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Department for Promotion of Industry and Internal Trade
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Government of India

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Application Details

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| APPLICATION NUMBER | 202141035476 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 06/08/2021 |
| APPLICANT NAME | VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED SCIENCES(VISTAS) |
| TITLE OF INVENTION | FORMULATION OF PHENYLEPHRINE AND AMIKACIN NANOEMULSION |
| FIELD OF INVENTION | CHEMICAL |
| E-MAIL (As Per Record) | mail@inductip.com |
| ADDITIONAL-EMAIL (As Per Record) | patent.vels@eattributes.com |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | 06/08/2021 |
| PUBLICATION DATE (U/S 11A) | 20/08/2021 |
| REPLY TO FER DATE | 06/12/2022 |



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Government of India

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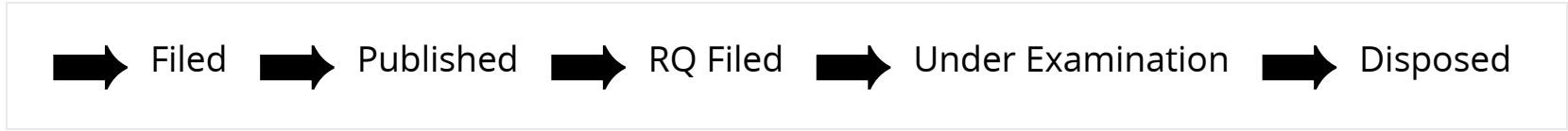
| Application Details | |
|----------------------------------|---|
| APPLICATION NUMBER | 202441014567 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 28/02/2024 |
| APPLICANT NAME | 1 . DR. MURUGESAN. D 2 . DR. A.KRISHNAN 3 . DR. C.CHITRA 4 . DR. P.VANITHA 5 . DR. G MYTHILI 6 . DR. SWATHI PRADEEBA P 7 . DR. KALAISELVI K 8 . DR. SHASHILA.S 9 . DR. K. MAJINI JES BELLA 10 . DR. P. VIJAYASHREE |
| TITLE OF INVENTION | ADVANCED INVENTORY MANAGEMENT USING AI-DRIVEN DEMAND FORECASTING IN E-COMMERCE OPERATIONS |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | mail2patentipr@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |

| | |
|------------------------------|------------|
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 08/03/2024 |

Application Status

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| APPLICATION STATUS | Awaiting Request for Examination |
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| | | | View Documents |
|--|--|--|--------------------------------|



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सत्यमेव जयते

Application Details

| | |
|----------------------------------|---|
| APPLICATION NUMBER | 202341089062 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 27/12/2023 |
| APPLICANT NAME | 1 . Dr. C.SHANTHI 2 . Dr. L. SASIREGA 3 . Dr. B. LAVANYA 4 . Dr. POONGUZHALI S 5 . Dr. K.SHARMILA 6 . Dr. R.DEVI 7 . Dr. T.KAMALAKANNAN 8 . Dr. J.JEBATHANGAM 9 . Dr. S.KAMALAKKANNAN 10 . Dr. P.KAVITHA |
| TITLE OF INVENTION | ENHANCED SECURITY PROTOCOL FOR CLOUD-BASED COMMUNICATION NETWORKS |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | mail2patentipr@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
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(54) Title of the invention : IOT BASED 3-D PRINTER

(51) International Classification
 B33Y0010000000, B33Y0030000000, B33Y050020000, B33Y0800000000, B33Y00700000000

(56) International Application No
 : NA

(57) International Publication No
 : NA

(61) Patent of Addition to Application
 Number
 : NA

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 Filing Date
 : NA

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 60Dr. L.JEBATHANGAM
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 90Dr. N.SHYAMALA DEVI
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 Address of Applicant : NA
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(57) Abstract :
 An IoT-based 3-D printer system merges additive manufacturing with the interconnected prowess of the Internet of Things. This integrated system offers remote monitoring, real-time adjustments, and data-driven insights for the 3-D printing process, ensuring optimal and adaptive fabrication. Furthermore, the system's ability to communicate with other smart devices enables a seamless and efficient production ecosystem.

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



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6341591

Grant date: 19 February 2024

Registration date: 23 January 2024

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. Suresh Palarimath, Pookutti Muzammil, Dr. Mohammad Faizee, John Ruby

Elizabeth, Dr. Anubrata Mondal, Maria Sheeba Paulraj, Avick Kumar Dey,

Harshal Patil, Dr. Ashok Kumar Katta, Sivaprakash Muthukrishnan

in respect of the application of such design to:

Employee Confidence Tracking Device

International Design Classification:

Version: 14-2023

Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING
INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS

Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND
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.





Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



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| Application Details | |
|------------------------|---|
| APPLICATION NUMBER | 202441015640 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 02/03/2024 |
| APPLICANT NAME | 1 . Dr. RAM CHANDRA KALLURI 2 . Dr. V. JAYASHREE PRIYADHARSINI 3 . Dr.ANUPAM SHARMA 4 . Dr. MUHAMMED BASHEER VP 5 . Dr. S. SAKTHIVEL 6 . Dr. V.KANNAN 7 . Dr. BENILA 8 . Mr.J LOGESHWARAN 9 . Dr.ABHIJT CHAKRABORTY 10 . Dr.R.JEYANTHI 11 . Dr. K.SHEEBA 12 . MENDA SREEVANI |
| TITLE OF INVENTION | ANALYSIS OF ROLES AND RESPONSIBILITIES OF LANGUAGE TEACHERS |
| FIELD OF INVENTION | MECHANICAL ENGINEERING |
| E-MAIL (As Per Record) | arinnapatent@gmail.com |

| | |
|----------------------------------|------------|
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 22/03/2024 |

| Application Status | |
|--------------------|---|
| APPLICATION STATUS | Awaiting Request for Examination |

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| | | | View Documents |
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पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 14/2024
ISSUE NO. 14/2024

शुक्रवार
FRIDAY

दिनांक: 05/04/2024
DATE: 05/04/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : STOCK PRICE FORECASTING MODEL BASED ON TIME SERIES CONVOLUTIONAL DEEP NEURAL NETWORK

(51) International classification :G06N0003080000, G06N0003040000, G06Q0040040000, G06Q0010040000, G06K0009620000

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

(87) International Publication No : NA

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

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

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3)Dr. Neelam Sahu
4)Ms. Riya Gupta
5)Dr. P. Thangavel
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11)Dr. M. Raji
12)Dr. V. E. Sasikala

Name of Applicant : NA
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(57) Abstract :
 Stock Price Forecasting Model based on Time Series Convolutional Deep Neural Network is the proposed invention. The proposed invention focuses on understanding how well stock price can be forecasted using convolutional deep neural networks. The invention focuses on analyzing the Stock Price Forecasting Model based on Time Series Convolutional Deep Neural Network.

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

Design Application Details

Application Number:

410873-001

Cbr Number:

204526

Cbr Date:

18/03/2024 17:55:47

Applicant Name:

1. Dr. G. Yoganandham 2. Dr. Paritosh Dube 3. Dr. Komal Gupta 4. Dr. Kalaiselvi K 5. Dr. D. Elumalai
6. Dr G Mythili

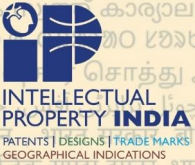
Design Application Status

Application Status:

Design Accepted and Published, Journal No is 20/2024 and Journal Date is 17/05/2024

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:



ORIGINAL
क्रम सं/ Serial No. : 153912



पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 400395-001

तारीख / Date : 21/11/2023

प्रारस्परिकता तारीख / Reciprocity Date* :

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **INTERNET OF THINGS BASED CAMERA FOR HEALTHCARE MANAGEMENT** से संबंधित है, का पंजीकरण, श्रेणी 16-01 में 1.Dr. G. Amutha 2. Dr. P G Thirumagal 3.Dr. S. Vasantha 4.Dr. Kabirdoss Devi 5.Dr. A. Narmadha 6.Dr. M. Thaiyalnayaki 7.Dr. S. Sudha 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 16-01 in respect of the application of such design to **INTERNET OF THINGS BASED CAMERA FOR HEALTHCARE MANAGEMENT** in the name of 1.Dr. G. Amutha 2. Dr. P G Thirumagal 3.Dr. S. Vasantha 4.Dr. Kabirdoss Devi 5.Dr. A. Narmadha 6.Dr. M. Thaiyalnayaki 7.Dr. S. Sudha.

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.



(Signature)

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

जारी करने की तिथि : 18/01/2024
Date of Issue

*प्रारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार 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.

(54) Title of the invention : THE INTERACTION OF TECHNOLOGY AND COMMERCE: EXPLORING THE LATEST APPLICATIONS

(51) International classification :G06Q0030020000, G06Q0030060000, G06Q0030000000,
G06Q0020380000, B25J0011000000

(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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6)Dr. K.KALAISELVI
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(57) Abstract :
 ABSTRACT The Interaction of Technology and Commerce: Exploring the latest Applications As technology continues to rapidly advance, it has increasingly become intertwined with the world of commerce. The interaction between technology and commerce has led to the emergence of new and innovative applications that are shaping the way businesses operate and customers interact with products and services. From e-commerce platforms to artificial intelligence, these applications are revolutionizing the way we conduct transactions, manage data, and communicate. They provide businesses with new ways to reach customers, analyze consumer behavior, and improve efficiency. At the same time, they offer consumers a more seamless and personalized shopping experience. As technology and commerce continue to evolve and intersect, it is clear that these latest applications will play an integral role in shaping the future of the global market.

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

(12) PATENT APPLICATION PUBLICATION (21) Application No.202441011231 A

(19) INDIA

(22) Date of filing of Application :18/02/2024

(43) Publication Date : 08/03/2024

(54) Title of the invention : HR MANAGEMENT BASED COMPUTERIZED INFORMATION SYSTEM ANALYSIS

(51) International classification :G06Q0010060000, G06Q0010100000, H04L0067010000, H04N0007180000, G01C0021200000

(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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6)Dr. Ajith Subbiah

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Stella Mary's College of Engineering, Aruthengavillai, Tamil Nadu -----

7)Himanshu

Address of Applicant :Assistant Professor, Chandigarh College of Hotel Management and Catering Technology, Punjab -----

(57) Abstract :

A software program that keeps track of, handles, and processes comprehensive personnel data as well as policies and procedures pertaining to human resources is called an HR information system. The use of computerized information for strategic decision making, the variety of applications that should be included in the system, and giving facility line managers direct access to any personnel data they require to manage their own teams in a devolved organization are the three main areas of concern for an organization's HR strategy with regard to HR information. The strategic domains that are affected by computerized data and the insights derived from

- [Feedback](#)

Design number

6351434

Status

Registered

Registration date

6 March 2024

Renewal date

6 March 2029

Overview

Application date

6 March 2024

Grant date

15 March 2024

Publication date

16 March 2024

Indication of Product

AI BASED DETECTING AND WATER TESTING SMART DEVICE

Classification

| | |
|------------------|--|
| Class | 10 - CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS |
| Sub class | 05 - INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING, SECURITY OR TESTING |

Illustrations



Names and addresses

Contact (address for service)

Contechs Consulting Ltd

4 Sylvan Court, Sylvan Way, Southfields Business Park, BASILDON, SS15 6TH

Owners

| Name | Address |
|---------------------------------|--|
| Dr. Sheena Anandakumar Daisy | Department of Civil Engineering, Vels Institute of Science, Technology and Advanced Studies (VISTAS) |
| Dr.Yogeshwari Manoharan | BCA Department, Vels Institute of Science, Technology and Advanced Studies (VISTAS), 600 117 |
| Dr. Jeyalakshmi Sundaram | BCA Department, Vels Institute of Science, Technology and Advanced Studies (VISTAS), 600 117 |
| Dr. Sathya Subramaniam | BCA Department, Vels Institute of Science, Technology and Advanced Studies (VISTAS), 600 117 |
| Dr. Sangeetha Radhakrishnan | BCA Department, Vels Institute of Science, Technology and Advanced Studies (VISTAS), 600 117 |

History

No history is available for this design



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6342635

Grant date: 02 February 2024

Registration date: 27 January 2024

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. Selvaraj Janani, Dr. Suresh Palarimath, Dr. Sheela Gowr Ponrama Subbu,

Dr. Rajeshkumar Uttamrao Sambhe, Janhvee Vivek Boratkar, Tanmayi Ajay

Dubey, Mr. Himanshu Vasnani, Dr. Raghavendra Gowramma Sanna Naik, Amod

Kumar, Dr. Dhayalini Karupiah

in respect of the application of such design to:

Artificial Intelligence Based Shopping Assistance Robot

International Design Classification:

Version: 14-2023

Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED

Subclass: 99 MISCELLANEOUS

Adam Williams

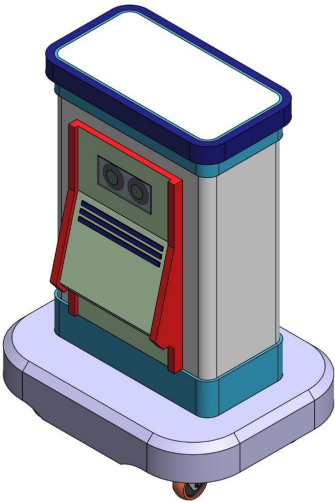
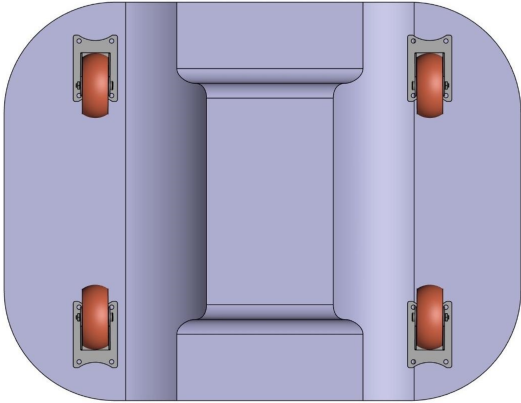
Comptroller-General of Patents, Designs and Trade Marks

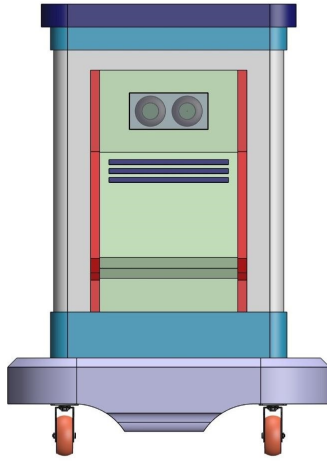
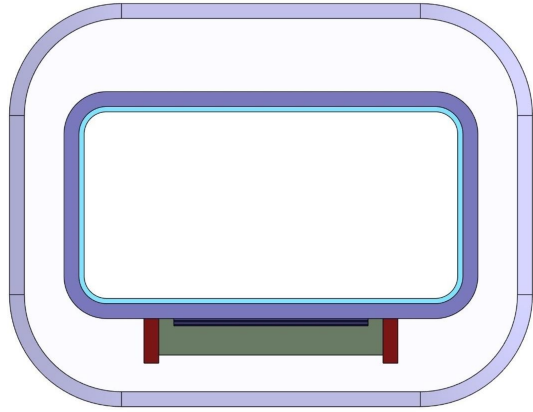
Intellectual Property Office

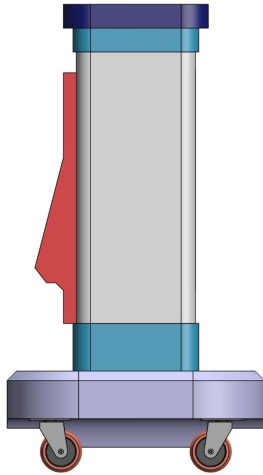
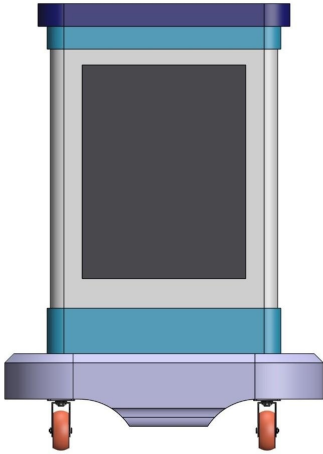
The attention of the Proprietor(s) is drawn to the important notes overleaf.

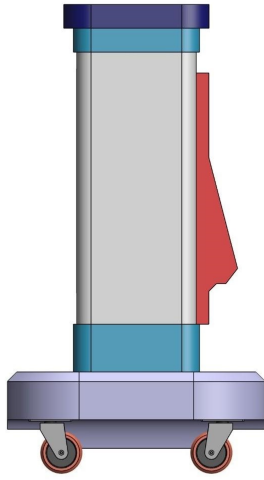


Representation of Designs









Intellectual Property Office is an operating name of the Patent Office

www.gov.uk/ipo



Design details

Design application number

6332044

Filing date (provisional)

09 December 2023

Deferred registration

No

Design

DEVICE FOR BLOCKCHAIN BASED SUPPLY CHAIN MANAGEMENT BY USING DESIGN THINKING APPROACH

Additional description

None

Illustration disclaimer

None

Illustrations



Repeated surface pattern

No

Priority claims

None

Ownerdetails

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Contactdetails

13-15 TRAFALGAR ROAD, BLACKPOOL, United Kingdom, FY1 6AW, United Kingdom

Email:serviceipr@yahoo.com

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 Department for Promotion of Industry and Internal Trade
 Ministry of Commerce & Industry,
 Government of India

(http://

ipindia.nic.in/index.htm)

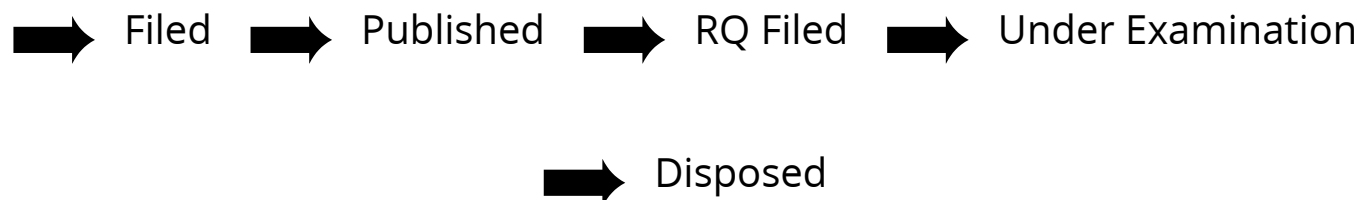


(http://ipindia.nic.in/index.htm)

| Application Details | |
|----------------------------------|---|
| APPLICATION NUMBER | 202441023295 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 25/03/2024 |
| APPLICANT NAME | 1 . V.THIRUMURUGAN 2 . Dr.S.THIRUMAL 3 . Dr, N. KUMAR 4 . Dr.A.MANIKANDAN 5 . Dr. K. KALAIVANI 6 . Dr. R. ANANDAN 7 . Dr. R. VIJAYARANGAN |
| TITLE OF INVENTION | MULTIFUNCTIONAL AGRITEC ROBOT USING IOT BLUETOOTH TECHNOLOGY USING SENSORS |
| FIELD OF INVENTION | MECHANICAL ENGINEERING |
| E-MAIL (As Per Record) | |
| ADDITIONAL-EMAIL (As Per Record) | vstm2016@gmail.com |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 29/03/2024 |

Application Status

APPLICATION STATUS

Awaiting Request for Examination[View Documents](#)

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6373123

Grant date: 28 June 2024

Registration date: 21 June 2024

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. SHEENA ANANDAKUMAR DAISY, Dr. JEYALAKSSHMI SUNDARAM, Mrs.

JAYASHREE SOUNDARARAJAN, Dr.YOGESHWARI MANOHARAN , Dr.

SANGEETHA RADAHAKRISHNAN

in respect of the application of such design to:

ARTIFICIAL INTELLIGENCE INTEGRATED AIR QUALITY MONITORING

DEVICE

International Design Classification:

Version: 14-2023

Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING
INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS

Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND
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.





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 Ministry of Commerce & Industry,
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(http://

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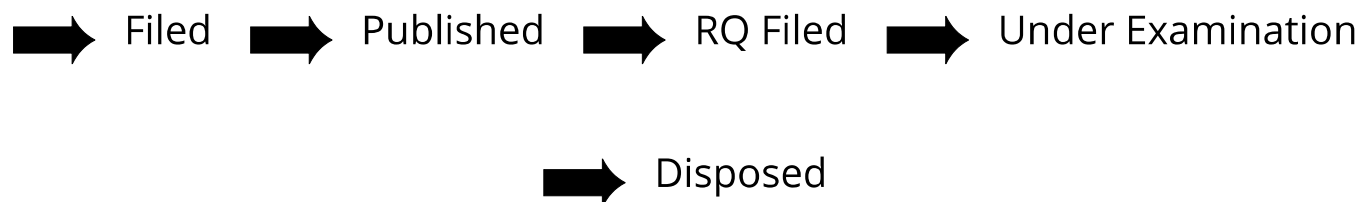


(http://ipindia.nic.in/index.htm)

| Application Details | |
|----------------------------------|--|
| APPLICATION NUMBER | 202441011249 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 18/02/2024 |
| APPLICANT NAME | 1 . manoharan sudharsan 2 . Dr. M. SUDHARSAN 3 . Dr V BHARATHI 4 . Dr K PRAKASH 5 . Dr. S Saradha 6 . Dr. G. THAILAMBAL 7 . Dr. K NANDHINI |
| TITLE OF INVENTION | BLOCK BASED STENOSIS DETECTION IN CORONARY VESSELS OF X-RAY ANGIOGRAMS |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | sudharsanms15@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 08/03/2024 |

Application Status

APPLICATION STATUS

Awaiting Request for Examination[View Documents](#)

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(54) Title of the invention : E-COMMERCE ADVANCED INVENTORY MANAGEMENT USING AI-DRIVEN DEMAND FORECASTING IN E-COMMERCE OPERATION

(51) International classification :G06Q0030200000, G06Q0010080000, G06N00200000000,
G06Q0010060000, G06N0005040000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :
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Address of Applicant :ASSISTANT RESEARCH SCIENTIST, DEPARTMENT OF AGRICULTURAL ECONOMICS, JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH - 362001, GUJARAT, INDIA. -----
2)DR. S. AISWARYA
3)DR.S. VENNILAA SHREE
4)DR.A.MEENAKSHI
5)DR. M. PRATHAPAN
6)DR. N. TAIBANGGANBI
7)DR. VEERAMANI G
8)DR.P.SUNANTHA
9)DR. RADHIKA R
10)DR.M.SENTHIL
Address of Applicant : NA
(72)Name of Inventor :
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Address of Applicant :ASSISTANT RESEARCH SCIENTIST, DEPARTMENT OF AGRICULTURAL ECONOMICS, JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH - 362001, GUJARAT, INDIA. -----
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Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. -----
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Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. -----
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Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. -----
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Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. -----
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Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MANAGEMENT STUDIES, SCHOOL OF MANAGEMENT, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. -----
8)DR.P.SUNANTHA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. -----
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Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, BS ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY, VANDALUR, CHENNAI - 600048, TAMILNADU, INDIA. -----
10)DR.M.SENTHIL
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. -----

(57) Abstract :

The proposed system and method revolutionize inventory management in e-commerce operations by integrating advanced artificial intelligence (AI) techniques. The system comprises an AI-driven demand forecasting module, real-time data analysis component, and inventory optimization engine. Leveraging machine learning algorithms, it accurately predicts customer demand, making into account historical sales data, seasonality, external variables, and customer behaviors. This scalable solution adapts to businesses of all sizes and enhances customer satisfaction through optimized product availability and timely order fulfillment. It minimizes overstocking and waste, thereby promoting sustainability and profitability. The invention represents a shift towards data-driven decision-making in the e-commerce sector and has the potential to reshape the industry while fostering economic growth. Instructions for implementing the system are stored on a computer-readable storage medium.



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6342878

Grant date: 05 February 2024

Registration date: 29 January 2024

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. Gajendran Srihari, Dr. Pushpalatha Marisamy, Dr. Rakatu Vijaya Lakshmi,

Dr. Nagalakshmi Muralidharan, Dr.Padmini Ramakrishnan, Mahesh Sudhakar

Naik

in respect of the application of such design to:

SMART E-LEARNING DISPLAY DEVICE

International Design Classification:

Version: 14-2023

Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING
EQUIPMENT

Subclass: 01 EQUIPMENT FOR THE RECORDING OR REPRODUCTION OF
SOUNDS OR PICTURES

Adam Williams

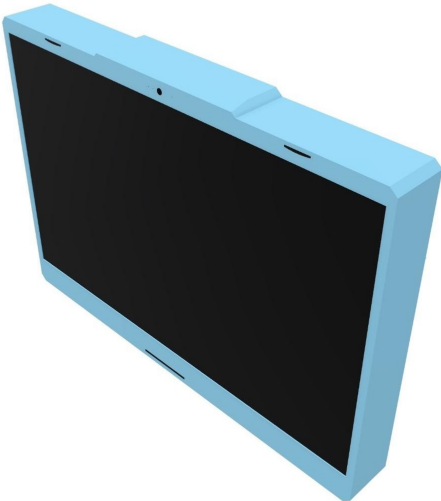
Comptroller-General of Patents, Designs and Trade Marks

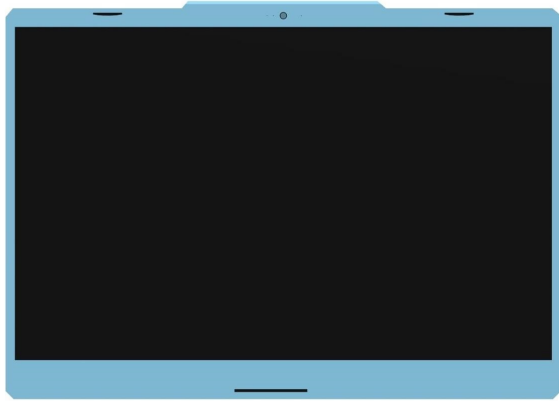
Intellectual Property Office

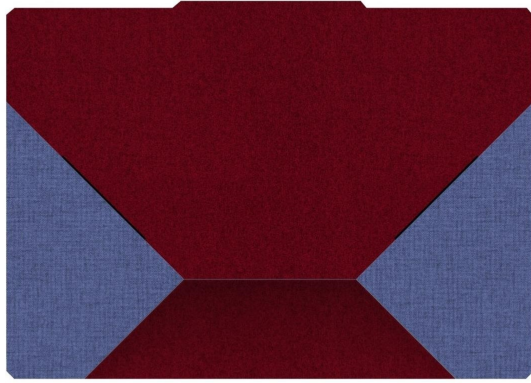
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Representation of Designs









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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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| Application Details | |
|----------------------------------|--|
| APPLICATION NUMBER | 202441033647 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 27/04/2024 |
| APPLICANT NAME | 1 . Dr Chamundeshwari C 2 . Dr Bharti Rukesh Deshmukh 3 . Dr. Nagella Venkata Ramana 4 . Dr. Srijib Shankar Jha 5 . Dr.A.Madhuri 6 . Dr. Deepti Taori 7 . Dr.J.Vinothalakshmi 8 . Swetha.P.Naik 9 . Dr. R. Padmini 10 . Dr C Poornima |
| TITLE OF INVENTION | MOTIVES FOR SOCIAL ENTREPRENEURSHIP AMONG COLLEGE STUDENTS |
| FIELD OF INVENTION | MECHANICAL ENGINEERING |
| E-MAIL (As Per Record) | patentpublucation@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |

| | |
|------------------------------|------------|
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 03/05/2024 |

Application Status

APPLICATION STATUS

Awaiting Request for Examination

[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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पेटेंट कार्यालय
शासकीय जर्नल


**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 17/2024
ISSUE NO. 17/2024

शुक्रवार
FRIDAY

दिनांक: 26/04/2024
DATE: 26/04/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

| | | |
|--|-------------------------------------|---|
| Design Number | 409042-001 |  |
| Class | 10-06 | |
| 1. Dr. M. Chandran Professor & HOD, Department of Commerce VISTAS, Pallavaram, Chennai-600117, Tamil Nadu, India 2. Dr. M. Kavitha Professor & Research Supervisor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies, Chennai, Tamil Nadu, India. - 600117 3. Dr. E. Brindha Devi Assistant Professor & Research Supervisor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies, Chennai, Tamil Nadu, India. - 600117 4. Dr. V. Chitra Associate Professor & Research Supervisor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies, Chennai, Tamil Nadu, India. - 600117, et al. | | |
| Date of Registration | 28/02/2024 | |
| Title | REMINDER ALERT DEVICE FOR EMPLOYEES | |
| Priority NA | | |



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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| Application Details | |
|------------------------|---|
| APPLICATION NUMBER | 202441018396 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 13/03/2024 |
| APPLICANT NAME | 1 . Dr. B. Senthil Kumar 2 . Dr. R M Lavanya 3 . Sree Vidhya S 4 . Dr. D.Menaga 5 . Dr.K.Kiran Kumar Varma 6 . Dr.Sweta Bakshi 7 . Dr. Sandeep Kumar 8 . Dr Anu Shrivastava 9 . Prof (Dr) Pavitra Shrivastava 10 . Jampa Nagendra Rao 11 . Dr Jyoti Prasad Patra 12 . Anthony Savio Herminio da Piedade Fernandes |
| TITLE OF INVENTION | PREDICTING MOVIE ECONOMIC SUCCESS: A MACHINE LEARNING APPROACH |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | vaagaiip@gmail.com |

| | |
|----------------------------------|------------|
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 22/03/2024 |

| Application Status | |
|--------------------|---|
| APPLICATION STATUS | Awaiting Request for Examination |

| | | | |
|--|--|--|--------------------------------|
| | | | View Documents |
|--|--|--|--------------------------------|



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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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(<http://ipindia.nic.in/index.htm>)

| Application Details | |
|------------------------|--|
| APPLICATION NUMBER | 202441030056 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 13/04/2024 |
| APPLICANT NAME | 1 . Dr. B Senthil Kumar 2 . Dr.P.Pachaiyappan 3 . Dr. Shweta Bansal 4 . Rajiv Verma 5 . Ceril Jeoffrey A 6 . Dr. Reema Goyal 7 . Navneet Chaudhry 8 . Prem Chandra 9 . Alisha Hashmi 10 . Jampa Nagendra Rao 11 . Dr. B Gayathri 12 . Anthony Savio Herminio Da Piedade Fernandes |
| TITLE OF INVENTION | DEEP LEARNING APPROACHES FOR ASSESSING THE EFFECTIVENESS OF TEACHERS IN HIGHER EDUCATION |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | patentpointservices@gmail.com |

| | |
|----------------------------------|------------|
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 19/04/2024 |

| Application Status | |
|--------------------|---|
| APPLICATION STATUS | Awaiting Request for Examination |

| | | | |
|--|--|--|--------------------------------|
| | | | View Documents |
|--|--|--|--------------------------------|



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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

| Application Details | |
|------------------------|--|
| APPLICATION NUMBER | 202441030052 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 13/04/2024 |
| APPLICANT NAME | 1 . Dr. B Senthil Kumar 2 . Dr.P.Pachaiyappan 3 . Dr. Shweta Bansal 4 . Manish Dhadhich 5 . Ceril Jeoffrey A 6 . Dr. Reema Goyal 7 . Navneet Chaudhry 8 . Prem Chandra 9 . Alisha Hashmi 10 . Jampa Nagendra Rao 11 . Dr. B Gayathri 12 . Anthony Savio Herminio Da Piedade Fernandes |
| TITLE OF INVENTION | THE ROLE OF EMOTIONAL SELF-REGULATION IN DETERMINING TEACHERS' STRESS LEVELS IN HIGHER EDUCATION |
| FIELD OF INVENTION | MECHANICAL ENGINEERING |
| E-MAIL (As Per Record) | patentpointservices@gmail.com |

| | |
|----------------------------------|------------|
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 19/04/2024 |

| Application Status | |
|--------------------|---|
| APPLICATION STATUS | Awaiting Request for Examination |

| | | | |
|--|--|--|--------------------------------|
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| Application Details | |
|----------------------------------|--|
| APPLICATION NUMBER | 202441001223 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 06/01/2024 |
| APPLICANT NAME | 1 . Dr.V.N.Sudheer 2 . Dr. A.A.Jayashree Prabhakar 3 . Dr. J. V. Balasubramanian 4 . Dr.N.Sinthuja 5 . Dr.K.Bhavani 6 . Dr.Thahira Rahmath 7 . Mrs.Pratibha Pandey 8 . Ms.Sangeetha BK 9 . Ms.R. Abeetha |
| TITLE OF INVENTION | ANALYSIS OF THE IMPACT OF ENGLISH LANGUAGE ON CULTURAL IDENTITY OF A NATION USING MACHINE LEARNING APPROACHES |
| FIELD OF INVENTION | COMPUTER SCIENCE |
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| E-MAIL (UPDATED Online) | |

| | |
|------------------------------|------------|
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 02/02/2024 |

Application Status

APPLICATION STATUS

Awaiting Request for Examination

[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 15/2024
ISSUE NO. 15/2024

शुक्रवार
FRIDAY

दिनांक: 12/04/2024
DATE: 12/04/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : AN INNOVATIVE FRAMEWORK FOR INSTILLING INTERNATIONAL ENGLISH PROFICIENCY IN YOUNG LEARNERS THROUGH JOYFUL LEARNING AND CREATIVITY

| | |
|---|---|
| <p>(51) International classification :G09B0019060000, G01N0033487000, C12N0015100000, A61B0006000000, H04W0004029000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)DR V JAISRE Address of Applicant :Professor/English, Vels Institute of Science Technology and Advanced Studies, Chennai, TamilNadu. Chennai ----- 2)Dr. M. Nagalakshmi 3)Dr. A. A. Jayashree Prabhakar 4)Dr. V. N. Sudheer 5)Ravi Sankar Akkaraveetil 6)R. Abeetha 7)Dr. Sr. Shiny K. P 8)Alisha Hashmi 9)Dr. Jyoti Syal 10)Dr. Deepak Subhash Dixit 11)Mrs. Amutha 12)Dr. Makarand Upadhyaya Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR V JAISRE Address of Applicant :Professor/English, Vels Institute of Science Technology and Advanced Studies, Chennai, TamilNadu. Chennai ----- 2)Dr. M. Nagalakshmi Address of Applicant :Professor, Department of English, VISTAS, Chennai,600117. Chennai - ----- 3)Dr. A. A. Jayashree Prabhakar Address of Applicant :Associate Professor, Department of English. Vels Institute of Science , Technology and Advanced Studies(VISTAS), Pallavaram, Chennai-600117. Chennai ----- 4)Dr. V. N. Sudheer Address of Applicant :Associate Professor, School of Liberal Studies, CMR university, Bangalore. Bangalore ----- 5)Ravi Sankar Akkaraveetil Address of Applicant :Professor, Department of Psychology, CMR University, Bengaluru, 560043. Bengaluru ----- 6)R. Abeetha Address of Applicant :Vels Institute of Science, Technology and Advanced Studies, chennai. Chennai ----- 7)Dr. Sr. Shiny K. P Address of Applicant :Principal, Department of English, MJJ College for Women (Autonomous), Tenali, Pincode-522202. Tenali ----- 8)Alisha Hashmi Address of Applicant :Sagar Institute of Science and Technology, Bhopal. Bhopal ----- 9)Dr. Jyoti Syal Address of Applicant :Assistant Professor(English) /Department of Mathematics & Humanities, MMEC, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, Haryana-133207. Ambala ----- 10)Dr. Deepak Subhash Dixit Address of Applicant :Head, R B Mundada College of Arts, Commerce and Science, Pune. Pune ----- 11)Mrs. Amutha Address of Applicant :Assistant Professor of English, Excel College for Commerce and Science, Komarapalayam, Namakkal. Komarapalayam ----- 12)Dr. Makarand Upadhyaya Address of Applicant :Associate Professor, College of Business Administration, University of Bahrain, Sikhar , Bahrain 32028. -----</p> |
|---|---|

(57) Abstract :
An Innovative Framework for Instilling International English Proficiency in Young Learners through Joyful Learning and Creativity is the proposed invention. The proposed invention focuses on understanding the English proficiency of young learners through creativity and activities. The invention focuses on analyzing the Instilling International English Proficiency in Young Learners through Joyful Learning and Creativity using algorithms of Innovative approach.

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

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PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : ANALYSIS AND DETECTION OF FAKE AND COUNTERFEIT CURRENCY WITH MACHINE LEARNING AND DEEP LEARNING MODEL

| | |
|---|---|
| <p>(51) International classification :G06N0003080000, G06K0009620000, G06N0003040000, G06N0020000000, G06F0040300000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Dr. Shiva Johri Address of Applicant :Professor, Department of MBA, Oriental College of Management, Oriental Group of Institutes Bhopal - 462022 ----- 2)Dr. Srikanth V 3)Dr. S. Perumal 4)Dr. Nandini G Devarmani 5)Prabhakaran.V 6)Dhruvi Pankajkumar Suthar 7)Namrata Harshadbhai Gohel 8)Prof. Archana Jethava 9)Prof. Yesha Patel 10)Dr. Dushyantsinh B. Rathod Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Shiva Johri Address of Applicant :Professor, Department of MBA, Oriental College of Management, Oriental Group of Institutes Bhopal - 462022 ----- 2)Dr. Srikanth V Address of Applicant :Associate Professor, School of CS and IT Department of MCA, Jain (Deemed-to be) University, 44/4,District Fund Road, Jayanagar 9 th block Bengaluru 560069 ----- 3)Dr. S. Perumal Address of Applicant :Professor, Department of Computer Science, VELS Institute of Science, Technology & Advanced Studies (VISTAS), P.V.Vaithiyalingam Road, Velan Nagar, Pallavaram, Chennai- 600117 ----- 4)Dr. Nandini G Devarmani Address of Applicant :Assistant Professor, Department of Criminology and Forensic Science, Rani Channamma University, Belagavi, Karnataka - 591156 ----- 5)Prabhakaran.V Address of Applicant :Assistant Professor (G-II), Department of Biomedical Engineering, Aarupadaai Veedu Institute of Technology, Vinayaka Nagar, Rajiv Gandhi Salai, (Old Mahabalipuram Road) Paiyanoor, Chennai - 603104 ----- 6)Dhruvi Pankajkumar Suthar Address of Applicant :Assistant Professor, Ahmedabad Institute of technology, Nr. Vasantnagar township, Gota-ognaj road, Ahmedabad - 380061 ----- 7)Namrata Harshadbhai Gohel Address of Applicant :Assistant Professor, Ahmedabad Institute of technology, Nr. Vasantnagar township, Gota-ognaj road, Ahmedabad - 380061 ----- 8)Prof. Archana Jethava Address of Applicant :Assistant Professor, Department of Computer Engineering, Ahmedabad Institute Of Technology, Gota Ognaj road, Ahmedabad - 380015 ----- 9)Prof. Yesha Patel Address of Applicant :Assistant Professor, Department of Computer Engineering, Faculty of Computer Engineering & Technology, GLS University, GLS Campus, Opp.Law Garden, Ellisbridge, Ahmedabad - 380006 ----- 10)Dr. Dushyantsinh B. Rathod Address of Applicant :Professor & HOD, Department of Computer Engineering, Ahmedabad Institute of Technology, Near Vasant Nagar Township, Ognaj, Gota, Ahmedabad - 380061 -----</p> |
|---|---|

(57) Abstract :

Analysis and Detection of Fake and Counterfeit Currency with Machine Learning and Deep Learning Model ABSTRACT: The identification of fraudulent currency is a critical concern that threatens the integrity of the economy. In contemporary times, an unprecedented surge in the implementation of deep learning models to detect counterfeit currency via image processing methods has been observed. Humans face a formidable obstacle when attempting to identify counterfeit dollars; thus, automated methods for counterfeit currency detection are crucial. The objective of this study is to propose a Convolutional Neural Network (CNN) architecture that can detect fraudulent currency. To facilitate the training of our model, we employ a dataset comprising photographs that represent a wide range of values and consist of both genuine and counterfeit currency. The preprocessing step involves reducing the dimensions of each image to a predetermined standard and standardizing the pixel values. Following this, the preprocessed images are partitioned into training and validation sets in order to assess and refine the model, respectively. By utilizing a Convolutional Neural Network (CNN), this undertaking intends to classify and extract features automatically. The experimental results validate the accuracy with which the proposed model distinguishes between authentic and counterfeit currencies of varying denominations, thereby generating a confidence score.

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



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6308564

Grant date: 15 September 2023

Registration date: 07 September 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

Dr. Vivek Vithalrao Jawale, Dr. Bhavya Bhasuran, Dr. Santhanalaxmi Karthikvel,

Dr. MuthuRaman Kavitha, Dr. Sayeeda Jabeen Shariff, Dr. Sapna Jain

in respect of the application of such design to:

SYSTEM FOR RECYCLING PLASTIC

International Design Classification:

Version: 14-2023

Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED

Subclass: 99 MISCELLANEOUS

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

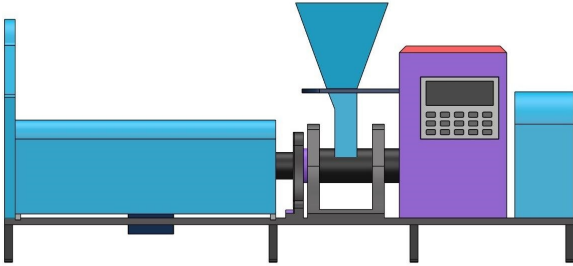
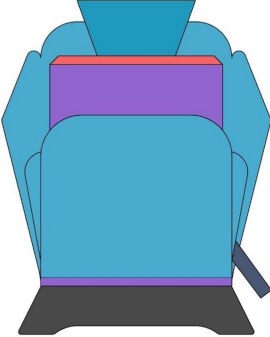
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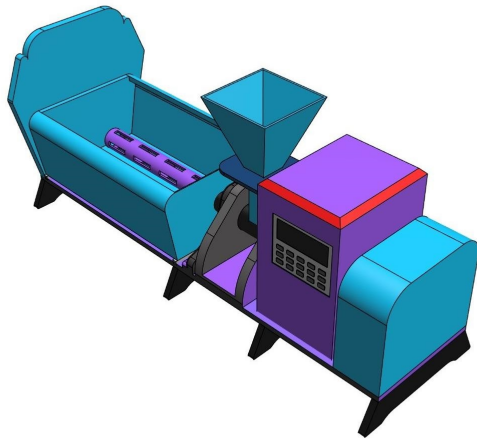
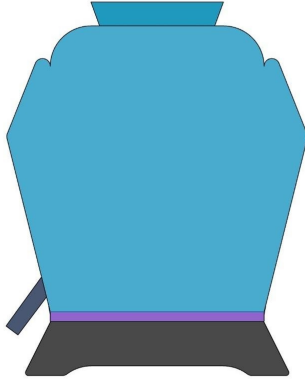


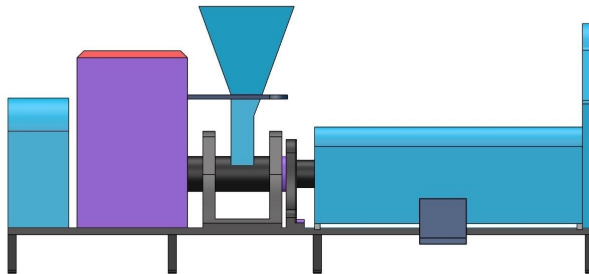
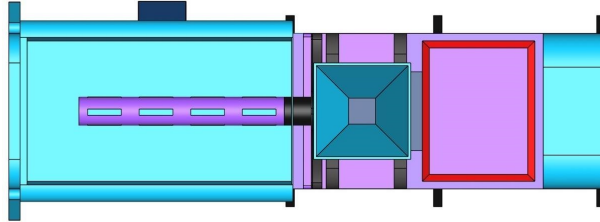
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Representation of Designs







(54) Title of the invention : ANALYSIS OF HOW ONLINE VIDEO SHARING AND SOCIAL MEDIA PLATFORM DEVELOP THE ONLINE E- COMMERCE BUSINESS

| | |
|---|---|
| <p>(51) International classification :G06Q0030020000, G06Q0030060000, G06Q0050000000, G06Q0030000000, G06F0016951000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Dr. NEHA PANDEY Address of Applicant :ASSOCIATE PROFESSOR, HUMANITIES, BABU BANARASI DAS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, LUCKNOW, UTTAR PRADESH-226028, INDIA Lucknow ----- 2)Dr. KANNAN VELLINGIRI 3)Dr. T.SUJATHA 4)Ms. JOSEPHIN BHARATHI VEGE 5)Dr.C.SHALINI 6)Ms.N.SRIMATHI 7)Mr.J LOGESHWARAN Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. NEHA PANDEY Address of Applicant :ASSOCIATE PROFESSOR, HUMANITIES, BABU BANARASI DAS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, LUCKNOW, UTTAR PRADESH-226028, INDIA Lucknow ----- 2)Dr. KANNAN VELLINGIRI Address of Applicant :CLDC RESEARCH AND DEVELOPMENT, NO.997, METTUPALAYAM ROAD, NEAR X-CUT SIGNAL, R.S.PURAM, COIMBATORE, TAMIL NADU -641002, INDIA (BHARAT) Coimbatore ----- 3)Dr. T.SUJATHA Address of Applicant :ASSISTANT PROFESSOR, COMMERCE (ACCOUNTING & FINANCE), VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, PALLAVARAM, CHENNAI, TAMILNADU-600 117, INDIA Chennai ----- 4)Ms. JOSEPHIN BHARATHI VEGE Address of Applicant :ASSISTANT PROFESSOR IN MASS MEDIA, BA MASS COMMUNICATION, LOYOLA ACADEMY DEGREE & PG COLLEGE, SECUNDERABAD, TELANGANA-500 010, INDIA Secunderabad ----- 5)Dr.C.SHALINI Address of Applicant :PROFESSOR & HEAD, COMMERCE(ACCOUNTS & FINANCE), VELS INSTITUTE OF SCIENCE , TECHNOLOGY & ADVANCED STUDIES(VISTAS), CHENNAI, TAMILNADU , :600117, INDIA Chennai ----- 6)Ms.N.SRIMATHI Address of Applicant :ASSISTANT PROFESSOR, B.COM DIGITAL MARKETING AND DATA MINING, DR.SNS RAJALAKSHMI COLLEGE OF ARTS AND SCIENCE , COIMBATORE, TAMILNADU -641110, INDIA Coimbatore ----- 7)Mr.J LOGESHWARAN Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI ESHWAR COLLEGE OF ENGINEERING, COIMBATORE- TAMIL NADU Coimbatore -----</p> |
|---|---|

(57) Abstract :
ABSTRACT The rise of online video sharing and social media platforms has greatly impacted the development of the online e-commerce business. These platforms have created a whole new avenue for businesses to reach and interact with their target audience. In this technical abstract, we will analyze how these platforms have positively influenced the growth of e-commerce businesses. Firstly, online video sharing platforms such as YouTube, Vimeo, and TikTok have become popular mediums for businesses to showcase their products and services. Through the use of creative and engaging videos, businesses can effectively demonstrate the features and benefits of their offerings. This not only attracts potential customers but also helps to build a strong brand presence. With the availability of analytics, businesses can track the reach, engagement, and conversion rates of their video content, allowing them to make data-driven decisions for future strategies. Secondly, social media platforms like Facebook, Instagram, and Twitter have also played a crucial role in the development of e-commerce businesses. With billions of active users, these platforms offer a huge potential audience for businesses to connect and engage with. Through the use of targeted advertising and sponsored content, businesses can reach their specific target audience, increasing the chances of conversion. Moreover, social media platforms provide an opportunity for businesses to build a loyal customer base, as they can directly interact with their customers and address any queries or concerns, thus improving customer satisfaction. Furthermore, the integration of social media platforms and online e-commerce websites has further enhanced the online shopping experience for customers. For instance, the use of social login options on e-commerce websites allows customers to sign in using their social media accounts, making the checkout process more seamless and convenient. This not only saves time for customers but also provides businesses with valuable customer data for personalized marketing and remarketing strategies. In conclusion, the analysis clearly shows how the use of online video sharing and social media platforms has greatly contributed to the growth and success of the online e-commerce business. With the continuous advancements in technology and the increasing popularity of these platforms, it is safe to say that they will continue to shape and transform the e-commerce industry in the future.

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

(54) Title of the invention : GROUNDWATER MANAGEMENT WITH IOT-BASED SMART WELLS FOR ENHANCED MONITORING AND CONTROL

(51) International classification :B09C0001000000, E21B0049080000, H04L0012540000, H04W0024100000, G01V0009020000

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 Filing Date :NA

(87) International Publication No : NA

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 Filing Date :NA

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

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(57) Abstract :
 Abstract Sustainable use of water resources is dependent on effective groundwater management, which is especially important in areas where water pollution and shortages are. on the rise. Manual interventions and periodic measurements are common in traditional groundwater monitoring and management methods, however they aren't always precise or accurate. Using Internet of Things (IoT) technology to build smart wells that can better monitor and regulate groundwater supplies is a new approach that this research suggests as a response to these problems. IoT smart wells include a network of sensors that can measure a number of variables in real- time, including water level, quality, temperature and pressure. By monitoring groundwater dynamics in real_time these sensors reveal any irregularities or problems, paving the way for preventative measures in management. In addition by connecting various IOT devices data can be sent remotely and monitored centrally. This allows for more informed decisions and better use-of resources. The smart wells include controls and actuators that let you automate pumping operations which means you can optimize groundwater recharging and extraction. This system ensures Sustainable groundwater management while reducing operating costs and energy consumption by combining cloud techniques. It can adaptively modify pumping rates depending on real- time data and specified targets.

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



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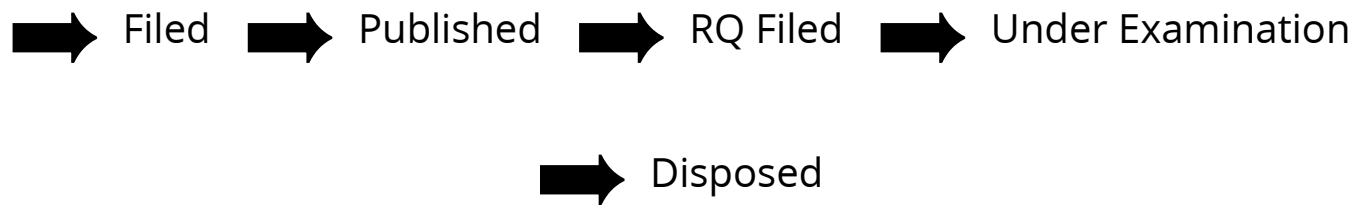
Application Details

| | |
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| APPLICATION NUMBER | 202441029039 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 10/04/2024 |
| APPLICANT NAME | 1 . Dr. G. REVATHY 2 . Dr. D. P. SUTHANTHIRA DEVI 3 . Dr. S. HELEN ROSELIN GRACY 4 . Dr. B. CHITRADEVI 5 . Dr. A. PASUMPON PANDIAN |
| TITLE OF INVENTION | GROUNDWATER MANAGEMENT WITH IOT-BASED SMART WELLS FOR ENHANCED MONITORING AND CONTROL |
| FIELD OF INVENTION | BIOTECHNOLOGY |
| E-MAIL (As Per Record) | |
| ADDITIONAL-EMAIL (As Per Record) | revathy.se@velsuniv.ac.in |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 19/04/2024 |

Application Status

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| APPLICATION STATUS | Awaiting Request for Examination |
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(See section 7, 54 and 135 and sub-rule (1) of rule 20)



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| Application No. | 202441029039 |
| Filing date: | 10/04/24 |
| Amount of Fee paid: | 1750/- |
| CBR No: | 24532 |
| Signature: | <i>[Signature]</i> 10/4/24 |

1. APPLICANT'S REFERENCE /IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

| | | | | | |
|----------------|------------------------|----------------|------------------------|----------------|------------------------|
| Ordinary (✓) | | Convention () | | PCT-NP () | |
| Divisional () | Patent of Addition () | Divisional () | Patent of Addition () | Divisional () | Patent of Addition () |

3A. APPLICANT(S)

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10-Apr-2024/53477/202441029039/Form 1

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| | | | Country | India |
| | | | Pin code | 600 044 |
| Name in Full | Nationality | Country of Residence | Address of the Applicant | |
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| | | | City | Tiruchirapalli |
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| Name in Full | Nationality | Country of Residence | Address of the Applicant | |
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| | | | City | Tiruchirapalli |
| | | | State | Tamil Nadu |

10-Apr-2024/53477/202441029039/Form 1

| | | | | | |
|--|--------------------|---------------------------|-----------------------|--|---|
| PANDIAN | | | | Country | India |
| | | | | Pin code | 620 009 |
| 3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category] | | | | | |
| Natural Person (✓) | | Other than Natural Person | | | |
| | | Small Entity () | Startup () | Others () | |
| 4. INVENTOR(S) [Please tick (✓) at the appropriate category] | | | | | |
| Are all the inventor(s) | | Yes (✓) | | No () | |
| same as the applicant(s) named above? | | | | | |
| If "No", furnish the details of the inventor(s) | | | | | |
| 5. TITLE OF THE INVENTION: GROUNDWATER MANAGEMENT WITH IoT-BASED SMART WELLS FOR ENHANCED MONITORING AND CONTROL. | | | | | |
| 6. AUTHORISED REGISTERED PATENT AGENT(S) | | | IN/PA No. | | |
| | | | Name | | |
| | | | Mobile No. | | |
| 7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA | | | Name | Dr. G REVATHY, Assistant Professor, Department of Computer Science and Engineering, Vels Institute of Science Technology and Advanced Studies (VISTAS) | |
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| | | | Telephone No. | | |
| | | | Mobile No. | + (91) – 95662 90952 | |
| | | | Fax No. | | |
| | | | E-mail ID | revathy.se@velsuniv.ac.in | |
| 8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION | | | | | |
| Country | Application Number | Filing date | Name of the applicant | Title of the invention | IPC (as classified in the convention country) |
| | | | | | |

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)

| | |
|----------------------------------|---------------------------|
| International application number | International filing date |
| | |

10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION

| | |
|----------------------------------|--|
| Original (first) application No. | Date of filing of original (first) application |
| | |

11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT

| | |
|-----------------------------|------------------------------------|
| Main application/patent No. | Date of filing of main application |
| | |

12. DECLARATIONS

(i). Declaration by the inventor

(In case the applicant is an assignee: the inventor may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

We, the above-named inventor are the true & first inventor for this Invention and declare that the applicant herein is our assignee or legal representative.

(a) Date: 07/04/2024

(b) Signature:

(c) Name: Dr. G REVATHY



(a) Date: 07/04/2024

(b) Signature:

(c) Name: Dr. D. P. SUTHANTHIRA DEVI



(a) Date: 07/04/2024

(b) Signature:

(c) Name: Dr. S. HELEN ROSELIN GRACY



(a) Date: 07/04/2024
(b) Signature: *B Chitra Devi*
(c) Name: Dr. B. CHITRADEVI

(a) Date: 07/04/2024
(b) Signature: *Pasumpon Pandian*
(c) Name: Dr. A. PASUMPON PANDIAN

(ii) Declaration by the applicant(s) in the convention country

~~(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)~~

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

- (a) Date
- (b) Signature(s)
- (c) Name(s) of the signatory

(iii) Declaration by the applicant(s)

We the applicant(s) hereby declare(s) that: -

We are in possession of the above-mentioned invention.

The provisional/complete specification relating to the invention is filled with this Application.

The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us-NA

There is no lawful ground of objection(s) to the grant of the Patent to me/us. - NA
We are the true & first inventor(s).

We are the assignee or legal representative of true & first inventor(s).

The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s)-NA

We claim the priority from the above-mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which We derive the title.

My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9- NA

The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act

The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11 – NA

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

| Item | Details | Fee | Remarks |
|--|---|-----|---------|
| Complete/ provisional specification) # | No. of pages - One | | |
| No. of Claim(s) | No. of claims Six and No. of pages –One | | |
| Abstract | No. of pages - One | | |
| No. of Drawing(s) | No. of drawings and No. of pages – Nine and Five | | |

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventorship on Form 5
- (i) Power of Authority
- (j)

Total fee Rs. 4,500.00 in bearing Demand Draft No. 215621 Dated 04.04.2024 drawn on Axis Bank, Nanganallur Branch.

We hereby declare that to the best of our knowledge, information and belief the fact and matters slated herein are correct and We request that a patent may be granted to us for the said invention.

Dated this Wednesday of 10th of April 2024

(a) Signature:

(b) Name: Dr. G REVATHY

(a) Signature:

(b) Name: Dr. D. P. SUTHANTHIRA DEVI

(a) Signature: 
(b) Name: Dr. S. HELEN ROSELIN GRACY

(a) Signature: 
(b) Name: Dr. B. CHITRADEVI

(a) Signature: 
(b) Name: Dr. A. PASUMPON PANDIAN

To,
The Controller of Patents
The Patent Office, at Guindy, Chennai – 600 032.

Note: -

- * Repeat boxes in case of more than one entry.
- * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
- * Tick (✓)/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
- * Name of the inventor and applicant should be given in full, family name in the beginning.
- * Strike out the portion which is/are not applicable.
- * For fee: See First Schedule”;



710060936

THE GAZETTEE OF INDIA – EXTRAORDINARY [PART II—Sec 3(ii)]

FORM 2
THE PATENT ACT 1970
(39 of 1970)
&
The Patents Rules, 2003
PROVISIONAL/COMPLETE SPECIFICATION
(See Section 10 and Rule 13)
COMPLETE

**GROUNDWATER MANAGEMENT WITH IoT-BASED SMART WELLS
FOR ENHANCED MONITORING AND CONTROL**

1. APPLICANT

(a) NAME: Dr. G REVATHY, Dr. D. P. SUTHANTHIRA DEVI,
Dr. S. HELEN ROSELIN GRACY, Dr. B. CHITRADEVI,
Dr. A. PASUMPON PANDIAN

The following specification particularly describes the invention
and the manner in which it is to be performed

10-Apr-2024/53477/202441029039/Form 2(Title Page)

PATENT OFFICE CHENNAI 12/04/2024 16:25

Field of Invention

Environmental monitoring and management, with a particular emphasis on groundwater resources, is the domain of innovation for this system. This innovation solves a serious problem by allowing for the control and real-time monitoring of groundwater levels, quality, and extraction operations via the integration of Internet of Things (IoT) technology with smart well infrastructure. In order to build a complete system for long-term groundwater management, this novel method integrates sensor technologies, microcontrollers, communication modules, and data analytics. The innovation is a huge step forward since it provides a comprehensive solution for remote, accurate, and continuous monitoring of groundwater parameters. Insights into groundwater dynamics may be used by users including water authorities, environmental agencies, and local communities to make educated choices about resource distribution, conservation initiatives, and pollution mitigation plans. The systems automated control features make groundwater resource management more responsive and efficient, allowing for optimal extraction rates with minimal energy consumption and environmental effect. The innovation offers predictive analytics via the integration of IoT and cloud methods, allowing for preventative actions to avoid groundwater overexploitation, pollution, or depletion.

Background of Invention

A solution to the urgent problem of efficiently monitoring and regulating groundwater resources led to the development of IoT smart wells that integrate with the cloud for groundwater management. We need creative technologies that can provide us insights in real-time and allow us make proactive decisions since groundwater is becoming more scarce, contaminated, and poorly managed. Manual measurements and periodic sampling were the old standards for groundwater monitoring; they were labor-intensive, inaccurate, and took a lot of time. The data that was gathered was therefore not always easily accessible for analysis and decision-making, which resulted in management methods that were more reactive than proactive. With the development of the IoT dispersed sensors can now be monitored remotely and data collected in real-time, completely altering the landscape of water resource management. Critical characteristics including groundwater levels, quality, and environmental conditions may be continually and accurately monitored with the use of sensors placed into wells. By offering a centralized and scalable platform for data storage, processing, and analysis, cloud computing significantly boosts the capabilities of IoT-based systems. Stakeholders are empowered to make rapid, informed decisions due to cloud-based solutions that provide real-time access to information from anywhere.

10-Apr-2024/53477/202441029039/Form 2(Title Page)

Object of Invention

- STM32F103C8T6 (Blue Pill)
- Water Level Sensor
- Water Quality Sensor
- Temperature Sensor
- Pressure Sensor
- Flow Sensor
- LoRaWAN Module
- Submersible Pump

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Summary of Invention

Integrated groundwater management system built using IoT technology and a number of sensors and components is the invention at hand. The STM32F103C8T6 microcontroller, or the Blue Pill, is the brains of the operation, sending signals to all the other parts to do their jobs. It is possible to deploy this microcontroller in dispersed or remote contexts because of its cost-effectiveness, energy efficiency, and performance balance. The system uses a network of sensors to track several variables pertaining to the amount and quality of groundwater: A water level sensor measures the water level in the well in real-time, enabling constant monitoring of groundwater levels and trends. For the purpose of calculating groundwater resources and evaluating aquifer recharge rates, this data is vital. In addition, some sensors are used to monitor water quality indicators like conductivity, pH, and dissolved oxygen levels.

By monitoring groundwater chemistry for natural fluctuations or possible pollutants, these sensors may identify changes in water quality and alert authorities to impending contamination. Integrating pressure and temperature sensors allows the system to monitor the well's and the area's environmental conditions in real time. Pressure fluctuations may signal changes in aquifer dynamics or water extraction operations, while temperature variations might impact groundwater quality. These sensors assist to recognize these variations. And to keep track of how fast water is moving through the well and any connected pipes, a flow sensor is used. To evaluate groundwater extraction rates, find leaks, and optimize pump operation to reduce energy usage, this data is invaluable. An integrated LoRaWAN module allows for more efficient data transfer and communication throughout the system.

Since LoRaWAN allows for low-power wireless communication across great distances, it is perfect for use in remote monitoring applications. With this module, data collected by sensors may be safely sent to a central database or cloud service for further processing, analysis, and display. The setup comprises a submersible pump for drawing water from the ground as well as monitoring components. Remote activation and rate modification of the pump are made possible by control methods that use real-time sensor data. You may improve resource use and save energy costs by dynamically controlling groundwater extraction processes using this capability. The integrated system offers a complete solution for groundwater management by integrating remote control, data exchange via LoRaWAN, and real-time monitoring of critical parameters. In order to manage groundwater resources efficiently and sustainably, the system

makes use of a suite of sensors and the STM32F103C8T6 microcontroller. This helps to guarantee that these resources will be available for generations to come.

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10-Apr-2024/53477/202441029039/Form 2(Title Page)

Detailed Description of Invention

The Blue Pill, or STM32F103C8T6, is an affordable microcontroller board that uses the ARM Cortex-M3 core. It is well-suited for Internet of Things (IoT) applications because to its affordable price and balanced performance. It successfully interfaces with the smart well system's sensors and actuators because to its many general-purpose input/output (GPIO) pins, analog-to-digital converters, and hardware support for communication protocols. Many do-it-yourself Internet of Things projects choose it because of its low power consumption and flexibility with different programming environments.

For precise water level measurement, use the DFRobot Gravity Analog Waterproof Water Level Sensor (SKU SEN0257) even when underwater, it gives accurate readings by taking advantage of fluctuations in water pressure. It is ideal for installation in wells or boreholes for continuous water level monitoring due to its waterproof construction, which guarantees dependable operation in a variety of environmental circumstances.

A set of pH, EC, DO, and temperature sensors are included in the Atlas Scientific Environmental Combo Kit (SKU: ENV-SEN-KIT). Proactive management techniques may be put in place to protect water resources with the help of these sensors, which provide dependable and accurate assessments of water quality indicators that are vital for identifying pollution or changes in groundwater quality.

Product code DS18B20 designates the DS18B20 Waterproof Temperature Sensor, which, despite its waterproof housing, provides accurate temperature readings. The device guarantees precise monitoring of fluctuations in groundwater temperature and is suitable for immersion in wells or boreholes. Effective groundwater management is made possible by its sturdy build and waterproof design, which make it ideal for long-term deployment in challenging environmental circumstances.

To find out how deep or high the water is in a well or borehole, you may use the atmospheric pressure, which is a good indicator of the water pressure, and the Bosch BMP180 Digital Barometric Pressure Sensor (SKU BMP180). It is a trustworthy option for tracking variations in water pressure due to its digital output and excellent precision; this data is crucial for evaluating groundwater levels and dynamics.

Flowline EchoPod DL14 Ultrasonic Liquid Level Transmitter and Controller (model DL14-01) detect changes in liquid levels over time, but it can also infer flow rates. It is ideal for

tracking the rate of water extraction or recharge in wells or boreholes, thanks to its precise and dependable ultrasonic readings, which help with effective groundwater management.

IoT devices may communicate over great distances with the help of LoRaWAN modules like the RN2483. LoRaWAN technology is well-suited for applications like smart well monitoring in rural places because it enables low-power, long-range wireless communication across substantial distances. Connecting smart wells to a central monitoring system has never been easier than with the RN2483 module. It supports the LoRaWAN protocol stack and has a UART interface, making it simple to integrate with microcontrollers.

To access groundwater, submersible pumps are immersed into the hole or well where the water is collected. The flow rate of groundwater extraction may be adjusted using these pumps, which can raise water from great depths. Groundwater extraction may be fine-tuned to match demand, reduce energy consumption, and guarantee sustainable usage by modifying the pump's speed or operation. Because of their efficiency, dependability, and ability to work underwater, submersible pumps are often used in groundwater management systems.

10-Apr-2024/53477/202441029039/Form 2(Title Page)

Drawings

Block Diagram

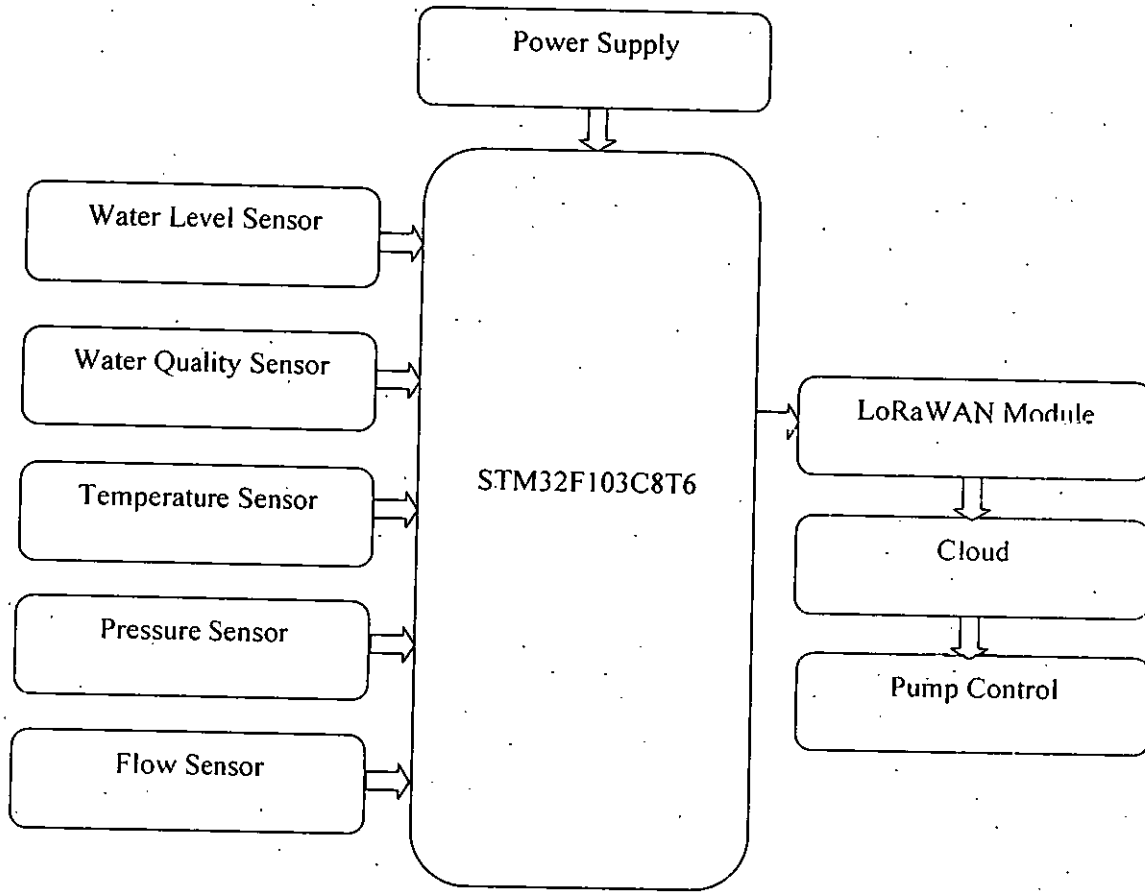


Figure (i) shows the Block Diagram

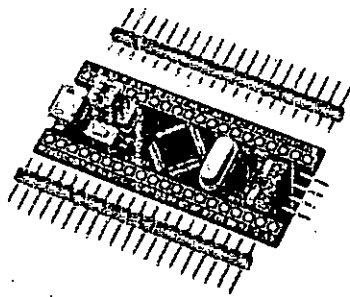


Figure (ii) shows the STM32F103C8T6 (Blue Pill)

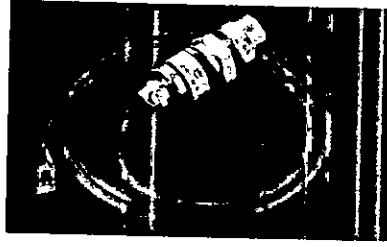


Figure (iii) shows the Water Level Sensor

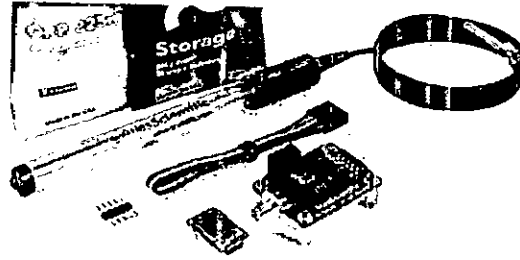


Figure (iv) shows the Water Quality Sensor

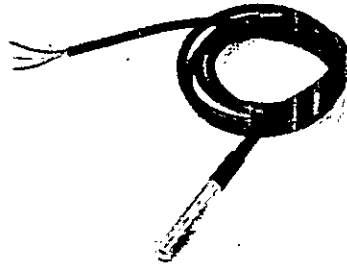


Figure (v) shows the Temperature Sensor

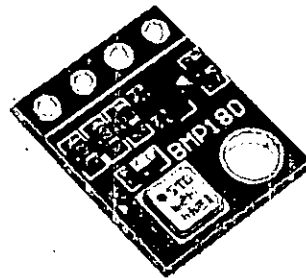


Figure (vi) shows the Pressure Sensor

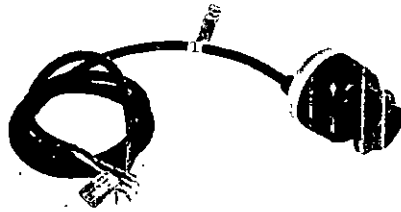


Figure (vii) shows the Flow Sensor

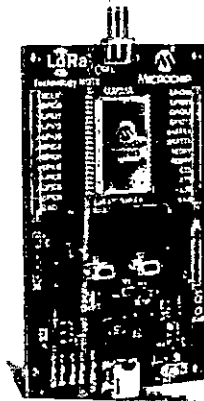


Figure (viii) shows the LoRaWAN Module

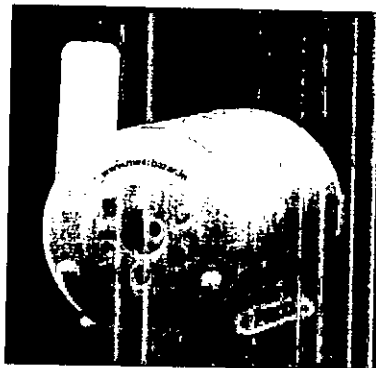


Figure (ix) shows the Submersible Pump

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Detailed Description of Drawings

(1) Figure (i) shows the Block Diagram

(2) Figure (ii) shows the STM32F103C8T6 (Blue Pill)

The Blue Pill, or STM32F103C8T6, is an affordable microcontroller board that uses the
5 ARM Cortex-M3 core. It is well-suited for Internet of Things (IoT) applications because to
its affordable price and balanced performance. It successfully interfaces with the smart well
system's sensors and actuators because to its many general-purpose input/output (GPIO) pins,
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10 flexibility with different programming environments.

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For precise water level measurement, use the DFRobot Gravity Analog Waterproof Water
Level Sensor (SKU SEN0257) even when underwater, it gives accurate readings by taking
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dependable and accurate assessments of water quality indicators that are vital for identifying
pollution or changes in groundwater quality.

(5) Figure (v) shows the Temperature Sensor

Product code DS18B20 designates the DS18B20 Waterproof Temperature Sensor, which,
25 despite its waterproof housing, provides accurate temperature readings. The device
guarantees precise monitoring of fluctuations in groundwater temperature and is suitable for
immersion in wells or boreholes. Effective groundwater management is made possible by its
sturdy build and waterproof design, which make it ideal for long-term deployment in
challenging environmental circumstances.

30 (6) Figure (vi) shows the Pressure Sensor

To find out how deep or high the water is in a well or borehole, you may use the atmospheric pressure, which is a good indicator of the water pressure, and the Bosch BMP180 Digital Barometric Pressure Sensor (SKU BMP180). It is a trustworthy option for tracking variations in water pressure due to its digital output and excellent precision; this data is crucial for evaluating groundwater levels and dynamics.

(7) Figure (vii) shows the Flow Sensor

Flowline EchoPod DL14 Ultrasonic Liquid Level Transmitter and Controller (model DL14-01) detect changes in liquid levels over time, but it can also infer flow rates. It is ideal for tracking the rate of water extraction or recharge in wells or boreholes, thanks to its precise and dependable ultrasonic readings, which help with effective groundwater management

(8) Figure (viii) shows the LoRaWAN Module

IoT devices may communicate over great distances with the help of LoRaWAN modules like the RN2483. LoRaWAN technology is well-suited for applications like smart well monitoring in rural places because it enables low-power, long-range wireless communication across substantial distances. Connecting smart wells to a central monitoring system has never been easier than with the RN2483 module. It supports the LoRaWAN protocol stack and has a UART interface, making it simple to integrate with microcontrollers.

(9) Figure (ix) shows the Submersible Pump

To access groundwater, submersible pumps are immersed into the hole or well where the water is collected. The flow rate of groundwater extraction may be adjusted using these pumps, which can raise water from great depths. Groundwater extraction may be fine-tuned to match demand, reduce energy consumption, and guarantee sustainable usage by modifying the pump's speed or operation. Because of their efficiency, dependability, and ability to work underwater, submersible pumps are often used in groundwater management systems.

Different Embodiment of Invention

- a. **Solar-Powered Variant:** Use solar panels to generate energy; this will make the system more sustainable and cut down on operating expenses; and it will also make it accessible to areas far from power grids.
- 5 b. **Mobile Application Integration:** Create a monitoring and control app that users can use from their smartphones or tablets. This app will help them access system settings, get warnings, and retrieve data from sensors in real-time.
- c. **Modular Design:** To facilitate scalability and configuration flexibility, use a modular design. Customization is a breeze, allowing users to include or exclude sensors and
10 components according to site circumstances and monitoring needs.
- d. **AI-Based Predictive Analytics:** To help users proactively manage water resources and reduce risks, include AI algorithms that can assess past data and forecast changes in groundwater levels and quality.
- 15 e. **Remote Maintenance and Diagnostics:** Integrate tools for remote diagnostics and maintenance so that professionals can fix issues and update software without ever having to set foot on the premises. This will cut down on downtime and keep costs down.

Application of Invention

- i. Continuously monitoring the level, quality, and state of groundwater wells to help in resource management, pollution detection, and evaluation of aquifer recharge.
- 5 ii. By making real-time adjustments to pumping operations using data from sensors and predictive analytics, we can maximize groundwater extraction rates, reduce water waste, and guarantee the sustainable use of water resources.
- iii. Prompt response to alleviate environmental concerns, maintain ecosystems, and defend human health may be achieved by early identification of groundwater contamination incidents through water quality monitoring.
- 10 iv. Help farmers maximize crop yields with minimal water waste by giving them real-time data on soil moisture and groundwater availability; this will support precision irrigation strategies.
- v. In order to enable sustainable development and resilient urban design, it is important to monitor groundwater levels and pressures in urban areas. This will help avoid land subsidence, infrastructure damage, and water shortages.
- 15 vi. To better prepare for and respond to disasters, authorities should monitor groundwater levels during droughts and floods. This would allow them to plan ahead for water supply interruptions, distribute resources efficiently, and help communities who are impacted.
- 20
- 25

We Claim


The invention of Groundwater Management with IoT-Based Smart Wells for Enhanced Monitoring and Control comprises of:

1. Users may benefit from our system's improved accuracy and real-time monitoring of groundwater levels, quality, and environmental indicators, which allows them to make informed decisions and manage resources effectively.
2. Our technology improves groundwater extraction rates by dynamically managing pumping operations based on sensor data. This reduces energy consumption and ensures sustainable exploitation of water resources.
3. The system's water quality sensors allow for the rapid detection of pollutants in groundwater, allowing for the fast action necessary to avert pollution events, preserve ecosystems, and ensure public health.
4. Affordable groundwater management, with minimal operating costs and maximum resource usage efficiency, is possible with our modular architecture and IoT technology integration.
5. By reducing water loss, avoiding over-extraction, and lessening the effect of groundwater depletion on ecosystems, our technology actively monitors and controls water use, promoting environmental sustainability.
6. Our system's modular design and ability to integrate with mobile apps make it highly customizable and scalable, making it ideal for a wide range of users and applications.


(Dr. G REVATHY)


(Dr. D. P. SUTHANTHIRA DEVI)


(Dr. S. HELEN ROSELIN GRACY)


(Dr. B. CHITRADEVI)


(Dr. A. PASUMPON PANDIAN)

Abstract

Sustainable use of water resources is dependent on effective groundwater management, which is especially important in areas where water pollution and shortages are on the rise. Manual interventions and periodic measurements are common in traditional groundwater monitoring and management methods, however they aren't always precise or accurate. Using Internet of Things (IoT) technology to build smart wells that can better monitor and regulate groundwater supplies is a new approach that this research suggests as a response to these problems. IoT smart wells include a network of sensors that can measure a number of variables in real-time, including water level, quality, temperature, and pressure. By monitoring groundwater dynamics in real time, these sensors reveal any irregularities or problems, paving the way for preventative measures in management. In addition, by connecting various IoT devices, data can be sent remotely and monitored centrally. This allows for more informed decisions and better use of resources. The smart wells include controls and actuators that let you automate pumping operations, which means you can optimize groundwater recharging and extraction. This system ensures sustainable groundwater management while reducing operating costs and energy consumption by combining cloud techniques. It can adaptively modify pumping rates depending on real-time data and specified targets.

CB2-24532

Date-10/04/24

Amount-2750/-

10/04/24

[□□□ -II खण्ड 3 (ii)]

भारत का राजपत्र : आसाधारण

91

FORM 9
THE PATENT ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003
REQUEST FOR PUBLICATION
[See Section 11(2); rule 24A]

1. Name, Address and Nationality of the Applicant

(a) NAME: Dr. G REVATHY, Dr. D. P. SUTHANTHIRA DEVI,
Dr. S. HELEN ROSELIN GRACY, Dr. B. CHITRADEVI,
Dr. A. PASUMPON PANDIAN

2. To be Signed by the Applicant
Or his authorized registered
Patent Agent

hereby request for early publication of our
application for Patent No.....dated
..... under section 11A(2) of the Act.
Dated thisday of20.

3. Name of the Natural Person Has signed

(a) Signature:

(b) Name: Dr. G REVATHY

(a) Signature:

(b) Name: Dr. D. P. SUTHANTHIRA DEVI

(a) Signature:

(b) Name: Dr. S. HELEN ROSELIN GRACY

(a) Signature:

(b) Name: Dr. B. CHITRADEVI

(a) Signature:

(b) Name: Dr. A. PASUMPON PANDIAN



710060937

PATENT OFFICE CHENNAI 12/04/2024 16:25

10-Apr-2024/53477/202441029039/Form 9

To

The Controller of Patents,
The Patent Office,
At Guindy, Chennai 600 032.

Note:- For Fee: See First Schedule

10-Apr-2024/53477/202441029039/Form 9

PATENT OFFICE CHENNAI 12/04/2024 16:25



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6386367

Grant date: 02 September 2024

Registration date: 23 August 2024

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.David Neels Ponkumar Devadhas, Preena Prasad , Dr.Manohar

Shanmugavel, Niyas Ahamed Allavudeen, Dr. Revathy Ganapathy, Nazrin

Salma Sheriff Ahamed, Dr. Anand Karuppattan, Arul Kirubaharan Selvaraj

in respect of the application of such design to:

AI BASED NETWORK SECURITY HUB

International Design Classification:

Version: 14-2023

Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT

Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL APPARATUS AND DEVICES

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

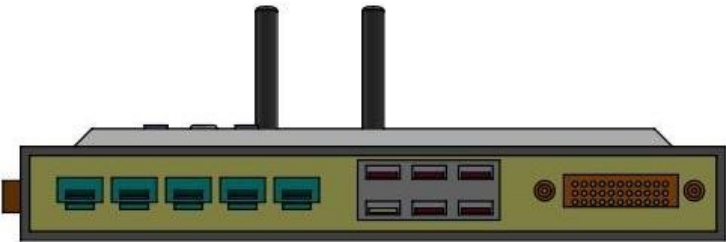
The attention of the Proprietor(s) is drawn to the important notes overleaf.

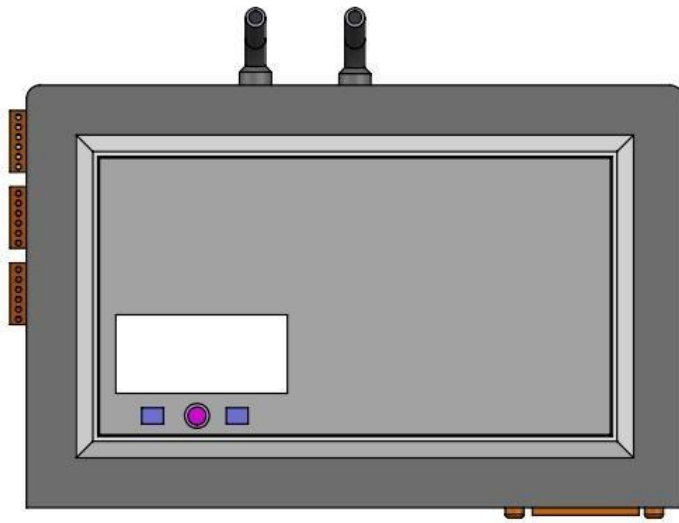
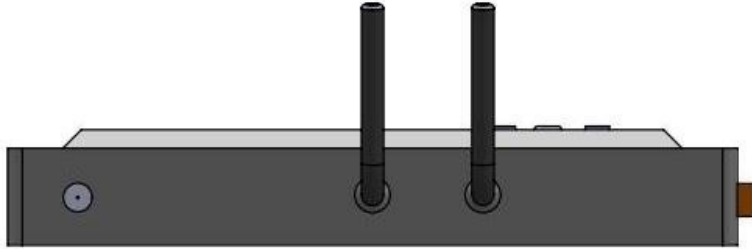


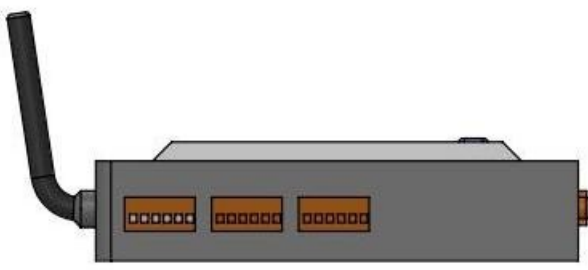
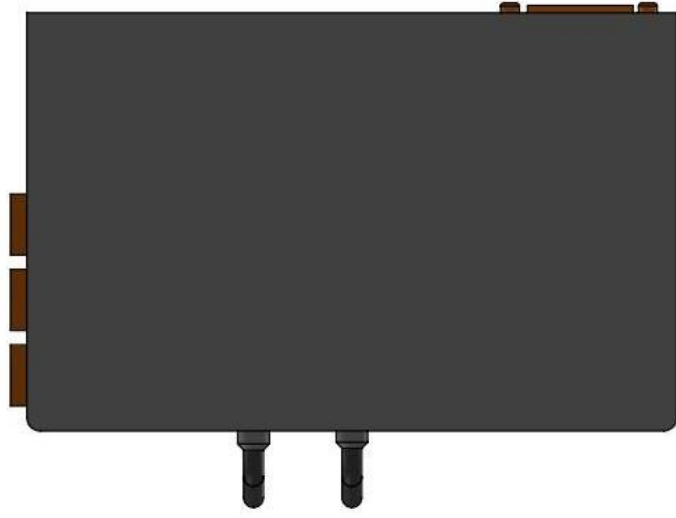
Intellectual Property Office is an operating name of the Patent Office

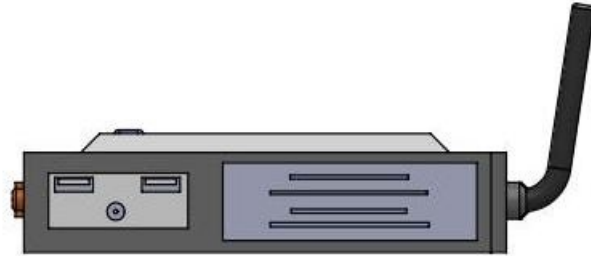
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Application Details

| | |
|----------------------------------|--|
| APPLICATION NUMBER | 202441005369 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 25/01/2024 |
| APPLICANT NAME | 1 . Dr. A. Loganathan 2 . Dr. S. Sreelakshmi 3 . Mr. Ajay Pal Singh 4 . Mr. Parvez Rahi 5 . Mr. Amit Kumar Jaiswal 6 . Dr. A. Selvaraj 7 . Mrs. T. Iswarya 8 . Ms. A. Punitha 9 . Dr. G. Jayaraman 10 . Dr. S. Senthamilselvi 11 . Dr. Harikumar Pallathadka |
| TITLE OF INVENTION | MATHEMATICAL FRAMEWORKS FOR SECURE CRYPTOGRAPHY USING ADVANCING ENCRYPTION TECHNOLOGIES |
| FIELD OF INVENTION | COMMUNICATION |
| E-MAIL (As Per Record) | patentpointservices@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 09/02/2024 |



Design details

Design application number
6347870

Filing date (provisional)
21 February 2024

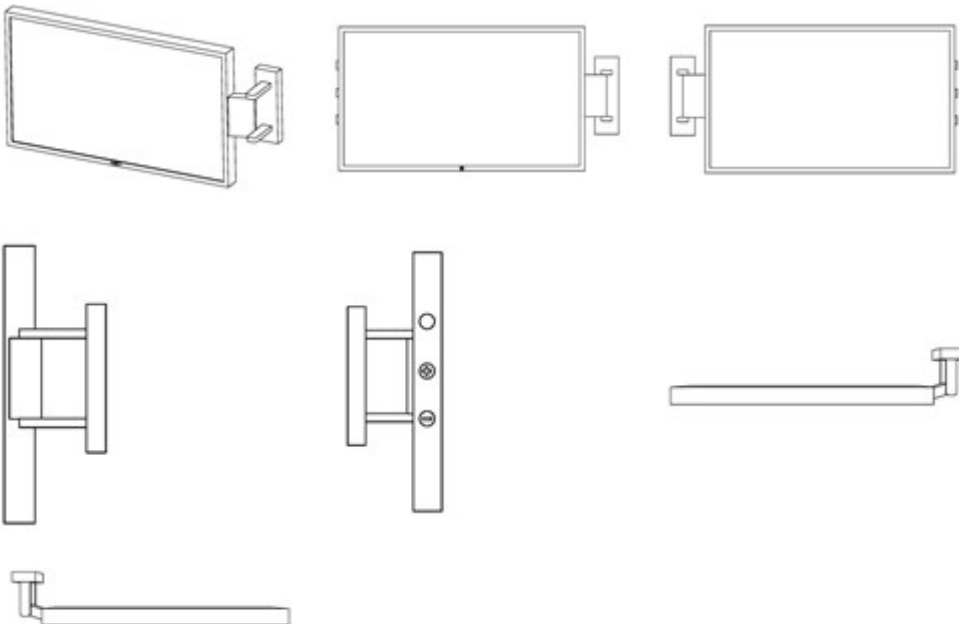
Defer registration
No

Design
ARTIFICIAL INTELLIGENCE-BASED CLOUD SECURITY DETECTOR

Additional description
None

Illustration disclaimer
None

Illustrations



Repeated surface pattern
No

Priority claims

None

Owner details

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1BW, United Kingdom

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Phone: 9717699148

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Certificate of Registration for a UK Design

Design number: 6347870

Grant date: 27 February 2024

Registration date: 21 February 2024

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. MADHURA KASARAGOD, DR. MANJULA HEBBALA MUNITHIMMAIAH,

VIKAS CHAUHAN, SHILPA TYAGI, DR. JEBATHANGAM J, SURESH KUMAR,

DR. RAJENDER KUMAR BATHLA, DR. SUKHDEV SINGH

in respect of the application of such design to:

ARTIFICIAL INTELLIGENCE-BASED CLOUD SECURITY DETECTOR

International Design Classification:

Version: 14-2023

Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING
INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS

Subclass: 05 INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING,
SECURITY OR TESTING

Adam Williams

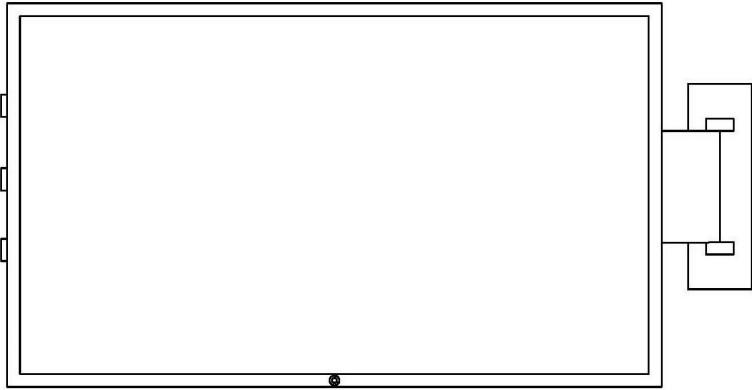
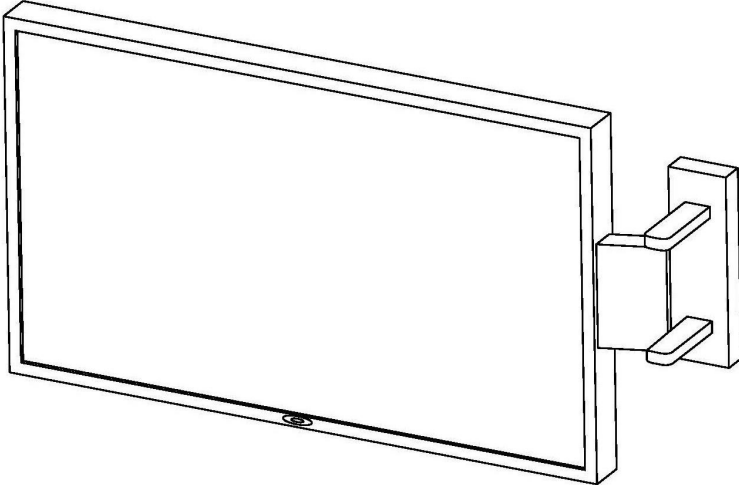
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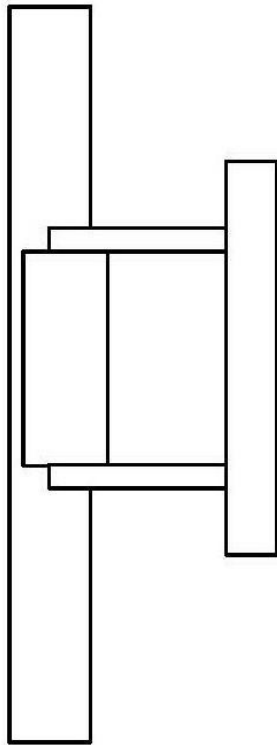
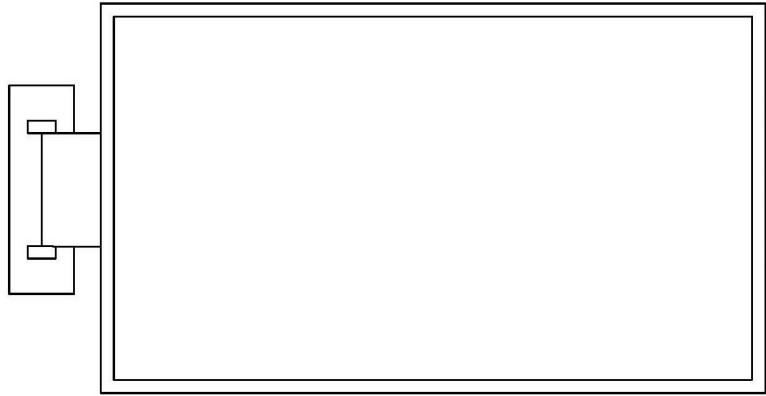
Intellectual Property Office

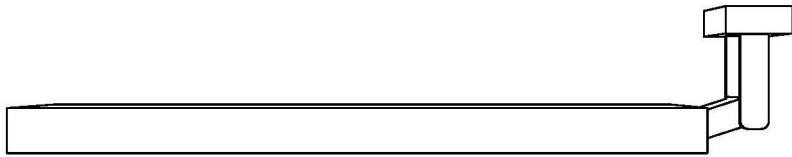
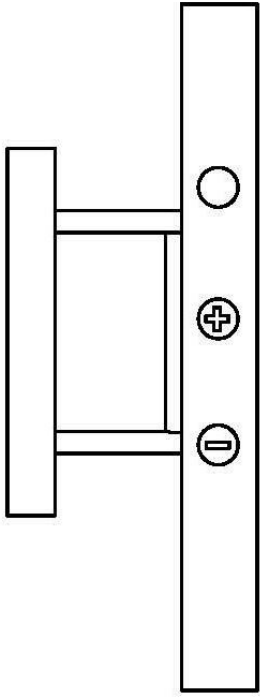
The attention of the Proprietor(s) is drawn to the important notes overleaf.

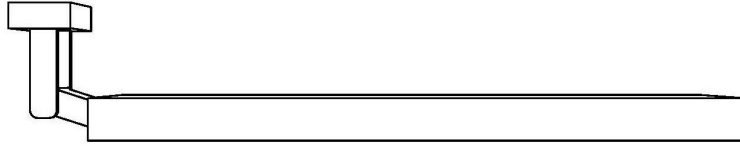


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Application Details

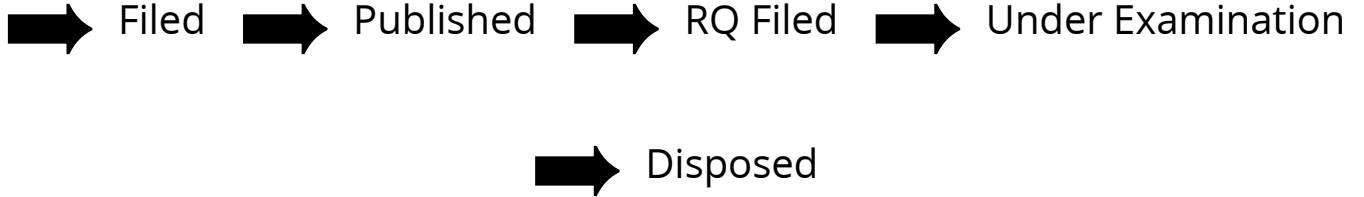
| | |
|----------------------------------|---|
| APPLICATION NUMBER | 202341088599 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 25/12/2023 |
| APPLICANT NAME | 1 . manoharan sudharsan 2 . M. DIVYA 3 . DR. S. SATHYA, M.Sc., M.Phil., Ph.D., |
| TITLE OF INVENTION | A META HEURISTIC APPROACH FOR AN EARLY PREDICTION OF PULMONARY CARCINOMA DISEASE SEGMENTED BY MEDNET AND CLASSIFICATION BY LCNET DEEP LEARNING MODELS WITH WEB UI |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | sudharsanms15@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 19/01/2024 |

Application Status

APPLICATION STATUS

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Application Details

| | |
|----------------------------------|---|
| APPLICATION NUMBER | 202411008652 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 08/02/2024 |
| APPLICANT NAME | 1 . Sanjay Kumar Tuddu 2 . Dr.Rajeshwari S.Mathad 3 . Richa Grover 4 . Dr. Sheela Gowr Ponrama Subbu 5 . Asha Sohal 6 . Dr. Kavita Rani 7 . Sunny Kuhar 8 . Ambrish Kumar Sharma 9 . Dr Suneet Kumar 10 . Dr.Sandeep Kumar Hegde |
| TITLE OF INVENTION | MACHINE LEARNING BASED FRAUD APPS DETECTION USING SENTIMENT ANALYSIS AND BLOCK CHAIN TECHNOLOGY |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | senanipindia@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 16/02/2024 |



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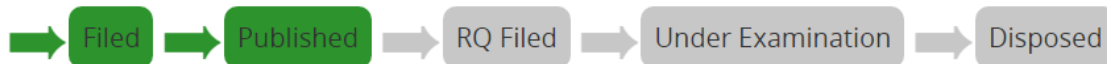
Application Details

| | |
|----------------------------------|--|
| APPLICATION NUMBER | 202411034445 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 30/04/2024 |
| APPLICANT NAME | 1 . Dr. Harpreet Singh 2 . Dr. Sheeba Santhosh 3 . Dr. Karamthoti MB 4 . Dr. A.S. Arunachalam 5 . Dr M. Shanmugathai 6 . Dr. Rao M 7 . Saravana Kumar.N 8 . Dr Dheeraj Malhotra 9 . Dr. S Nagakishore Bhavanam 10 . Dr. Vasujadevi Midasala |
| TITLE OF INVENTION | A NEW MODEL FOR DETECTING DEPRESSION FROM ORGANIZATION BY USING MULTIPLE MACHINE LEARNING AND AI TECHNIQUES |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | senanipindia@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 10/05/2024 |

Application Status

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| Application Details | |
|----------------------------------|--|
| APPLICATION NUMBER | 202441001223 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 06/01/2024 |
| APPLICANT NAME | 1 . Dr.V.N.Sudheer 2 . Dr. A.A.Jayashree Prabhakar 3 . Dr. J. V. Balasubramanian 4 . Dr.N.Sinthuja 5 . Dr.K.Bhavani 6 . Dr.Thahira Rahmath 7 . Mrs.Pratibha Pandey 8 . Ms.Sangeetha BK 9 . Ms.R. Abeetha |
| TITLE OF INVENTION | ANALYSIS OF THE IMPACT OF ENGLISH LANGUAGE ON CULTURAL IDENTITY OF A NATION USING MACHINE LEARNING APPROACHES |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | sgowthami12@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | sgowthami12@gmail.com |
| E-MAIL (UPDATED Online) | |

| | |
|------------------------------|------------|
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 02/02/2024 |

Application Status

APPLICATION STATUS

Awaiting Request for Examination

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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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(54) Title of the invention : ANALYSIS OF MENTAL HEALTH OF HIGH SCHOOL STUDENT IN EDUCATION SECTOR DURING PANDEMIC

| | |
|---|--|
| <p>(51) International classification :A61P0025220000, G06Q0050200000, A61P0025000000, A61P0025240000, A23L0033135000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Dr.P.RAMA KRISHNA Address of Applicant :PROFESSOR & HOD, DEPARTMENT OF MANAGEMENT SCIENCE, SASI INSTITUTE OF TECHNOLOGY & ENGINEERING, TADEPALLIGUDEM, ANDHRA PRADESH-534 101 Tadepalligudem ----- 2)Dr. C M NAVEEN KUMAR 3)MRS. YAMINI PADMANABAN 4)PROF.LEESA SANTOSH 5)Dr. RACHNA PRASAD 6)Dr.S.PRAMILA 7)Mr.J LOGESHWARAN 8)Dr.S.NANGAIYARKARASI 9)Dr.G.BJJEESH PUSHPA 10)Mr.K.RATHEESH KUMAR 11)Mr.M.VADIVEL 12)Mrs. MENDA SREEVANI Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.P.RAMA KRISHNA Address of Applicant :PROFESSOR & HOD, DEPARTMENT OF MANAGEMENT SCIENCE, SASI INSTITUTE OF TECHNOLOGY & ENGINEERING, TADEPALLIGUDEM, ANDHRA PRADESH-534 101 Tadepalligudem ----- 2)Dr. C M NAVEEN KUMAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & BUSINESS SYSTEMS, MALNAD COLLEGE OF ENGINEERING, HASSAN-573202 Hassan ----- 3)MRS. YAMINI PADMANABAN Address of Applicant : ASSISTANT PROFESSOR, ENGLISH, SRI SAI RAM INSTITUTE OF TECHNOLOGY , CHENNAI, TAMILNADU – 600044, INDIA Chennai ----- 4)PROF.LEESA SANTOSH Address of Applicant :ASSOCIATE PROFESSOR, APPLIED SCIENCES, SAGAR INSTITUTE OF RESEARCH AND TECHNOLOGY , BHOPAL , MADHYA PRADESH -462026, INDIA Bhopal ----- 5)Dr. RACHNA PRASAD Address of Applicant :ASSOCIATE PROFESSOR, APPLIED SCIENCES , SAGAR INSTITUTE OF RESEARCH AND TECHNOLOGY, BHOPAL , MADHYA PRADESH- 462023, INDIA Bhopal ----- 6)Dr.S.PRAMILA Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF COMMERCE, FINANCE & ACCOUNTANCY, CHRIST UNIVERSITY, GHAZIABAD, UTTAR PRADESH- 201003, INDIA Ghaziabad ----- 7)Mr.J LOGESHWARAN Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI ESHWAR COLLEGE OF ENGINEERING, COIMBATORE-TAMIL NADU Coimbatore ----- 8)Dr.S.NANGAIYARKARASI Address of Applicant :ASSISTANT PROFESSOR, EDUCATION , VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), CHENNAI, TAMILNADU - 600 117, INDIA Chennai ----- 9)Dr.G.BJJEESH PUSHPA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BUSINESS ADMINISTRATION , DR.SNS RAJALAKSHMI COLLEGE OF ARTS AND SCIENCE , COIMBATORE , TAMIL NADU – 641049, INDIA Coimbatore ----- 10)Mr.K.RATHEESH KUMAR Address of Applicant :ASSISTANT PROFESSOR, COMMERCE, SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE-641020, TAMIL NADU, INDIA Coimbatore ----- 11)Mr.M.VADIVEL Address of Applicant :ASSISTANT PROFESSOR, COMMERCE, SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE, TAMIL NADU-641020, INDIA Coimbatore ----- 12)Mrs. MENDA SREEVANI Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, INSTITUTE OF AERONAUTICAL ENGINEERING, DUNDIGAL- 500043, HYDERABAD, INDIA Hyderabad -----</p> |
|---|--|

(57) Abstract :
ABSTRACT ANALYSIS OF MENTAL HEALTH OF HIGH SCHOOL STUDENT IN EDUCATION SECTOR DURING PANDEMIC The impact of the COVID-19 pandemic on the mental health of high school students in the education sector. It highlights the increasing concern over the psychological well-being of students as a result of the disruption in their education and social lives caused by the pandemic. One factor contributing to the negative impact on mental health is the sudden shift to online learning and lack of in-person social interaction, leading to feelings of isolation and loneliness. In addition, the fear and uncertainty surrounding the pandemic, such as the risk of infection and the economic impact on families, can also contribute to heightened levels of stress and anxiety among students. It notes that the closure of schools may have also resulted in the loss of a safe and supportive environment for students, which can negatively affect their mental health. This is especially significant for students who come from disadvantaged backgrounds or those already facing mental health challenges. It also mentions the potential long-term effects of the pandemic on mental health, such as increased rates of depression, anxiety, and post-traumatic stress disorder (PTSD) among high school students. It highlights the urgent need for support and intervention to address the mental health of high school students in the education sector during this unprecedented time. It also emphasizes the importance of implementing strategies to promote resilience and coping mechanisms among students to mitigate the negative effects of the pandemic on their mental well-being.

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



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Application Details

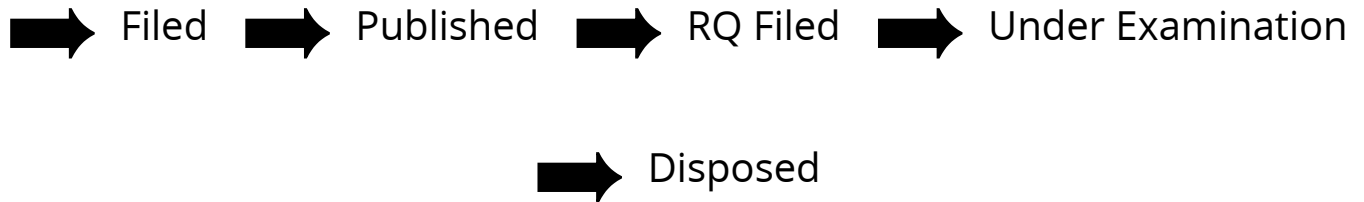
| | |
|----------------------------------|---|
| APPLICATION NUMBER | 202441023789 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 26/03/2024 |
| APPLICANT NAME | <ol style="list-style-type: none"> 1 . S.Balamurugan 2 . Dr.K.Dharmarajan 3 . Dr.K.Abirami 4 . Ambika S 5 . Dr.Bharati Wukkadada 6 . Dr.Priya Arundhati 7 . Dr.K.Praveen 8 . Dr.J.Manoranjini 9 . Prof. Raminder Kaur 10 . Prof. Abhishek Vichare 11 . Dr.Saurav Verma 12 . Dr Sengole Merlin |
| TITLE OF INVENTION | IoT Based Intelligent Smart Watch for Early Prediction of Paralysis among Older Adults |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | sbnbala@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | sbnbala@gmail.com |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 12/04/2024 |

Application Status

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Awaiting Request for Examination

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| Application Details | |
|----------------------------------|--|
| APPLICATION NUMBER | 202441023980 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 26/03/2024 |
| APPLICANT NAME | 1 . Dr.S.Vennila Fathima Rani 2 . Dr.S.Jayakani 3 . Dr.Biplab Tripathy 4 . Adarsh Gahlaut 5 . Dr. Lakshman K 6 . Shilpa Mary T 7 . Dr. V. Rama 8 . Dr. Neeti Mathur 9 . Dr. Shaman Gupta 10 . Suzan Andria Abel |
| TITLE OF INVENTION | THE DIGITAL SELF AND REAL SELF AMONG SOCIAL MEDIA USERS IN INDIA |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | patentpublucation@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |

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|------------------------------|------------|
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 05/04/2024 |

Application Status

APPLICATION STATUS

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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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PATENTS | DESIGNS | TRADE MARKS
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Application Details

| | |
|-------------------------------------|--|
| APPLICATION NUMBER | 202441024007 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 26/03/2024 |
| APPLICANT NAME | 1 .Renuka H.R 2 .Ms.J.Gajavalli 3 .Dr. S Jeyalaksshmi 4 .G.Ramya Shri 5 . Dr.SandipHaldar 6 . Dr.F.SangeethaFrancelinVinnarasi 7 . Siddanna S R 8 . Dr.PuneetBanga 9 . Abhishek Srivastava 10 . Kalpana R A |
| TITLE OF INVENTION | AI BASED APPROACH FOR DETECTING, QUANTIFYING, AND VISUALIZING THE EVOLUTION OF ANY RESEARCH FIELD USING DEEP LEARNING ALGORITHMS |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | senanipindia@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 05/04/2024 |

Application Status

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| APPLICATION STATUS | Awaiting Request for Examination |
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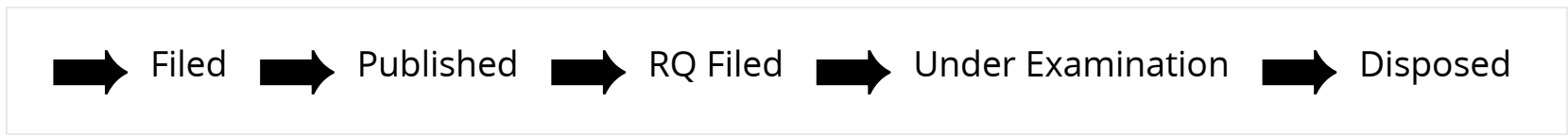
| Application Details | |
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| APPLICATION NUMBER | 202441030907 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 17/04/2024 |
| APPLICANT NAME | 1 . Dr. V. Divya 2 . C BalaKamatchi 3 . Dr. S. Arunarani 4 . Dr. A. Bharathi 5 . Dr. U. Hemamalini 6 . Mrs. M Girija 7 . Mr.M Santhoshkumar 8 . Mrs.J.Saranya 9 . Mr. R. Pratheesh 10 . Dr.S.Kamalakkannan |
| TITLE OF INVENTION | HYBRID CLOUD APPROACH FOR SECURE AUTHORIZED DEDUPLICATION OF MEDICAL RECORD WITH STRONG ENCRYPTION/DECRYPTION ALGORITHMS TO PREVENT FROM CYBER ATTACKS |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | senanipindia@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |

| | |
|------------------------------|------------|
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 26/04/2024 |

Application Status

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(12) PATENT APPLICATION PUBLICATION

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(54) Title of the invention : HERBAL COMPOSITION CONSISTING OF ACACIA CATECHU EXTRACT HAVING ANTIDIABETIC POTENTIAL AND THEREOF

(51) International classification :A61K0036480000, A61P0003100000, A61K0038170000, G01N0033500000, C12N0005071000

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(57) Abstract :

The present invention reveals a polyherbal extract composition of Acacia catechu with potential anti-diabetic activity. This composition includes Acacia catechu extracts combined with pharmaceutically acceptable carriers/solvent systems and other necessary excipients. The invention particularly provides a method for testing isolated extracts of Acacia catechu through developed in-vitro cell line studies. The in-vitro cell line efficacy study using solvent-extracted Acacia catechu with the MIN6 cell line, along with the in-vitro Annexin V apoptosis assay by flow cytometry, demonstrates that the ethyl acetate extract of Acacia catechu possesses significant anti-diabetic potential. This disclosed invention provides strong evidence that the ethyl acetate extract (EAE) has a binding affinity with beta cell proteins and can increase insulin secretion from pancreatic beta cells, outperforming the standard drug Genistein currently available in the market. Therefore, Acacia catechu shows promise as a potent drug for Type I diabetes due to its ability to enhance insulin secretion and its prominent interactions with beta cell proteins responsible for insulin secretion.

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



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| APPLICANT NAME | 1 . Dr. Indumathi R S 2 . Chandrashekara. A C 3 . Dr. Arvind Siddapuram 4 . Pramod S 5 . Sreekala C K 6 . Mrs. Swathi H R 7 . Dr G Purushothaman 8 . Dr. Suvarna Raagavendaran 9 . Dr.A. Saritha 10 . Dr. V. Dhayalan 11 . Anthony Savio Herminio da Piedade Fernandes 12 . VM Saravana |
| TITLE OF INVENTION | ENHANCING LEARNING ANALYTICS THROUGH GRAPH THEORY AND MACHINE LEARNING IN EDUCATIONAL FEEDBACK SYSTEMS |
| FIELD OF INVENTION | COMPUTER SCIENCE |
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(54) Title of the invention : DEVELOPMENT OF FABRICATION AND CHARCATERIZATION OF SAW DUST POLYMER COMPOSITE FOR MECHANICAL APPLICATIONS

(51) International classification :C08L0023060000, B29K0033000000, C08L0097020000,
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(86) International Application No :NA
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(57) Abstract :
 The research aimed to transform sawdust and polymer wastes such as high-density polyethylene (HDPE) and low-density polyethylene (LDPE) into valuable materials. The study used HDPE and LDPE granules as matrix phase material, and sawdust as a reinforcing material. The different combination of matrix materials and reinforcing material blending was done using a twin-screw extruder. The extruded mixture was turned into pellets and then injection moulded to create composite specimens. The mechanical properties of the fabricated specimens were evaluated through tensile, hardness, flexural resistance, and water absorption tests. The outcome of the research shows that the 80% HDPE and 20% sawdust demonstrated marginally better tensile strength. The 40% HDPE, 40% LDPE, and 20% sawdust composite showed higher hardness values compared to other combinations. The study offers a practical result for reprocessing and handling timber waste from furniture manufacturers and timber industries. The test results suggest that treated sawdust had better mechanical properties than untreated sawdust. The composite with the highest proportion of HDPE and sawdust showed the most favorable mechanical properties, followed by HLSC, while the LSC composite had the least desirable performance.

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

(54) Title of the invention : DESIGN AND ANALYSIS OF HIGH STRENGTH TO WEIGHT BACKHOE LOADERS.

(51) International classification :G06F0030230000, G06F0030000000, E02F0003380000, G06F0030130000, G06F0030150000

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(57) Abstract :
 on optimizing the design of backhoe loaders, with a specific focus on achieving a high strength-to-weight ratio. This research project explores the intricate aspects of designing and analyzing backhoe loaders to enhance their performance, durability, and overall efficiency. The study begins with an in-depth review of existing backhoe loader designs and their structural components. Emphasis is placed on identifying materials with high strength properties and low weight characteristics, considering advancements in materials science and engineering. The selection process involves a comprehensive analysis of trade-offs between strength, weight, cost, and manufacturability. Subsequently, the research delves into the structural design phase, incorporating advanced computer-aided design (CAD) tools to model and simulate the proposed backhoe loader configurations. Finite Element Analysis (FEA) is employed to evaluate the structural integrity of the design under various loading conditions, ensuring compliance with safety standards and optimizing for maximum strength with minimal weight. The integration of innovative features such as lightweight but high-strength alloys, composite materials, and advanced manufacturing techniques is explored. The study also investigates the impact of these design modifications on the loader's overall performance, fuel efficiency, and operator comfort. Attention is given to ergonomic considerations to enhance the usability and reduce operator fatigue during prolonged usage. Furthermore, a comparative analysis is conducted to benchmark the proposed designs against conventional backhoe loaders in terms of their strength-to-weight ratio, efficiency, and overall cost-effectiveness. Real-world case studies and field trials are used to validate the theoretical models and simulations, providing practical insights into the performance of the designed backhoe loaders in actual working conditions. The outcomes of this research contribute to the advancement of backhoe loader technology by presenting a comprehensive framework for designing and analyzing high strength-to-weight ratio machines. The findings have significant implications for the construction industry, offering a pathway towards more sustainable and efficient heavy equipment, ultimately enhancing productivity and reducing environmental impact.

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



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पेटेंट प्रमाण पत्र | **Patent Certificate**

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 513779

आवेदन सं. / Application No. 3899/CHE/2014

फाइल करने की तारीख / Date of Filing 08/08/2014

पेटेंटी / Patentee : THE REGISTRAR, VELS UNIVERSITY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **MOBILE CONTROLLED COMBAT VEHICLE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अगस्त 2014 के आठवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **MOBILE CONTROLLED COMBAT VEHICLE** as disclosed in the above mentioned application for the term of 20 years from the 8th day of August 2014 in accordance with the provisions of the Patents Act, 1970.



(Signature)
इकांत की अंसित

अनुदान की तारीख : 22/02/2024
Date of Grant : 22/02/2024

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अगस्त 2016 के आठवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 8th day of August 2016 and on the same day in every year thereafter.

पेटेंट नियंत्रक
Controller of Patents

(54) Title of the invention : RP-HPLC METHOD FOR ESTIMATION OF METHOCARBAMOL IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF

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| <p>(51) International classification :A61K0031270000, G01N0030020000, G01N0030860000, A61P0021000000, G01N0030060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Dr.T.Sudha Address of Applicant :Associate professor, Vels Institute of Science, Technology and Advance Studies (VISTAS), Pallavaram, Chennai-600117, Tamil Nadu, India -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.T.Sudha Address of Applicant :Associate professor, Vels Institute of Science, Technology and Advance Studies (VISTAS), Pallavaram, Chennai-600117, Tamil Nadu, India Chennai -----</p> <p>2)Dr.P. Kumar Nallasivan Address of Applicant :Professor, Karpagam Academy of Higher Education, Coimbatore-641021, Tamil Nadu, India Coimbatore -----</p> <p>3)Dr. J. Amudha Iswarya Devi Address of Applicant :Professor, St. Mariam College of Pharmacy, Pudur, Tirunelveli-627851, Tamil Nadu, India Tirunelveli -----</p> <p>4)Mrs. M.V. Saranya Address of Applicant :Associate professor, JKK Nataraja College of Pharmacy, Kumarapalayam, Namakkal District -638183, Tamil Nadu, India Kumarapalayam -----</p> <p>5)Mr. K.S Dinesh Address of Applicant :Assistant Professor, The Erode college of Pharmacy, Veppampalyam, Erode-638112, Tamil Nadu, India Erode -----</p> <p>6)Mr. Syed Abuthahir Badusha Address of Applicant :Assistant Professor, PGP College of Science and Research Institute, Namakkal-637207, Tamil Nadu, India Namakkal -----</p> <p>7)Mr. S. Parthiban Address of Applicant :Assistant Professor, PGP College of Pharmaceutical Science and Research Institute, Namakkal-637207, Tamil Nadu, India Namakkal -----</p> |
|--|--|

(57) Abstract :

Abstract RP-HPLC METHOD FOR ESTIMATION OF METHOCARBAMOL IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF
The present invention provides a simple, selective and sensitive method for the estimation of Methocarbamol in pharmaceutical dosage form. The method for estimation of Methocarbamol, comprising of dissolving Methocarbamol using acetonitrile and phosphate buffer pH 5.50 as mobile phase in the ratio of 65:35 %v/v; running chromatogram through column C18 150mm×4.6mm and 3.6µm particle size, using mobile phase; optimizing conditions of column at flow rate 1ml/min, detecting wavelength at 265nm; running the sample and recording chromatogram from the chromatograph for estimation of Methocarbamol. The process for the preparation of sample solution, comprising of weighing crushed Methocarbamol tablets and transferring an amount equivalent to 75 mg of Methocarbamol in to a 100 ml volumetric flask; adding minimum quantity of mobile phase to dissolve the substance and making the solution up to the volume with the 750µg/ml; sonicating the solution for 30 minutes, centrifuging at 100 rpm for 15 minutes and filtering through Whatman filter paper No 41 to obtain final concentration of the sample solution 12µg/ml. The method for estimation of Methocarbamol, wherein the capacity factor of guaifenesin impurity (k1) in Methocarbamol 0.79; the resolution (Rs2,3) 7.77; the retention time of Methocarbamol (tR2) 2.99; the Beer's law limit 4-24µg/ml, Correlation Coefficient (r) 0.9990, Regression equation Y=40453x-10847, Slope 40453 and Intercept 10847; the LOD 0.88µg/ml and LOQ 2.68 µg/ml; the assay 100.02%; the Precision (Intraday %RSD) 0.5212; the percentage recovery is in the range of 99.75%-101.06% and %RSD values are less than 2%. The present RP-HPLC method for estimation of Methocarbamol has excellent sensitivity, precision and reproducibility.

No. of Pages : 23 No. of Claims : 10

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शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : METHOD FOR IDENTIFYING HERBAL COMPOUNDS WITH ANTI-CANCER PROPERTIES USING MACHINE LEARNING TECHNIQUES

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| <p>(51) International classification :G06N002000000, G06N0003040000, A61P0035000000, G06K0009620000, G06N0003080000</p> <p>(86) International Application No :PCT/ Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Atchutuni Venkata Subrahmanyeswara Ravi Sai Nadh Address of Applicant :Assistant Professor, Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India Vijayawada ----- 2)Tadikonda Iswarya 3)Lavu Divya Saroja 4)Bejagam Shanmukhi 5)Mr. Vijay Singh 6)Mr. Arun Kumar Pal 7)Dr. Karthickeyan Krishnan 8)Prof. (Dr.) Sunil Kumar Prajapati 9)Dr. Ujashkumar Shah 10)V Gayathri 11)Anne Mohan Vamsi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Atchutuni Venkata Subrahmanyeswara Ravi Sai Nadh Address of Applicant :Assistant Professor, Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India Vijayawada ----- 2)Tadikonda Iswarya Address of Applicant :Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh- 520010, India Vijayawada ----- 3)Lavu Divya Saroja Address of Applicant :Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh- 520010, India Vijayawada ----- 4)Bejagam Shanmukhi Address of Applicant :Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh- 520010, India Vijayawada ----- 5)Mr. Vijay Singh Address of Applicant :Pragati College of Pharmacy, Kashipur, Udham Singh Nagar, Uttarakhand-244713, India Udham Singh Nagar ----- 6)Mr. Arun Kumar Pal Address of Applicant :Six Sigma Institute of Technology and Science, Rudrapur, Udham, Singh Nagar, Uttarakhand-263153, India, Udham, Singh Nagar ----- 7)Dr. Karthickeyan Krishnan Address of Applicant :Professor and Head, Department of Pharmacy Practice, School of Pharmaceutical Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu-600117, India Chennai ----- 8)Prof. (Dr.) Sunil Kumar Prajapati Address of Applicant :Institute of Pharmacy, Bundelkhand University, Jhansi, UttarPradesh-284128, India Jhansi ----- 9)Dr. Ujashkumar Shah Address of Applicant :Professor and Head, Faculty of Pharmacy, Nootan Pharmacy College, Sankalchand Patel University, SK campus, Visnagar, Dist. Mehsana, Gujarat-384315, India Mehsana ----- 10)V Gayathri Address of Applicant :Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India Vijayawada ----- 11)Anne Mohan Vamsi Address of Applicant :Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India Vijayawada -----</p> |
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(57) Abstract :
The present invention discloses a method for identifying herbal compounds with anti-cancer properties using machine learning techniques. The method involves collecting a comprehensive dataset comprising information on herbal compounds, their chemical properties, and experimental data on their anti-cancer activities. Relevant features are extracted from the dataset, including molecular descriptors, physicochemical properties, and structural characteristics of the compounds. The dataset is preprocessed to ensure data quality, and machine learning models, such as support vector machines or neural networks, are trained on the preprocessed data to learn the relationships between the features and the anti-cancer activities.

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

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PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : HERBAL COMPOSITION FOR THE TREATMENT OF CANCER AND PROCESS OF PREPARATION THEREOF

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|---|--|
| <p>(51) International classification :A61K 364700, A61K 364840, A61K 368100, A61P 350000, B01J 351000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Prof. (Dr.) Vishal Garg Address of Applicant :Principal & Professor, Jaipur School of Pharmacy, Maharaj Vinayak Global University, Dhand Tehsil Amer, Jaipur Delhi NH 11 C, Jaipur, Rajasthan - 302020, India Jaipur -----</p> <p>2)Dr. Apurba Talukdar 3)Dr. Ashok Kumar Uppuluru 4)Mr. Bhargav Bhongiri 5)Dr. Nasreen Sulthana 6)Dr. Chennupati Venkata Suresh 7)Dr. Karthickeyan Krishnan 8)Dr. Ujashkumar Shah 9)Ms. Aatefa Harmyn Aayesha 10)Dr. Pravin Honmane 11)Dr. Mohammed Altaf Ahmed Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. (Dr.) Vishal Garg Address of Applicant :Principal & Professor, Jaipur School of Pharmacy, Maharaj Vinayak Global University, Dhand Tehsil Amer, Jaipur Delhi NH 11 C, Jaipur, Rajasthan - 302020, India Jaipur -----</p> <p>2)Dr. Apurba Talukdar Address of Applicant :Associate Professor, NETES Institute of Pharmaceutical Science, NEMCARE Group of Institutions, Santipur, Mirza, Kamrup, Assam - 7811253, India Kamrup -----</p> <p>3)Dr. Ashok Kumar Uppuluru Address of Applicant :Prof & Head, Department of Pharmacognosy, Max Institute of Pharmaceutical Sciences, Khammam, Telangana - 507318, India Khammam -----</p> <p>4)Mr. Bhargav Bhongiri Address of Applicant :Associate director, Synpharma Research lab, 2nd floor, rajadhani complex, dilukhnagar, Hyderabad, Telangana - 500060, India Hyderabad -----</p> <p>5)Dr. Nasreen Sulthana Address of Applicant :Associate Professor, Department of Pharmacology, St. Pauls college of pharmacy, Turkayamjal, Telangana - 501510, India Turkayamjal -----</p> <p>6)Dr. Chennupati Venkata Suresh Address of Applicant :Professor, Dept. Of Pharm. Analysis, Nalanda College of Pharmacy, Nalgonda, Telangana - 508001, India Nalgonda -----</p> <p>7)Dr. Karthickeyan Krishnan Address of Applicant :Professor and Head, Department of Pharmacy Practice, School of Pharmaceutical Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu - 600117, India, Chennai -----</p> <p>8)Dr. Ujashkumar Shah Address of Applicant :Professor and Head, Faculty of Pharmacy, Nootan Pharmacy College, Sankalchand Patel University, SK campus, Visnagar, Dist. Mehsana. Gujarat - 384315, India Mehsana -----</p> <p>9)Ms. Aatefa Harmyn Aayesha Address of Applicant :Assistant professor, Ayesha college of pharmacy, Naaz colony, Hagarga cross, Kalaburagi, Karnataka - 585104, India Kalaburagi -----</p> <p>10)Dr. Pravin Honmane Address of Applicant :Assistant professor, Adarsh college of Pharmacy, Vita, Chinchani, Kadegaon, Sangli, Maharashtra - 415303, India Sangli -----</p> <p>11)Dr. Mohammed Altaf Ahmed Address of Applicant :Principal, Ayesha college of pharmacy, Naaz colony, Hagarga cross, Kalaburagi, Karnataka - 585104, India Kalaburagi -----</p> |
|---|--|

(57) Abstract :

The present invention relates to a therapeutic herbal composition for the treatment of cancer using natural ingredients. The composition comprises specific percentages of Curcumin, Resveratrol, Epigallocatechin gallate (EGCG), Saw Palmetto, Bromelain, Willow Herb, Grape Seed Complex, Licorice, and Selenium Yeast. These natural ingredients have been extensively studied for their anticancer properties, including antioxidant, anti-inflammatory, and apoptosis-inducing effects. The composition targets multiple pathways involved in cancer development and progression, offering a comprehensive approach to treatment. Additionally, the composition includes pharmaceutically acceptable excipients to ensure optimal formulation and delivery. The therapeutic herbal composition presented in this invention aims to overcome the limitations of existing cancer treatments by providing a safe, effective, and accessible alternative for cancer patients.

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



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6305280

Grant date: 04 September 2023

Registration date: 24 August 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

Dr. Sandhya Subhadra, Dr. Anoop Kumar Narayanan, Kiran Kumar Kurella, Om

Prakash Panda, Patchala Venkata Durga Lakshmi Subramanya Ravi Prakash,

Mrs. Indhumathy Pugazhendhi, Dr. Boi Basanta Kumar Reddy, Mr. Ismail Yusuf

Shaikh

in respect of the application of such design to:

HIGH SENSITIVITY FLUORESCENCE DETECTOR HPLC

International Design Classification:

Version: 14-2023

Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING
INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS

Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND
DEVICES

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Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.



- [Feedback](#)

Design number

6304211

Status

Registered

Registration date

18 August 2023

Renewal date

18 August 2028

Overview

Application date

18 August 2023

Grant date

31 August 2023

Publication date

1 September 2023

Indication of Product

Phototherapy Apparatus for Investigating Antipsoriatic Activity in Animals

Classification

Class 24 - MEDICAL AND LABORATORY EQUIPMENT

Sub class 01 - APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

Illustrations



Names and addresses

Contact (address for service)

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27 Cunningham Way, Leavesden, WATFORD, WD25 7NG

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History

No history is available for this design



Intellectual
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Certificate of Registration for a UK Design

Design number: 6298619

Grant date: 01 August 2023

Registration date: 24 July 2023

This is to certify that,

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Prof.(Dr.) Nidagurthi Guggulla Raghavendr Rao, Dr. Govind Sharma, Mr. Ashish

Kumar Pandey, Dr. Pradeep Chauhan, Mrs. Mandava Archana, Mrs. Nimittha

Alur Govindaraju, Mrs. Hamsa Gudaemaranahalli Narasimhamurthy, Dr. Arun

Shanmugam, Dr.Pratibha Bhowmick, Dr. Arindam Kolay

in respect of the application of such design to:

Continuous Glucose Monitoring Systems with Insulin Pumps

International Design Classification:

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS
AND LABORATORIES

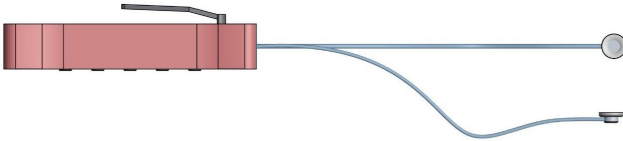
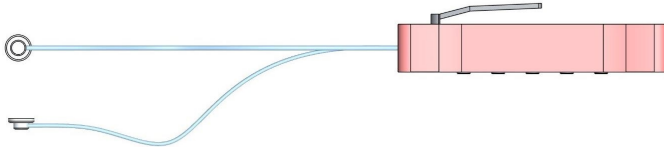
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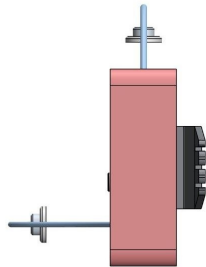
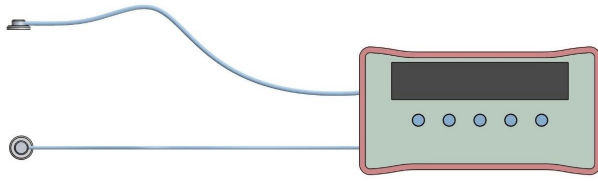
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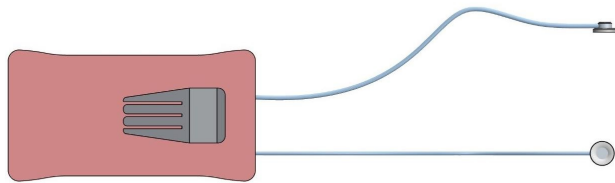
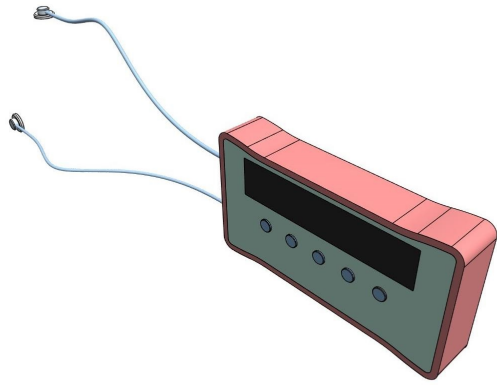
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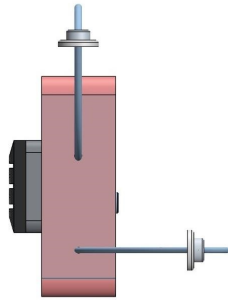


Representation of Designs









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Certificate of Registration for a UK Design

Design number: 6327603

Grant date: 28 November 2023

Registration date: 21 November 2023

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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 N. G. Raghavendra Rao, Mrs Vidhya Kurubarahalli Subramanyam, Miss.

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Lall, Mrs Kishori Nilesh Ahire, Dr. Ravi Kishor Agrawal, Dr Ramaiah Maddi, Mrs

Nivathra Venkat

in respect of the application of such design to:

Artificial Intelligence based Medicine Expiry Detector

International Design Classification:

Version: 14-2023

Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING
INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS

Subclass: 05 INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING,
SECURITY OR TESTING

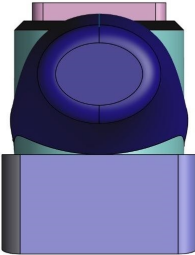
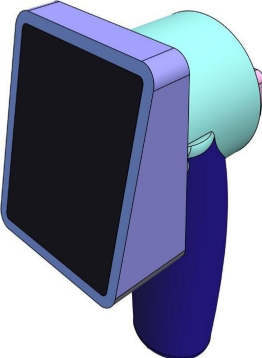
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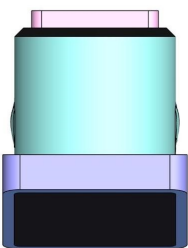
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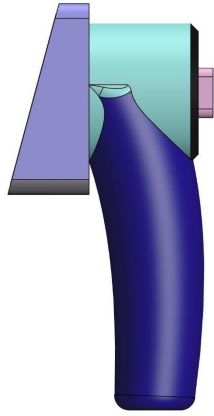
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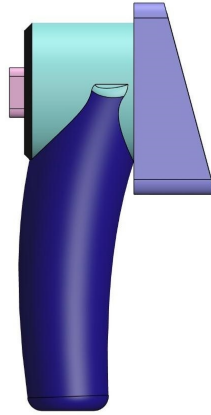


Representation of Designs









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**OFFICIAL JOURNAL
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निर्गमन सं. 40/2023
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दिनांक: 06/10/2023
DATE: 06/10/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : NEURO LINGUISTICS PROGRAMMING IN THE ENGLISH LANGUAGE USING THE ALGORITHMS OF DEEP LEARNING TECHNIQUES

(51) International classification :G06N0003040000, G06N0003080000, G09B0019060000,
G06F0040400000, H04W0004029000

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

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

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

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9)ABY JOHN
10)NAVEENA. K
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(57) Abstract :
Neuro Linguistics programming in the English language using the algorithms of Deep learning techniques is the proposed invention. The proposed invention focuses on studying the Neuro Linguistics program in the English Language. The invention focuses on analyzing the parameters of Neuro Linguistic program using algorithms of Deep Learning techniques.

No. of Pages : 13 No. of Claims : 6



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Department of Industrial Policy & Promotion,
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Government of India

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Application Details

| | |
|----------------------------------|---|
| APPLICATION NUMBER | 202341055745 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 21/08/2023 |
| APPLICANT NAME | 1 . Meiyathan M 2 . Dr. S. Kavitha 3 . Manish Kumar 4 . Dr. Mini Thekkechangarampatt 5 . Dr. K. Raghunath 6 . A. Punitha 7 . Dr. G. Jayaraman 8 . Dr. A. K. Shrivastav |
| TITLE OF INVENTION | DIFFERENTIAL EQUATION APPROXIMATION METHODS AND PROPERTIES FOR DEGENERATE Q-SPECIAL POLYNOMIALS |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | meiyathan83@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 01/09/2023 |

Application Status

| | |
|--------------------|---|
| APPLICATION STATUS | Awaiting Request for Examination |
|--------------------|---|

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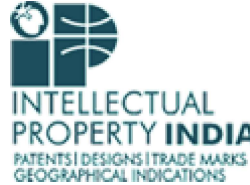
➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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Application Details

| | |
|----------------------------------|--|
| APPLICATION NUMBER | 202341031746 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 04/05/2023 |
| APPLICANT NAME | 1 . Dr. V.E. Sasikala 2 . Mrs. R.Sudha |
| TITLE OF INVENTION | ON SEMI STAR PRE STAR CLOSED SET IN TOPOLOGICAL SPACES |
| FIELD OF INVENTION | MECHANICAL ENGINEERING |
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| ADDITIONAL-EMAIL (As Per Record) | 03mrmanoj@gmail.com |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
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Application Status

| | |
|--------------------|---|
| APPLICATION STATUS | Awaiting Request for Examination |
|--------------------|---|

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➔ Filed ➔ Published ➔ RQ Filed ➔ Under Examination

➔ Disposed

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(54) Title of the invention : MACHINE LEARNING BASED MODELS TO STUDY THE IMPACT OF CONTENT AND LANGUAGE INTEGRATED LEARNING (CLIL) METHODS IN TEACHING MATHEMATICS

A₁

(51) International classification G06K0009620000, G06N0020000000, G06N0003080000, G06F0040580000, G06F0009445000
 (86) International Application No PCT/
 Filing Date 01/01/1900
 (87) International Publication No NA
 (61) Patent of Addition to Application Number NA
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 (62) Divisional to Application Number NA
 Filing Date NA

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 10) Dr A Lakshmi
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 12) Thulasimani T
 Address of Applicant Associate Professor, Department of Mathematics, Bannari Amman Institute of Technology, Sathy-638401, Erode, Tamilnadu, India -----

(57) Abstract :

MACHINE LEARNING BASED MODELS TO STUDY THE IMPACT OF CONTENT AND LANGUAGE INTEGRATED LEARNING (CLIL) METHODS IN TEACHING MATHEMATICS The goal of this application is to use deep learning to do optical character recognition (OCR). A picture is sent to an electronic device along with a language indication indicating that the image's textual information is in a first language. The picture is processed by the electronic gadget using a multilingual text recognition model that works with many different languages. The electronic equipment creates a feature sequence with many probability values matching to the image's textual content. The feature sequence consists of a number of feature subsets that relate to the different languages. Each probability value for a feature subset denotes the likelihood that a given textual content matches to a given character in the dictionary of the related language. In order to determine the textual content, the electronic gadget builds a sparse mask based on the first language and mixes it with the feature sequence. FIG.1

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



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 Department of Industrial Policy & Promotion,
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 Government of India

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Application Details

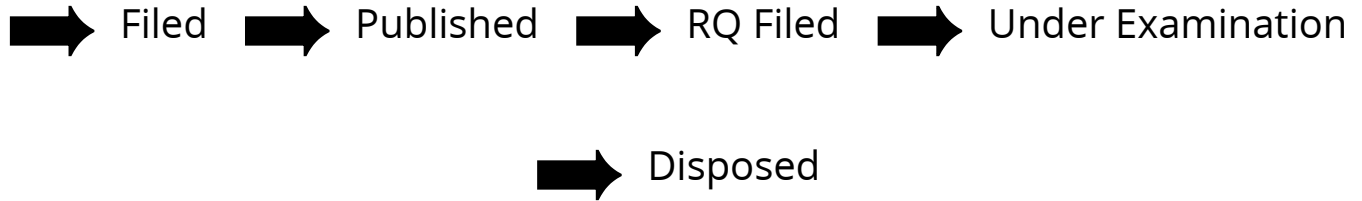
| | |
|----------------------------------|--|
| APPLICATION NUMBER | 202321064054 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 24/09/2023 |
| APPLICANT NAME | 1 . Mrs. Asha Dadaram Jadhav 2 . Dr. Nellore Manoj Kumar 3 . Mr. S. Hemanth Kumar 4 . Dr. R. Ramesh 5 . Dr. Atchuta Rao Sadu 6 . Dr. M. Nirmala 7 . Dr. R. Vijayalakshmi 8 . Mrs. Jetti Madhavi 9 . Dr. G. Jayalalitha 10 . Dr. R. Kamali |
| TITLE OF INVENTION | REAL-TIME ADAPTIVE STOCHASTIC DIFFERENTIAL EQUATION INVENTORY MODEL FOR SUPPLY CHAIN MANAGEMENT |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | 03mrmanoj@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
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| PUBLICATION DATE (U/S 11A) | 20/10/2023 |

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| Application Details | |
|----------------------------------|--|
| APPLICATION NUMBER | 202341042591 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 26/06/2023 |
| APPLICANT NAME | 1 . SK. Piramu Preethika 2 . C. Meenakshi 3 . Dr. K. Kasturi 4 . Dr. S. Jeyalaksshmi 5 . Dr. K. Rohini 6 . Dr Sangeetha Radhakrishnan 7 . A. Lakshmi 8 . N Shyamala Devi 9 . M. Yogeshwari |
| TITLE OF INVENTION | EVALUATION SYSTEM FOR STABILITY LEVEL OF MIND BY STRESS LEVEL MEASUREMENT USING DEEP LEARNING |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | |
| ADDITIONAL-EMAIL (As Per Record) | meenasi.c@gmail.com |
| E-MAIL (UPDATED Online) | |

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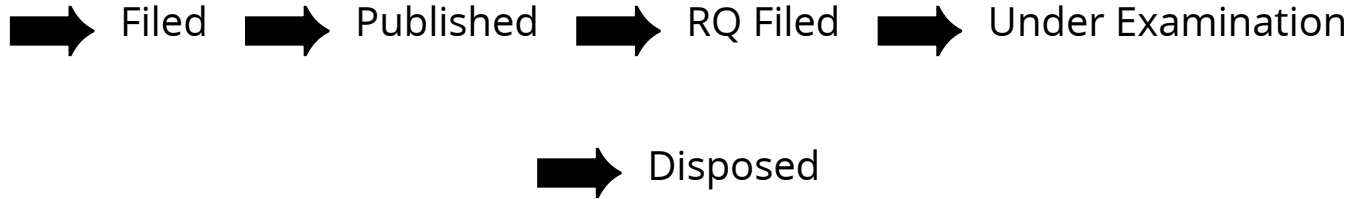
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| APPLICATION NUMBER | 202341044492 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 03/07/2023 |
| APPLICANT NAME | 1 . Dr. Honnegowda C K 2 . Mr. Satyanarayana Chilukuri 3 . Mr. Pallerla Shantan Kumar 4 . Dr. K.V. Suryanarayana Rao 5 . Dr. Nellore Manoj Kumar 6 . Dr. Kotla Revathi 7 . Dr.K.Srinivasan 8 . Mrs. Akkaraju Lalitha 9 . Mr. A Kiran Kumar |
| TITLE OF INVENTION | Graph theory based Objective measurement of attributes of website |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | 03mrmanoj@gmail.com |
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| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
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| PUBLICATION DATE (U/S 11A) | 03/11/2023 |

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| Application Details | |
|----------------------------------|--|
| APPLICATION NUMBER | 202341082923 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 05/12/2023 |
| APPLICANT NAME | 1 . Dr. M. Sreedhar Babu 2 . Dr. Indu Tyagi 3 . Dr. Nellore Manoj Kumar 4 . Dr. Ramesha M 5 . Mr. G. Charles Rabinson 6 . Dr. T. Harikrishnan 7 . Dr. Y. Madhusudhana Reddy 8 . Mrs. P. Matilda Shanthini |
| TITLE OF INVENTION | A SYSTEM FOR DEVELOPMENT OF BAYESIAN INFERENCE IN MATHEMATICAL STATISTICS |
| FIELD OF INVENTION | COMPUTER SCIENCE |
| E-MAIL (As Per Record) | 03mrmanoj@gmail.com |
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Application Details

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|--------------------|---|
| APPLICATION NUMBER | 202341073622 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 29/10/2023 |
| APPLICANT NAME | <ol style="list-style-type: none"> 1 . Saranya C 2 . Dr.Surendra Kumar Tiwari 3 . K T N Jyoti 4 . Dr. K Santosh Reddy 5 . Dr Lalit Mohan Teivedi 6 . Bindeshwari Sonant 7 . Dr. K Mamatha 8 . T. Kavitha 9 . Dr.A.Sasi Kumar 10 . Thulasimani T 11 . Dr.M.Raji 12 . Mr.V.Raju |
| TITLE OF INVENTION | ANALYSIS AND STUDY OF MATHEMATICAL OBJECT-BASED APPROACHES USED IN MACHINE LEARNING, COMPUTER VISION AND ARTIFICIAL INTELLIGENCE |
| FIELD OF INVENTION | COMPUTER SCIENCE |

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| E-MAIL (UPDATED Online) | |
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| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 15/12/2023 |

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