

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

---

---

निर्गमन सं. 02/2024  
ISSUE NO. 02/2024

शुक्रवार  
**FRIDAY**

दिनांक: 12/01/2024  
DATE: 12/01/2024

---

---

पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321086429 A

(19) INDIA

(22) Date of filing of Application :18/12/2023

(43) Publication Date : 12/01/2024

(54) Title of the invention : INNOVATIVE SECURE COMMUNICATION IN SMART HOMES: INTEGRATING BLOCKCHAIN AND MACHINE LEARNING TECHNOLOGIES

(51) International classification :G06N002000000, G08B001900000, G06F001630000, H01L0021670000, G06Q0020380000

(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)Dr Premendra Janardan Bansod**  
 Address of Applicant :Associate Professor/Department of Mechanical Engineering G H Raisoni College of Engineering & Management, Wagholi, Pin-412207, Maharashtra, India. -----

**2)Dr. D. Kalpanadevi**  
**3)Dr Saleem Ahmed**  
**4)Atiya Rafiq Kazi**  
**5)Ramakrishnan M**  
**6)D. Srinivasa Rao**  
**7)S Shamna Parveen**  
**8)P.Umamaheswari**  
**9)Aman Bhimrao Kamble**  
**10)Dr.A.Sasi Kumar**  
**11)P Joel Josephson**  
**12)Mr.T.Rajan**

Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Dr Premendra Janardan Bansod**  
 Address of Applicant :Associate Professor/Department of Mechanical Engineering G H Raisoni College of Engineering & Management, Wagholi, Pin-412207, Maharashtra, India. -----

**2)Dr. D. Kalpanadevi**  
 Address of Applicant :Assistant Professor, Department of Computer Science, School of Science, Gitam University, Bengaluru Campus, Bengaluru, 561203, Bengaluru Rural, Karnataka, India. -----

**3)Dr Saleem Ahmed**  
 Address of Applicant :Assistant Professor, Graduate School of Computer Science, IIC University of Technology, Phnom Penh, Cambodia -----

**4)Atiya Rafiq Kazi**  
 Address of Applicant :Assistant Professor, Information Technology, Finolex Academy of Management and Technology, Ratnagiri, 415639, Maharashtra, India. -----

**5)Ramakrishnan M**  
 Address of Applicant :Assistant Professor, Information Technology, Erode Senguthur Engineering College, Perundurai, Erode-638057, Tamilnadu, India. -----

**6)D. Srinivasa Rao**  
 Address of Applicant :Assistant Professor, Department of ECE, GMR Institute of Technology, Rajam, Vizianagaram, Andhra Pradesh, India -----

**7)S Shamna Parveen**  
 Address of Applicant :Assistant Professor/ CSE, Dhanalakshmi Srinivasan College of Engineering Coimbatore 641105, Tamilnadu, India. -----

**8)P.Umamaheswari**  
 Address of Applicant :AP/ ECE, SNS College of Technology, Coimbatore, 641035, Tamilnadu, India. -----

**9)Aman Bhimrao Kamble**  
 Address of Applicant :MIT School of Computing MIT ADT University, Loni, Pune, Maharashtra, India. -----

**10)Dr.A.Sasi Kumar**  
 Address of Applicant :Professor, Department of Computer Science & Engineering, Institute of Engineering & Technology, Srinivas University, Srinivas Nagar, Mukka, Mangalore-574146, Dakshina Kannada District, Karnataka State, India. -----

**11)P Joel Josephson**  
 Address of Applicant :Associate Professor/ ECE, Malla Reddy Engineering College, Secunderabad 500100, Medchal Malkajigiri, Telangana, India. -----

**12)Mr.T.Rajan**  
 Address of Applicant :Assistant Professor, Department of CSE &IS, School of Engineering, Presidency University, Bangalore-560064, Rajanukunte, Karnataka, India. -----

(57) Abstract :  
 INNOVATIVE SECURE COMMUNICATION IN SMART HOMES: INTEGRATING BLOCKCHAIN AND MACHINE LEARNING TECHNOLOGIES A method for the development of the serial communication unit, an NFC unit, a smart card unit, and an antenna comprise the external equipment for a mobile communication terminal. A connector connects the serial communication unit to the body of a mobile communication terminal. This patent specification, in particular, relates to a group of devices, including intelligent, multi-sensing, network-connected devices, that communicate with one another and/or with a central server or a cloud-computing system to achieve any of a number of useful home security/smart home goals. The block chain module is used to store information supplied to the central server by the local model training module in the block chain and to compensate hospitals with big contributions using the block chain's consensus method. Blockchain miners serve as a revenue-generating heat source, supplying thermal energy to Rankine or Brayton cycle turbines in power plants. The knowledge in the knowledge graph can be used to determine the interpretation of the incoming signals. Based on the determined interpretation of the one or more input signals, the system may perform one or more execution activities. FIG.1

No. of Pages : 15 No. of Claims : 1