

(54) Title of the invention : **SIGNALLING SYSTEM IN UNDERGROUND MINES**

<p>(51) International classification :B61B0012120000, G10K0001340000, E21C0029020000, A63B0071060000, B66B0019060000</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 : <b>1)Malla Reddy Engineering College (Autonomous)</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)ERU AJAY</b> Address of Applicant :4-60/24, VILL CHIRLAPALLY, MDL: GANGADHARA , DIST KARIMNAGAR -----</p> <p><b>2)BAVU REVANTH YADAV</b> Address of Applicant :1-35/6, VILL: VALBHAPOOR, MDL: VEENAVANKA , DIST KARIMANAGAR -----</p> <p><b>3)BODA SIDDU</b> Address of Applicant :1-112, TEKULAPALLI, BHADADRI, KOTHAGUDEM --</p> <p><b>4)EDUMULA MANIDEEP</b> Address of Applicant :SD-46, POST PFFICE, SRIRAM PUR, MANCHIRYAL ---</p> <p><b>5)MOTE MANISH</b> Address of Applicant :House no: E Kakatiyanagar Rd, R K H Colony, Ansurya Complex, J K Nagar Colony, A. S. Rao Nagar, Secunderabad, Telangana500062 --</p> <p><b>6)PERUKA MAHARSHI</b> Address of Applicant :H. No: 8-6-236, krishna nagar, 5 incline area, godavarikhani, mandal: ramagundam, dist : peddapalli, 505209 -----</p> <p><b>7)SANIKOMMU AVINASH REDDY</b> Address of Applicant :house no 5-1-118/1A ctype gate opp Manuguru bhadradi kothagudem 507117 -----</p> <p><b>8)BONGU SASIDHAR</b> Address of Applicant :D/no:3-50,2nd street, mudinepalli village, mudinepalli mandal,krishna district, Andhra Pradesh.Pin:521325 -----</p> <p><b>9)YEJJU SUMITH</b> Address of Applicant :H.NO:1-52, THODITALAGUDEM (V), SINGARENI(M), KHAMMAM 507123 -----</p> <p><b>10)GUNDLA RAKESH</b> Address of Applicant :H no : 13-37/2, Subash nagar, Yellandu, Bhadradi kothagudem,507123. -----</p> <p><b>11)ASODA RAMU</b> Address of Applicant :House.no:11-84/2 ., Pagideru village, Manuguru Mandal, Bhadradi kothagudem,. Pin code:507117, -----</p> <p><b>12)N S R Krishna Prasad</b> Address of Applicant :H.No: 405/2, Vijaya Towers, Ameerpet, Hyderabad.500073 -----</p> <p><b>13)TAVITI NAIDU PINNINTI</b> Address of Applicant :Koduru village, Sriramnagar post, Garividi Mdl, Vizianagaram dist, Andhar Pradesh, pincode: 535101 -----</p> <p><b>14)VASALA VINOD KUMAR</b> Address of Applicant :Ho no 4-97/15,Kondapalkala village, Manakondur mandal, Karimnagar, Telangana, Pin no 505474 -----</p>
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(57) Abstract :

7. ABSTRACT A signaling system in underground mines using rope haulage comprises a haulage track, a trammer, a bell (104) at each haulage station, a battery (102) connected to the bell (104) and the insulated cable (108). The said haulage track is installed and arranges the signal operating system with open circuit. The said trammer is used to operate signalling system to communicate haulage operator. The two bells (104) at each end are connected with the battery (102). The said bells (104) ring by bridging the ringing lines at any point along the haulage road. The said wires are insulated cables (108) with pull switches all along the haulage track. The said trammer sends signals to haulage operator only by closing the circuit. The operator receives signal and operates haulage system. Figure associated with Abstract is Fig. 1

No. of Pages : 11 No. of Claims : 6

<p>(51) International classification :B62M0009100000, B62M0001360000, B62K0003000000, B62J0006000000, A63B0069160000</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 : <b>1)Malla Reddy Engineering College (Autonomous)</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)ENJAMURI SREE VAISHNAVI</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>2)NAGABUSHI SAI SHARAN</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>3)UNGARALA BHAVANI PRASAD</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>4)PRATHIPATI NAGA SAI SREEKAR</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>5)B.SHARATH KUMAR</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>6)J VENKATA SAIKRISHA PARDHU</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>7)Dr.N.Rishi Kanth</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>8)Dr. Yogesh Madaria</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>9)Dr. S.Udaya Bhaskar</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>10)Mr. Vidhyasagar Matta</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p>
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(57) Abstract :

7. ABSTRACT A hub less bicycle (1) comprises a rim (9), a pedal (8) and a gear system (4) along with other components. The hub less bicycle is of less complex design having a tire tread which is rotated around a stationary hub using a plurality of roller bearings or ball bearings. The gear system (4) is welded to the chain stay of the cycle (1), wherein a plurality of sprockets (5) is assembled with a cycle chain (6) for enabling rotary motion as one. The said bicycle (1) could provide better steering and braking characteristics as such forces are applied directly or pretty close to the contact spots of wheel and the ground. The Figure associated with Abstract is Fig 1.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : SECURITY SYSTEM AND OPERATING METHOD THEREOF

<p>(51) International classification :B64C0039020000, H04K0003000000, G01S0015100000, G01S0015930000, G08C0017020000</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 :  <b>1)Malla Reddy Engineering College (Autonomous)</b>  Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>Name of Applicant : NA</b>  <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :  <b>1)R.Akshitha</b>  Address of Applicant :address:18-4-122/2/A maruthinagar godhavari kani ,Ramagundam Telangana -----  <b>2)S.Saisumanth</b>  Address of Applicant :address:1-73/A pidched(v), Gajwel (M), Siddipet (D) Telangana -----  <b>3)S.Bhaskar</b>  Address of Applicant :address:44-2/3 rtc colony Mouali-Ali Hyderabad -- -----  <b>4)M.Suprathika</b>  Address of Applicant :address:3-1-16/137/73/V Mallapur uppal Hyderabad -----  <b>5)V.John Moses</b>  Address of Applicant :address: 2-15-10 beerappagadda Uppal Hyderabad -----  <b>6)Dr. G.S.K. Gayatri Devi</b>  Address of Applicant :Professor, ECE Department Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  <b>7)Dr. N. Manikanda Devarajan</b>  Address of Applicant :Professor, ECE Department, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  <b>8)Dr. A. Pradeep Kumar</b>  Address of Applicant :Associate Professor, ECE Department, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  <b>9)Dr. M. Nithin Varma</b>  Address of Applicant :Associate Professor, ECE Department, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p>
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(57) Abstract :

7. ABSTRACT A security system (15) to belie foe Unmanned Aerial Vehicles (UAV's) is disclosed. The said system (15) comprises of a micro controller unit (1) with an Arduino (2) installed. The said system (15) comprises an LCD driver unit (3) with an LCD display (4) to observe the foe objects with an intensity control (11). An intelligent sonar based object tracking system (7) with an ultrasonic sensor with a servo motor (8) is installed for target detection. The said system further comprises of a DC motor driving unit (5) with a DC motor (6) sends jamming signals on foe object detection with a target aiming module (12). A crystal oscillator unit (14) along with a LED indicator (9) installed for detecting the frequency levels a regulated power supply unit (10) with a reset button (13) was also accompanied with the said system (15). The Figure associated with the Abstract is Fig 1.

No. of Pages : 12 No. of Claims : 10

(54) Title of the invention : ECO-FRIENDLY ELECTRICITY GENERATING SYSTEM

<p>(51) International classification :F03B0013000000, F03B0011000000, B63H0021170000, F21S0009030000, A43B0003000000</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 :  <b>1)Malla Reddy Engineering College (Autonomous)</b>  Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>Name of Applicant : NA</b>  <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :  <b>1)DR J SELWYN BABU</b>  Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  -----  <b>2)DR J REX</b>  Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  -----  <b>3)GAJULA MAHESH</b>  Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  -----  <b>4)BOLLA SANTHOSH REDDY</b>  Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  -----  <b>5)ARE ABHINAV</b>  Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  -----  <b>6)JANAGAM SANJAY GOUD</b>  Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  -----  <b>7)THATI MADHUSAI</b>  Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  -----  <b>8)GUNJI CHIRANJEEVI</b>  Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----  -----</p>
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(57) Abstract :

7. ABSTRACT A system (1) for ecofriendly electricity generation is disclosed. The said system (1) comprises of an upper layer (2), a linkage (3), a rack and pinion arrangement (4), a pinion (5), a pinion shaft (5a), end bearings (5b), springs (6), a larger sprocket (7a) and smaller sprocket (7b), a chain cycle (7c), gears (8), a generator (9), supporting frames (10), a bottom layer (11), supporting rods (12), connecting elements (13), and a battery (14) for storing generated electricity. The said upper layer (2) acts as an energy receiving component, exerted by a human with foot, wherein the system (1) is adaptable to be used as electricity generating stairs, pathway blocks or the like. The said generator (9) is installed in the bottom of the upper layer (2) and the electric energy output end of the generator (9) connects an electric energy input of the said battery (14). The Figure associated with Abstract is Fig. 2.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : SMART STREET LIGHTING SYSTEM

<p>(51) International classification :H04Q000900000, H05B0047160000, H05B0045370000, H05B0047110000, H04Q0001140000</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 : <b>1)Malla Reddy Engineering College (Autonomous)</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- - <b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)K.REVATHI RUCHITHA</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>2)MANOJNA BALA .B</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>3)O.GAYATHRI REDDY</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>4)M.BHAVYA SRI</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. ----- <b>5)Dr. B. Sudharshan Reddy</b> Address of Applicant :Professor Ph. D, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>6)Dr. Manyam Thaile</b> Address of Applicant :Assistant Professor, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>7)Dr. Shaik Jakeer Hussain</b> Address of Applicant :Associate Professor , Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>8)T.Jagadeeshwari</b> Address of Applicant :Associate Professor, CSE Department, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>9)Aenugu Rasagnya</b> Address of Applicant :Assistant professor, M.TECH, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>10)A.Nirisha</b> Address of Applicant :Assistant Professor, M.Tech, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>11)Kancharakuntla Shirisha</b> Address of Applicant :Assistant Professor M.Tech, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 ----- <b>12)B Swetha Bindu</b> Address of Applicant :Assistant Professor, CSE Department, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p>
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(57) Abstract :  
7. ABSTRACT A system (10) for Smart Street light system is disclosed wherein the said system (10) comprises of a micro controller unit (9) wherein an LDR (light dependent resistor) unit (1) and a microcontroller board (2) is preinstalled. A plurality of high power LED'S (3) were associated with said micro controller unit (9). Further comprises of a plurality of IR sensor units (4) for sensing of objects approaching nearer. A power source (5) is installed for generating supply for the said system (10). A plurality of jumper wires (6), connecting wires (7) and 10kohm resistors (8) preinstalled for operational requirements of the said system (10). The said LDR (1) is an electronic component that is sensitive to light and changes its resistance according to the light falling on it. The said microcontroller board (2) is basically a tool for controlling electronics. They are able to read inputs with their on board microcontroller unit (9). The Figure associated with the Abstract is Fig 1.

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(54) Title of the invention : DEEP SEA MINING SYSTEM

(51) International classification :E21C0050000000, E02F0005000000, E02F0003900000, E02F0003880000, E02F0007060000

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Filing Date :NA

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## (57) Abstract :

7. ABSTRACT A system (15) for deep sea mining is disclosed wherein the said system (15) comprises the steps of Prospecting (1) the said mining domain in the deep sea, employing a dredging vessel (2) in the said domain area sea floor (3) wherein all the operations accompanying to mining could be carried from the said dredging vessel (2) and the said system (15) follows the steps of cutting of a mineral material (4) in the said domain area. The said dredging vessel (2) also comprises of a hydraulic suction arrangement (5) for collection of deep sea slurry material (7). The said dredging vessel (2) further comprises of a dewatering system (6) and a hosepipe for discharge of tailings into the said deep sea (8). The Figure associated with the Abstract is Fig 1.

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

(54) Title of the invention : AUTOMATIC FIRE EXTINGUISHER IN AUTOMOBILES

<p>(51) International classification :G08B0017000000, G08B0017120000, G08B0025040000, A62C0003160000, A62C0003000000</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 : <b>1)Malla Reddy Engineering College (Autonomous)</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)GANTA NIKHIL RAJ</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>2)K DIVYATEJ REDDY</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>3)K TANUJ ROHAN</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>4)V SAGAR</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>5)J SAHITH</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>6)GANTA NIKHIL RAJ</b> Address of Applicant :Professor Ph.D Malla Reddy Engineering College, Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>7)Dr Ch GVN Prasad</b> Address of Applicant :Associate professor, M.Tech Malla Reddy Engineering College, Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>8)P V RAMANA MURTHY</b> Address of Applicant :Associate professor, M.Tech Malla Reddy Engineering College, Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>9)S.Sandhya Rani</b> Address of Applicant :Associate professor, M.Tech Malla Reddy Engineering College, Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>10)Dr. Shaik Jakeer Hussain</b> Address of Applicant :Associate professor, Malla Reddy Engineering College, Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p>
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(57) Abstract :

7. ABSTRACT A system (10) for automatic fire extinguisher in automobiles is disclosed, wherein the said system (10) comprises of a plurality of fire detecting sensors (3), a co2 gas cylinder unit (4) along with a blower (5) to cool down the sad fire, a power source (6) is embedded to the said system (10) to provide operational requirement. The said system is interconnected with multiple internal pipelines in the said system (10) along with a flow system (10). As the fire takes place the said fire flows to base (2) of the said automobile (1) wherein said sensors (3) detects the fire and said system (10) starts said co2 gas cylinder unit (4) and releases co2 gas all over the engine bay, base (2) of the automobile (1) and cools down the said automobile in fraction of seconds. The Figure associated with the Abstract is Fig 1.

No. of Pages : 15 No. of Claims : 2

(54) Title of the invention : LIGHT WEIGHT CONCRETE BY COCONUT SHELLS

<p>(51) International classification :C04B0028040000, C04B0111000000, C04B0041000000, C04B0020100000, C04B0018140000</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 :  <b>1)Malla Reddy Engineering College (Autonomous)</b>  Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>Name of Applicant : NA</b>  <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :  <b>1)A RAMU</b>  Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>2)M PRASHANTH</b>  Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>3)G VENKATESH</b>  Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>4)SOHANG DEBNATH</b>  Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>5)VEERAGONY PRAHARSHA</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  -----  <b>6)GUGULOTH DIVYASRI</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  -----  <b>7)SAIDU SRAVYA</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  -----  <b>8)KATROTH SRAVANTHI</b>  Address of Applicant :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 method (10) for preparation of light weight concrete by coconut shells is disclosed. Wherein the said method comprises of preparation of a mixture of cement (3), fine aggregate like sand (4), coarse aggregate like plurality of coconut shell pieces (2) and comprises mixing tools like towel (5) and a cube mould (6) for preparation of a concrete block (7). A M20 concrete mixture (1) is prepared along with the said components and said concrete block (7) is prepared in the said cube mould (6) and allowed to get dry for three days. On the other side a normal concrete block (8) was also prepared with gravel and allowed to dry alike. The Figure associated with Abstract is Fig 1.

No. of Pages : 11 No. of Claims : 4



(54) Title of the invention : A SMART BOREWELL WITH PROTECTION LID

(51) International classification :B29C0065000000, G01F0023296000, G05B0019416000, G01S0007520000, B29C0035020000

(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 :  
7. ABSTRACT A smart bore well provided with a lid (102) comprises an ultrasonic sensor (106), an arduino board (108), a servo motor (110), a battery module and custom controlled software application (104). The ultrasonic sensor (106) measures the distance using ultrasonic sound waves. The arduino board (108) provided to receive signals from sensor (106) and operate the servo motor (110) in closing the lid. The servo motors (110) are used for precise control of angular position, velocity and acceleration. The complete operation is controlled by custom controlled software application (104). The ultrasonic sensor alerts the arduino by detecting the approaching to operate the servo motor in closing of lid. The battery is connected to the arduino and sensor for power supply. Figure associated with Abstract is Fig. 1.

(54) Title of the invention : VOICE BASED EMAIL FOR VISUALLY CHALLENGED PEOPLE

(51) International classification :H04L0012580000, G10L0015260000, H04L0029060000, H04W0012060000, G09B0021000000

(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 :  
7. ABSTRACT A voice based email system (15) for visually challenged people is disclosed, wherein the said system (15) comprises of, a starting module (1) of an user registration interface (2) for new user registration (3) or sign in (5) purpose with an unique id and password. Wherein the said interface (2) comprises of an inbox module (6) wherein an email composing module (8), a checking module (7). The said system (15) embedded with a speech recognition module. The said composing module (8) comprises of speech to text module (9). The said checking module (7) comprises of text to speech module (10). The system (15) is further provided with a logout (11) option for sign out purpose (12). The said system (15) is a python-based application for visually impaired persons using speech to text voice response, thus enabling everyone to control their mail accounts using their voice only and to be able to read, send, and perform all the other useful tasks. The Figure associated with Abstract is Fig 1.

(54) Title of the invention : A SYSTEM FOR PROVIDING MICRO-IRRIGATION FACILITY THROUGH SUSTAINABLE TOILETS

<p>(51) International classification :C02F0001000000, C02F0009000000, C02F0101200000, E21B0043080000, B01D0024460000</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 :  <b>1)Malla Reddy Engineering College (Autonomous)</b>  Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b>  <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :  <b>1)C BALAKRISHNA</b>  Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>2)T RAM PRASANNA KUMAR REDDY</b>  Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>3)M UDAY BHASKAR</b>  Address of Applicant :Asst Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>4)SHETTY MANASA</b>  Address of Applicant :Asst Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>5)JARUPLA THARUN</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>6)BADISA PAVAN KUMAR</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>7)ANGOTHU NAVEEN</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>8)CHAKALI TEJESH KUMAR</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>9)GANAPATHI SRI RAM</b>  Address of Applicant :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 system (10) for providing micro-irrigation facility through sustainable toilets is disclosed. Wherein the said system (10) comprises of a structure of sustainable toilet (1), a PVC pipe unit (2) for waste collection, a tank for bio waste collection (3). A rapid sand filtering unit (4) along with a coarse aggregate (5) is arranged for filtration purpose of said wastes. The said PVC pipe unit (2) installed to said sustainable toilet (1) for collection of solid wastes and sends towards the bio waste collection tank (3) and sends towards rapid sand filtering unit (4). Inside the sand filtering unit (4) a sand filter (6) and a coarse aggregate (5) is installed. Wherein said wastes filters in the said filtering unit (4) and sends water into a micro irrigation cropping unit (7). Wherein said system (1) could achieve micro irrigation facility and thus promotes water management. The Figure associated with Abstract is Fig 1.

No. of Pages : 12 No. of Claims : 10

## (54) Title of the invention : AN INTELLIGENT PARKING SYSTEM

(51) International classification :G08G0001140000, G01C0009000000, A43B0003000000, E04H00006420000, E06B0009680000

(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 :

7. ABSTRACT An intelligent parking system by using a computer processor, a microcontroller board, a servo motor, IR sensors, a display screen and a power supply for arduino. The said arduino microcontroller is connected with entry and exit sensors for receiving analog signals and the said IR sensor senses the motion of vehicle at entrance and exit gates to send signals. The said arduino micro controller converts the analog signal from the sensors into digital. The said microcontroller sends digital signal to the servo motor. The said servo motors are used at the entrance and exit to open the gates. The said LCD display is used to provide information about parking spaces as occupied or free. The said power supply is used for supplying power to arduino and display. Figure associated with Abstract is Fig. 1.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141059861 A

(19) INDIA

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

(43) Publication Date : 31/12/2021

(54) Title of the invention : AUTOMATIC HAND SANITIZER DISPENSER

(51) International classification :A61Q0019100000, A47K0010320000, A61Q0017000000, A47K0010380000, A47J0031000000  
(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 :

7. ABSTRACT An automatic hand sanitizer dispenser comprises of a transistor (102), IR proximity sensor (104), DC pump (106), battery (108) and a black paper (110). The said PNP transistor (102) is connected to the IR proximity sensor (104) and it is connected to the DC pump (106) through the transistor (102). The said transistor (102) comes with turning knob for detection of threshold range and the said DC pump (106) is connected to the one end of the pipe for the supply of hand sanitizer. The other end of the said pipe is placed in the sealed container having the hand sanitizer and the battery (108) is connected to the transistor (102) and proximity sensor (104) for power supply. The black paper (110) is used to cover the sides properly avoiding the IR radiations from sunlight. Figure associated with Abstract is Fig. 1.

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

(54) Title of the invention : LONG WALL FACE WITH TOP COAL CAVING

<p>(51) International classification :E21C0041180000, E21C0035240000, E21D0023000000, E21D0023040000, E21C0041160000</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 : <b>1)Malla Reddy Engineering College (Autonomous)</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)PAUNIKAR ARPIT RAMESH</b> Address of Applicant :PLOT NO 61, VRUNDAWAN NAGAR, BINAKI LAY OUT, NEAR KHAPRE KIRANA STORES, NAGPUR, MAHARASHTRA- 440017 -----</p> <p><b>2)PEDDI MAHESH</b> Address of Applicant :H no 9-139, Sangam road, Kothapalli (haveli), Karimnagar, Telangana-505451 -----</p> <p><b>3)BANALA SADHIK</b> Address of Applicant :H no: 4-69/1, Ramanujavaram, Manuguru, Bhadradi Kothagudem, Telangana-507117 -----</p> <p><b>4)NALLAGASHA NAVEEN</b> Address of Applicant :H no : 2-139, Korapally, Jammikunta, Karimnagar, Telangana-505122 -----</p> <p><b>5)NAMANI UMASAI</b> Address of Applicant :H NO: D - 1257 NASPUR SHIRKEY GODAVARI COLONY ,MANCHERIAL ( DISTRICT) TELANGANA ( STATE) PINCODE : 504302 -----</p> <p><b>6)GUNDLA RAKESH</b> Address of Applicant :H no : 13-37/2, Subash nagar, Yellandu,Bhadradi kothagudem,507123. -----</p> <p><b>7)MERUGULLU NAGARAJU</b> Address of Applicant :H no : 11-3-416/154 Amber Nagar, Ramnagar, Hyderabad, Telangana-500020 -----</p> <p><b>8)CHOLLETI ANISH REDDY</b> Address of Applicant :House no: 1-52,Kadarigudem village, Near Water tank, Katrial, Warangal Rural, Telangana - 506313 -----</p> <p><b>9)DASARI NEHANTH NIKHIL</b> Address of Applicant :H.No:11-2-59,chaman basthi kothagudem Bhadradi kothagudem dist pincode:507101 -----</p> <p><b>10)YEJJU SUMITH</b> Address of Applicant :H.NO:1-52,THODITALAGUDEM SINGARENI,KHAMMAM,TELANGANA-507123 -----</p> <p><b>11)Dr. M S VENKATARAMAYA</b> Address of Applicant :2A, KHANDAL APTS, HILL COUNTY, BACHUPALLY, HYDERABAD-500090 -----</p> <p><b>12)PERUMANDLA SHASHIKANTH</b> Address of Applicant :H no.76-328/1, 3rd zone, mandamarri, manchiryal dist, telangana -----</p> <p><b>13)DABBU LAXMI NARAYANA</b> Address of Applicant :H.No: 14-2-43, Kothapeta, Mallial, Jagital, Telangana, Pin Code:505-452 -----</p>
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(57) Abstract :

7. ABSTRACT A device to operate on a principle of longwall top coal caving comprises a shearer (102), a front AFC (104), a set of roof supports (112), an extended rear canopy (106), a rear AFC (108) and hydraulic supports (110). The lower section of seam is cut by the said shearer (102) at set height of about 6 meters. The coal cave left above the section cut falls onto the said extended rear canopies (106). The said extended rear canopies (106) sequentially opens to transfer the coal onto the rear mounted AFC (108). The front (104) and rear AFC (108) transports the coal out of face to transfer it to the belt conveyor. The operating cost and maintenance costs are less. Figure associated with Abstract is Fig. 1

No. of Pages : 10 No. of Claims : 5

(54) Title of the invention : SELF-HEALING BUILDING

(51) International classification :C04B0028020000, E04G0021180000, B28B0001080000, E04C0003260000, E04B0002260000

(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 :

7. ABSTRACT A method to construct self-healing building requires steel reinforcement, M20 grade cement, crystalline admixture, bricks, form board. The said steel reinforcements are used for laying footings for stability. The said steel reinforcements are used to construct columns by filling the columns with concrete mixed with crystalline admixture. The form board is used for casting and the concrete is mixture of M20 grade cement and crystalline admixture with proportion of 300 grams per 1kg. The bricks and concrete mixed with crystalline admixture are used to build walls. The healing process starts slowly in form of crystals takes about 45-50 days. Figure associated with Abstract is Fig. 1.

No. of Pages : 8 No. of Claims : 5

(54) Title of the invention : DRIVER DROWSINESS DETECTION SYSTEM

<p>(51) International classification :G06K0009000000, G08B0021060000, A61B0005180000, B60K0028060000, G06T0007246000</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 :  <b>1)Malla Reddy Engineering College (Autonomous)</b>  Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b>  <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :  <b>1)MAREDDY NISHITH CHOWDARY</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>2)NIVRITI VYTLA</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>3)CH Y V S SRINIVAS</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>4)MUCHARLA CHERRISMAA</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>5)KYADHARI SAI PRANAV REDDY</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>6)Dr.N.Lakshmi pathi Anantha</b>  Address of Applicant :Professor, Ph.D Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>7)Dr. Raghunadh Pasunuri</b>  Address of Applicant :Associate Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>8)Dr.G.Vasavi</b>  Address of Applicant :Associate Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>9)Rapolu Jyothirmai</b>  Address of Applicant :Assistant Professor M.Tech Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>10)Dr. Manyam Thaile</b>  Address of Applicant :Assistant Professor,Ph.D, 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 system to detect drowsiness of the driver comprises an eye tracker, a face detection module, an eye blink detection module, an eye state tracking module and an alert system. The web camera is placed in front of the driver to capture images simultaneously record video and automatically saves in different types of forms for recording data in different frames like grey, HSV color and original form. The said eye trackers are used to measure eye positions and movements. The face detection module used to detect the facial concentration of the driver and image sequence input method uses all the images, videos and frames to detect the drowsiness. The alarm module rings as the driver is feeling drowsy. Figure associated with Abstract is Fig. 1.

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



(54) Title of the invention : STUDENT MANAGEMENT SYSTEM

<p>(51) International classification :G06Q0050200000, H04W0008080000, G07C0001100000, H04Q0003720000, H04W0084120000</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 :  <b>1)Malla Reddy Engineering College (Autonomous)</b>  Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b>  <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :  <b>1)CHIPPADA SNEHA MANASA</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>2)CHINTALAPUDI ANANDHINI</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>3)ANANTHANENI MOUNIKA</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>4)O. ABIJAY REDDY</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>5)Dr Ch GVN Prasad</b>  Address of Applicant :Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>6)Dr.Jose Moses Gummadi</b>  Address of Applicant :Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>7)P V RAMANA MURTHY</b>  Address of Applicant :Associate professor M.Tech Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>8)S.Sandhya Rani</b>  Address of Applicant :Associate professor M.Tech Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>9)N.Nitheesha</b>  Address of Applicant :Assistant Professor M.Tech Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>10)Dr. Pattlola Srinivas</b>  Address of Applicant :Professor - Ph.D 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 system for accessing student management comprises of a wireless network (102), a storage database (104), a processing system, a plurality of terminals namely faculty terminal (106) and student terminal (108). The wireless network (102) is used to connect all the devices for accessing the network. The storage database (104) is used to store the complete information of students and faculty. The processing system is used in processing the information on timely basis. Faculty terminal (106) is used for accessing the performance of students in academics and for managing the attendance of students on daily basis. The student interface (108) is used for accessing the study materials of preferred subject and to check for the attendance level for improvement. The faculty interface (106) is used for including curriculum module, course arrangement and time tables. Figure associated with Abstract is Fig. 1

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : PERVIOUS CONCRETE HYDRAULIC FOOTPATH AND ROLLER BARRIER SYSTEM

(51) International classification :E01C0011220000, B66F0017000000, E01F0013120000, B66F0003420000, E01C0007140000

(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 :**

7. ABSTRACT A pervious concrete hydraulic footpath and roller barrier system (10) is disclosed, wherein the said system (10) comprises of, construction of pervious concrete road (3), installing a hydraulic jack (5) system along pedestrian's pathway. Further installing a roller barrier system (4) on both sides of road. The said hydraulic jack (5) system enables footpath to move upward and downward during emergency services providing extra pathway for vehicles to pass along. The said roller barrier system (4) enables safety at dividers by reducing vehicle speed and damage during accidents. The said pervious concrete road (3) allows water to pass through the said road (3). The working principal of said hydraulic jack (5) is Pascal's law comprising of ram and cylinder and operates two cylinders of different diameter at the bottom through a chamber which is filled with some liquid. The Figure associated with the Abstract is Fig 1.

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

(54) Title of the invention : AN IRRIGATION SYSTEM TO PERFORM AN ACTION ON DETECTING RAINFALL

<p>(51) International classification :G08B0013080000, F23N0005000000, G10H0001340000, G08B0013000000, G11B0020000000</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><b>1)Malla Reddy Engineering College (Autonomous)</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr C SRINIVAS GUPTA</b> Address of Applicant :Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>2)Dr C M VIVEK VARDHAN</b> Address of Applicant :Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>3)K HARSHADA</b> Address of Applicant :Asst Professor Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>4)JAYANTH ARYAN</b> Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>5)ESUNATHI ADITHYA</b> Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>6)D RUKMINI</b> Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>7)G ADHIKYA REDDY</b> Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>8)SHIVA PRIYA</b> Address of Applicant :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 system to detect the rainfall and alerts comprises of a NPN transistor, a battery, a plurality of sensors, a buzzer and a switch. The said sensor is placed in open space for the contact of rainfall. The said sensor is connected with the battery for the power supply and the said sensor is connected with NPN transistor for sensing the analog signal. The said analog signals are converted into digital and sent to buzzer. The said buzzer after receiving the signal starts to alert and the switch is used to stop the buzzer after alerting. Figure associated with Abstract is Fig. 1.

No. of Pages : 10 No. of Claims : 7

(54) Title of the invention : SELF IMPROVEMENT EDUCATIONAL SYSTEM AND METHOD THEREOF

<p>(51) International classification :G09B0005000000, G09B0007000000, G06Q0050200000, G06F0040186000, G06N0020000000</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 :  <b>1)Malla Reddy Engineering College (Autonomous)</b>  Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  -----  <b>Name of Applicant : NA</b>  <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :  <b>1)Ajay Ankam</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>2)Kommasani Sai Vardhan Reddy</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>3)Bollampally Vishwateja</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>4)Konidhala Yashwanth Reddy</b>  Address of Applicant :Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>5)E.Sunil</b>  Address of Applicant :Assistant Professor ,CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>6)N PAPAARAO</b>  Address of Applicant :Assistant Professor ,CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India -----  <b>7)Arun Kumar Kandru</b>  Address of Applicant :Assistant Professor ,CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>8)V.Sreevani</b>  Address of Applicant :Assistant Professor ,M.Tech Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  -----  <b>9)Vasantha Srilatha</b>  Address of Applicant :Assistant Professor ,CSE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----  <b>10)V Rajasekhar</b>  Address of Applicant :Assistant Professor ,CSE 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 The real time learning system and method provides a self-learning environment to learn language or subjects faster and easier using textual content obtained in real time. The system is a computer-aided and management educational system that includes a real-time content processing module, a learning management Module, a content management database, an exercise generator module with dictionaries, picture media, music libraries, life management and a user block. The system transforms any real time textual information into learning content and implements user learning exercises. Learning exercises are automatically created as multiple-choice tests, filling blanks, quizzes, puzzles, crosswords, etc. from this learning content in real-time, based on a teacher or student online request for information.

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

## (54) Title of the invention : AN INDOOR VERTICAL FARMING SYSTEM

(51) International classification :A01G0009240000, E02F0009080000, A01G0009260000, G09F0015000000, A01B0051020000

(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 :

7. ABSTRACT A system (11) for indoor vertical farming is disclosed. The said system (11) comprises of a plurality of batteries (1) for providing a power source to the said system (11). A plurality of sensors with wires (2) for detecting the rainfall, a relay arrangement along the roof (5) was also installed inside the said system (11). The system further comprising of a UV ray source bulb arrangement (3) along with said power source (1), a motor (4) for the blower arrangement is installed for providing atmospheric conditions supporting for said farming. The indoor vertical farming system is a simple and highly efficient, could be supportive for domestic purposes in small scale with less power consumption and maintenance to yield higher than conventional farming methods. The Figure associated with Abstract is Fig 1.

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

(54) Title of the invention : WIRELESS INTERACTIVE AUDIENCE PARTICIPATION AT A LIVE ENTERTAINMENT EVENT

(51) International classification :G06Q0050200000, G06Q0030020000, A63F0013235000, H04W0004021000, H04H0060330000  
 (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 :

7. ABSTRACT The present invention relates to an improved wireless interactive participation of a method and apparatus for enhancing the experience of persons during activity occurring at a college campus venue by providing interactivity. More specifically, the present invention relates to a method and system that provides, interactive participation during activity occurring at a college campus venue. In a preferred embodiment of the invention, there is provided a method for enabling interactive participation by enrolled participants during activity occurring at a college campus venue attended by a plurality of persons. Each enrolled participant employs a wireless interactive device having a unique signature. With the help of this method, we can get healthy communication between students of all age and get accurate answers for our queries. Introverts can easily interact without any hesitations.

No. of Pages : 11 No. of Claims : 10

(54) Title of the invention : EDUCATIONAL INSTITUTION COUNSELLING SYSTEM

(51) International classification :G06Q0050200000, G09B0007000000, G06Q0030020000, H04M0003380000, G09B0019000000

(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 :

7. ABSTRACT The present invention relates to a system for educational institution counselling (100). A system for assessing a student's career profile is disclosed. The system takes in the information of which place the student wants to study in and the stream depending on this information to provide a list of mentors with their score. The basic information as to what they studied, where they studied and why they chose that stream and how they joined their college, including their review of their college is collected. The basic questions answered on the mentor's profile itself but also provide email details for them to contact each other. Fig. 1

No. of Pages : 9 No. of Claims : 5

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(19) INDIA

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

(43) Publication Date : 31/12/2021

(54) Title of the invention : VOICE CONTROLLER SYSTEM

<p>(51) International classification :G10L0015220000, G10L0015260000, G06F0003160000, G10L0013000000, B25J0013000000</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><b>1)Malla Reddy Engineering College (Autonomous)</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :</p> <p><b>1)CHODISETTY:SAI AKSHAR</b> Address of Applicant :flat no.7503,janapriya metropolis apt,motinagar,erragadda,hyderabad- 500018 -----</p> <p><b>2)PANCHALINGALA: SRI KRISHNA GOUD</b> Address of Applicant :house no.23-9/30,vinayak nagar, R.C.puram,hyderabad -----</p> <p><b>3)MD AZHAR AHMED</b> Address of Applicant :24-1-208/A,Biyabani nagar,Dargah Kazipet,Warangal -----</p> <p><b>4)Dr. M J C Prasad</b> Address of Applicant :Professor, HOD, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>5)Dr. Shankaranand Jha</b> Address of Applicant :Assocaiate Professor, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>6)Dr. T. Sri Sudha</b> Address of Applicant :Assocaiate Professor, ECE Department, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>7)Dr. Sima Sahu</b> Address of Applicant :Assocaiate 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 OF THE INVENTION The present invention relates to a system for voice-controlled system, characterized by Arduino uno for command computation 101, l298d h-bridge motor driver used for controlling DC motor 102; led for light display 103 and relay used for controlling socket with digital switching 104. the voice commands are read by the microphone which is built in your laptop then this voice command is converted to text by the concept of text to speech python scripts. Then this text data is transmitted using serial communication by following U.A.R.T protocol. hence this data is received by Arduino where an embedded c script is embossed, which controls the home automation based on received text data. Fig. 1

No. of Pages : 8 No. of Claims : 5



(54) Title of the invention : APPLICATION OF INNOVATIVE TECHNOLOGY IN THE FIELD OF AGRICULTURE

<p>(51) International classification :H02S0020100000, A01G0025000000, F24D0011020000, H04W0084180000, A01G0009020000</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><b>1)Malla Reddy Engineering College (Autonomous)</b> Address of Applicant :Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Dr B SUDHARSHAN REDDY</b> Address of Applicant :Professor, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>2)Dr P SARITHA</b> Address of Applicant :Associate Professor, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>3)A NAGA SAI BABA</b> Address of Applicant :Asst Professor, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>4)K VAMSI KRISHNA</b> Address of Applicant :Asst Professor, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>5)J S S K VASA</b> Address of Applicant :Asst Professor, Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>6)A.KANKSHA</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>7)A HARI CHANDANA</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p> <p><b>8)B KEERTHANA</b> Address of Applicant :Malla Reddy Engineering College, MAIN CAMPUS Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 -----</p>
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(57) Abstract :

7. ABSTRACT A system (1) for application of innovative technology in the field of agriculture is disclosed wherein the said system (1) comprises of a plurality of pumps (4) and motors (5) arrangement for providing wild flooding (6) and rain water harvesting (2). A plurality of solar panels (7) for providing energy for the operation of said system (1) and a vertical farming unit (8) is constructed (9). And furthermore, using a vermi compost (11) for creating sustainable agriculture unit (10). The said systems were connected to each other for collaboration of hi-tech farming. The said vertical farming unit (8) is constructed without side walls but with a parapet up to the certain height which provides more yields in less area. Pluralities of pits (3) were provided for enabling said rain water harvesting (2). The said vertical farming unit (8) is provided with water repellent admixtures for not to observe water content. The Figure associated with the Abstract is Fig 1.

No. of Pages : 12 No. of Claims : 10

(54) Title of the invention : MONOCOLUMN MULTI-STORY STRUCTURAL BUILDING

(51) International classification :E04H0009020000, G06F0030130000, E04B0001240000, G09F0009302000, G06K0009000000

(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 :  
 7. ABSTRACT A system (1) for designing of mono column multi-story structural building is disclosed wherein the said system comprising of conducting a literature review (2), preparation of plan using an auto-cad (3). Later manual designing of said system (4), conducting analysis using staad pro (5) further viewing the results (6) and concluding the shape (7) of the said mono column unit. The said single column structural system (1) is designed to withstand all the loads including earthquakes and wind loads. The performance at lateral displacements at different zone is analyzed. The behavior of the wind force on irregular shape under zones is recorded. The said system (1) requires less area for construction and provides more area for parking purpose and could provide maximum serviceability. The said system (1) could provide single column design for better architectural view. The Figure associated with the Abstract is Fig 1.