PATENTS|DESIGNS AN OVERVIEW
NAAC Peer Team

AN OVERVIEW TO THE PATENTS AND DESIGN

VISION

To cultivate a dynamic ecosystem of innovation, creativity, and intellectual excellence by empowering students, researchers, and faculty to create, protect, and commercialize their intellectual property. The IP Cell envisions becoming a leading center for knowledge-driven innovation, where ideas are transformed into impactful solutions for society, industry, and the nation. Through education, policy support, and strategic partnerships, the Cell aims to foster a culture of responsible invention and entrepreneurship that contributes to academic excellence, societal advancement, and national growth.

MISSION

Our mission is to promote and protect the innovation by supporting the intellectual property rights (IPR) of students, researchers, and faculty. We aim to:

- **Educate** the academic community about the importance of intellectual property and its role in innovation and entrepreneurship.

- **Facilitate** the identification, documentation, filing, and protection of novel ideas, inventions, and creative works.

- **Encourage** translational research and the commercialization of university-born technologies through industry collaboration and startup incubation.

- **Build** a robust IP culture that values originality, ethical practices, and global competitiveness.

- **Support** policymakers and university leadership in formulating IP-friendly policies.

OVERVIEW

TITLE- Method for Providing Definitive Blood Circulation of Heart Using Machine Learning Model

APPLICATION NO- 202311046518 A
GRANT OR PUBLICATION DATE -04/08/2023

APPICANT/INVENTORS

DR. RAGHVENDRA SINGH
MR. RAMAKANT SONI
DR. RAKESH KUMAR
DR. ARCHANA SHUKLA
DR. RAJENDRA KUMAR TRIPATHI
DR. VIKASDEEP YADAV
DR. PUSHPENDRA KUMAR
DR. AJENDER KUMAR MALIK

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention introduces a cutting-edge medical system that leverages artificial intelligence, specifically machine learning, to model and analyze human heart blood circulation patterns with clinical accuracy. The method aims to enhance diagnostic precision in cardiology by creating a predictive model trained on real patient data. The system uses curated datasets, collected and validated by healthcare professionals, to simulate cardiovascular dynamics and detect anomalies such as blockages, irregular blood flow, or early signs of cardiac disease. By processing physiological inputs like pulse rate, blood pressure, and electrocardiogram signals, the machine learning algorithm can predict potential cardiac issues before they become critical. This approach bridges the gap between computational modeling and human medical expertise, empowering doctors with a reliable, non-invasive tool to make timely and informed clinical decisions. The invention stands as a significant step toward personalized medicine, where AI complements the judgment and experience of physicians to improve patient care and outcomes.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/07/2023

(21) Application No.202311046518 A

(43) Publication Date : 04/08/2023

(54) Title of the invention : METHOD FOR PROVIDING DEFINITIVE BLOOD CIRCULATION OF HEART USING MACHINE LEARNING MODEL

(51) International classification	:A61B 060000, A61M 604000, G06N 030400, G06N 030800, G06N 200000
(86) International Application No:NA	
Filing Date	:NA
(87) International Publication No : NA	
(61) Patent of Addition to Application Number	:NA
	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
	:NA
Filing Date	:NA

(71)Name of Applicant :
 1)Dr. Raghvendra Singh
   Address of Applicant :School of Sciences, UP Rajarshi Tandon Open University, Shantipuram, Prayagraj, Uttar Pradesh, India-211021 Prayagraj ----------- -----------
 2)Mr. Ramakant Soni
 3)Dr. Rakesh Kumar
 4)Dr. Archana Shukla
 5)Dr. Rajendra Kumar Tripathi
 6)Dr. Vikasdeep Yadav
 7)Dr. Pushpendra Kumar
 8)Dr. Ajender Kumar Malik
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
 1)Dr. Raghvendra Singh
Address of Applicant :School of Sciences, UP Rajarshi Tandon Open University, Shantipuram, Prayagraj, Uttar Pradesh, India-211021 Prayagraj ----------- -----------
 2)Mr. Ramakant Soni
Address of Applicant :Computer Science and Engineering Department, B K Birla Institute of Engineering & Technology, Pilani, Rajasthan, India Pilani ----------- ----------
 3)Dr. Rakesh Kumar
Address of Applicant :Shaheed Bhagat Singh State University, Firozpur, Punjab, India-152004 Firozpur ----------- -----------
 4)Dr. Archana Shukla
Address of Applicant :Nehru gram bharati (deemed to be) university, Prayagraj, Uttar Pradesh, India Prayagraj ----------- -----------
 5)Dr. Rajendra Kumar Tripathi
Address of Applicant :Faculty of Engineering and Technology Khwaja Moinuddin chishti Language university, Lucknow, Uttar Pradesh, India-226013 Lucknow ----------- -----------
 6)Dr. Vikasdeep Yadav
Address of Applicant :Dronacharya Govt. College Gurugram, Haryana, India Gurugram ----------- -----------
 7)Dr. Pushpendra Kumar
Address of Applicant :Shri Khushal Das University, Pilibangan, Hanumangarh, Rajasthan, India-335801 Hanumangarh ----------- -----------
 8)Dr. Ajender Kumar Malik
Address of Applicant :School of Sciences, UP Rajarshi Tandon Open University, Shantipuram, Prayagraj, Uttar Pradesh, India-211021 Prayagraj ----------- -----------

(57) Abstract :
"METHOD FOR PROVIDING DEFINITIVE BLOOD CIRCULATION OF HEART USING MACHINE LEARNING MODEL" Accordingly, embodiments herein disclose a method for providing definitive blood circulation of heart using machine learning (ML) model. The method involves locating the heart between lungs of human body. The function of heart is to pump the blood to all parts of the body. Further, the proposed method may involve dividing the heart into four chambers such that the oxygenated blood and deoxygenated blood do not mix inside the heart. Further, the proposed method may involve dividing the heart into two separate sides where the left side of the heart pumps oxygenated blood to the body, and the right side of the heart pumps deoxygenated blood to the lungs from the body parts. Further, the proposed method may involve receiving the oxygenated blood by the left atrium through pulmonary veins such that the right and left lungs are pumped the blood into the right and left ventricle, respectively. Figure to be published with Abstract: Figure 1

No. of Pages : 12 No. of Claims : 3

OVERVIEW

TITLE- Smart Portable Industrial Hydraulic Drum Lift Machine

APPLICATION NO- 6295324
GRANT OR PUBLICATION DATE - 17 July 2023

APPICANT/INVENTORS

Prof. Dr. Ushaa Eswaran
Dr. Shashi Kant Gupta
Mr. Vivek Kumar Bajpai
Dr.Milind Bapna
Dr. Rupesh Shukla
Dr. Amit Garg
Dr. Rajendra Kumar Tripathi
Mr. Prabhdeep Singh

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention presents a **smart, portable, and ergonomically designed hydraulic drum lifting machine** tailored for industrial environments. It is developed with a human-centric approach to address the common physical strain and safety risks faced by workers while handling heavy industrial drums. The machine integrates **smart sensors and hydraulic controls** that assist operators in lifting, transporting, and positioning drums with minimal manual effort, thereby reducing the risk of musculoskeletal injuries and fatigue. Portability and compact design ensure it can be easily maneuvered in tight factory spaces, improving workflow efficiency. The intuitive interface allows even semi-skilled workers to operate the machine safely and effectively. By combining traditional hydraulic power with modern control systems, this device enhances productivity while prioritizing human comfort, safety, and ease of use. It's a practical solution for industries seeking to modernize material handling operations without compromising the well-being of their workforce.

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6295324

Grant date: 17 July 2023

Registration date: 09 July 2023

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Prof. Dr. Ushaa Eswaran, Dr. Shashi Kant Gupta, Mr. Vivek Kumar Bajpai, Dr.

Milind Bapna, Dr. Rupesh Shukla, Dr. Amit Garg, Dr. Rajendra Kumar Tripathi,

Mr. Prabhdeep Singh

in respect of the application of such design to:

Smart Portable Industrial Hydraulic Drum Lift Machine

International Design Classification:
Version: 14-2023
Class: 12 MEANS OF TRANSPORT OR HOISTING
Subclass: 05 ELEVATORS AND HOISTS FOR LOADING OR CONVEYING

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Intellectual Property Office is an operating name of the Patent Office   www.gov.uk/ipo

OVERVIEW

TITLE- : IMPLEMENTATION OF IMAGE PROCESSING TECHNIQUES FOR IDENTIFYING THE SECURITY ASPECTS IN INTERNET OF THINGS

APPLICATION NO- 202311012923 A
GRANT OR PUBLICATION DATE -04/08/2023

APPICANT/INVENTORS

Dr. Raghav Mehra
Dr. Shivani
Dr. Suman Kumar Mishra
Dr. Durga Puja Tripathi
Irfan Ahmed
Gyanendra Tiwary
Husna Sultana
Dr. Gaurav Londhe
Dr. Rinku kumar

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention proposes a novel method for enhancing the **security of Internet of Things (IoT) systems** by implementing **image processing techniques** as an added layer of defense. Designed with a user-focused approach, the system leverages visual data—such as real-time camera feeds or sensor-based images—to monitor, detect, and analyze suspicious activity within an IoT network environment.

Unlike traditional cybersecurity methods that focus solely on software-level vulnerabilities, this system adds **visual intelligence** to observe unauthorized physical access, device tampering, or environmental anomalies. For example, if a smart home camera detects unfamiliar movements or if an industrial sensor picks up unexpected visual cues, the system uses image analysis algorithms to flag potential security threats instantly.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/02/2023

(21) Application No.202311012923 A

(43) Publication Date : 17/03/2023

(54) Title of the invention : IMPLEMENTATION OF IMAGE PROCESSING TECHNIQUES FOR IDENTIFYING THE SECURITY ASPECTS IN INTERNET OF THINGS

(51) International classification :B42D 252900, G06F 162800, G06T 050000, H04L 472425, H04N 071800 (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 Raghav Mehra Address of Applicant :Professor/Bhagwant Institute of Technology, Muzaffarnaga-251315(UP) Muzaffarnagar ------------ ------------ 2)Dr. Shivani 3)Dr. Suman Kumar Mishra 4)Dr. Durga Puja Tripathi 5)Irfan Ahmed 6)Gyanendra Tiwary 7)Husna Sultana 8)Dr Gaurav Londhe 9)Dr. Rinku kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Raghav Mehra Address of Applicant :Professor/Bhagwant Institute of Technology, Muzaffarnaga-251315(UP) Muzaffarnagar ------------ ------------ 2)Dr. Shivani Address of Applicant :Associate Professor/Bhagwant Institute of Technology, Muzaffarnagar Muzaffarnagar ------------ ------------ 3)Dr. Suman Kumar Mishra Address of Applicant :Assistant Professor/ Computer Science and Engineering/ Khwaja Moinuddin Chishti Language University, Lucknow , 226013 Lucknow ---- ------- ------------ 4)Dr. Durga Puja Tripathi Address of Applicant :B.S.A College of engineering & Technology, Mathura UP Mathura ------------ ------------ 5)Irfan Ahmed Address of Applicant :Lecturer in the Department of computer science, Sree Siddaganga college of arts science and commerce for women b h road tumkur Karnataka 572102 Tumkur ------------ ------------ 6)Gyanendra Tiwary Address of Applicant :Assistant Professor, CSE, JGI global Campus, Jain University, Kanakpura Road Campus, Bangalore. Bangalore ------------ ------------ 7)Husna Sultana Address of Applicant :Assistant Professor Of Computer Science,Government First Grade College Tumkur, Tumkur 572102 Tumkur ------------ ------------ 8)Dr Gaurav Londhe Address of Applicant :Associate Professor and Head of Department of CSE IoT, Jain University, Bangalore 560082 Bangalore ------------ ------------ 9)Dr. Rinku kumar Address of Applicant :Assistant professor/BCA, St. Andrews Institute of Technology and Management, Farukhnagar, Gurugraam 122506 Gurugraam ------- ---- ------------

(57) Abstract :
Implementation of Image Processing Techniques for Identifying the Security aspects in Internet of Things is the proposed invention. The invention focuses on implementing framework of Image processing techniques for identifying security aspects of network.

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

OVERVIEW

TITLE- DEVICE WITH ARTIFICIAL INTELLIGENCE FOR PET CARE FACILITY MONITORING

APPLICATION NO- 374069-001
GRANT OR PUBLICATION DATE - 14/11/2022

APPICANT/INVENTORS

Dr. K.Tharini
Shital S Chavan
Dr. Prashant B Shamkuwar
Dr.L. Sujatha
Dr J Thilagavathi
Mrs.Lavanya.K
Prof. Sanjeev Kumar Trivedi
V.Kiran Kumar
Samata Gadde
Dr. Chandra Kumar Dixit
Dr. Leji
G.Ramachandran

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention introduces an intelligent, human-centered device designed specifically to **enhance the care, comfort, and safety of pets** in veterinary clinics, shelters, and pet boarding facilities. Using the power of **Artificial Intelligence (AI)**, the device continuously monitors various environmental and behavioral parameters relevant to the well-being of animals.

With a focus on empathy and responsiveness, the system is capable of tracking vital signs, movements, eating habits, and stress indicators of pets. AI algorithms analyze this data in real time to detect signs of discomfort, illness, or unusual behavior, and immediately alert caretakers for timely intervention. The system can also recognize specific needs based on species and breed, making care more personalized and effective.

ORIGINAL

मूल/No : 128009

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
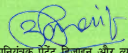डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	374069-001
तारीख / Date	:	14/11/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **DEVICE WITH ARTIFICIAL INTELLIGENCE FOR PET CARE FACILITY MONITORING** से संबंधित है, का पंजीकरण, श्रेणी **10-05** में 1.Dr.K.Tharini 2. Shital S Chavan 3.Dr. Prashant B Shamkuwar 4.Dr.L. Sujatha 5.Dr J Thilagavathi 6.Mrs.Lavanya.K 7.Prof. Sanjeev Kumar Trivedi 8.V.Kiran Kumar 9.Samata Gadde 10.Dr Chandra Kumar Dixit 11.Dr. Leji. J 12.G.Ramachandran, और अन्य। के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **10-05** in respect of the application of such design to **DEVICE WITH ARTIFICIAL INTELLIGENCE FOR PET CARE FACILITY MONITORING** in the name of 1.Dr.K.Tharini 2. Shital S Chavan 3.Dr. Prashant B Shamkuwar 4.Dr.L. Sujatha 5.Dr J Thilagavathi 6.Mrs.Lavanya.K 7.Prof. Sanjeev Kumar Trivedi 8.V.Kiran Kumar 9.Samata Gadde 10.Dr Chandra Kumar Dixit 11.Dr. Leji. J 12.G.Ramachandran, et al.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 31/01/2023

महानियंत्रक पेटेंट डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

OVERVIEW

TITLE- METHOD FOR CONVERTING A THREE-DIMENSIONAL LIDAR DATASET TO A PROJECTION SHAPE, AND A MULTI-CHANNEL TWO-DIMENSIONAL IMAGE FOR PERFORMING SEGMENTATION

APPLICATION NO- .202241075293 A
GRANT OR PUBLICATION DATE - 13/01/2023

APPICANT/INVENTORS

Dr R ARRAVIND
Dr. R.S. Jayaram
Mr. Satyam
Prof Sanjeev Kumar Trivedi
Mr.S.Suresh
Aabha Sahu
Mr. B. Kannadasan
Dr Atowar ul Islam
Mr. Anurag Sinha
LAXMI MISHRA
R. L. KARTHICK

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention presents an advanced computational method that transforms complex **3D LiDAR datasets** into **structured 2D image formats** to facilitate accurate **object detection and segmentation**. LiDAR (Light Detection and Ranging) technology, widely used in autonomous vehicles, robotics, and geospatial mapping, generates vast amounts of point cloud data. However, processing this raw 3D data efficiently for real-time applications is a significant challenge.

The proposed method intelligently converts the 3D LiDAR point cloud into a **projection shape**, such as a bird's-eye view or panoramic image, and further processes it into a **multi-channel 2D image**. This transformation allows for easier and faster analysis using conventional image segmentation techniques powered by AI and deep learning.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241075293 A

(19) INDIA

(22) Date of filing of Application :25/12/2022

(43) Publication Date : 13/01/2023

(54) Title of the invention : METHOD FOR CONVERTING A THREE-DIMENSIONAL LIDAR DATASET TO A PROJECTION SHAPE, AND A MULTI-CHANNEL TWO-DIMENSIONAL IMAGE FOR PERFORMING SEGMENTATION

(51) International classification :G01S0017890000, G06K0009620000, G06T0007110000, G06T0007500000, 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

(71)Name of Applicant :
   1)Dr R ARRAVIND
     Address of Applicant :PROFESSOR AERONAUTICAL ENGINEERING PAAVAI ENGINEERING COLLEGE NAMAKKAL 637018 ----------- -----------
   2)Dr. R.S. Jayaram
   3)Mr. Satyam
   4)Prof Sanjeev Kumar Trivedi
   5)Mr.S.Suresh
   6)Aabha Sahu
   7)Mr. B. Kannadasan
   8)Dr Atowar ul Islam
   9)Mr. Anurag Sinha
   10)LAXMI MISHRA
   11)MR. L. KARTHICK
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
   1)Dr R ARRAVIND
Address of Applicant :PROFESSOR AERONAUTICAL ENGINEERING PAAVAI ENGINEERING COLLEGE NAMAKKAL 637018 ----------- -----------
   2)Dr. R.S. Jayaram
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Amrita College of Engineering and Technology, Amritagiri, Erachakulam Post, Tamil Nadu 629901. -- --------- -----------
   3)Mr. Satyam
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Sree Vidyanikethan Engineering College, Sree Sainath Nagar Tirupati-517102 Andhra Pradesh. ----------- -----------
   4)Prof Sanjeev Kumar Trivedi
Address of Applicant :Department of Electronics, Faculty of Engineering and Technology, Khwaja Moinuddin chishti Language University, Lucknow 226013 ----------- -----------
   5)Mr.S.Suresh
Address of Applicant :Assistant Professor Department of Civil Engineering, Velalar College of Engineering and Technology, Thindal, Erode - 638012 ----------- -----------
   6)Aabha Sahu
Address of Applicant :Assistant Professor, Department of Electrical Engineering, Kalinga University, Nava Raipur, Chhattisgarh - 492101 ----------- -----------
   7)Mr. B. Kannadasan
Address of Applicant :CEO and Subject Matter Expect (SME), Department of Civil Engineering, Kannadasan Balakrishnan Research Foundation. Kalieswari Nagar, Peraiyur Madurai - 625703 ----------- -----------
   8)Dr Atowar ul Islam
Address of Applicant :Associate Professor, Department of Computer Science and Electronics, University of Science and Technology, Meghalaya, Ri-Bhoi, Techni city, Killing Road, Baridua, Meghalaya – 793101. ----------- -----------
   9)Mr. Anurag Sinha
Address of Applicant :Research Scholar, Department of CSIT, IGNOU, New Delhi- 110068 India ----------- -----------
   10)LAXMI MISHRA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION, Khwaja Moinuddin Chishti Language University, Lucknow-226013, Uttar Pradesh, India ----------- -----------
   11)MR. L. KARTHICK
Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY. COIMABTORE - 641 032. TAMILNADU --- -------- -----------

(57) Abstract :
METHOD FOR CONVERTING A THREE-DIMENSIONAL LIDAR DATASET TO A PROJECTION SHAPE, AND A MULTI-CHANNEL TWO-DIMENSIONAL IMAGE FOR PERFORMING SEGMENTATION A method for converting a three-dimensional lidar dataset to a projection shape, and a multi-channel two-dimensional image for performing segmentation. Combining a semantic segmentation frame of the vehicle-mounted point cloud and the image. Reconstructing the three-dimensional building fine geometry by integrating the onboard and onboard three-dimensional laser point clouds and the streetscape images. Acquiring and processing dense point cloud data, wherein the acquisition of initial data information of the surface of a target object is efficiently completed. Reconstructing the fine geometry of the three-dimensional building by integrating the airborne and vehicle-mounted three-dimensional laser point clouds and the streetscape images. Generating, by the processor, an attention region in the two-dimensional image data, the attention region marking an object of interest. Classify the object of interest based on a combination of features from the attention region of the two-dimensional image data and the three-dimensional depth data within and around the regressed boundary.

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

<u>OVERVIEW</u>

TITLE-Electronic Commerce Supply Chain Management System for Decorative Materials Using Machine Learning

Gebrauchsmuster Nr. 20 2022 106 961 – Germany

GRANT OR PUBLICATION DATE - 09/01/2023

APPICANT/INVENTORS

Dr. Kapil Kumar Gupta

Dr. Shashi Kant Gupta

Dr. Imran Ullah Khan

Dr. Upendra Kumar

Nupur Mittal

Jarina Begum Khan Mohamed

Dr. Brijesh Kumar Pandey

Dr. Nitin Purohit

Dr. Raghvendra Singh

Dr. Chithik Raja Mohamed Sinnaiya

Dr. Shailendra Tahilyani

Dr. Rajendra Kumar Tripathi

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention introduces a **smart, AI-enabled supply chain management system** specifically designed for the **electronic commerce of decorative materials**. Recognizing the complexities and fragmented nature of supply chains in the decor industry—ranging from procurement and inventory to delivery—this system uses **machine learning algorithms** to streamline operations, predict demand, and optimize logistics.

The approach is centered on **human business challenges**—like supplier reliability, customer preferences, fluctuating trends, and delivery bottlenecks. By learning from historical data and real-time inputs, the system intelligently automates decision-making processes such as stock replenishment, vendor selection, and route planning. It offers tailored solutions for both sellers and buyers, improving efficiency, reducing costs, and enhancing customer satisfaction.

— Bundesrepublik Deutschland —

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 106 961

Bezeichnung:
System zur Verwaltung der Lieferkette für Dekorationsmaterialien im
elektronischen Handel mit Hilfe von maschinellem Lernen

IPC:
G06Q 30/06

Inhaber/Inhaberin:
Gupta, Kapil Kumar, Dr., Lucknow, Uttar Pradesh, IN
Gupta, Shashi Kant, Dr., Lucknow, Uttar Pradesh, IN
Khan, Imran Ullah, Dr., Firozabad, Uttar Pradesh, IN
Kumar, Upendra, Dr., Sirathu, Uttar Pradesh, IN
Mittal, Nupur, Lucknow, Uttar Pradesh, IN
Mohamed, Jarina Begum Khan, Jazan, SA
Pandey, Brijesh Kumar, Dr., Gorakhpur, Uttar Pradesh, IN
Purohit, Nitin, Dr., Kebri Dehar, ET
Singh, Raghvendra, Dr., Kanpur, Uttar Pradesh, IN
Sinnaiya, Chithik Raja Mohamed, Dr., Dhofar, Salalah, OM
Tahilyani, Shailendra, Dr., Lucknow, Uttar Pradesh, IN
Tripathi, Rajendra Kumar, Dr., Lucknow, Uttar Pradesh, IN

Tag der Anmeldung:
13.12.2022

Tag der Eintragung:
09.01.2023
Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 09.01.2023

Die Voraussetzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters nicht geprüft.
Den aktuellen Rechtsstand und Schutzumfang entnehmen Sie bitte dem DPMAregister unter www.dpma.de.

OVERVIEW

TITLE- IOT ENABLED HANDY PROJECTOR

APPLICATION NO- 370918-001
GRANT OR PUBLICATION DATE - 16/09/2022

APPICANT/INVENTORS

Dr. Swapnil Srivastava
Dr. Shashi Kant Gupta
Dr. Rajendra Kumar Tripathi
Dr. Hemant Kumar Singh

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention introduces a **compact, portable projector** integrated with **Internet of Things (IoT) capabilities**, designed to deliver smart, seamless, and user-friendly visual experiences across various environments. Unlike conventional projectors that rely solely on manual control or limited connectivity, this handy device leverages IoT technology to enable **remote access, wireless operation, and intelligent interaction** with other connected devices.

It is especially useful in educational, professional, and home settings where mobility, automation, and ease of use are essential. Users can operate the projector through smartphones or cloud-based platforms, making it possible to **schedule presentations, stream content, and adjust settings remotely**. The system can also gather and respond to environmental data—like lighting or room occupancy—to automatically optimize projection quality.

ORIGINAL

मूल/No : 124201

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

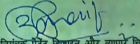|			
डिज़ाइन सं. / Design No.	:	370918-001	
तारीख / Date	:	16/09/2022	
पारस्परिकता तारीख / Reciprocity Date*	:		
देश / Country	:		

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **IOT ENABLED HANDY PROJECTOR** से संबंधित है, का पंजीकरण, श्रेणी **14-02** में 1.Dr. Swapnil Srivastava 2. Dr. Shashi Kant Gupta 3.Dr. Rajendra Kumar Tripathi 4.Dr. Hemant Kumar Singh के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **14-02** in respect of the application of such design to **IOT ENABLED HANDY PROJECTOR** in the name of 1.Dr. Swapnil Srivastava 2. Dr. Shashi Kant Gupta 3.Dr. Rajendra Kumar Tripathi 4.Dr. Hemant Kumar Singh.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के **अध्यधीन प्रावधानों** के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 09/01/2023

महानियंत्रक पेटेंट-डिज़ाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्याधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

*The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

OVERVIEW

TITLE- INTRANASAL DRUG DELIVERY DEVICE WITH ARTIFICIAL INTELLIGENCE BASED CONTROLLED ADMINISTRATION.

APPLICATION NO- 366066-001

GRANT OR PUBLICATION DATE - 15/06/2022

APPICANT/INVENTORS

Dr. M Ravichandran

Dr. Ashutosh Vitthal More

Sathyanarayana Kaliprasad

Dr. Om Prakash Verma

Mohammed Shafeeq Ahmed

Prof. Sanjeev Kumar Trivedi

Dr. D. Revathi

Dr. Sonia Singla

Dr. Anuja Chopra

Sapna Kataria

Dr. Shailesh Solanki

Dr. Ganesh Ramesh Teltumbade

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention presents an innovative **intranasal drug delivery device** that incorporates **Artificial Intelligence (AI)** to achieve precise, personalized, and efficient administration of medications through the nasal route. Traditional intranasal delivery methods often lack accuracy in dosage, timing, and responsiveness to individual patient needs. This device addresses those challenges by using AI to monitor, analyze, and control the drug delivery process in real-time.

The system is designed to **automatically adjust dosage parameters** based on patient-specific factors such as age, health condition, breathing patterns, or prior dosage history. AI algorithms ensure that the medication is delivered at the right time, in the right quantity, and under optimal conditions to maximize therapeutic effectiveness and minimize side effects.

ORIGINAL

मूल/No : 123199

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	366066-001
तारीख / Date	:	15/06/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **INTRANASAL DRUG DELIVERY DEVICE WITH ARTIFICIAL INTELLIGENCE BASED CONTROLLED ADMINISTRATION.** से संबंधित है, का पंजीकरण, श्रेणी **24-01** में 1.Dr. M Ravichandran 2. Dr. Ashutosh Vitthal More 3.Sathyanarayana Kaliprasad 4.Dr. Om Prakash Verma 5.Mohammed Shafeeq Ahmed 6.Prof. Sanjeev Kumar Trivedi 7.Dr.D.Revathi 8.Dr. Sonia Singla 9.Dr Anuja Chopra 10.Sapna Kataria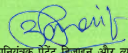 11.Dr Shailesh Solanki 12.Dr. Ganesh Ramesh Teltumbade, और अन्य के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-01** in respect of the application of such design to **INTRANASAL DRUG DELIVERY DEVICE WITH ARTIFICIAL INTELLIGENCE BASED CONTROLLED ADMINISTRATION.** in the name of 1.Dr. M Ravichandran 2. Dr. Ashutosh Vitthal More 3.Sathyanarayana Kaliprasad 4.Dr. Om Prakash Verma 5.Mohammed Shafeeq Ahmed 6.Prof. Sanjeev Kumar Trivedi 7.Dr.D.Revathi 8.Dr. Sonia Singla 9.Dr Anuja Chopra 10.Sapna Kataria 11.Dr Shailesh Solanki 12.Dr. Ganesh Ramesh Teltumbade, et al.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

**INTELLECTUAL
PROPERTY INDIA**
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 04/01/2023

महानियंत्रक पेटेंट डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

OVERVIEW

TITLE- SMART LOCKING MECHANISM IN ELECTRICAL MOTORCYCLE

APPLICATION NO- 6250532
GRANT OR PUBLICATION DATE - 18/12/2022

APPICANT/INVENTORS

RADHEY SHYAM MEENA
DR. RAKHI MUTHA
DR. PURAN SINGH
DR.REVATI RAMRAO RAUTRAO
DR. VAIBHAV SHAHAJI PATIL
PROF.SANJEEV KUMAR TRIVEDI
UDIT MAMODIYA

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

The Smart Locking Mechanism in an electrical motorcycle is an advanced security system designed to enhance rider safety and prevent unauthorized use. Integrating modern technologies such as Bluetooth, biometric sensors, and mobile app connectivity, this mechanism allows riders to lock and unlock their motorcycles seamlessly without traditional keys.

Using a smartphone or a dedicated smart key fob, the rider can remotely control the lock system, ensuring convenience and added protection against theft. The system can include features like fingerprint recognition, facial recognition, or proximity sensors to automatically unlock the motorcycle when the authorized user approaches.

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6250532

Grant date: 03 January 2023

Registration date: 18 December 2022

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

RADHEY SHYAM MEENA, DR. RAKHI MUTHA, DR. PURAN SINGH, DR.

REVATI RAMRAO RAUTRAO, DR. VAIBHAV SHAHAJI PATIL, PROF.

SANJEEV KUMAR TRIVEDI, UDIT MAMODIYA

in respect of the application of such design to:

Smart Locking Mechanism in Electrical Motorcycle

International Design Classification:
Version: 13-2021
Class: 08 TOOLS AND HARDWARE
Subclass: 07 LOCKING OR CLOSING DEVICES

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Intellectual Property Office is an operating name of the Patent Office   www.gov.uk/ipo

OVERVIEW

TITLE- AI BASED CAR TIRE BLOWOUT SECURITY SYSTEM

APPLICATION NO- 202241067480 A

GRANT OR PUBLICATION DATE - 23/12/2022

APPICANT/INVENTORS

Mrs.K.KOWSALYA
Mrs.S.Suganya
MS.P.Umamaheshwari
R.Ganesh Kishore
Dr Atowar ul Islam
Mr. Sumanth Ratna. Kandavalli
Ramesh hicet
Mr. J. Yogaraja
Prof Sanjeev Kumar Trivedi
Athuluri Sai Kushal
MR. L. KARTHICK

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

The AI-Based Car Tire Blowout Security System is an innovative safety solution designed to detect and respond to tire blowouts in real-time, significantly reducing the risk of accidents caused by sudden tire failures. Using advanced sensors embedded in the tires or wheel assemblies, the system continuously monitors critical parameters such as tire pressure, temperature, and vibrations.

Artificial Intelligence algorithms analyze this data to identify early warning signs of potential blowouts, such as rapid pressure loss or unusual tire behavior. When a risk is detected, the system immediately alerts the driver through dashboard notifications or smartphone alerts, allowing them to take preventive action.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/11/2022

(21) Application No.202241067480 A

(43) Publication Date : 23/12/2022

(54) Title of the invention : AI BASED CAR TIRE BLOWOUT SECURITY SYSTEM

(71)Name of Applicant :
  1)Mrs.K.KOWSALYA
    Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore - 641032 ----------- -----------
  2)Mrs.S.Suganya
  3)MS.P.Umamaheshwari
  4)R.Ganesh Kishore
  5)Dr Atowar ul Islam
  6)Mr. Sumanth Ratna. Kandavalli
  7)Ramesh hicet
  8)Mr. J. Yogaraja
  9)Prof Sanjeev Kumar Trivedi
  10)Athuluri Sai Kushal
  11)MR. L. KARTHICK
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
  1)Mrs.K.KOWSALYA
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore - 641032 ----------- -----------
  2)Mrs.S.Suganya
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore -641032 ----------- -----------
  3)MS.P.Umamaheshwari
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Hindusthan Institute of Technology, Coimbatore-641032 ----------- -----------
  4)R.Ganesh Kishore
Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Gnanamani College of Technology, Namakkal ----------- -----------
  5)Dr Atowar ul Islam
Address of Applicant :Assistant Professor, Department of Computer Science and IT, Cotton University, Panbazar, Guwahati-01 ----------- -----------
  6)Mr. Sumanth Ratna. Kandavalli
Address of Applicant :Department of Mechanical & Aerospace Engineering, Tandon School of Engineering, New York University, Brooklyn, 6 Metro Tech Center, New York. (H) 50 Farmers Avenue, Bethpage, NY, United States of America, 11714 ----------- -----------
  7)Ramesh hicet
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway. Coimabtore - 641 032. Tamilnadu ----------- -----------
  8)Mr. J. Yogaraja
Address of Applicant :Assistant Professor, Department of Automobile Engineering, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway. Coimabtore - 641 032. Tamilnadu ----------- -----------
  9)Prof Sanjeev Kumar Trivedi
Address of Applicant :Department of Electronics, Faculty of Engineering and Technology, Khwaja Moinuddin chishti Language University, Lucknow 226013 ----------- -----------
  10)Athuluri Sai Kushal
Address of Applicant :Student, Department of Computer Science and Engineering, VIT-AP University, G-30, Inavolu, Beside AP Secretariat Amaravati, Andhra Pradesh - 522237 ---------- -----------
  11)MR. L. KARTHICK
Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY. COIMABTORE - 641 032. TAMILNADU --------- ----------

(51) International classification :B60C0023040000, B60W0010200000, B60C0023060000, B60C0023000000, B62D0011080000

(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

(57) Abstract :
AI BASED CAR TIRE BLOWOUT SECURITY SYSTEM A method of AI based car tire blowout security system, wherein the method comprises a first control unit is mounted on the vehicle braking, driving, steering and suspension system, (ii) a vehicle control system comprises a sensor to control and check the blowing out or condition of the tire, (iii) blow control unit control the blow out of the tire and control the steering, brake and suspension system to stabilize the vehicle, (iv) monitoring unit that monitors the tire pressure and tire condition and updates to the control unit to control the vehicle speed and stability, (v) a flat tire control unit that comprises an air bag that is equipped with stay bearing plate and described stay bearing plate with several rubber antiskid pads and each air bag is thickening air bag.

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

OVERVIEW

TITLE- Smart Electrical Scooter Driven by Battery

APPLICATION NO- 6247612
GRANT OR PUBLICATION DATE - 29/11/2022

APPICANT/INVENTORS

DR. DEEPIKA SONI
MAJOR DR. SANJAY DHANSING CHAUDHARY
AKANKSHA SINGH
PROF. SANJEEV KUMAR TRIVEDI
TRIPTI TIWARI
MOHIT TIWARI
UDIT MAMODIYA

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

The Smart Electrical Scooter driven by battery is a cutting-edge personal transportation device designed for eco-friendly, efficient, and convenient urban mobility. Powered entirely by a rechargeable lithium-ion battery, this scooter offers a clean and silent ride with zero emissions, making it an ideal choice for reducing environmental impact.

Equipped with smart features such as Bluetooth connectivity, GPS tracking, and mobile app integration, riders can easily monitor battery status, control speed modes, and even lock or unlock the scooter remotely. Advanced sensors provide real-time feedback on speed, battery health, and route navigation, enhancing safety and user experience.

Intellectual Property Office
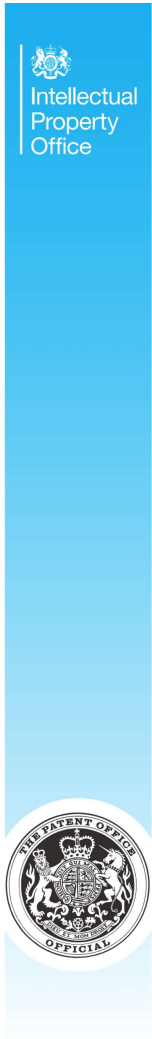
Certificate of Registration for a UK Design

Design number: 6247162

Grant date: 08 December 2022

Registration date: 29 November 2022

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

DR. DEEPIKA SONI, MAJOR DR. SANJAY DHANSING CHAUDHARY,

AKANKSHA SINGH, PROF. SANJEEV KUMAR TRIVEDI, TRIPTI TIWARI,

MOHIT TIWARI, UDIT MAMODIYA

in respect of the application of such design to:

Smart Electrical Scooter Driven by Battery

International Design Classification:
Version: 13-2021
Class: 12 MEANS OF TRANSPORT OR HOISTING
Subclass: 11 CYCLES AND MOTORCYCLES

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Intellectual Property Office is an operating name of the Patent Office   www.gov.uk/ipo

OVERVIEW

TITLE- A SYSTEM AND METHOD FOR HIGH-SPEED NEURON IMPLEMENTATION USING VEDIC MATHEMATICS

APPLICATION NO- 202211055169 A

GRANT OR PUBLICATION DATE - 07/10/2022

APPICANT/INVENTORS

Dr. Raghvendra Singh
Dr Rajendra Kumar Tripathi
Dr. P.N. Pathak
Dr. Chandrakant Kumar Singh

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This innovative system introduces a human-inspired approach to artificial intelligence by accelerating neural computations through ancient Vedic Mathematics. Drawing from time-tested mental math techniques, the system enhances the speed and efficiency of neural network operations—especially multiplication and addition, which are core to how artificial neurons function.

By integrating Vedic math sutras such as "Urdhva Tiryakbhyam" (vertical and crosswise) into hardware or software implementations of neural networks, this method mirrors the way humans simplify complex calculations mentally. The result is a faster, lightweight, and resource-efficient neural processing model that significantly reduces computational time and power consumption.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/09/2022

(21) Application No.202211055169 A

(43) Publication Date : 07/10/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR HIGH-SPEED NEURON IMPLEMENTATION USING VEDIC MATHEMATICS

(51) International classification	:G06F0017180000, G06F0007720000, H04L0012260000, H04N0019850000, G01R0033480000
(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

(71)**Name of Applicant :**
  1)Dr. Raghvendra Singh
   Address of Applicant :Assistant Professor (Mathematics), School of Sciences, Uttar Pradesh Rajarshi Tandon Open University, Prayagraj, Uttar Pradesh- 211013, India Prayagraj ----------- -----------
  2)Dr Rajendra Kumar Tripathi
  3)Dr. P.N. Pathak
  4)Dr. Chandrakant Kumar Singh
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
  1)Dr. Raghvendra Singh
Address of Applicant :Assistant Professor (Mathematics), School of Sciences, Uttar Pradesh Rajarshi Tandon Open University, Prayagraj, Uttar Pradesh- 211013, India Prayagraj ----------- -----------
  2)Dr Rajendra Kumar Tripathi
Address of Applicant :Associate Professor, Applied science and Humanities (Mathematics), Faculty of Engineering and Technology, Khwaja Moinuddin chishti Language university LUCKNOW, Uttar Pradesh-226013, India LUCKNOW ----------- -----------
  3)Dr. P.N. Pathak
Address of Applicant :Assistant Professor Mathematics, CSJM University, Kanpur, Uttar Pradesh- 208012. India Kanpur ----------- -----------
  4)Dr. Chandrakant Kumar Singh
Address of Applicant :Assistant professor Computer Science, Uttar Pradesh Rajarshi Tandon Open University, Prayagraj, Uttar Pradesh- 211013, India Prayagraj ----------- -----------

(57) Abstract :
The high-speed neuron implementation system comprises an artificial neuronal encoder to encode an input data into a neuronal code; a pre-processing unit to pre-process a code deviation data of the neuronal code; a Vedic multiplier to determine a first product and a second product of a component of a code deviation accumulation data, a masking factor, and a component of a code deviation data; a first Vedic adder to calculate a first sum of first products; a second Vedic adder to calculate second product of an entry of a code covariance matrix, a masking factor, and a component of a code deviation data; and a central processing unit to determine a second sum of second products obtained by the second Vedic adder, and to use the second sum and first sum determined by the central processing unit to calculate representation of empirical probability distribution of a component of labelled data.

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

OVERVIEW

TITLE-AN HERBAL FORMULATION FOR PREVENTION AND TREATMENT OF DIABETICS

APPLICATION NO- 202211035751
GRANT OR PUBLICATION DATE - 01/07/2022

APPICANT/INVENTORS

Dr. Awanish Kumar Singh
Dr. Nikhil Agnihotri
Dr. Deepak Kumar Srivastava
Dr Rajiv Ranjan
Dr Rakesh Kumar Srivastava
Dr. Mamta Shukla

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This herbal formulation is a scientifically developed blend of natural plant-based ingredients traditionally known for their anti-diabetic and blood sugar-regulating properties. Designed to support both the prevention and management of diabetes, the formulation works by improving insulin sensitivity, regulating glucose metabolism, and supporting pancreatic function.

Comprising carefully selected herbs such as *Gymnema sylvestre*, *Momordica charantia* (bitter gourd), *Trigonella foenum-graecum* (fenugreek), and *Cinnamomum verum* (true cinnamon), the formulation helps reduce postprandial blood sugar spikes, enhances glucose uptake by cells, and may protect against complications related to diabetes.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/06/2022

(21) Application No.202211035751 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : AN HERBAL FORMULATION FOR PREVENTION AND TREATMENT OF DIABETICS

(51) International classification : A61K0036282000, A01H0005120000, A23L0033000000, A23L0002520000, A01N0065000000	(71)**Name of Applicant :**
	  1)Dr. Awanish Kumar Singh
	   Address of Applicant :Assistant Professor & Head, Department of Botany, S.G.N.Government P.G. College, Muhammadabad Gohna, Mau-276403, Uttar Pradesh Mau ----------- -----------
	  2)Dr. Nikhil Agnihotri
	  3)Dr. Deepak Kumar Srivastava
	  4)Dr Rajiv Ranjan
	  5)Dr Rakesh Kumar Srivastava
	  6)Dr. Mamta Shukla
	Name of Applicant : NA
	Address of Applicant : NA
	(72)**Name of Inventor :**
	  1)Dr. Awanish Kumar Singh
	Address of Applicant :Assistant Professor & Head, Department of Botany, S.G.N.Government P.G. College, Muhammadabad Gohna, Mau-276403, Uttar Pradesh Mau ----------- -----------
	  2)Dr. Nikhil Agnihotri
	Address of Applicant :Assistant Professor, Department of Botany, SKJD Mahavidyalaya, Mangalpur Kanpur Dehat Kanpur ----------- -----------
	  3)Dr. Deepak Kumar Srivastava
	Address of Applicant :Principal, Department of Botany, Career Convent Girls P.G. College, Sector-5, Vikash Nagar, Lucknow-226022, Uttar Pradesh Lucknow ----------- -----------
	  4)Dr Rajiv Ranjan
	Address of Applicant :Assistant Professor, Department of Botany, M. L. K. (P.G.) College, Balrampur, Tulsipur Road, Near Balark Hotel, Balrampur-271201 Balrampur ----------- -----------
	  5)Dr Rakesh Kumar Srivastava
	Address of Applicant :Assistant Professor Stage 2nd & Head, Department of Ayurveda, Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Chitrakoot, District- Satna (M.P.)-485334, India Satna ----------- -----------
	  6)Dr. Mamta Shukla
	Address of Applicant :Associate Professor, Department of Biotechnology, Engineering & Technology Khwaja Moinuddin Chishti Language University, Lucknow-226013 Lucknow ----------- -----------

(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	

(57) Abstract :

The present invention discloses an Herbal formulation for prevention and treatment of diabetics. Disclosed herein is a formulation that provides at least 1 x 104 to 1 x 105 Insulin Equivalent units in 1 milliliter where the herbal extract comprises extracts from Artemisia dracunculus, Cichoria endivia and Lactuca sativa and a metal (e.g., chromium, iron, manganese, zinc, or copper). In certain embodiments, the extracts from Artemisia dracunculus, Cichoria endivia and Lactuca sativa are dried aqueous extracts where the aqueous extracts are produced by a process comprising extracting leaves of Artemisia dracunculus, Cichoria endivia and Lactuca sativa.

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

OVERVIEW

TITLE- Systems for charging electric vehicles using electric energy from external sources.

APPLICATION NO- 202211055169 A
GRANT OR PUBLICATION DATE - 20/05/2022

APPICANT/INVENTORS

Dr. Satish Kumar Awasthi
Dr. Ram Sharan Bajpai
Dr. Vivek Kumar Bajpai
Dr. Chandra Bhan
Dr. Amarjeet Singh
Dr. Pavan Kumar Singh
Ms. Amisha Srivastava
Mr. Rami Suremani
Dr. Rakesh Varma

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This system is designed to efficiently charge electric vehicles (EVs) by drawing electric energy from various external sources such as the power grid, renewable energy systems (solar, wind), or dedicated EV charging stations. It enables safe, fast, and controlled delivery of electricity to the vehicle's onboard battery management system.

The system typically comprises a power interface, charging controller, communication module, and safety mechanisms. Smart features allow for real-time monitoring of charging status, load balancing, and energy optimization. Integration with IoT platforms enables remote access, scheduling, and billing.

━━ Bundesrepublik Deutschland ━━

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 102 515

Bezeichnung:
Solarstrombasiertes netzintegriertes Gleichstrom-Schnellladesystem für
Elektrofahrzeuge mit fortschrittlichen Gleichstrom-Gleichstrom-
Resonanzwandlern

IPC:
B60L 53/50

Inhaber/Inhaberin:
Awasthi, Satish Kumar, Raebareli, Uttar Pradesh, IN
Bajpai, Ram Sharan, Dr., Lucknow, Uttar Pradesh, IN
Bajpai, Vivek Kumar, Raebareli, Uttar Pradesh, IN
Bhan, Chandra, Dr., Prayagraj, Uttar Pradesh, IN
Singh, Amarjeet, Dr., Lucknow, Uttar Pradesh, IN
Singh, Pavan Kumar, Dr., Prayagraj, Uttar Pradesh, IN
Srivastava, Amisha, Prayagraj, Uttar Pradesh, IN
Suremani, Ram, Sultanpur, IN
Varma, Rakesh, Dr., Lucknow, Uttar Pradesh, IN

Tag der Anmeldung:
07.05.2022

Tag der Eintragung:
20.05.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 20.05.2022

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OVERVIEW

TITLE- NOVEL CHYAWANPRASH COMPOSITION WITH HIGH SHELF-LIFE & LOW CALORIFIC VALUE AND METHOD OF PREPARATION THEREOF

APPLICATION NO- 202221020976 A

GRANT OR PUBLICATION DATE - 24/06/2022

APPICANT/INVENTORS

MAHAKAUSHAL UNIVERSITY
Akanksha Soni
Dr. Bhaskar Jyoti
Dr. Ramesh Chandra Mishra
Dr. Swati Agarwal
Akanksha
Shivani Shukla
Sanskriti Srivastava
Dr. Vani Mishra
Dr Mamta Shukla
Dr Rajesh Kumar Dubey

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention relates to a novel formulation of **Chyawanprash**, an Ayurvedic health supplement, with significantly enhanced **shelf-life** and **reduced calorific value**, while retaining its traditional therapeutic benefits. The composition is designed to cater to health-conscious consumers, diabetics, and individuals managing calorie intake, without compromising the immunity-boosting and rejuvenating effects associated with classical Chyawanprash.

The formulation utilizes natural preservatives, low-glycemic sweeteners (such as stevia or isomalt), and modified herbal extracts to maintain potency and stability over extended storage periods. Ingredients like *Amla (Emblica officinalis)*, *Ashwagandha*, *Guduchi*, *Pippali*, and other classical herbs are processed using optimized temperature and pH-controlled methods to preserve bioactive compounds and enhance absorption.

KHWAJA MOINUDDIN CHISHTI LANGUAGE UNIVERSITY, LUCKNOW

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221020976 A

(19) INDIA

(22) Date of filing of Application :07/04/2022

(43) Publication Date : 24/06/2022

(54) Title of the invention : NOVEL CHYAWANPRASH COMPOSITION WITH HIGH SHELF-LIFE & LOW CALORIFIC VALUE AND METHOD OF PREPARATION THEREOF

(51) International classification	:A61K0036258000, A23L0033105000, C10L0005440000, A61K0035644000, A23L0027140000
(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

(71)**Name of Applicant :**
  1)MAHAKAUSHAL UNIVERSITY
  Address of Applicant :Village-Aithakheda, Mukunwara Road, Post- Tilwara Jabalpur(M.P.) 482003, India ----------- -----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
  1)Akanksha Soni
Address of Applicant :Research Scholar, Swami Vivekanand University, Sagar, Madhya Pradesh ----------- -----------
  2)Dr. Bhaskar Jyoti
Address of Applicant :Assistant Professor , Mahakaushal University, Jabalpur, M.P., India ----------- -----------
  3)Dr. Ramesh Chandra Mishra
Address of Applicant :Vice-Chancellor, Mahakaushal University, Jabalpur, Madhya Pradesh ----------- -----------
  4)Dr. Swati Agarwal
Address of Applicant :Assistant Professor (Ag), Mahakaushal University, Jabalpur, Madhya Pradesh ----------- -----------
  5)Akanksha
Address of Applicant :Research scholar, Mahakaushal University, Jabalpur, Madhya Pradesh ----------- -----------
  6)Shivani Shukla
Address of Applicant :Research scholar, Swami Vivekanand University, Sagar, MP ----------- -----------
  7)Sanskriti Srivastava
Address of Applicant :MSc Biotechnology (Research Scholar), Maa Gayatri Mahavidhyalaya, Mawaiya Road, Naini Prayagraj, Uttar Pradesh ----------- -----------
  8)Dr. Vani Mishra
Address of Applicant :Assistant Professor, Shyam Kumari P.G. College, Asepur,Prayagraj, Uttar Pradesh ----------- -----------
  9)Dr Mamta Shukla
Address of Applicant :Associate Professor, Department Of Biotechnology, Faculty of Engineering and Technology, Khwaja Moinuddin Chishti Language University, Lucknow-226013 ----------- -----------
  10)Dr. Rajesh Kumar Dubey
Address of Applicant :Director, UGC-HRDC JNVU, Jodhpur, Rajasthan ----------- -----------

(57) Abstract :
The present invention relates to Novel chyawanprash composition with high shelf-life & low calorific value and method of preparation thereof. The objective of the present invention is to solve the problems in the prior art chyawanprash composition. The present invention discloses a chyawanprash composition with made is purely nutraceutical carrying numerous herbs, spices, ginseng root extract, stevia leaves powder, jaggery and honey incorporated at different levels which contribute to Chyawanprash's therapeutic properties in several ways.

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

OVERVIEW

TITLE- A SMART CUP

APPLICATION NO- 358114-001
GRANT OR PUBLICATION DATE - 08/02/2022

APPICANT/INVENTORS

Larya Dubey
Dr. Shishir Dixit
Dr. Mamta Shukla
Dr. Ashish Mishra

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

The invention relates to a **Smart Cup**—an intelligently designed beverage container that seamlessly integrates technology with everyday use to enhance user convenience, health monitoring, and lifestyle efficiency. Engineered with a sleek, ergonomic form, the smart cup combines **aesthetic appeal with functional innovation**, making it suitable for both home and on-the-go usage.

The cup is embedded with sensors capable of detecting liquid temperature, volume, and type (e.g., water, coffee, tea). It can sync with a mobile app or smartwatch via Bluetooth to provide real-time data such as hydration tracking, temperature alerts, and consumption reminders. The design includes an LED ring or display panel to notify users visually, with customizable colors or symbols.

ORIGINAL

No. 111328

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No.	358114-001
Date	08/02/2022 17:00:08
Reciprocity Date*	
Country	

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 07-01 in respect of the application of such design to CUP in the name of 1.ARYA DUBEY, STUDENT, CSE DEPT., GGITS, JABALPUR, M. P. INDIA 482003 2. DR. SHISHIR DIXIT, ASSO. PROF., EE DEPT., MITS, GWALIOR, M. P. INDIA 474005 3. DR. MAMTA SHUKLA, ASSO. PROF., DEPT. OF BIOTECHNOLOGY, FACULTY OF ENGINEERING AND TECHNOLOGY, KMCLU, U. P. INDIA 226013 4. DR. ASHISH MISHRA, PROFESSOR, CSE DEPT., GGITS, JABALPUR, M. P. INDIA 482003 , ET AL.

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

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RAJASTHAN PIN 324009, INDIA

Date of Issue 06/04/2022 15:24:30

OVERVIEW

TITLE- METHOD AND SYSTEM FOR AUTOMATICALLY IDENTIFYING A BLOOD DONOR IN VICINITY OF A PATIENT

APPLICATION NO- 202121053094 A

GRANT OR PUBLICATION DATE - 03/12/2021

APPICANT/INVENTORS

Dr. Mamta Shukla
Dr. Shishir Dixit
Dr. Ashish Mishra
Dr. Amit Agarwal
Dr. Deepak Gaur
Dr. Alok Ranjan
Dr. Mahendra Kumar
Dr. Neha Sharma
Dr. Ankur Saxena

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention relates to a method and system designed to automatically identify blood donors located near a patient in need of blood. It works by:

- Maintaining a registered database of blood donors and their geolocation.
- Matching patient requirements (e.g., blood group, proximity, urgency) with available donors.
- Using a controller, interactive platform, and geolocation services to identify suitable donors.
- Notifying potential donors in real-time through the platform.

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATICALLY IDENTIFYING A BLOOD DONOR IN VICINITY OF A PATIENT

(71)Name of Applicant :
  1)Dr. Ashish Mishra
    Address of Applicant :Professor, Department of Computer Science and Engineering, Gyan Ganga Institute of Technology and Sciences, Jabalpur M.P. India Pin 482003 ----------- -----------
  2)Chaitanya Rai
  3)Dr. Rachna Kamble
  4)Dr. Ashok Verma
  5)Dr. Mamta Shukla
  6)Dr. Shishir Dixit
  7)Ankur Pandey
  8)Dr. Ritu Agarwal
  9)Vedant Jain
  10)Yashika Jotwani
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
  1)Dr. Ashish Mishra
  Address of Applicant :Professor, Department of Computer Science and Engineering, Gyan Ganga Institute of Technology and Sciences, Jabalpur M.P. India Pin 482003 ----------- -----------
  2)Chaitanya Rai
  Address of Applicant :Department of Computer Science and Engineering, Gyan Ganga Institute of Technology and Sciences, Jabalpur M.P. India Pin 482003 ----------- -----------
  3)Dr. Rachna Kamble
  Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Technocrats Institute of Technology, Bhopal M.P. India Pin 462021 ----------- -----------
  4)Dr. Ashok Verma
  Address of Applicant :Professor, Department of Computer Science and Engineering, Gyan Ganga Institute of Technology and Sciences, Jabalpur M.P. India Pin 482003 ----------- -----------
  5)Dr. Mamta Shukla
  Address of Applicant :Associate Professor, Department of Biotechnology, Faculty of Engineering and Technology, Khwaja Moinuddin Chishti Language University- Lucknow 206013 U.P. India ----------- -----------
  6)Dr. Shishir Dixit
  Address of Applicant :Associate Professor, Department of Electrical Engineering, Madhav Institute of Technology and Science, Gwalior 474005 M.P. India ----------- -----------
  7)Ankur Pandey
  Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, University Institute of Technology (UIT), RGPV Shahdol. M.P. India Pin 484001 ----------- -----------
  8)Dr. Ritu Agarwal
  Address of Applicant :Assistant Professor ,Malaviya National Institute of Technology, JLN Marg, Jaipur- 302017 Rajasthan India ----------- -----------
  9)Vedant Jain
  Address of Applicant :Department of Computer Science and Engineering, Gyan Ganga Institute of Technology and Sciences, Jabalpur M.P. India Pin 482003 ----------- -----------
  10)Yashika Jotwani
  Address of Applicant :Department of Computer Science and Engineering, Gyan Ganga Institute of Technology and Sciences, Jabalpur M.P. India Pin 482003 ----------- -----------

(51) International classification : G06Q0030020000, A61B0006000000, G16H0040200000, A61F0002460000, G06F0003000000
(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

(57) Abstract :
The present invention is related to a method and system for automatically identifying an at least one donor in vicinity of a patient utilizing an interactive platform110. To start with, a plurality of users is registered utilizing a registration module 208 by collecting the details of a plurality of donors, a plurality of hospitals, and a plurality of receivers. Subsequently, validating the plurality of users utilizing verification module 210 by transmitting an email. The details corresponding to the plurality of users are encrypted utilizing a data encryption module 212 using a unique identification. Further, the details corresponding to a patient along with a prescribed prescription are collected utilizing a patient data collection module 214 and stored in database 110. Thereafter, the details corresponding to the patient are correlated with a list of donors stored in database 110 utilizing a data matching module 216 based on the location of the patient.

Figure – 1
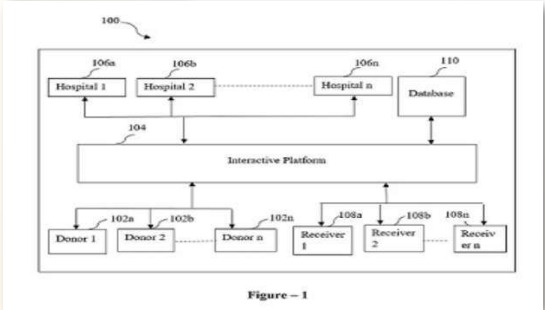
No. of Pages : 28 No. of Claims : 9

OVERVIEW

TITLE- ENHANCED CYBERSECURITY SYSTEM FOR DATA COMMUNICATION TO SECURE IOT DEVICES

APPLICATION NO- 202141051872 A

GRANT OR PUBLICATION DATE - 26/11/2021

APPICANT/INVENTORS

Ingeniouz
Deobrata Kumar
Vino T
Mihir Dineshbhai Mehta
Dr. N. Farida Begum
Shan e Fatima
Mr. Sudhir Anakal
Chandrasekhar Uppin
Biswajit Nayak
Swati Namdev
Dr. Jayanti Mehra
Nandkumar Ramesh Mali

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention relates to an advanced cybersecurity system specifically designed to safeguard Internet of Things (IoT) devices and their communication channels from a wide range of cyber threats. As IoT networks continue to expand in scale and complexity—connecting billions of devices across smart homes, industrial environments, and urban infrastructure—the need for a robust, real-time, and adaptive security framework becomes increasingly critical. The proposed system addresses this need through a comprehensive, multi-layered approach. It incorporates strong encryption techniques to secure data transmission, effectively preventing interception and unauthorized access. The system also features an intelligent Intrusion Detection and Prevention System (IDPS), powered by machine learning algorithms capable of identifying and mitigating abnormal behavior or attack patterns in real time. To further enhance access security, it utilizes advanced authentication protocols, including biometric and multi-factor authentication, ensuring that only authorized users and devices can interact with the network. Additionally, the integration of blockchain technology provides an immutable record of all communications between IoT nodes, ensuring data integrity and preventing tampering. This holistic cybersecurity solution offers a scalable and intelligent defense mechanism tailored to the evolving demands of IoT ecosystems.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/11/2021

(21) Application No.202141051872 A

(43) Publication Date : 26/11/2021

(54) Title of the invention : ENHANCED CYBERSECURITY SYSTEM FOR DATA COMMUNICATION TO SECURE IOT DEVICES

(51) International classification :H04L0029080000, H04L0029060000, H04W0004700000, G06F0021620000, G06F0009540000

(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)Ingeniouz
    Address of Applicant :#23, Mosque Pallam, Saidapet ----------- -----------
  2)Deobrata kumar,R.V.S college of Engineering & Technology
  3)Vino.T ,Sathyabama Institute of Science and Technology
  4)Mihir Dineshbhai Mehta,Government Engineering College; Gandhinagar
  5)Dr. N. Farida Begum,Sri Ramakrishna college of Arts and Science
  6)Shan e Fatima,Kwaja moidineen chisti language University
  7)Mr. Sudhir Anakal,Visvesvaraya Technological University
  8)Chandrasekhar Uppin,Baze University
  9)Biswajit Nayak,Sri Sri University
  10)Swati Namdev,Career College
  11)Dr. Jayanti Mehra,LNCT Bhopal
  12)Nandkumar Ramesh Mali,Opjs University
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
  1)Deobrata kumar,R.V.S college of Engineering & Technology
Address of Applicant :Assistant Professor, R.V.S college of Engineering & Technology, Jamshedpur Edalbera, P.O-Bhilai Pahari, Jamshedpur, Jharkhand India 831012 ----------- ------ -----
  2)Vino.T ,Sathyabama Institute of Science and Technology
Address of Applicant :Associate Professor, Department of ECE Sathyabama Institute of Science and Technology - Chennai Tamil Nadu India ----------- -----------
  3)Mihir Dineshbhai Mehta,Government Engineering College; Gandhinagar
Address of Applicant :Asst. Professor , Government Engineering College; Gandhinagar - Gandhinagar Gujarat India ----------- -----------
  4)Dr. N. Farida Begum,Sri Ramakrishna college of Arts and Science
Address of Applicant :Assistant Professor MBA, Department of management, Sri Ramakrishna college of Arts and Science - Coimbatore Tamil Nadu India ----------- -----------
  5)Shan e Fatima,Kwaja moidineen chisti language University
Address of Applicant :Assistant Professor, Kwaja moidineen chisti language University - Lucknow Uttar Pradesh India 226013 ----------- -----------
  6)Mr. Sudhir Anakal,Visvesvaraya Technological University
Address of Applicant :Research Scholar, Department of MCA, Visvesvaraya Technological University, Centre for PG Studies Kusnur Road Kalaburagi Karnataka India 585105 ----------- -----------
  7)Chandrasekhar Uppin,Baze University
Address of Applicant :Head, Department of Computer Science Department of Computer Science Baze University, - Abuja - Nigeria ----------- -----------
  8)Biswajit Nayak,Sri Sri University
Address of Applicant :Assistant Professor, Faculty of Management Studies, Sri Sri University - Cuttack Odisha India 754006 ----------- -----------
  9)Swati Namdev,Career College
Address of Applicant :Assistant professor, Career College - Bhopal Madhya Pradesh India ----
  10)Dr. Jayanti Mehra,LNCT Bhopal
Address of Applicant :Associate Professor , LNCT Bhopal - Bhopal Madhya Pradesh India ----
------- -----------
  11)Nandkumar Ramesh Mali,Opjs University
Address of Applicant :Research Scholar, Opjs University , Mgv's M.S.G Arts, Science And Commerce College Malegaon Camp Malegaon , Aai Niwas Sarswati Colony Shivaji Nagar Kalwan District Nashik Maharashtra India ----------- -----------

(57) Abstract :
Modern era is conquered by the fairly disruptive technology of Internet of Things (IoT) which has unimaginable capability, growth and impact. Devices using this technology demands incredible security and data privacy as same cloud connects several devices; hence there is possibility of data leakage. This invention presents the implementation of Representational State Transfer (REST) Application Programming Interface for IoT devices based on the concepts used in IoT technology which keeps record of events of the devices along with count of everything. These devices are connected to the cloud server utilizing the concept of middleware. But new applications using IoT in the cloud brings security threats for data privacy. Hence there is requirement of innovative system for securing innovative IoT devices which avoids hackers from entering the network via IoT devices along with securing transit of data into the cloud from the IoT devices. This invention provides the method of securing IoT devices connected to cloud and users by exposing them using REST API. Device data is primarily exposed using middleware via REST thereby hiding details acting as an interface between sensor data and the user.

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

OVERVIEW

TITLE- Automatic Human Personality Detection System Using Machine Learning

APPLICATION NO- 202111028620 A

GRANT OR PUBLICATION DATE - 23/07/2021

APPICANT/INVENTORS

Dr. Amit Mishra

Dr. Geetha M

Dr. G. Alex Rajesh

Dr. Siddharth Baburao Dabhade

Dr. Nagsen Samadhan Bansod

Dr. Suman Kumar Mishra

Dr. Anita Sharma

Dr. Manuj Darbari

Dr. Diwakar Yagyasen

Mr. Raghvendra Kumar Singh

Mr. Shashi Kant Gupta

Mr. D Saravanan

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention relates to an intelligent system designed to automatically detect and classify human personality traits using machine learning algorithms. The system aims to assist in various domains such as recruitment, education, mental health analysis, and personalized marketing by providing accurate personality insights based on user data.

The core of the system utilizes supervised and unsupervised learning techniques trained on large datasets, including textual inputs (e.g., social media posts, written responses), speech patterns, facial expressions, and behavioral data. These inputs are analyzed to identify key personality indicators aligned with psychological models like the Big Five Personality Traits (Openness, Conscientiousness, Extraversion, Agreeableness, Neuroticism).

The system comprises modules for data acquisition, preprocessing, feature extraction, model training, and real-time prediction. It ensures adaptability to different languages, cultural contexts, and user interfaces. Additionally, privacy and ethical considerations are embedded within the design to protect user data and provide transparent, interpretable results.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/06/2021

(21) Application No.202111028620 A

(43) Publication Date : 23/07/2021

(54) Title of the invention : AUTOMATIC HUMAN PERSONALITY DETECTION SYSTEM USING MACHINE LEARNING

(51) International classification	:G06Q0010100000, G06N0003040000, G10L0015260000, G10L0025510000, G06N0003080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
	:NA
Filing Date	
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
  1)Dr. AMIT MISHRA
    Address of Applicant :Assistant Professor, Applied Science and Humanities, Dr Shakuntala Misra National Rehabilitation University, Lucknow, UP, India Uttar Pradesh India
  2)Dr. GEETHA M
  3)Dr. G. ALEX RAJESH
  4)Dr. SIDDHARTH BABURAO DABHADE
  5)Dr. NAGSEN SAMADHAN BANSOD
  6)Dr. SUMAN KUMAR MISHRA
  7)Dr. ANITA SHARMA
  8)Dr. MANUJ DARBARI
  9)Dr. DIWAKAR YAGYASEN
  10)Mr. RAGHVENDRA KUMAR SINGH
  11)Mr. SHASHI KANT GUPTA
  12)Mr. D SARAVANAN
(72)Name of Inventor :
  1)Dr. AMIT MISHRA
  2)Dr. GEETHA M
  3)Dr. G. ALEX RAJESH
  4)Dr. SIDDHARTH BABURAO DABHADE
  5)Dr. NAGSEN SAMADHAN BANSOD
  6)Dr. SUMAN KUMAR MISHRA
  7)Dr. ANITA SHARMA
  8)Dr. MANUJ DARBARI
  9)Dr. DIWAKAR YAGYASEN
  10)Mr. RAGHVENDRA KUMAR SINGH
  11)Mr. SHASHI KANT GUPTA
  12)Mr. D SARAVANAN

(57) Abstract :
The automated analysis of video interviews to identify individual personality features eliminated many issues now with progress in artificial intelligence. In personality computing and psychological assessment, AI has used. The speech agent is intelligent, easy to use, integrated Google Assistant, Amazon Alexa and LG's ThinQ deep learning AI technology. Whether you purchase meals, look for YouTube or watch the weather, the tools and material we enjoy are simpler to reach via AI. We have created an AI interview system in this invention which is aimed at hiring staff using the CNN model and Tensorflow engine in a specific business. The technology recognizes simple human nonverbal indications like attribute and stance. Many candidates' appearances and polls have been automatically developed based on the characteristics retrieved that prepare the character scores.

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

OVERVIEW

TITLE- IOT BASED AUTOMATED GREEN ENERGY MANAGEMENT OF PUBLIC GARDENS

APPLICATION NO- 2021107102

GRANT OR PUBLICATION DATE - 2ND DAY OF NOVEMBER 2021

APPICANT/INVENTORS

Dr. P. Sanjeeva Rayudu

Dr. Surendra Kumar Yadav

Dr. Bhubaneswari Bisoyi

Deepa Sonal

U P Kumar Chaturvedula

Aditya Kumar Rai

Shan E Fatima

Dr. R. Krishnamoorthy

Dr. Chidurala Srinivas

Vilas Kisanrao Tembhurne

Dr. Venkata Suresh Chinni

Dr. Gaurav Indra

DISCRIPTION
ACCORDING TO THE INVENTORS/APPLICANTS

This invention presents a human-centric solution for the sustainable and intelligent management of public gardens using Internet of Things (IoT) technology combined with green energy sources. The system is designed to reduce human effort, optimize energy usage, and enhance the overall experience for visitors, while promoting environmental responsibility.

The invention integrates IoT sensors and controllers to monitor and manage various garden functions such as lighting, irrigation, air quality, and energy consumption in real-time. Powered by renewable energy sources like solar panels, the system ensures that the garden's operations remain eco-friendly and energy-efficient. Smart sensors track soil moisture, temperature, humidity, and sunlight, enabling automated irrigation only when necessary—conserving water and preserving plant health.

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021107102

The Commissioner of Patents has granted the above patent on 2 November 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Dr. P. Sanjeeva Rayudu, Chadalawada Ramanamma Engineering College- Autonomous, Tirupati, India

Dr Surendra Kumar Yadav, Vice President, Society for Environment and Sustainable Development (SESD), New Delhi, 37, Old Roshan Pura Extn., A-Block, Najafgarh, New Delhi, India - 110043.

Dr. Bhubaneswari Bisoyi, Assistant Professor, Faculty of Management Studies,Sri Sri University, Cuttack-754006, India

Deepa Sonal, Assistant Professor, Patna Women's College , Patna, India-800001

U P Kumar Chaturvedula, Associate Professor, EEE, Aditya College of Engineering, India

Aditya Kumar Rai, Asst Professor, Amity University, Lucknow Campus Uttar Pradesh, India

Shan E Fatima, Dept.of Computer Science & Engineering, Khwaja Moinuddin Chishti language University, Lucknow, India – 226013

Dr. R.Krishnamoorthy, Associate Professor, Department of Electronics and Communication Engineering, Prathyusha Engineering College, Tamil Nadu, India

Dr. Chidurala Srinivas, Professor, Department of Mechanical Engineering, Vaageswari College of Engineering, Karimnagar, Telangana 505527, India

Vilas Kisanrao Tembhurne, Dr Ambedkar College of Arts, Commerce and Science, Chandrapur, Maharashtra, India

Dr Venkata Suresh Chinni ,Associate. Professor,Department of Biotechnology, Faculty of Applied Sciences, AIMST University, Semeling, Bedong, Kedah State, Malaysia – 08100

Dr. Gaurav Indra, Assistant Professor, Department of Information Technology, Indira Gandhi Delhi Technical University For Women, Kashmere Gate, New Delhi, India - 110006

Title of invention:

IOT BASED AUTOMATED GREEN ENERGY MANAGEMENT OF PUBLIC GARDENS

Name of inventor(s):

Rayudu, P. Sanjeeva ; Yadav, Surendra Kumar ; Bisoyi, Bhubaneswari ; Sonal, Deepa ; Chaturvedula, U P Kumar ; Rai, Aditya Kumar ; Fatima, Shan E ; R, Krishnamoorthy ; Srinivas, Chidurala ; Tembhurne, Vilas Kisanrao ; Chinni, Venkata Suresh ; Indra, Gaurav

Term of Patent:

Eight years from 25 August 2021

Dated this 2nd day of November 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

THANK YOU