



## BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

FOUNDER CHANCELLOR  
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M.A., LL. B., Ph. D.

Accredited by NAAC With 'A' Grade  
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur  
Near Chitranagari, Kolhapur - 416013 (MS)  
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PRINCIPAL  
**Dr. Vijay Ghorpade**  
M.E., Ph. D. (Computer)

## NAAC SSR CYCLE- 2



<b>Criterion 3</b>	<b>Research, Innovations and Extension</b>
<b>Key Indicator 3.2</b>	<b>Innovation Ecosystem</b>
3.2.1 Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, Establishment cell, Incubation centre, and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident.	

**Patent Details**



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### Patent Details

Sr. No.	Name of the teacher	Title of patent	Type of patent (National/ International)	Application Number	Status (Filed/Published /Awarded)
1	Dr. Sunil Jagannath Kadam	COST-EFFECTIVE ELECTROSPINNING SETUP FOR SYNTHESIS OF NANOFIBERS	National	202121004762	Awarded
2	Dr. Rajkumar K. Chougale	MCB UNIT WITH TOUCH SCREEN FOR DOMESTIC PURPOSE	National	372033-001	Awarded
3	Mr. Vinay S Mandlik	MCB UNIT WITH TOUCH SCREEN FOR DOMESTIC PURPOSE	National	372033-001	Awarded
4	Ms. Sarita Santaji Shinde	AI & ML BASED SYSTEM FOR PREDICTION OF WIND POWER FOR MULTI-TURBINES	National	202221050126	Published
5	Ms. Sarita Santaji Shinde	A SYSTEM FOR MAPPING CANCER COMMON DATA ELEMENTS USING ANN & AI MODULES	National	202221051203	Published
6	Dr. Rajkumar K. Chougale	BATTERY MANAGEMENT SYSTEM FOR GREEN ENERGY STORAGE	National	202221048908	Published
7	Mr. Vinay S Mandlik	BATTERY MANAGEMENT SYSTEM FOR GREEN ENERGY STORAGE	National	202221048908	Published
8	Dr. Rajkumar K. Chougale	DESIGN AND IMPLEMENTATION OF A SMART SOLAR PANEL WITH AUTO RECTIFICATION AND SELF PHASED MANAGEMENT FEATURES	National	202221036570	Published
9	Dr. Rajkumar K. Chougale	DESIGN OF SOLAR THERMAL POWER INTEGRATION SYSTEMS TO INCREASE THE EFFICIENCY OF UTILISATION OF RENEWABLE ENERGY RESOURCES IN HOUSING UNITS	National	202211035079	Published
10	Dr. Vijay Ram Ghorpade	DYNAMIC TRUST MANAGEMENT FOR COMMUNITY BASED MOBILE GRID APPLICATION	National	201921047137	Published
11	Dr. Vijay Ram Ghorpade	INTELLIGENT COIN SEPARATOR	National	201821038013	Published
12	Dr. Vijay Ram Ghorpade	SECURE ROUTING PROTOCOL FOR MOBILE AD-HOC NETWORK (MANET)	National	201921053631	Published
13	Dr. Sunil Jagannath Kadam	DESIGN, FABRICATION AND ANALYSIS OF SOYABEAN	National	201621003189	Published

		MOISTURE REDUCING MACHINE IN SOYBEANS			
14	Dr. Vijay Ram Ghorpade	METHOD AND APPARATUS FOR HIGH PERFORMANCE COMPUTING USING MOBILE GRID	National	4218/MUM/2015	Published
15	Dr. Kedar Sharad Joshi	A SMART IOT BASED NATURAL LANGUAGE PROCESSING SYSTEM WITH PROMPT OF ENGLISH SENTENCES TO HELP LAYMEN'S INTERACTION WITH VIRTUAL ASSISTANTS EMBEDDED WITH SENSORS ALONG WITH PRONUNCIATION	National	202241051821	Published
16	Mr. Jayant Chandrakant Thorat	IOT BASED AUTOMATIC VEHICLE ABNORMAL ACCIDENT DETECTION AND RESCUE SYSTEM	National	202221072657	Published
17	Mr. Gajendra Jaysing Pol	DESIGNING A SMART CUTTING MACHINE TO CUSTOMIZE THE PRODUCTION OF PRODUCTS IN MANUFACTURING DEPARTMENT	National	202221054074	Published
18	Mr. Avadhut Rajaram Jadhav	DESIGNING A SMART CUTTING MACHINE TO CUSTOMIZE THE PRODUCTION OF PRODUCTS IN MANUFACTURING DEPARTMENT	National	202221054074	Published
19	Mr. Jitendra Govind Shinde	DESIGNING A SMART CUTTING MACHINE TO CUSTOMIZE THE PRODUCTION OF PRODUCTS IN MANUFACTURING DEPARTMENT	National	202221054074	Published
20	Mr. Ranjeet Sarjerao Mithari	DESIGNING A SMART CUTTING MACHINE TO CUSTOMIZE THE PRODUCTION OF PRODUCTS IN MANUFACTURING DEPARTMENT	National	202221054074	Published





सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE

ORIGINAL

No. 108640

## CERTIFICATE OF REGISTRATION OF DESIGN

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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 10-04 in respect of the application of such design to PROBE-FOR MEASURING SEMICONDUCTOR DEVICE CHARACTERISTICS in the name of I.DR. TUKARAM D. DONGALE, RS NO. 54/8, PLOT NO. 9, INDIANAGAR, NEAR MOREWADI LAST BUS STOP, MOREWADI, TAL-KARVEER, DIST-KOLHAPUR-416013 2. DR. SUNIL J. KADAM, PLOT NO 29 SURVEY NO 75 NEAR R K NAGAR SCT NO. 3 BIHARATI NAGAR MOREWADI KOLHAPUR-416013 3. DR. SACHIN SHANKARRAO CHAVAN, PIYUSH VILLA, FLAT NO. 21 SR. NO. 73 NEAR NARAYANI DHAM KATRAJ PUNE-411046

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

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डिजाइन के पंजीकरण का प्रमाणपत्र  
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 372033-001  
तारीख / Date : 05/10/2022  
पारस्परिकता तारीख / Reciprocity Date\* :  
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MCB UNIT WITH TOUCH SCREEN FOR DOMESTIC PURPOSE** से संबंधित है, का पंजीकरण, श्रेणी 13-03 में 1.Dr.D.Kamalakkannan 2. Dr Dipankar Misra 3.Dr. Rajkumar Kundlik Chougale 4.Mr. Vinay Sampatrao Mandlik के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

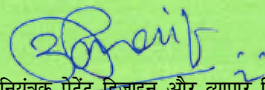
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 13-03 in respect of the application of such design to **MCB UNIT WITH TOUCH SCREEN FOR DOMESTIC PURPOSE** in the name of 1.Dr.D.Kamalakkannan 2. Dr Dipankar Misra 3.Dr. Rajkumar Kundlik Chougale 4.Mr. Vinay Sampatrao Mandlik.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन 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  
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पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्त्वाधिकार 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.

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**FRIDAY**

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DATE: 16/09/2022

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PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : AI & ML BASED SYSTEM FOR PREDICTION OF WIND POWER FOR MULTI-TURBINES

(51) International classification :C07K0007060000, A61P0019100000, G01N0033574000, D06F0058200000, H04N0001000000

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

(87) International Publication No : NA

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

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

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**3)Dr. A. Sivakumar**  
**4)Dr. Bibhuti Bhusan Pradhan**  
**5)Dr. R. Vijaya Kumar Reddy**  
**6)Dr. Catherine T. J.**  
**7)Mr. V. Prabhu**  
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(57) Abstract :

The present invention relates to an AI & ML based system for prediction of wind power for multi-turbines. The methods from machine learning and artificial intelligence have been used to forecast wind energy. In terms of feature extraction and model generalisation, machine learning enhances more traditional machine learning techniques. When processing data with spatial structure, Convolutional Neural Network (CNN) performs exceptionally well, whereas among popular deep learning techniques, time series problems are where CNN excels. In order to prevent the instability of the power grid, each wind turbine in a wind farm needs to have its power distribution set up in accordance with its specific operating circumstances, necessitating power forecasting for each wind turbine. Accompanied Drawing [FIG. 1]



FIG. 1

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

(54) Title of the invention : A SYSTEM FOR MAPPING CANCER COMMON DATA ELEMENTS USING ANN & AI MODULES

(51) International classification :F21Y0115100000, A01N0043560000, A01N0047020000,  
 A61P0019100000, B29C0065000000  
 (86) International Application No :NA  
 Filing Date :NA  
 (87) International Publication No :NA  
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 (62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
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**3)Dr. R. Pitchai**  
**4)Dr. B. Uma Maheswari**  
**5)Mrs. R Sujatha**  
**6)Ms. Anuradha Reddy**  
**7)Dr. V. Mohanavel**  
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 --  
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 -----

(57) Abstract :  
 [050] The present invention discloses a system for mapping cancer common data elements using Artificial Neural Network & Artificial Intelligence modules. The system is comprised of, but not limited to, the neural networks that contain artificial neural networks designed to recognize cells, objects, or substances that point to the presence of a particular kind of cancer. A second neural network may identify additional chemicals or cells that correspond to the same or a different type of cancer. For instance, a first neural network may identify cells that correspond to a certain type of cancer. A certain sort of examination may determine the kinds of particles that are looked for and, consequently, the neural networks that are employed for categorization. Accompanied Drawings [FIGS. 1-2]

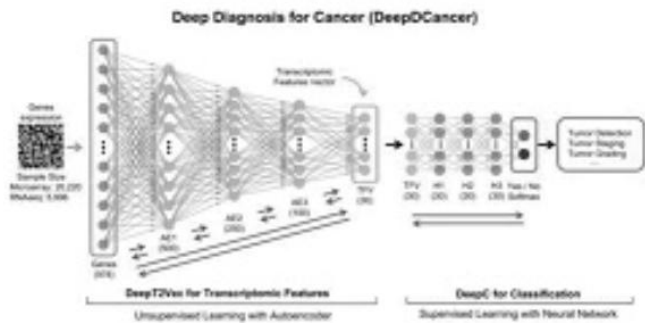


Figure 1

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



**CORRIGENDUM**

The patent application no 202221048908 dt- 26/08/2022 - BATTERY MANAGEMENT SYSTEM FOR GREEN ENERGY STORAGE of IPC: H02J0007000000, H02J0007350000, F03D0009000000, H02J0013000000, H02S0010400000 having 9 pages and claim no 8 was published through online module on 09/09/2022 J no: 36/2022, but Inadvertently this said application had been left out of the said journal. All the documents submitted by the applicant were also available through online in official website in pdf format from the above said publication date. The abstract of the patent application 202221048908 of Ravindra Mukund Malkar, DKTE Society's Textile and Engineering Institute Ichalkaranji, Ichalkaranji, Kolhapur, Maharashtra, India. Vaibhav Baburao Magdum, DKTE Society's Textile and Engineering Institute Ichalkaranji, Ichalkaranji, Kolhapur, Maharashtra, India. **Dr. Rajkumar Kundlik Chougale, Bharati Vidyapeeth's college of Engineering Kolhapur, Kolhapur District, Maharashtra, India. Vinay Sampatrao Mandlik, Bharati Vidyapeeth's college of Engineering Kolhapur, Kolhapur District, Maharashtra, India.**

Having the inventors Ravindra Mukund Malkar, DKTE Society's Textile and Engineering Institute Ichalkaranji, Ichalkaranji, Kolhapur, Maharashtra, India. Vaibhav Baburao Magdum, DKTE Society's Textile and Engineering Institute Ichalkaranji, Ichalkaranji, Kolhapur, Maharashtra, India. **Dr. Rajkumar Kundlik Chougale, Bharati Vidyapeeth's college of Engineering Kolhapur, Kolhapur District, Maharashtra, India. Vinay Sampatrao Mandlik, Bharati Vidyapeeth's college of Engineering Kolhapur, Kolhapur District, Maharashtra, India.** Should be read as

As the world's energy consumption rises, more machines will be produced that consume more energy, thus we must look to renewable sources like solar, wind, and hydro. As the sun shines 365 days a year, most of our energy comes from solar power. In this invention, we concentrated on a solar-powered battery management system. We must also use solar energy properly, storing daytime energy in batteries for nighttime use. We've worked on battery management to optimize energy efficiency and battery longevity. So in the battery management system, we have focused on real-time monitoring of various parameters of battery such as Voltage, Temperature, and Current and provide protection for battery from overheating, overloading, overcharging, and discharging. All these parameters are monitored on the thing speak server where we obtain the results.

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PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF A SMART SOLAR PANEL WITH AUTO RECTIFICATION AND SELF PHASED MANAGEMENT FEATURES

(51) International classification :H02S0020240000, A61C0007000000, H02S0020230000, H02S0020000000, F24S0025130000  
 (86) International Application No :NA  
 Filing Date :NA  
 (87) International Publication No :NA  
 (61) Patent of Addition to Application Number :NA  
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 (62) Divisional to Application Number :NA  
 Filing Date :NA

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 7)RAJASEKARAN N  
 8)DR. KIRTI SAHU  
 9)DHANAPAL M  
 10)DR R ASHOK KUMAR  
 11)PROF (DR) VIVEK SINGH KUSHWAH  
 12)DR. MAHESH DHONDE  
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 12)DR. MAHESH DHONDE  
 Address of Applicant :ASSISTANT PROFESSOR/DEPARTMENT OF PHYSICS, MEDI-CAPS UNIVERSITY, INDORE, 453331 Indore -----

(57) Abstract :  
 Design and implementation of a smart solar panel with auto rectification and self-phased management features is the proposed invention. The invention aims at designing a smart solar panel that can identify the problems that are erupted in the solar panels. The proposed invention focuses on auto-rectification along with wear and tear of parts of solar panel through self-phased management.

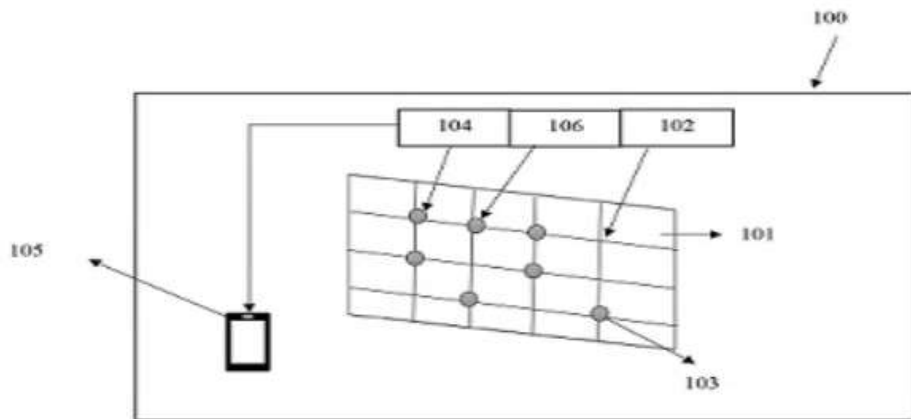


Figure 1: Schematic view



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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : DESIGN OF SOLAR THERMAL POWER INTEGRATION SYSTEMS TO INCREASE THE EFFICIENCY OF UTILISATION OF RENEWABLE ENERGY RESOURCES IN HOUSING UNITS

<p>(51) International classification :H02J0003380000, H02J0003460000, C10L0003100000, G06Q0010060000, F03G0006060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :  <b>1)DR SURENDRA KUMAR YADAV</b>  Address of Applicant :PROJECT DIRECTOR, DEPARTMENT OF ENVIRONMENTAL CONSERVATION, SOCIETY FOR ENVIRONMENT, HEALTH, AWARENESS OF NUTRITION &amp; TOXICOLOGY (SEHAT-INDIA), F/119, PANDAV NAGAR, MEERUT, UTTAR PRADESH-250003, INDIA Meerut -----  <b>2)DR. RAJKUMAR K. CHOUGALE</b>  <b>3)DR. SARIKA SHRIVASTAVA</b>  <b>4)DR. DIGAMBAR MAHADEO SAPKAL</b>  <b>5)OMBEER SAINI</b>  <b>6)DR.J.KARTIGEYAN</b>  <b>7)DR.P.ARULKUMAR</b>  <b>8)S SULOCHANA</b>  <b>9)DR HARISHCHANDER ANANDARAM</b>  <b>10)S.JOSHUA DANIEL</b>  <b>11)BENNY JOHN J</b>  <b>12)SURESH C</b>  Name of Applicant : NA  Address of Applicant : NA  (72)Name of Inventor :  <b>1)DR SURENDRA KUMAR YADAV</b>  Address of Applicant :PROJECT DIRECTOR, DEPARTMENT OF ENVIRONMENTAL CONSERVATION, SOCIETY FOR ENVIRONMENT, HEALTH, AWARENESS OF NUTRITION &amp; TOXICOLOGY (SEHAT-INDIA), F/119, PANDAV NAGAR, MEERUT, UTTAR PRADESH-250003, INDIA Meerut -----  <b>2)DR. RAJKUMAR K. CHOUGALE</b>  Address of Applicant :ASSISTANT PROFESSOR IN ELECTRICAL ENGINEERING, AT BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, KOLHAPUR (MAHARASHTRA) 416013 Kolhapur -----  <b>3)DR. SARIKA SHRIVASTAVA</b>  Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRICAL , ASHOKA INSTITUTE OF TECHNOLOGY &amp; MANAGEMENT, VARANASI-221007 Varanasi -----  <b>4)DR. DIGAMBAR MAHADEO SAPKAL</b>  Address of Applicant :S.I.C.E.S. DEGREE COLLEGE OF ARTS, SCIENCE &amp; COMMERCE, AMBARNATH WEST, JHAMBUL PHATA, PIN. 421505 Thane -----  <b>5)OMBEER SAINI</b>  Address of Applicant :ASSISTANT PROFESSOR (ELECTRICAL ENGINEERING) INSTITUTE OF TECHNOLOGY GOPESHWAR KOTHIYAL SAIN CHAMOLI UTTARAKHAND (246424) Chamoli -----  <b>6)DR.J.KARTIGEYAN</b>  Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF EEE, J.B.INSTITUTE OF ENGINEERING AND TECHNOLOGY, HYDERABAD, TELANGANA, INDIA – 500 075. Hyderabad -----  <b>7)DR.P.ARULKUMAR</b>  Address of Applicant :ASSOCIATE PROFESSOR/ EEE, V.S.B. ENGINEERING COLLEGE, KARUR, TAMILNAU Karur -----  <b>8)S SULOCHANA</b>  Address of Applicant :ASSISTANT PROFESSOR, CHEMISTRY, G.T.N ARTS COLLEGE, DINDIGUL-624005 Dindigul -----  <b>9)DR HARISHCHANDER ANANDARAM</b>  Address of Applicant :ASSISTANT PROFESSOR, CENTRE FOR EXCELLENCE IN COMPUTATIONAL ENGINEERING AND NETWORKING, AMRITA VISHWA VIDYAPEETHAM, COIMBATORE-641112, TAMIL NADU, INDIA Coimbatore -----  <b>10)S.JOSHUA DANIEL</b>  Address of Applicant :ASSISTANT PROFESSOR / ELECTRICAL AND ELECTRONICS ENGINEERING, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE, 641032 Coimbatore -----  <b>11)BENNY JOHN J</b>  Address of Applicant :ASSISTANT PROFESSOR , DEPARTMENT OF MECHANICAL ENGINEERING , ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY, PALKULAM, KANYAKUMARI Kanyakumari -----  <b>12)SURESH C</b>  Address of Applicant :ASSOCIATE PROFESSOR, AEROSPACE ENGINEERING, ACS COLLEGE OF ENGINEERING, BENGALURU 560074 Bengaluru -----</p>
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(57) Abstract :  
Design of Solar thermal power integration systems to increase the efficiency of utilisation of renewable energy resources in housing units is the proposed invention. The proposed invention focuses on integrating the solar thermal power to the electricity supply of housing units. The invention focuses on utilization renewable energy resources rather than Non-renewable energy resources saving the environment. The invention also aims to decrease the financial expenses experienced by users.

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

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(54) Title of the invention : DYNAMIC TRUST MANAGEMENT FOR COMMUNITY BASED MOBILE GRID APPLICATION

(51) International classification	:H04L0029060000, G06F0021620000, G06Q0030020000, G06F0021000000, G11C0016240000	(71)Name of Applicant : <b>1)GRANTEJ VINOD OTARI</b> Address of Applicant :PLOT NO. 82, DINDENAGAR HOUSING SOCIETY, BEHIND KHADICHA GANPATI MANDIR, R. K. NAGAR, PACHGAON, KOLHAPUR. 416013 Maharashtra India <b>2)DR. VIJAY RAM GHORPADE</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)GRANTEJ VINOD OTARI</b>
(33) Name of priority country	:NA	<b>2)DR. VIJAY RAM GHORPADE</b>
(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 Mobile Grid is the inter-networking of heterogeneous physical as well as virtual devices. Each device transfer and share the information with each other. Trust management plays an important role in community based applications for reliable data fusion, data mining, qualified services with context-awareness, enhanced user privacy and information security. It helps people overcome perceptions of uncertainty, risk and engages in user acceptance to consumption on grid services and applications. In this paper a dynamic trust management protocol is proposed for community based mobile grid application to deal with misbehaving nodes whose status or behavior may change dynamically. Trust plays an important role for handling the security in the community based system. Trust management provides facilitate to identify malfunctions and also make legitimate collaboration and enhance the user privacy and information security.

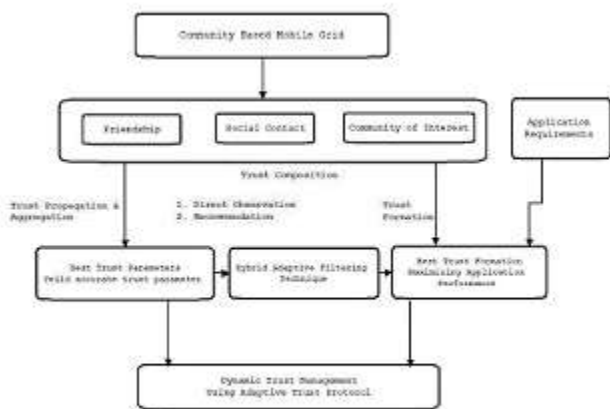


Figure 01: System Architecture

No. of Pages : 5 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201821038013 A

(19) INDIA

(22) Date of filing of Application :08/10/2018

(43) Publication Date : 15/01/2021

(54) Title of the invention : INTELLIGENT COIN SEPARATOR

(51) International classification	:G06Q0020040000, G06Q0010060000, G07D0009000000, G07D0011500000, G07D0003120000	(71)Name of Applicant : <b>1)BHARTI VIDYAPEETH'S COLLEGE OF ENGINEERING,KOLHAPUR.</b> Address of Applicant :BHARTI VIDYAPEETH'S COLLEGE OF ENGINEERING,KOLHAPUR. NEAR CHITRA NAGARI, MOREWADI, KOLHAPUR, MAHARASHTRA, INDIA - 416 013. Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DR. VIJAY RAM GHORPADE</b>
(33) Name of priority country	:NA	<b>2)MR. KEDAR KISHOR PATIL</b>
(86) International Application No	:NA	<b>3)MR. ATISH NAMDEV KUMBHAR</b>
Filing Date	:NA	<b>4)MR. UTTAM SHIVAJI GORULE</b>
(87) International Publication No	: NA	<b>5)MR. SAYAJI VIJAYSINH INGALE</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MR. SAHIL SANJEEV CHOUGULE</b>
Filing Date	:NA	<b>7)MR. NITIN KRISHNATH MADAKE</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The objective of this project is to study the separation and counting of the coins. The proposal of this project is based on weight detection method. A coin sorter is a machine that sorts mixed coins into their separate denomination using either mechanical or manual process. Coin sorters are used by wide variety of business who deals with mixed coin, because its saves time compared with doing manually. In this project a coin separated and counting machine is implemented which can differentiate one, two, five and ten rupee coins accurately and automatically by using microcontroller as an operating platform.

No. of Pages : 28 No. of Claims : 6



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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921053631 A

(19) INDIA

(22) Date of filing of Application :24/12/2019

(43) Publication Date : 03/01/2020

(54) Title of the invention : SECURE ROUTING PROTOCOL FOR MOBILE AD-HOC NETWORK (MANET)

(51) International classification	:G06F 17/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)DR. SHEETAL SACHIN GAIKWAD</b>
(32) Priority Date	:NA	Address of Applicant :COMPUTER SCIENCE, SHIVAJI
(33) Name of priority country	:NA	UNIVERSITY, VIDYANAGAR, KOLHAPUR - 416004,
(86) International Application No	:NA	MAHARASHTRA, INDIA. Maharashtra India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)DR. VIJAY RAM GHORPADE</b>
(61) Patent of Addition to Application Number	:NA	<b>2)PROF.(DR.) RAJANISH KAMALAKAR</b>
Filing Date	:NA	<b>3)DR. SHIVAJI BABASO SADALE</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

7. Abstract This invention is related to secure routing protocol for Mobile Ad-hoc Network (MANET). Secure routing protocol provides security in routing and also to individual data packets. The present invention provides security to data packets, routing path and can be used to identify secure neighbors and detect the intrusions. This secure routing protocol finds legitimate nodes, provides cryptographic shield to data packets using hybrid cryptography. This protocol also detects attacks which are implemented by malicious nodes and prevents these malicious nodes from routing by banning them for some time in data transmission.

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

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PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : DESIGN, FABRICATION AND ANALYSIS OF SOYABEAN MOISTURE REDUCING MACHINE IN SOYBEANS

(51) International classification

:A23N  
5/00

(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

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

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(72)Name of Inventor :

**1)MR. JOSHI SANKET SANJAY**

**2)MR. PANDIT SHAMUEL VINOD**

**3)MR. KADAM SUNIL. J**

**4)MR. SAYYAD MOHSIH. A**

**5)MR. SAVARDEKAR ROHAN. R**

**6)MR. PATIL GURUPRASAD K**

(57) Abstract :

India is an agricultural based country. More than 70% of Indian population lives in villages. Their main source of income is from agriculture. Most agricultural products are affected by heavy rain in return of monsoon .Farmers use conventional process like sun drying for reducing moisture in the agricultural products. For drying of an agricultural product requires more effort and it is time consuming process. To reduce farmer efforts and money we developed this machine. Conventional process requires more manpower, more space, money and most important time. In proposed technology this drying process is semi automatic using simple mechanism with help of electric motor and heater.

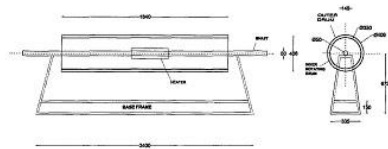


Figure 1: CAD model of moisture reducing machine.

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.4218/MUM/2015 A

(19) INDIA

(22) Date of filing of Application :05/11/2015

(43) Publication Date : 12/05/2017

(54) Title of the invention : METHOD AND APPARATUS FOR HIGH PERFORMANCE COMPUTING USING MOBILE GRID

(51) International classification

:H04W  
52/00

(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

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

**1)Mr. Savyanavar Amit Sadanand**

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Ambegaon Budruk, Pune, Maharastra Maharashtra India

**2)Dr. Vijay R. Ghorpade**

(72)Name of Inventor :

**1)Mr. Savyanavar Amit Sadanand**

**2)Dr. Vijay R. Ghorpade**

(57) Abstract :

Present invention provides specially a method and apparatus for high performance computing using mobile grid (MG). The system focuses on developing an efficient model for allocation of tasks to nodes in a MG. The resource allocation model will discover nodes which will provide long term connectivity i.e. identifying nodes which will be in the network for longer periods based on their real-world mobility data. The system will be able to predict the next location based on the mobility history of the nodes gathered in real-world. The important objective is to improve battery life by trying to reduce communication cost i.e. conservation of energy due to communication amongst the tasks allocated to the mobile nodes. In addition, a failure handling mechanism in the system will deal with node failures. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the model of the proposed system.



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

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : A SMART IOT BASED NATURAL LANGUAGE PROCESSING SYSTEM WITH PROMPT OF ENGLISH SENTENCES TO HELP LAYMEN'S INTERACTION WITH VIRTUAL ASSISTANTS EMBEDDED WITH SENSORS ALONG WITH PRONUNCIATION

(51) International classification :H04L0029080000, G09B0019060000, H04W0004700000, G01D0021020000, G06F0040211000

(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 :  
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**2)Dr. RAVINDRAN RAJASEKARAN**  
**3)GETACHEW GENO**  
**4)Dr NEENA SHARMA**  
**5)Dr RITU SHARMA**  
**6)Dr ANUPAM SHARMA**  
**7)Dr SHWETA SHARMA**  
**8)Dr. K.M.PRIYA**  
**9)Dr SUNIL UTTAM FULSAWANGE**  
**10)Dr. VIKAS TRIPATHI**  
**11)Dr RAMAKRUSHNA SWAIN**  
**12)Dr. KEDAR SHARAD JOSHI**

Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Dr. NEELAKANDAN SHANMUGAM**  
 Address of Applicant :ASSOCIATE PROFESSOR, K.RAMAKRISHNAN COLLEGE OF ENGINEERING, TIRUCHIRAPPALLI, TAMILNADU, INDIA TIRUCHIRAPPALLI -----

**2)Dr. RAVINDRAN RAJASEKARAN**  
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**10)Dr. VIKAS TRIPATHI**  
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, GRAPHIC ERA DEEMED TO BE UNIVERSITY, DEHRADUN, UTTRAKHAND, INDIA 248002 DEHRADUN -----

**11)Dr RAMAKRUSHNA SWAIN**  
 Address of Applicant :DEPT. OF COMPUTER SCIENCE & ENGINEERING, SILICON INSTITUTE OF TECHNOLOGY, BHUBANESWAR BHUBANESWAR -----

**12)Dr. KEDAR SHARAD JOSHI**  
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF GENERAL ENGINEERING, BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR 416013 KOLHAPUR -----

(57) Abstract :  
 A smart IoT based Natural Language Processing System with Prompt of English Sentences to help Laymen's Interaction with Virtual Assistants embedded with sensors along with Pronunciation is the proposed invention. The invention aims at designing a smart device to convert the natural language in to English sentences with a prompt. The proposed invention focuses on supporting laymen's interaction with virtual assistants. The proposed device is embedded with plurality of sensors and Internet of Things unit, which supports clarity in pronunciations as well.

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : IOT BASED AUTOMATIC VEHICLE ABNORMAL ACCIDENT DETECTION AND RESCUE SYSTEM

<p>(51) International classification :G06Q0040080000, G07C0005000000, A61B0005000000, H04L0067120000, H04W0084180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Dr. Biswajeet Champaty</b> Address of Applicant :Associate Professor, School of Engineering, Ajeenkya DY Patil University, Lohegaon, Pune - 411047 -----</p> <p><b>2)Uttam Kumar</b> Address of Applicant :Assistant Professor, School of Engineering, Ajeenkya D Y Patil University, Charholi bk, via Lohegaon, Pune - 412105 -----</p> <p><b>3)Dr. Abhaysinh Sharad Kadam</b> Address of Applicant :Assistant Professor, Department of Chemistry, BVPS Matoshri Bayabayi Shripatrao Kadam Kanya Mahavidyalay Kadegaon, 415304. -----</p> <p><b>4)Mr. Jayant Chandrakant Thorat</b> Address of Applicant :Department of Engineering Chemistry, Bharati Vidyapeeth's College of Engineering, Kolhapur - 416001 -----</p> <p><b>5)K.S. Thirunavukkarasu</b> Address of Applicant :Assistant Professor, Department of Computer Science, School of computing Sciences, VISTAS, Pallavaram, Chennai -----</p> <p><b>6)C Rangaswamy</b> Address of Applicant :Associate Professor, Department of Electronics and Communication Engg, SJC Institute of Technology, B B Road Chickballapur - 562101 -----</p> <p><b>7)Bhushan Prabhakar Nikam</b> Address of Applicant :Jr.Teacher (Department of Physics) Kai.sau.G.F.Patil Jr.College Shahada. Dondaicha Road, Dr. Vishram Kaka Shaikshnik sankul Shahada. Nandurbar - 425409 -----</p> <p><b>8)Dr. GhanshyambhaiSureshbhai Parmar</b> Address of Applicant :Assistant Professor, Computer Science Department, Constituent College of CVM University: Natubhai V. Patel College of Pure and Applied Sciences, Mota Bazar, Vallabh Vidyanagar – 388120 -----</p> <p><b>9)Dr. Suresh Sorathia</b> Address of Applicant :Associate Professor, Indus University Rancharda Ahmedabad - 382115 -----</p> <p><b>10)Jothiraj S</b> Address of Applicant :Research Scholar, Department of Biomedical Engineering, School of Bioengineering, College of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur -----</p>
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(57) Abstract :

IOT Based Automatic Vehicle Abnormal Accident Detection and Rescue System Abstract: Internet of Things (IoT) is an essential component of today's cutting-edge software, whether for a smart city, smart home, school, hospital, transit system, or military operation. IoT-enabled technologies can considerably improve the healthcare industry by enabling the remote, covert monitoring of patients in real time. Intelligent accident detection systems can automatically detect accidents. The Internet of Things can connect a variety of hardware, including sensors, and it can also execute algorithms based on sensor data. Using these methods, accidents can be identified, and the information can be relayed to those who can provide assistance, such as paramedics and police. The approach described in this work is capable of detecting accidents without human intervention and tracking important medical information while an ambulance transfers the patient to the hospital. Simple hardware and software that can be installed in a vehicle can automatically detect collisions. When the accident detection system detects that the car was involved in an accident owing to being struck, it will notify a nearby ambulance of the accident's location. As soon as the coordinates are determined, an ambulance will be deployed to the accident location. Once inside the ambulance, the victim will be connected to further monitoring equipment that will check his vital signs continuously.

No. of Pages : 10 No. of Claims : 8



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(54) Title of the invention : DESIGNING A SMART CUTTING MACHINE TO CUSTOMIZE THE PRODUCTION OF PRODUCTS IN MANUFACTURING DEPARTMENT

(51) International classification :G06Q0010060000, G05B0019418000, G06Q0099000000, A23G0003200000, A61K0039395000

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(57) Abstract :  
 Designing a smart cutting machine to customize the production of products in manufacturing department the proposed invention. The proposed invention focuses on designing a smarter cutting tool to customize the products to their production processes. The proposed system aims at Manufacturing the products of different shapes and configuration with a single cutting tool. The Manufacturing department activities can be handled with ease.

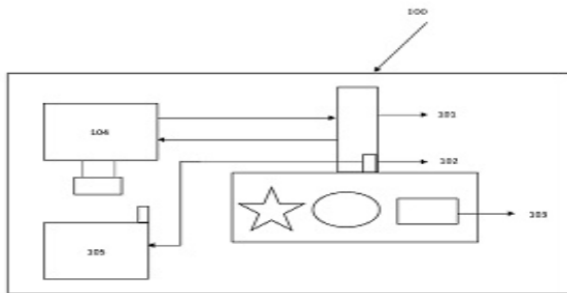


Figure 1: schematic view

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