deals with a single publishing company system.

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : Security model to predict threat in android applications and IoT

<p>(51) International classification :G06Q0050000000, H04L0029060000, H04L0029080000, G06F0021570000, G06F0021530000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Ms.Kusuma S M Address of Applicant :Research Scholar, School of Electronics and Communication Engineering, Reva University, Bangalore-560064, India ----- 2)Dr.Veena K N 3)Mr. Kellampalli Lakshmi Jaswanth 4)Ms.Sucheta Raut 5)Mr.Rahul Neware 6)Dr. Mukesh Yadav 7)Mr.Ashok Kumar. S Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Ms.Kusuma S M Address of Applicant :Research Scholar, School of Electronics and Communication Engineering, Reva University, Bangalore-560064, India ----- 2)Dr.Veena K N Address of Applicant :Associate Professor, School of Electronics and Communication Engineering, Reva University, Bangalore-560064, India ----- 3)Mr. Kellampalli Lakshmi Jaswanth Address of Applicant :Cyber Security Engineer Trainee, Department of Computer Science Engineering, Chalapathi Institute of Engineering and Technology, Guntur, Andhra Pradesh- 522034, India ----- 4)Ms.Sucheta Raut Address of Applicant :Assistant Professor, Department of Electronics and Telecommunication Engineering, G H Raison Institute of Engineering and Technology, Hingana-wadi link road,MIDC, Nagpur -440028, Maharashtra, India ----- 5)Mr.Rahul Neware Address of Applicant :PhD Research Fellow, Department of Computing, Mathematics and Physics, Høgskulen på Vestlandet, Inndalsveien 28, 5063 Bergen, Norway ----- 6)Dr. Mukesh Yadav Address of Applicant :Department of Computer Science and Engineering, DPG Institute of Technology and Management, Gurgaon-122004, Haryana, India ----- 7)Mr.Ashok Kumar. S Address of Applicant :Assistant Professor, Department of Computer Science, AVP College of Arts and Science, Tirupur-641 603, Tamilnadu,India -----</p>
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(57) Abstract :
The latest software systems have become increasingly advanced, implemented under high scenarios, including the possibility of collaboration between different fields, with the introduction of mobile phones and social media. As a function, to address the dynamism present in these deterministic technologies, assessing their security threats would be a major issue that requires a great deal of reliability and adaptability. The purpose of this work explains many potential threats in the past and how to deal with the characteristics of present systems. It concentrates on the Internet of Things (IoT) and the security of the Android operating system. This involves identifying potentially risky conversations among applications that share similar gadgets, suggesting a model of detection systems to identify potential risks in emerging software products. It aids academics, academics, especially software engineers in working with actual issues.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003704 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : Equations for the relation between Differential Free Swell Index (DFSI) and Optimum Moisture Content (OMC) as well as Maximum Dry Unit Weight (MDUW) of Lime treated Expansive Soils.

(51) International classification :C09K0017060000, B09C0001080000, G06F0017180000, C05D0003020000, A61K0008190000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The goal of this research is to find empirical relationships for Differential Free Swell Index (DFSI) of lime stabilized samples to the Optimum Moisture Content (OMC) values, Maximum Dry Unit Weight (MDUW) and showed linear relationship with regression coefficient ranging between 0.99 to 1. These empirical relations were established between DFSI and OMC as well as DFSI and MDUW. When the OMC of lime-treated soils increases, so does the DFSI, and that the linear trend line has a very good regression coefficient. The corresponding linear expression between DFSI and OMC of lime treated soil is presented in Eqn.1 along with regression coefficient. And also when the MDUW of lime-treated soils increases, the DFSI decreases, and that the linear trend line showed very good regression coefficient. Eqn. 2 shows the linear relationship between DFSI and MDUW of lime-treated soil, as well as the regression coefficient. It can be suggested that these empirical formulae can be utilized in the assessment of Differential Free Swell Index of expansive soils which are treated with lime using Optimum Moisture Content (OMC) and Maximum Dry Unit Weight (MDUW) values.

No. of Pages : 4 No. of Claims : 2

(54) Title of the invention : A SYSTEM FOR COOPERATIVE WORK OF NODES IN IOT ENVIRONMENT AND METHOD THEREOF

<p>(51) International classification :H04L0029080000, H04W0004700000, H04L0012240000, H04W0084180000, H04L0012801000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr.Vijayakumar Sajjan Address of Applicant :Assistant Professor, Department of School of Engineering, Malla Reddy University, Maisammaguda, Dulapally, Hyderabad, Telangana, India. Pin Code:500043 ----- 2)Dr.Yogeesh N 3)Dr.Karthikeyan Palaniappan 4)Dr.V.Anjana Devi 5)Ms.Roshani K.Dharme 6)Mr.Anup Dnyaneshwar Bhange 7)Ms.Prajakta Singam 8)Mr.Shailesh Ashok Kurzadkar 9)Ms.Vaishali R.Surjuse 10)Mr.Dipak Pandit Chavan Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr.Vijayakumar Sajjan Address of Applicant :Assistant Professor, Department of School of Engineering, Malla Reddy University, Maisammaguda, Dulapally, Hyderabad, Telangana, India. Pin Code:500043 ----- 2)Dr.Yogeesh N Address of Applicant :Assistant Professor of Mathematics, Department of Mathematics, Government First Grade College, Tumkur, Karnataka, India. Pin Code:572102 ----- 3)Dr.Karthikeyan Palaniappan Address of Applicant :Associate Professor, Center for System Design (CSD), Chennai Institute of Technology, Chennai, Tamil Nadu, India. Pin Code:600069 ----- 4)Dr.V.Anjana Devi Address of Applicant :Associate Professor, Department of Computer Science and Engineering, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India. Pin Code:600119 ----- 5)Ms.Roshani K.Dharme Address of Applicant :Head of Department, Department of Computer Engineering (Diploma), G.H.Raisoni Institute of Engineering and Technology, Nagpur, Maharashtra, India. Pin Code:440016 ----- 6)Mr.Anup Dnyaneshwar Bhange Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, K.D.K College of Engineering, Nagpur, Maharashtra, India. Pin Code:440009 ----- 7)Ms.Prajakta Singam Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, K.D.K College of Engineering, Nagpur, Maharashtra, India. Pin Code:440009 ----- 8)Mr.Shailesh Ashok Kurzadkar Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, K.D.K College of Engineering, Nagpur, Maharashtra, India. Pin Code:440009 ----- 9)Ms.Vaishali R.Surjuse Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, K.D.K College of Engineering, Nagpur, Maharashtra, India. Pin Code:440009 ----- 10)Mr.Dipak Pandit Chavan Address of Applicant :Research Student, Department of Computer Science & IT, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India. Pin Code:431004 (Assistant Professor, Deogiri College, Aurangabad, MH) -----</p>
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(57) Abstract :
[035] The present invention discloses a system for cooperative work of nodes in IoT environment and method thereof. The system includes, but not limited to, an IoT network having a plurality of switches and a plurality of devices, and the plurality of switches communicate in a wired manner; and a processing unit is configured to divide the IoT network into a plurality of cluster domains according to the communication coverage of the plurality of switches. Further, each of the plurality of cluster domains is having an IoT edge server and at least one device among the plurality of devices, and further, the device performs wireless communication with a switch in the cluster domain where it is placed in the IoT network. Accompanied Drawing [FIG. 1]

No. of Pages : 20 No. of Claims : 8

(54) Title of the invention : Estimation of the Role of Social and Economic Infrastructure in the Promotion of Business Activities

<p>(51) International classification :G06Q0030020000, G06Q0010060000, G06Q0030060000, C12P0023000000, G06K0017000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.S.Dhanasekaran Address of Applicant :Assistant Professor Thiruvalluvar University, Vellore. Pin: 632115 State: Tamilnadu Country: India -----</p> <p>2)Dr.Yogesh Kumar Jain 3)Dr. V. BRINDA SHREE 4)Ms. Poornima.G 5)Dr. Sagar Onkarrao Manjare 6)Dr Mohammad Rauf 7)Dr PIALI BISWAS 8)Dr.R.GEETHA 9)Dr. Arun Kumar Pallathadka 10)Dr. Harikumar Pallathadka Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.S.Dhanasekaran Address of Applicant :Assistant Professor Thiruvalluvar University, Vellore. Pin: 632115 State: Tamilnadu Country: India -----</p> <p>2)Dr.Yogesh Kumar Jain Address of Applicant :Associate Professor School of Management, Presidency University, Bangalore Pin: 560064 State : Karnataka Country: India -----</p> <p>3)Dr. V. BRINDA SHREE Address of Applicant :ASSOCIATE PROFESSOR OF ENGLISH THE TIPSGLOBAL INSTITUTE, 361/1A, KARUVALUR ROAD, PS PUDUR POST, COIMBATORE Pin: 641107 State: TAMIL NADU Country: INDIA -----</p> <p>4)Ms. Poornima.G Address of Applicant :Assistant Professor AJK COLLEGE OF ARTS AND SCIENCE, Navakkarai, Coimbatore State: Tamilnadu Country: India -----</p> <p>5)Dr. Sagar Onkarrao Manjare Address of Applicant :Associate Professor and Ic. Principal Siddhant College of Management Studies, Sudumbare, Pune. Pin: 412109 State: Maharashtra Country: India -----</p> <p>6)Dr Mohammad Rauf Address of Applicant :Assistant Professor Aligarh Muslim University Cneter Murshidabad West Bengal Pin:742223 State: West Bengal Country: India -----</p> <p>7)Dr PIALI BISWAS Address of Applicant :Asst Professor Jamshedpur cooperative college jamshedpur jharkhand Pin:831001 State: Jharkhand Country: India -----</p> <p>8)Dr.R.GEETHA Address of Applicant :ASSISTANT PROFESSOR SRI KRISHNA ADITHYA COLLEGE OF ARTS AND SCIENCE Pin: 641042 State: TAMILNADU Country: INDIA -----</p> <p>9)Dr. Arun Kumar Pallathadka Address of Applicant :Adjunct Director, Center for Polar Studies, Manipur International University, Ghari, Imphal, Imphal West. Pin: 795140 State: Manipur Country: India -----</p> <p>10)Dr. Harikumar Pallathadka Address of Applicant :Director, Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140 State: Manipur Country: India -----</p>
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(57) Abstract :
Estimation of the Role of Social and Economic Infrastructure in the Promotion of Business Activities. Abstract: Before any development can begin, it is necessary to establish an infrastructure. Supporting infrastructure can aide or even accelerate a country's economic and social development. Attempting to start a business without these resources is akin to attempting to purchase a rare commodity at an exorbitant price that can be obtained only with a large sum of money. There has been considerable research into the provision and construction of infrastructure.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : Microcontroller Controlled Robot Arm for Paint Spraying

(51) International classification :B05B0013040000, B05B0013000000, A61K0036730000, B05B0013020000, B05B0015680000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Microcontroller Controlled Robot Arm for Paint Spraying Abstract: The purpose of this research is to develop an automated robot capable of painting on walls with low-cost tools. The majority of safety concerns that arise when multiple tasks are performed concurrently can be addressed to protect people from potentially dangerous and difficult environments. You can take a picture with the Raspberry Pi's camera. After that, you can save the image to your computer. After that, you can use this image as a guide to finish your painting. The estimated location of the spray gun is noted in the estimate. The artwork is shaped like a box. The Raspberry Pi module will be responsible for controlling the DC motors and actuators used in this project. Actuators are the individuals who move the scissor lift arms up and down. When the Raspberry Pi on the upper platform transmits a signal, the signal is transmitted to the air compressor on the lower platform. It automatically starts and stops working as required.

No. of Pages : 12 No. of Claims : 9

(54) Title of the invention : Vedic-Mathematics based Effective High- Speed and Low Power Multiplier Architecture using for DSP Application

<p>(51) International classification :G06F0007544000, G06F0007570000, H03H0017020000, G06F0007523000, G06F0007600000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. T. GUNASEKAR Address of Applicant :Associate Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology (Deemed to be University), Avadi, Chennai Pin: 600062 State: Tamilnadu Country: India -----</p> <p>2)Dr P. Mercy 3)Dr. E Sarva rameswarudu 4)Ms. Lipsa Das 5)Dr S. Christopher 6)Mr. Lalit Johari 7)Dr. Rajeev Kumar Shakya 8)Dr. SAURABH SHARMA 9)Dr. UMESH SEHGAL 10)Ms. NIRMAL KAUR Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. T. GUNASEKAR Address of Applicant :Associate Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology (Deemed to be University), Avadi, Chennai Pin: 600062 State: Tamilnadu Country: India -----</p> <p>2)Dr P. Mercy Address of Applicant :Professor & H. O. D.St. Joseph University, Virgin Town, Ikshe Model University, Dimapur Pin:797115 State: Nagaland Country: India -----</p> <p>3)Dr. E Sarva rameswarudu Address of Applicant :Assistant professor Kakinada Institute of Technology and Science, Tirupathi(v), Divili, peddapuram, east godavari dt, Pin: 533433, State: Andhra pradesh Country: India -----</p> <p>4)Ms. Lipsa Das Address of Applicant :Assistant Professor Amity University, plot no- 48A, Knowledge Park III, Greater Noida, Uttar Pradesh Pin: 201308 -----</p> <p>5)Dr S. Christopher Address of Applicant :Assistant professor Voorhees college PG & Resarch Department of Mathematics 1/A, Officer's line, Vellore Pin: 632001 State: Tamil Nadu Country: India -----</p> <p>6)Mr. Lalit Johari Address of Applicant :Assistant professor School of Computer Science & Applications , IFTM University Moradabad Pin:244001 State: UP Country: India -----</p> <p>7)Dr. Rajeev Kumar Shakya Address of Applicant :Assistant professor Adama Science and technology UNIVERSITY Pin:1888 Adama State: Adama Country: Ethiopia -----</p> <p>8)Dr. SAURABH SHARMA Address of Applicant :ASSISTANT PROFESSOR SANT BABA BHAG SINGH UNIVERSITY, DISTT. JALANDHAR Pin: 144030 State: PUNJAB Country: INDIA -----</p> <p>9)Dr. UMESH SEHGAL Address of Applicant :ASSOCIATE PROFESSOR SANT BABA BHAG SINGH UNIVERSITY, DISTT. JALANDHAR Pin: 144030 State: PUNJAB Country: INDIA -----</p> <p>10)Ms. NIRMAL KAUR Address of Applicant :ASSISTANT PROFESSOR SANT BABA BHAG SINGH UNIVERSITY, DISTT. JALANDHAR Pin: 144030 State: PUNJAB Country: INDIA -----</p>
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(57) Abstract :
Vedic-Mathematics based Effective High- Speed and Low Power Multiplier Architecture using for DSP Application Abstract: Individuals who work in digital signal processing frequently must perform complex math on data samples repeatedly, but they must do so quickly and with the least possible delay and power consumption. Multiply and accumulate are two intensive arithmetic functions used in modern VLSI and multiplication-based DSP applications such as the FFT and FIR filters. This manuscript proposes 4/8 bit Vedic multiplier. Follow the Vedic method if you wish to multiply. It is more precise than the usual method. The structural modules are created in Verilog HDL and tested with the Xilinx ISE tool.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : System and method using machine learning algorithm for vital sign data analysis

(51) International classification :A61B0005000000, G16H0050200000, A61B0005025500, A61B0005145000, G06Q0010060000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 System components include storage, a communications module for communicating with a medical measuring device, an analysis controller, and a test module that enables the testing and evaluation of decision-support algorithms to be carried out. A method for testing decision-support algorithms is disclosed, which includes the steps of receiving at least one decision-support algorithm into the storage of a ruggedized, compact computer; detecting with a communications module the initiation of a vital-sign monitoring session; receiving and storing vital-sign information into storage by the communications module; pushing the stored vital-sign information to a test module running the stored at least one decision-support algorithm; and receiving and storing vital-sign information into storage by the communications module.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003742 A

(19) INDIA

(22) Date of filing of Application :22/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : AN INTELLIGENT STETHOSCOPE THAT AUTO-DETECTS ABNORMAL HEARTBEAT SOUND

(51) International classification :A61B0017040000, A61B0005020000, A61B0005040000, G16H0020300000, A61B0005113000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

In a recent survey that was conducted by the Apollo Hospitals, it was revealed that India registers around 10 million cases of Arrhythmia per year. This disease occurs due to Abnormal Heartbeat. This disease attains serious repercussions, as it is left unattended. Thus, a device that clearly records and transmits the Beating Sound of the Heartbeat is necessary. This device exactly provides to the requirement. Physicians or general users can place the device across the left side of the heart where they can feel their heart beating. They let the device stay steady on their chest. They let the device record the heartbeat for around 20 seconds. The device would readily transmit the data to the cloud (provided it is connected to an Internet Connection). The aim of the device is that it would make basic diagnosis accessible to the Tier – 3 and Tier – 4 cities.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : IOT based Automated Toll Tax Collection System

<p>(51) International classification :G07B0015060000, H01Q0017000000, H01Q0001320000, H04B0007260000, G08G0001017000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms.S. Priya Address of Applicant :Assistant Professor /CSE, SRM Institute of Science and Technology,162, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu 600089 ----- 2)Mrs. Mary Joseph 3)Mrs.K. Sivasankari 4)Mrs.M.S. Siva Priya 5)Mrs.C. Ashwini 6)Mrs. G.Saranya Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms.S. Priya Address of Applicant :Assistant Professor /CSE, SRM Institute of Science and Technology,162, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu 600089 ----- 2)Mrs. Mary Joseph Address of Applicant :Assistant Professor / CSE, SRM Institute of Science and Technology,162, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu 600089 ----- 3)Mrs.K. Sivasankari Address of Applicant :Assistant Professor / CSE, SRM Institute of Science and Technology,162, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu 600089 ----- 4)Mrs.M.S. Siva Priya Address of Applicant :Assistant Professor / CSE, SRM Institute of Science and Technology,162, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu 600089 ----- 5)Mrs.C. Ashwini Address of Applicant :Assistant Professor/ CSE, SRM Institute of Science and Technology,162, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu 600089 ----- 6)Mrs. G.Saranya Address of Applicant :Assistant Professor / CSE, SRM Institute of Science and Technology,162, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu 600089 -----</p>
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(57) Abstract :

The purpose of the current invention is to create an electronic toll collecting system that is resistant to multipathing. To do this, the electronic toll collection system establishes a wireless connection between a roadside antenna of a toll gate and a vehicle unit mounted in a driving vehicle, which automatically collects tolls. In addition, it has a wireless communication zone of the tollgate that is protected by a structure that contains radio wave absorbent material. In most cases, an inner surface constructed of a radio wave absorbent component containing a blend of magnetic material and synthetic rubber is used. In this case, the roadside antenna is positioned inside the structure, allowing it to wirelessly connect exclusively with ETC cars going within the structure and blocking multi-path communication between the roadside antenna and vehicles travelling outside of the structure (or outside the communication zone).

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : Intelligent Contract Mechanism to Protect Data Navigation using Block Chain

<p>(51) International classification :G06F0021620000, H04L0029060000, H04W0012020000, G06Q0030000000, G08G0001010000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)ZULAIKHA BEEVI Address of Applicant :1317 K PLOT NO 51, BRINDAVAN NAGAR A COLONY, MAHARAJANAGAR, PALAYAMKOTTAI, TIRUNELVELI, TAMIL NADU, INDIA, 627011 -----</p> <p>2)DR. BHUMIKA KANTILAL CHARNANAND</p> <p>3)Dr. P. Rajesh</p> <p>4)Dr.G.Manikandan</p> <p>5)R. SELVAMEENA</p> <p>6)Anjaneya Turai</p> <p>7)Jai Saxena</p> <p>8)Varun Iyer</p> <p>9)Vijay Mohan Shrial</p> <p>10)Madhav Sharma</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)ZULAIKHA BEEVI Address of Applicant :1317 K PLOT NO 51, BRINDAVAN NAGAR A COLONY, MAHARAJANAGAR, PALAYAMKOTTAI, TIRUNELVELI, TAMIL NADU, INDIA, 627011 -----</p> <p>2)DR. BHUMIKA KANTILAL CHARNANAND Address of Applicant :ASSISTANT PROFESSOR, BHAGWAN MAHAVIR COLLEGE OF COMPUTER APPLICATION -----</p> <p>3)Dr. P. Rajesh Address of Applicant :Assistant Professor (Depited from Department of Computer and Information Science Annamalai University) PG Department of Computer Science, Government Arts College, C.Mutlur, Chidambaram, Tamil Nadu Pin. 608102 -----</p> <p>4)Dr.G.Manikandan Address of Applicant :Assistant Professor, Department of lectronics and Communication Engineering, Saveetha School Of Engineering, Saveetha Institute of Medical and Technical Sciences, Thandalam, Chennai-602105 -----</p> <p>--</p> <p>5)R. SELVAMEENA Address of Applicant :Assistant professor -CSE/Dr.MGR Educational and Research Institute -----</p> <p>6)Anjaneya Turai Address of Applicant :Student at Symbiosis Skills and Professional University -----</p> <p>7)Jai Saxena Address of Applicant :Symbiosis Skills And Professional University , Student -----</p> <p>8)Varun Iyer Address of Applicant :Student at Symbiosis Skills and Professional University -----</p> <p>9)Vijay Mohan Shrial Address of Applicant :Assistant Professor, Computer Science Department, Jagannath University, Chaksu bypass, Jaipur, Rajasthan -----</p> <p>10)Madhav Sharma Address of Applicant :Assistant Professor, Computer Science Department, Jagannath University, Chaksu bypass, Jaipur, Rajasthan -----</p>
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(57) Abstract :
This paper proposes an experimental approach and prototype to use digital evidence in the Internet of Things (IoT). When we talk about big data, we mean a slew of disparate, disparate sources of data. Now that we have access to such vast amounts of data, we can make more informed decisions about using that data in the future. There are various ways to get the data, including sensors, IoT, contact networks, mobile-to-mobile communication, etc. Nearly as wide as the concept of big data as the one of information security. Information Security professionals are pursuing standards for sensitive data. The uniqueness of this study is to evaluate new data privacy methods that should be applied in IoT in protecting data navigation operations. The testbed is an innovative concept for automobile navigation. GDPR compliance allows users to enter their GPS location into a blockchain for collecting road traffic information and alternate pathways. The automobiles interact among themselves over IoTs and sidestep the need for third-party services. We provide a method for forensic examinations of such a service by creating a solid case owing to the non-repudiable, unchangeable, identifiable as current and genuine qualities of data recorded into the blockchain. The proposed effort entails providing reliable data transport and data mining of large amounts of data using a novel encryption approach combined with blockchain technology to achieve this. This research would develop a unique protective framework for the transmission of data navigation via the use of BlockChain.

(54) Title of the invention : Generalized Approach for DCPWM Based Dual Inverter Fed OEWIM-DTC Drive

(51) International classification :H02P0021300000, H02P0027120000, H02M0001120000, H02P0023300000, H02M0007538700

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

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(57) Abstract :

Exemplary aspects of the present disclosure are directed towards a generalized procedure of decoupled pulse width modulation (DCPWM) based on Method called Direct Torque Control (DTC) for Open Ended Winding Induction motor drive (OEWIM) is anticipated in this paper. This drive topology uses two isolated dc sources with equal magnitudes, feeding two standard two level three-phase inverters. To overcome the complexity in classical space vector pulse width modulation (SVPWM) algorithm, a simple generalized approach is presented in this research by using the phase voltages. With this procedure, various PWM algorithms can be generated by varying a constant value. The dual inverters are operating independently with half of the switching frequency. To show the usefulness of proposed PWM fed DTC drive, simulation results analysis has been carried out by using MATLAB and results obtained.

No. of Pages : 16 No. of Claims : 3

(54) Title of the invention : MODELLING A SECURITY MODULE OF CYBER THROUGH ARTIFICIAL INTELLIGENCE

(51) International classification :H04L0029060000, G06N0003040000, G06N0003080000, G06F0021550000, G06N0020000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

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(57) Abstract :
 Modelling a security module for cyber security through artificial intelligence is the proposed invention that focuses on security intelligence based on artificial intelligence methods. The invention tries to prove the benefits of artificial intelligence and computing system together in the field of cyber security. The modelling of deep learning techniques is proposed to enjoy the benefits of artificial intelligence and thus solving the issues of cyber security such as cyber threats, attacks, damage and unauthorized access. The algorithm of deep learning that are used in the invention are convolutional neural network (CNW) and deep reinforcement learning (DIL0) algorithms.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003755 A

(19) INDIA

(22) Date of filing of Application :23/01/2022

(43) Publication Date : 04/02/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED TECHNIQUE TO PREDICT AND ANALYZE THE SALES OF ECOMMERCE SITES

<p>(51) International classification :G06Q0030060000, G06Q0030020000, G06Q0020120000, G01R0031300000, G06Q0050180000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)PROF.V.R.HIREMATH Address of Applicant :RESEARCH SCHOLAR,GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI ----- -- 2)DR.ALOK.V.GADDI 3)DR.BASVARAJ SULIBHAVI 4)DR.SHIVASHANKAR.K 5)DR.SANJEEV INGALAGI Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)PROF.V.R.HIREMATH Address of Applicant :RESEARCH SCHOLAR,GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI ----- -- 2)DR.ALOK.V.GADDI Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF MANAGEMENT STUDIES & RESEARCH,KLE TECHNOLOGICAL UNIVERSITY,HUBLI ----- 3)DR.BASVARAJ SULIBHAVI Address of Applicant :ASSOCIATE PROFESSOR,S.V.M.V.V SANGHAS, INSTITUTE OF MANAGEMENT STUDIES,ILKAL-587125 ----- 4)DR.SHIVASHANKAR.K Address of Applicant :ASSOCIATE PROFESSOR,DEPT OF MANAGEMENT STUDIES,PG CENTRE,VTU,BELAGAVI ---- ----- 5)DR.SANJEEV INGALAGI Address of Applicant :ASSOCIATE PROFESSOR,DEPT OF MANAGEMENT STUDIES,GIT BELAGAVI ----- -</p>
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(57) Abstract :

Artificial intelligence-based technique to predict and analyze the sales of ecommerce sites works on the principle of going through the purchase and sales of various ecommerce sites. The precious history of sales and purchase of various sites are analyzed to predict the further sales. The proposed invention will help the owner of the online shopping sites to decide upon his further income and also about the stocking and purchase of goods. This invention will be very much helpful especially during the pandemic situation. The invention is implemented based on predictive algorithms and results are used to arrive at conclusions.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPROACH TO MONITOR AND ANALYSE THE ACTIVITIES OF BANK OPERATIONS

(51) International classification :G06N0003040000, G06N0003020000, G06N0020000000, G06K0009620000, G06Q0020100000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Artificial intelligence-based approach to monitor and analyse the activities of bank operations is the proposed invention that aims to design and implement the framework that makes the digital banking system much easier. The proposed invention focuses on digital banking system and to address the flaws that are inherent in the existing banking techniques. Artificial intelligence algorithms such as neural networks and decision-making algorithms are implemented to classify and make decisions for handling that particular situation accordingly.

(54) Title of the invention : COVID-19 PATIENT HEALTHCARE MONITORING SYSTEM USING IOT AND WEARABLE SENSORS

(51) International classification :A61B0005000000, A61B0005145500, A61B0005024000, A61B0005020500, A61B0005010000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

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(57) Abstract :
With the increase in COVID-19 cases worldwide, there is a steep rise in the adoption of digital technologies for monitoring COVID-19 patients. Literature studies imply that nearly 60 million people are affected worldwide with COVID-19 by the end of 2020. Few of the common difficulties and symptoms of COVID-19 patients include elevated body temperature, reduced oxygen saturation level, irregular pulse rate, shortness of breath, dry cough and loss of taste and smell. The confirmation of COVID-19 infection in a patient is usually by conducting a Polymerase Chain Reaction (PCR) test. Enabling the patient with a wearable device once the COVID-19 infection is confirmed, can enable the physician to monitor important metrics such as changes in Electro Cardio Gram (ECG) readings, Heart Rate (HR), Respiratory Rate (RR), Blood Pressure (BP) and temperature to ensure clinical stability of the patient. The wearable device is housed with the Pulse Sensor to monitor the Heart Rate using Arduino processor. Temperature sensor is used to monitor the body temperature of the patient regularly and the same is transmitted to IoT server using Wi-Fi module. Cardiovascular stress and strain is a metric indicating the quality of sleep, stability and recovery of the patient. Changes in Heart Rhythm are monitored based on the Signal-to-Noise ratio (SNR) to indicate the stress levels of the patient. The built-in portable oximeter measures the blood oxygen saturation (SpO2) levels of COVID-19 patients, and any value measuring <90% is an indication of the need for immediate hospitalization of the patient.

(54) Title of the invention : User friendly new trend material for solar cell applications with low cost

(51) International classification :H01L0031035200, H01L0033260000, B82Y0010000000, H01L0031028000, B82Y0020000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 The invention relates to a photoelectronic device that incorporates a hybrid structure comprising silicon Nanoparticle and graphene quantum dots and a method of fabricating the device. Graphene Quantum Dots (GQDs) are attached to the surfaces of Silica Nanoparticles (SNPs) in the photoelectronic device according to the present disclosure, therefore boosting the efficiency of energy transmission in solar cells.

No. of Pages : 20 No. of Claims : 6

(54) Title of the invention : PERFORMANCE IMPROVED HEAT PIPE FOR COLD INTERFACE

(51) International classification :F28D0015020000, H01L0023427000, H05K0007200000, F25B0023000000, H01L0023373000

(86) International Application No :PCT//
Filing Date :01/01/1900

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Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
 Heat exchangers (heat transfer device) are systems used to transfer heat between two or more fluids. A heat pipe is a heat-transfer device that syndicates the principles of both thermal conductivity and phase shift to efficiently transfer heat between two solid interfaces. Heat pipes are the utmost common thermal solution in most contemporary computer systems and are regularly utilized to move heat away from components such as application processor (CPUs) and graphics processors (GPUs). Heat pipes are traditionally soldered on the top of a cold plate in most computing systems. Current heat pipe designs have limited surface area for heat transfer and also have limited thermal resistance. Usually, heat transfer competence can be augmented by adding more heat pipes (typically two) and/or using multi-directional heat pipes. In this invention, heat pipe is produced for heat improved thermal performance at a cold plate interface by evaporation and condensation of fluids within the pipe assembly through a solder layer, a cold plate, attachment springs (e.g., leaf springs), and semiconductor device. The solder layer attaches the heat pipe to the cold plate, and the cold plate is attached to the semiconductor device by way of some coupling means such as an adhesive and/or some mechanism that thermally couples the cold plate to the component. The attachment springs consent the thermal exchange assembly to be straddling in a computing system.

No. of Pages : 10 No. of Claims : 3

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(19) INDIA

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(43) Publication Date : 04/02/2022

(54) Title of the invention : Real time monitoring of vibration and automation of milling machine using IoT enabled embedded system.

(51) International classification :G05B0023020000, G05B0019180000, G01N0029460000, G01M0099000000, G06Q0050040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :

An evolution in Internet of Things enabled real time performance monitoring has become the innovation technology among both research and industrial society due to substantial and revolutionary standards. This invention presents a sound detection method for analyzing the central frequency and amplitude of the CNC milling machine resonant signals generated by the CNC milling operations. The spectral measurement and using a microphone reveals as a sound detector during milling process with the results of displaying frequency and amplitude graphs to see the CNC milling conditions. It is real time embedded system to analyze the condition of operated CNC milling machines. This invention demonstrates the overall performance in terms of control transmission, machine data collection, monitoring entire process and manufacturing product randomly. Ultimately, real time value determines the information about machine identity, component progress and duration and machine condition.

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : PARAMETER OPTIMIZATION FOR 5G TRANSMISSION

(51) International classification :G01S0005020000, H04B0007100000, H04B0017240000, H04W0004060000, H04B0001500000

(86) International Application No :NA
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 Filing Date :NA

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(57) Abstract :
 The present invention a parameter optimization for 5G transmission comprising of a receiver calculating a number of radio frequency chains that a transmitter and the receiver need to use, according to received signals powers for using different numbers of radio frequency chains and a total power consumption for using the different numbers of radio frequency chains, wherein the power of the received signal for using radio frequency chains. The receiver sends the number of radiofrequency chains to the transmitter and the transmitter uses the number of radiofrequency chains to transmit signals, the receiver uses the number of radiofrequency chains to receive signals.

No. of Pages : 10 No. of Claims : 1

CONTINUED TO PART- 2