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Patent: Overall 2022-2024

Published 2022	Published 2023	Published 2024	Granted 2022	Granted 2023	Granted 2024	Total Published (2022-2024)	Total Granted (2022-2024)
58	50	28	16	21	15	136	52

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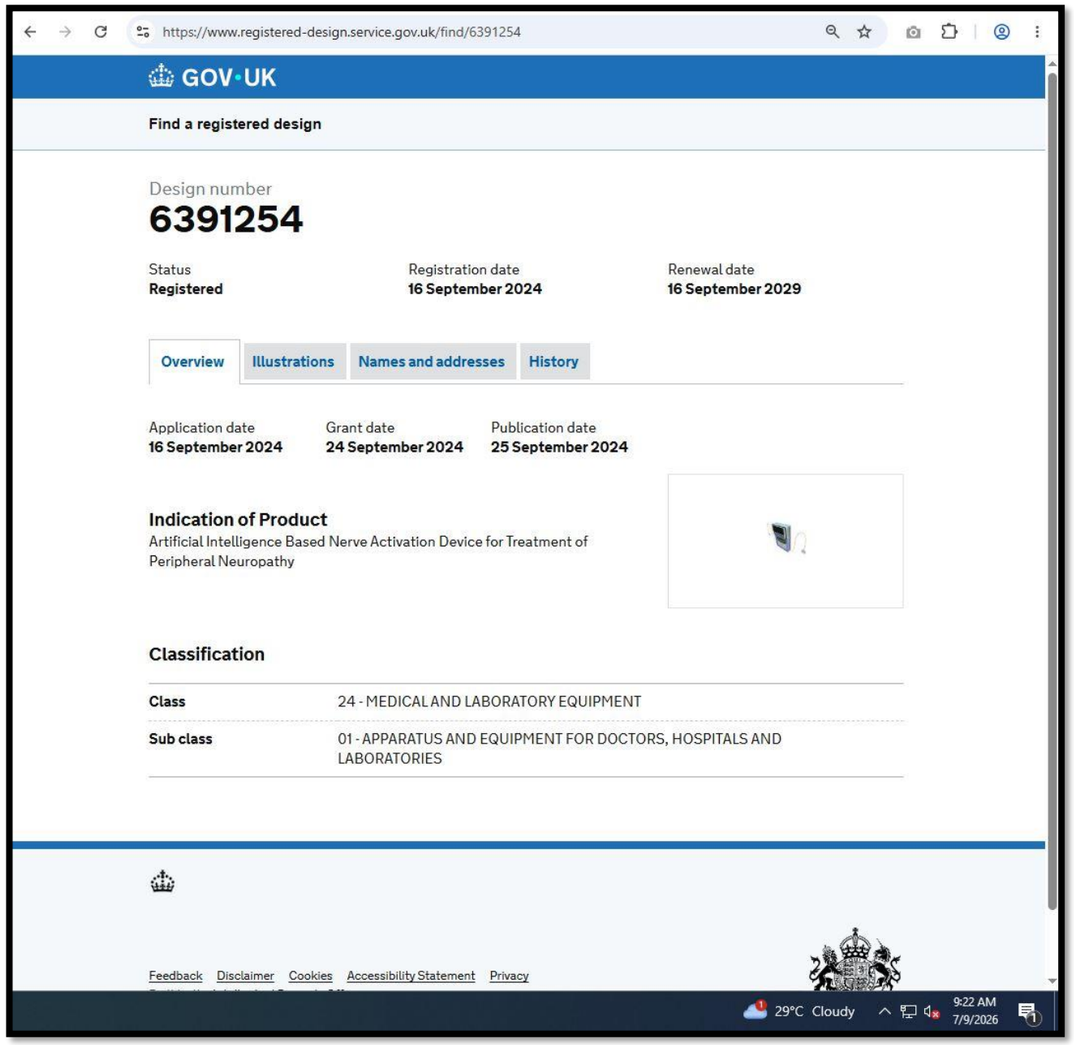
6391254 Granted Dr. Anum Kamal, Dr. Aisha Kamal,



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Design number
6391254

Status	Registration date	Renewal date
Registered	**16 September 2024**	**16 September 2029**

Overview | Illustrations | Names and addresses | History

Application date	Grant date	Publication date
16 September 2024	**24 September 2024**	**25 September 2024**

Indication of Product
Artificial Intelligence Based Nerve Activation Device for Treatment of Peripheral Neuropathy

Classification

Class	24 - MEDICAL AND LABORATORY EQUIPMENT
Sub class	01 - APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

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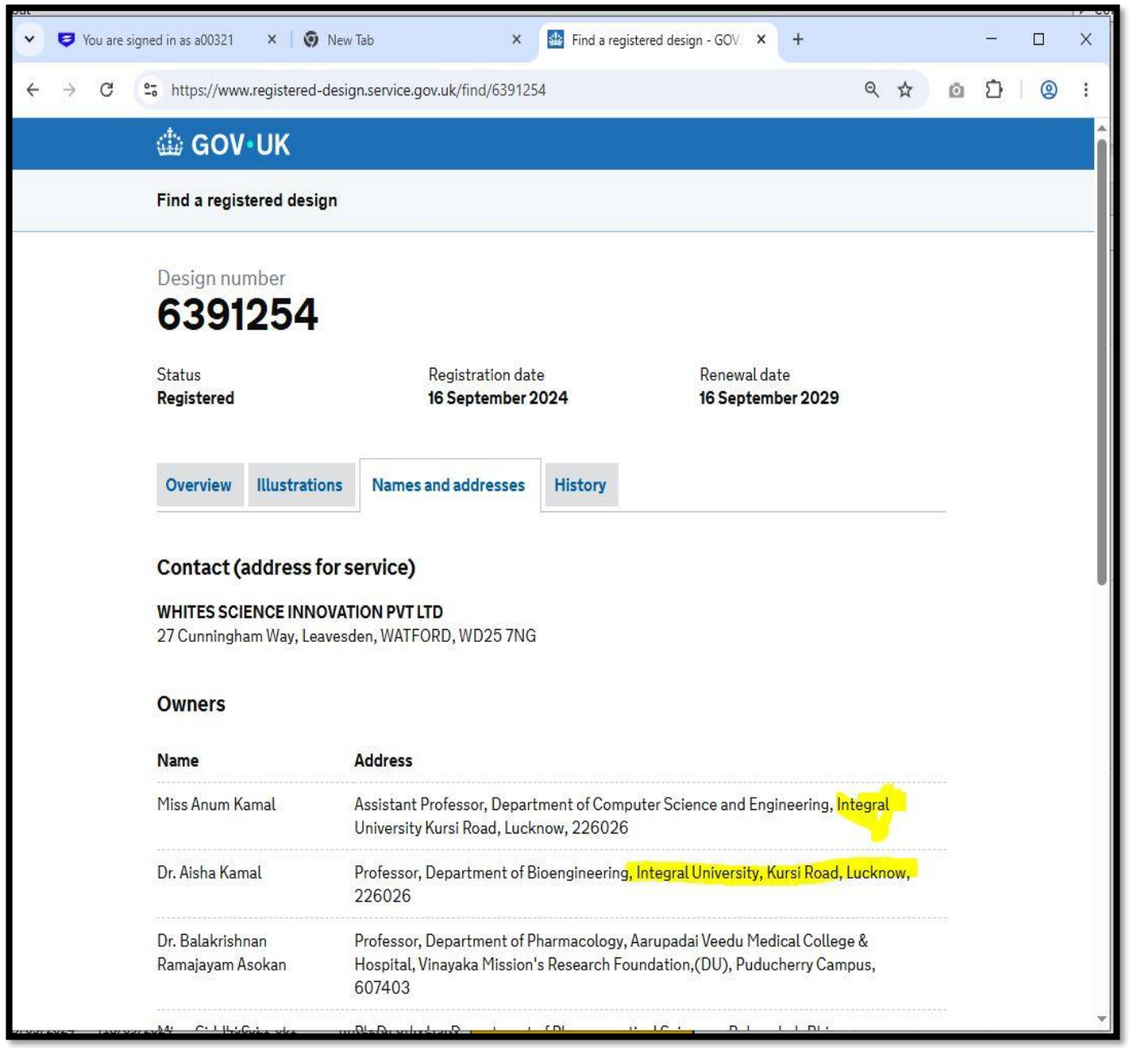

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Design number
6391254

Status	Registration date	Renewal date
Registered	**16 September 2024**	**16 September 2029**

Overview | Illustrations | Names and addresses | History

Contact (address for service)

WHITES SCIENCE INNOVATION PVT LTD
27 Cunningham Way, Leavesden, WATFORD, WD25 7NG

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Dr. Balakrishnan Ramajayam Asokan	Professor, Department of Pharmacology, Aarupadai Veedu Medical College & Hospital, Vinayaka Mission's Research Foundation,(DU), Puducherry Campus, 607403

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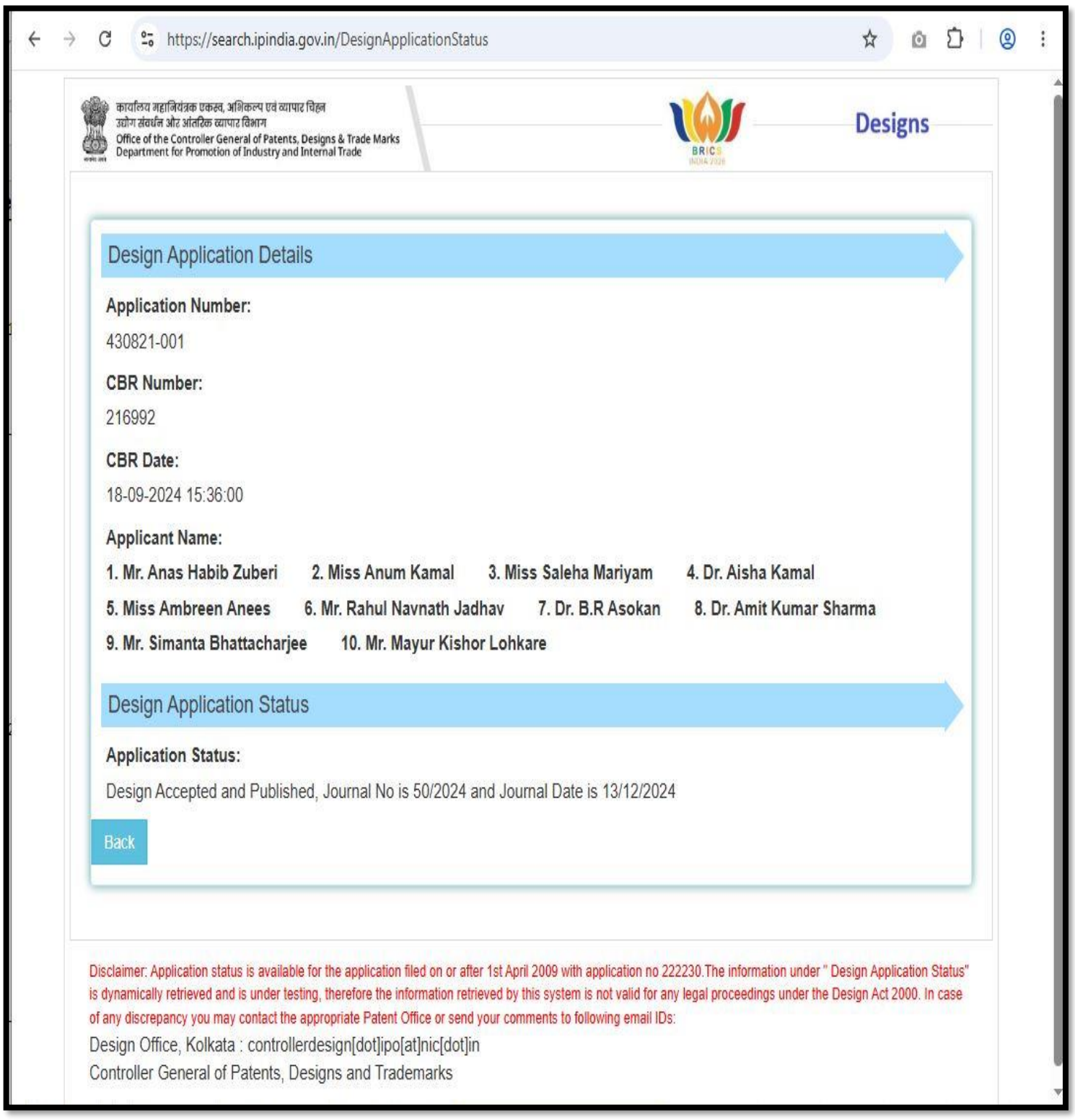
430821-001 Granted Mr. Anas Habib Zuberi, Miss Anum Kamal, Miss Saleha Mariyam, Dr. Aisha Kamal, Miss Ambreen Anees,



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कार्यालय महानियंत्रक एकस्व, अभिकल्प एवं व्यापार चिह्न
उद्योग संवर्धन और आंतरिक व्यापार विभाग
Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade

Designs

Design Application Details

Application Number:

430821-001

CBR Number:

216992

CBR Date:

18-09-2024 15:36:00

Applicant Name:

1. Mr. Anas Habib Zuberi 2. Miss Anum Kamal 3. Miss Saleha Mariyam 4. Dr. Aisha Kamal
5. Miss Ambreen Anees 6. Mr. Rahul Navnath Jadhav 7. Dr. B.R Asokan 8. Dr. Amit Kumar Sharma
9. Mr. Simanta Bhattacharjee 10. Mr. Mayur Kishor Lohkare

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 50/2024 and Journal Date is 13/12/2024

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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:

Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

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6383996 Granted Dr. Bably Dolly

Design number
6383996

Status	Registration date	Renewal date
Registered	**10 August 2024**	**10 August 2029**

Overview | Illustrations | Names and addresses | History

Contact (address for service)

SHARK IPR SERVICE
13-15 TRAFALGAR ROAD, BLACKPOOL, FY1 6AW

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Puneet Kumar Aggarwal	Associate Professor, Department of Information Technology, Abes Engineering College, Ghaziabad, Delhi-Ncr

INTEGRAL UNIVERSITY
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6403643 Granted Dr. Bably Dolly

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6403643

Grant date: 18 November 2024

Registration date: 11 November 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. Amardeep Gupta, Dr Bably Dolly, Dr. Sunil Babu Melingi, Mr.Meriga Kiran Kumar, Dr.Anandhan Mahendran, Prof. Ananda Shankar Hati, Dr Muthukumar Krishnan

in respect of the application of such design to:

Sensor Based Robotic Display For Interactive Marketing

International Design Classification:
Version: 14-2023
Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED
Subclass: 99 MISCELLANEOUS

Adam Williams

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.

THE PATENT OFFICE OFFICIAL

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

431810001 Granted Dr. Shrish Bajpai

Granted

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ORIGINAL
क्रम सं/ Serial No. : 186011

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. : 431810-001

तारीख / Date : 26/09/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *RADIO FREQUENCY POWER AMPLIFIER DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 14-03 में 1.Mr S Mahalingam 2. Dr K Dhivya 3.Dr Shrish Bajpai 4.Dr Divya Sharma 5.Dr Prashant Sunagar 6.Mr R Venkatesh के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-03 in respect of the application of such design to *RADIO FREQUENCY POWER AMPLIFIER DEVICE* in the name of 1.Mr S Mahalingam 2. Dr K Dhivya 3.Dr Shrish Bajpai 4.Dr Divya Sharma 5.Dr Prashant Sunagar 6.Mr R Venkatesh.

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

Head
Department of ECE
Integral University, Lucknow

जारी करने की तिथि :
Date of Issue : 28/11/2024

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

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6378283 Granted Dr. Nupur Mittal

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Granted

ind a registered design

- Feedback

Design number

6378283

Status
Registered

Registration date
15 July 2024

Renewal date
15 July 2029

Overview

Application date
15 July 2024

Grant date
22 July 2024

Publication date
23 July 2024

Indication of Product
Charging Station for Hybrid Electric Vehicles

Classification

Class	13 - EQUIPMENT FOR PRODUCTION, DISTRIBUTION OR TRANSFORMATION OF ELECTRICITY
Sub class	02 - POWER TRANSFORMERS, RECTIFIERS, BATTERIES AND ACCUMULATORS

Illustrations

Head
Department of ECE
Integral University, Lucknow

Disclaimer
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Designs

ames and addresses

Contact (address for service)

Vats IPR Services
13-15 TRAFALGAR ROAD, BLACKPOOL, FY1 6AW

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Anthony Savio Herminio da Piedade Fernandes	Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, North Goa, Goa (403507)

History

No history is available for this design

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Integral University, Lucknow

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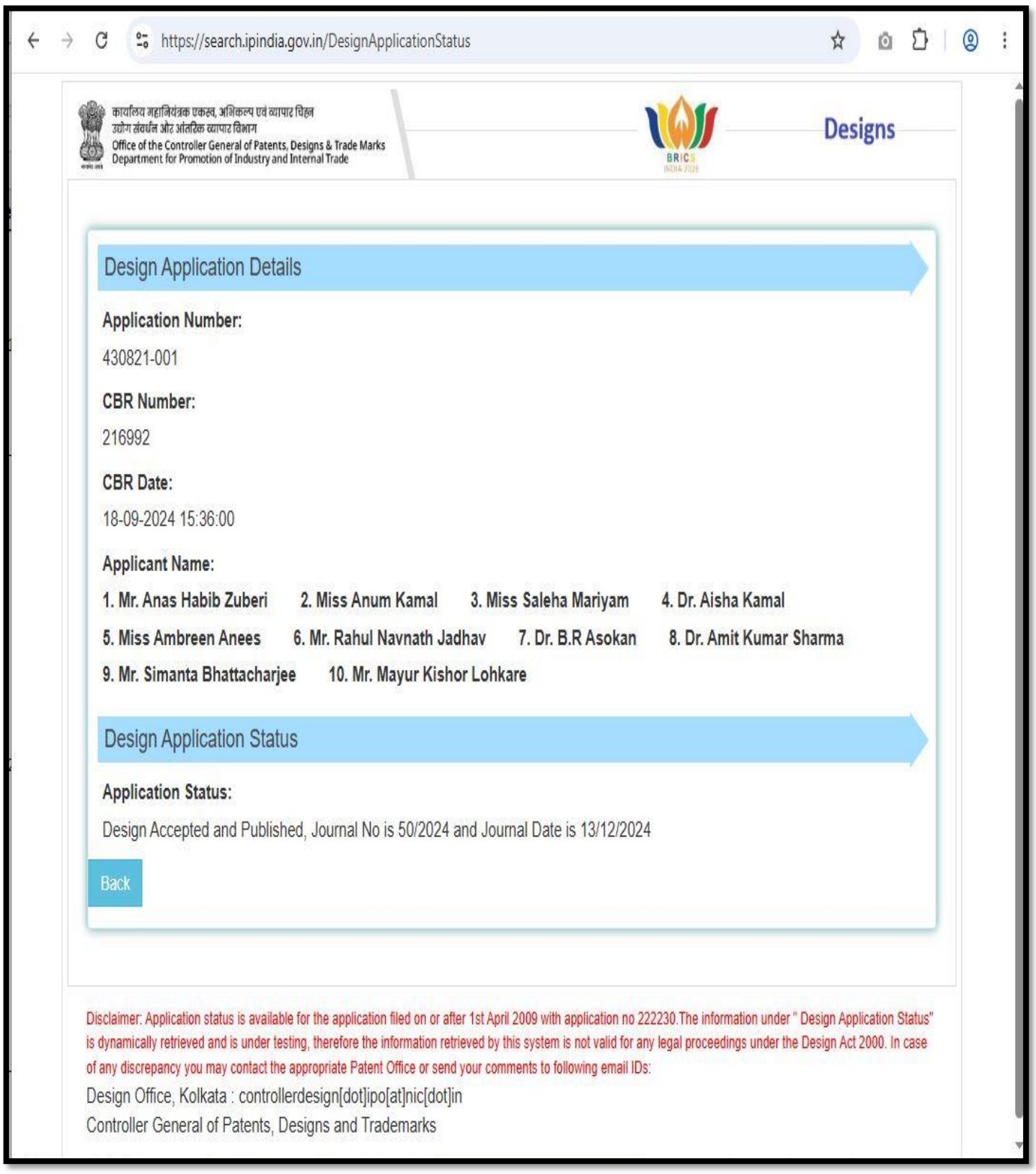

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Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade

Designs

Design Application Details

Application Number:

430821-001

CBR Number:

216992

CBR Date:

18-09-2024 15:36:00

Applicant Name:

1. Mr. Anas Habib Zuberi **2. Miss Anum Kamal** **3. Miss Saleha Mariyam** **4. Dr. Aisha Kamal**
5. Miss Ambreen Anees **6. Mr. Rahul Navnath Jadhav** **7. Dr. B.R Asokan** **8. Dr. Amit Kumar Sharma**
9. Mr. Simanta Bhattacharjee **10. Mr. Mayur Kishor Lohkare**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 50/2024 and Journal Date is 13/12/2024

Back

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:

Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6391254 Granted Ms. Anum Kamal

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6391254

Grant date: 24 September 2024

Registration date: 16 September 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

Miss Anum Kamal, Dr. Aisha Kamal, Dr. Balakrishnan Ramajayam Asokan, Miss. Siddhi Srivastava, Miss Jayshreemaa Biswal, Mrs. Kavya Chandran, Ms. Aishwaryah Selvam, Dr. Rohit Baban Chavhan, Ms. Sapna Rani, Mr. Rounak Jaiswal

in respect of the application of such design to:

Artificial Intelligence Based Nerve Activation Device for Treatment of Peripheral Neuropathy

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

370349-001 Granted Dr. Imran Ullah Khan

ORIGINAL

मूल/No : 121926

सत्यमेव जयते

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

डिजाइन सं. / Design No.	:	370349-001
तारीख / Date	:	03/09/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MULTIUTILITY SMART PLUG** से संबंधित है, का पंजीकरण, श्रेणी **13-03** में 1.Dr. Shashi Kant Gupta 2. Dr. Imran Ullah Khan 3.Dr. Bhuvanesh Kumar Sharma 4.Dr. Ashish Kumar Pandey के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **13-03** in respect of the application of such design to **MULTIUTILITY SMART PLUG** in the name of 1.Dr. Shashi Kant Gupta 2. Dr. Imran Ullah Khan 3.Dr. Bhuvanesh Kumar Sharma 4.Dr. Ashish Kumar Pandey.

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

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

निर्गमन की तारीख/Date of Issue : 26/12/2022

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

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

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6286024 Granted Dr. Sumita Chaturvedi

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6286024

Grant date: 08 June 2023

Registration date: 27 May 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. Kakoli Banerjee, Nitin Mishra, Dr. Sumita Chaturvedi, Dr. Prashant Prakashrao Pangrikar, Mr. Dwity Sundar Rout, Dr. Sandeep Rout

In respect of the application of such design to:

ML BASED ROBOT FOR DETERMINING CROP YIELD

International Design Classification:
Version: 14-2023
Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED
Subclass: 99 MISCELLANEOUS

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

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

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202023101613 Granted Dr. Imran Ullah Khan

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2023 101 613

Bezeichnung:
Auf künstlicher Intelligenz basierendes System mit dynamischer Verschlüsselung für die sichere Verwaltung von Gesundheitsdaten in der Telemedizin

IPC:
G16H 10/60

Inhaber/Inhaberin:
Ahmad, Saheem, Dr., Lucknow, Uttar Pradesh, IN
Dixit, Chandra Kumar, Dr., Lucknow, Uttar Pradesh, IN
Gupta, Shashi Kant, Dr., Lucknow, Uttar Pradesh, IN
Haralayya, Bhadrappa, Dr., Kalaburagi, Karnataka, IN
Karras, Dimitrios Alexios, Prof. Dr., Tirana, AL
Khan, Imran Ullah, Dr., Firozabad, Uttar Pradesh, IN
Khan, Saif, Dr., Lucknow, Uttar Pradesh, IN
Mishra, Alok, Dr., Gaya, Bihar, IN
Pal, Saurabh, Dr., Ayodhya, Uttar Pradesh, IN
Pandey, Mithilesh Kumar, Ballia, Uttar Pradesh, IN
Singh, Prabhdeep, Lucknow, Uttar Pradesh, IN
Tran, Tien Anh, Dr., Hai Phong City, VN

Tag der Anmeldung:
30.03.2023

Tag der Eintragung:
07.06.2023

Die Präsidentin des Deutschen Patent- und Markenamts

Eva Schewior

München, 07.06.2023

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6291024 Granted Qazi Saeed Ahmad

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6291024

Grant date: 27 June 2023

Registration date: 18 June 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, has been registered as of the date of registration shown above in the name of

Dr. Suman Dahiya, Dr. Manasi Vyankatesh Ghamande, Mohammad Mushaib,

Er. Qazi Saeed Ahmad, Dr.Sundararajan Suma Christal Mary, Dr. Elumalai

Thenmozhi

in respect of the application of such design to:

Wifi-based Smart Shopping Cart

International Design Classification:
Version: 14-2023
Class: 12 MEANS OF TRANSPORT OR HOISTING
Subclass: 02 HANDCARTS, WHEELBARROWS

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

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6291241 Granted Dr. Sumita Chaturvedi

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6291241

Grant date: 30 June 2023

Registration date: 19 June 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. Sumita Chaturvedi, Dr. Pallavi Himanshu Agrawal, Er. Vinod Kumar, Er.

Anurag Sharma, Dr. Saurabh Kumar Yadav, Dr. Chandra Bahadur Khatri, Dr.

Samriti Mahajan

in respect of the application of such design to:

NOVEL IOT BASED COMPUTERISED NUMERICAL CONTROL FIBER LASER

COMPOSITE MATERIAL CUTTING MACHINE

International Design Classification
Version: 14-2023
Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED
Subclass: 06 TEXTILE, SEWING, KNITTING AND EMBROIDERING MACHINES, INCLUDING THEIR INTEGRAL PARTS

Adam Williams

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202023104310 Granted Dr, Sumita Chaturvedi, Dr. Jahanarah Khatoon, Uday Veer Singh

Bundesrepublik Deutschland

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2023 104 309

Bezeichnung:

Ein IoT-basiertes automatisches System zur Herstellung von biologischem Vermi-Kompost

IPC:

C05F 17/90

Inhaber/Inhaberin:

Arora, Kavita, Dr., Faridabad, Haryana, IN
Chaturvedi, Sumita, Dr., Lucknow, Uttar Pradesh, IN
Darji, Yashesh Anilkumar, Patan, Gujarat, IN
Dash, Bishnuprasad, Dr., Ranpur, Odisha, IN
Kalra, Nishi, Faridabad, Haryana, IN
Kaur, Amrinder, Dr., Faridabad, Haryana, IN
Khadkikar, Prajakta Ajay, Dr., Pune, Maharashtra, IN
Khan, Farhina Sardar, Dr., Lucknow, Uttar Pradesh, IN
Khatoon, Jahanarah, Lucknow, Uttar Pradesh, IN
Mahajan, Rupali Atul, Dr., Pune, Maharashtra, IN
Nagpal, Tapsi, Dr., Faridabad, Haryana, IN
Padhy, Jagannath, Ganjam, Odisha, IN
Panda, Prafulla Kumar, Dr., Berhampur, Odisha, IN
Iyer, Sailesh, Dr., Ahmedabad, Gujarat, IN
Sakhare, Nitin Nandkumar, Pune, Maharashtra, IN
Singh, Uday Veer, Gola Gokarna Nath, Uttar Pradesh, IN
Subramaniam, Sangeetha, Karur, Tamil Nadu, IN

Tag der Anmeldung:

31.07.2023

Tag der Eintragung:

01.09.2023

Die Präsidentin des Deutschen Patent- und Markenamts

Eva Schewior

München, 01.09.2023

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6304591 Granted Dr. Sumita Chaturvedi, Dr. Prem Kumar Bharti

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6304591

Grant date: 31 August 2023

Registration date: 20 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. Sumita Chaturvedi, Dr. Prem Kumar Bharti, Dr. Amit Porwal, Er. Ankit

Srivastava, Dr. Saurabh Kumar Yadav, Prof. (Dr.) Parul Gupta, Shubham Singh,

Dr. Namrata Gain, Dr. Kaberi Das

in respect of the application of such design to:

Quad laser Optics Metal Additive Manufacturing Machine

International Design Classification:
Version: 14-2023
Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED
Subclass: 05 MACHINE TOOLS, ABRADING AND FOUNDING MACHINERY

Adam Williams

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

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202022101070 Granted Prof. Alvina Farooqui

(19) Deutsches Patent- und Markenamt

(10) **DE 20 2022 101 070 U1** 2022.04.14

(12) **Gebrauchsmusterschrift**

(21) Aktenzeichen: **20 2022 101 070.6**
(22) Anmeldetag: **24.02.2022**
(47) Eintragungstag: **09.03.2022**
(45) Bekanntmachungstag im Patentblatt: **14.04.2022**

(51) Int Cl.: ***A61K 36/28*** (2006.01)
A61K 33/38 (2006.01)
A61P 13/12 (2006.01)

(73) Name und Wohnsitz des Inhabers:
Dash, Pragyandip Parthasarathi, Dr., Lucknow, UP, IN; Dwivedi, Deepti, Ayodhya, UP, IN; Farooqui, Alvina, Dr., Lucknow, UP, IN; Islam, Anas, Lucknow, UP, IN; Mishra, Anuradha, Dr., Lucknow, UP, IN; Saraswat, Nikita, Dr., Pune, MH, IN; Siddiqui, Mohd Aftab, Dr., Lucknow, UP, IN; Singh, Satya Prakash, Dr., Ayodhya, UP, IN; Verma, Preeti, Saharanpur, UP, IN

(74) Name und Wohnsitz des Vertreters:
Hohendorf Kierdorf Patentanwälte PartGmbB, 50672 Köln, DE

Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen.

(54) Bezeichnung: **Nephroprotectant für akute Nierenverletzung**

(57) Hauptanspruch: Kräuterformulierung zur Behandlung einer akuten Nierenschädigung, dadurch gekennzeichnet, dass die Formulierung einen Extrakt aus einem Teil einer Kräuterpflanze umfasst, die Silybum marium und zusätzliche Hilfsstoffe umfasst.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

2021103141 Granted Dr. Sandeep Kumar Nayak

Australian Government
IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2021103141

The Commissioner of Patents has granted the above patent on 11 May 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Vipin Khattri of Research Scholar, Department of Computer Application, Integral University, Dasauli Bas-ha Kursi Road, Lucknow, Uttar Pradesh 226026 India

Sandeep Kumar Nayak of Associate Professor, Department of Computer Application, Integral University, Dasauli Bas-ha Kursi Road, Lucknow, Uttar Pradesh 226026 India

Deepak Kumar Singh of Adjunct Professor, Jaipuria Institute of Management, Vineet Khand, Gomti Nagar Lucknow, Uttar Pradesh 226010 India

Title of invention:

FRAUD DETECTION-DECISION SUPPORT SYSTEM FOR PLASTIC CARD BASED TRANSACTION SYSTEM THROUGH SECURING THE USER'S END AND METHOD THEREOF

Name of inventor(s):

Khattri, Vipin; Nayak, Sandeep Kumar and Singh, Deepak Kumar

Term of Patent:

Eight years from 6 June 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 11th day of May 2022

Commissioner of Patents

COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

PATENTS ACT 1990

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

This data, for application number 2021103141, is current as of 2022-11-15 21:00 AEST

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202022102834 Granted Mr. Asfaq Dr. Faria Fatima Prof. Saba Siddiqui

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 102 834

Bezeichnung:
Solarbasiertes tragbares Hydroponiksystem

IPC:
A01G 31/06

Inhaber/Inhaberin:
Asfaq, Asfaq, Lucknow, UP, IN
Fatima, Faria, Lucknow, UP, IN
Hasanain, Mohammad, Lucknow, UP, IN
Nasir, Gazia, Lucknow, UP, IN
Siddiqui, Saba, Lucknow, UP, IN

Tag der Anmeldung:
23.05.2022

Tag der Eintragung:
03.06.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 03.06.2022

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202022103801 Granted Dr. Imran Ullah Khan

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 801

Bezeichnung:

Ein intelligentes Finanzverwaltungssystem für E-Commerce-Websites zur Analyse von Preisen und Gewinnen durch maschinelles Lernen

IPC:

G06Q 30/00

Inhaber/Inhaberin:

Alemran, Ahmed, Dr., Al Amarah, IQ
Dixit, Chandra Kumar, Dr., Lucknow, Uttar Pradesh, IN
Gupta, Shashi Kant, Dr., Lucknow, Uttar Pradesh, IN
Haralayya, Bhadrappa, Dr., Kalaburagi, Karnataka, IN
Husain, Firoz, Dr., Lucknow, Uttar Pradesh, IN
Karras, Dimitrios A., Prof. Dr., Tirana, AL
Khan, Abdul Tayyab, Dr., Lucknow, Uttar Pradesh, IN
Khan, Imran Ullah, Dr., Firozabad, Uttar Pradesh, IN
Pathak, Anchal, Dr., Bule Hora, ET
Singh, Hemant Kumar, Dr., Lucknow, Uttar Pradesh, IN
Singh, Prabhdeep, Lucknow, Uttar Pradesh, IN
Tran, Tien Anh, Dr., Hai Phong City, VN

Tag der Anmeldung:

07.07.2022

Tag der Eintragung:

02.08.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 02.08.2022

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202209667 Granted Dr. Shailendra Kumar

REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

GUPTA, TARUN KUMAR; PANDEY, AMIT KUMAR; CHAURASIA, VIJAYSHRI; KUMAR, ANA; VAISHYA, RAHUL O; PATEL, PRAMOD KUMAR; MAGRAIYA, VIJAY KUMAR; SHRIVASTAVA, YOGESH; KORI, SHIV PRASAD; KUMAR, SHAILENDRA

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/09667

A copy of the complete specification is annexed, together with the relevant Form P2.

mony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the 30th day of **November 2022**

Registrar of Patents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

2022/11202 Granted Prof. Abdul Rahman Khan

REPUBLIC OF SOUTH AFRICA REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

KANT, RAVI; AMETA, KESHAV LALIT; KHAN, IFTIKHAR AHMAD; KHAN, ABDUL RAHMAN; SHARMA, DINESH KUMAR; RANI, PREETI; PANDEY, JAYA; KUMAR, ATUL

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/11202

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the **21st** day of **December 2022**

Registrar of Patents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

414686-001 Granted Dr. Imran Hussain

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 172236

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. : 414686-001

तारीख / Date : 24/04/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *CANCER CELL TRANSFORMATION DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Mirza Masroor Ali Beg 2. Dr. Ravi K. Deshwal 3.Dr. Haroon Habib Beigh 4.Dr. Nawaid Hussain Khan 5.Dr. Imran Hussain के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *CANCER CELL TRANSFORMATION DEVICE* in the name of 1.Dr. Mirza Masroor Ali Beg 2. Dr. Ravi K. Deshwal 3.Dr. Haroon Habib Beigh 4.Dr. Nawaid Hussain Khan 5.Dr. Imran Hussain.

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

उन्नत पी पंडित

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

जारी करने की तिथि :
Date of Issue : 06/06/2024

*पारस्परिकता 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

423194-001 Granted Dr. Naimur Rahman Kidwai, Dr. Saba Siddiqui

INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्र. सं/ Serial No. : 179043

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. : 423194-001

तारीख / Date : 15/07/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *CROP HEALTH MONITORING DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 15-03 में 1.Ms. Meena Kumari 2. Dr. Naimur Rahman Kidwai 3.Dr. Shimi. S. L. 4.Dr. Saba Siddiqui 5.Mr. Aryan Vashisth 6.Ms. Anshu Khare 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 15-03 in respect of the application of such design to *CROP HEALTH MONITORING DEVICE* in the name of 1.Ms. Meena Kumari 2. Dr. Naimur Rahman Kidwai 3.Dr. Shimi. S. L. 4.Dr. Saba Siddiqui 5.Mr. Aryan Vashisth 6.Ms. Anshu Khare.

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

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

जारी करने की तिथि :
Date of Issue : 27/06/2024

पेटेंटों, डिजाइन और ट्रेड मार्क्स के महानियंत्रक
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई है) 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 नियमों 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

431245-001 Granted Dr. Malik Mobeen Ahmad, Prof. Saba Siddiqui, Dr. Tanseem Ahmed, Prof. Mohammad Faisal, Dr. Halima Sadia

INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्र. सं/ Serial No. : 179043

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. : 423194-001

तारीख / Date : 15/07/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *CROP HEALTH MONITORING DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 15-03 में 1.Ms. Meena Kumari 2. Dr. Naimur Rahman Kidwai 3.Dr. Shimi. S. L. 4.Dr. Saba Siddiqui 5.Mr. Aryan Vashisth 6.Ms. Anshu Khare के नाम से 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 15-03 in respect of the application of such design to *CROP HEALTH MONITORING DEVICE* in the name of 1.Ms. Meena Kumari 2. Dr. Naimur Rahman Kidwai 3.Dr. Shimi. S. L. 4.Dr. Saba Siddiqui 5.Mr. Aryan Vashisth 6.Ms. Anshu Khare.

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

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

जारी करने की तिथि :
Date of Issue : 27/06/2024

उन्नत पी पंडित

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

*पारस्परिकता 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 नियमों 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

474293 Granted Mohammed Arifuddin Mallick, Mohammad Asim, M M Shadab

INTELLECTUAL PROPERTY INDIA

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

पेटेंट प्रमाण पत्र | Patent Certificate

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

पेटेंट सं. / Patent No : 474293

आवेदन सं. / Application No. : 3474/DEL/2015

फाइल करने की तारीख / Date of Filing : 27/10/2015

पेटेंटी / Patentee : 1.DR. MOHAMMED ARIFUDDIN MALLICK 2.MOHAMMED ASIM 3.MIRZA MOHAMMAD SHADAB

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में वर्णित *A LOW COST SOLAR VISCOMETER* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2015 के सत्ताईसवें 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 *A LOW COST SOLAR VISCOMETER* as disclosed in the above mentioned application for the term of 20 years from the 27th day of October 2015 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख Date of Grant : 29/11/2023

पेटेंट नियंत्रक Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए शुल्क, यदि इसे बनाए रखना हो, अक्टूबर 2017 के सत्ताईसवें दिन को देय होगा और उसके बाद हर वर्ष उसी तारीख को देय होगा।

Note.- The fees for renewal of this patent, if it is to be maintained, will fall due on 27th day of October 2017 and on the same day in every year thereafter

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

440217-001 Published Dr. Sheeba Parveen

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS GEOGRAPHICAL INDICATIONS

ORIGINAL
क्रम सं/ Serial No. : 231371

सत्यमेव जयते

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. : 492484-001

तारीख / Date : 24/02/2026

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *STRESS DETECTION DEVICE USING ML* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. ELANGOVAN GURUVA REDDY 2. Dr. V. KANNAN 3.Dr. I. MANIMOZHI 4.Dr. T. NALLUSAMY 5.Dr. SHEEBA PRAVEEN 6.Ms. D. MAITHRA 7.Dr. MUKTESWAR PATRA 8.Dr. Vinay Avasthi के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *STRESS DETECTION DEVICE USING ML* in the name of 1.Dr. ELANGOVAN GURUVA REDDY 2. Dr. V. KANNAN 3.Dr. I. MANIMOZHI 4.Dr. T. NALLUSAMY 5.Dr. SHEEBA PRAVEEN 6.Ms. D. MAITHRA 7.Dr. MUKTESWAR PATRA 8.Dr. Vinay Avasthi.

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

जारी करने की तिथि : 27/04/2026
Date of Issue :

उन्नत पाठक पंडित

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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*पारस्परिकता 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।

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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411039019 A Published, Gazia Nasir, Prof. Mohammad Haris Siddiqui

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/05/2024

(21) Application No.202411039019 A
(43) Publication Date : 28/06/2024

(54) Title of the invention : SOLAR POWERED PORTABLE HYDROPONIC SETUP FOR SEED GERMINATION

(51) International classification	:A01G31/02, A01G31/06, A01C1/02, H02J7/35
(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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(57) Abstract :
ABSTRACT The present invention pertains seed germination system and, more specifically, to a solar-based hydroponics crop germination system comprising a hydroponic structure made up of aluminum sheets, a solar panel is installed at the top of the structure to absorb sunlight; a battery connected to the solar panel to store energy received from sun, a solar charger controller to shows the status of the battery, a blue LED light act as a chlorophyll production for crops, a hydroponic net cups to grow plants.

No. of Pages : 34 No. of Claims : 8

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411044095 A Published, Gazia Nasir, Prof. Mohammad Haris Siddiqui,

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/06/2024

(21) Application No.202411044095 A
(43) Publication Date : 28/06/2024

(54) Title of the invention : A DOMESTIC PORTABLE HYDROPHONIC SYSTEM

(51) International classification	:A01G31/02, A01G31/06, A01G27/00
(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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Address of Applicant :Assistant Professor cum Scientist, College of Agricultural Engineering and Technology Sher-e Kashmir University of Agriculture Sciences and Technology of Kashmir, Shalimar, 190025, Srinagar Jammu and Kashmir, India ---------- ----------
6)Dr. Ambreesh Singh Yadav
Address of Applicant :Associate Professor (Agronomy); Department of Agriculture, Integral Institute of Agricultural Science & Technology, Integral University, Kursi Road, Lucknow-226 026, India ---------- ----------

(57) Abstract :
ABSTRACT The present invention discloses a domestic portable hydroponic system to grow plants with full portability allowing omnidirectional relocation, facilitating with easy assembly of variable height adjustment platform and minimal space utility. The system comprises a deep flow type hydroponic setup supported by a frame with four caster wheels, connecting rods, plant holding tubular platform, nutrition tank for supplying nutrient mixture to the plants.

No. of Pages : 28 No. of Claims : 9

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202431089110 A Published, Dr. Ashish, Dr. Khwaja Osama,

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/11/2024

(21) Application No.202431089110 A
(43) Publication Date : 22/11/2024

(54) Title of the invention : A PROCESS AND SYSTEM FOR ENHANCED BIODEGRADATION OF PLASTIC WASTE USING GENETICALLY ENGINEERED MICROORGANISMS

(51) International classification	:C12N0009180000, C08J0011100000, C12N0015700000, B09B0003000000, C12P0007440000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)Prof. V. Samuel Raj
4)Dr. Anusuya Debnath
5)Dr. Harengiri Gosai
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7)Dr. Ashish
8)Dr. Nalinee Kumari
9)Dr. Khwaja Osama
10)Vivek Raj
Name of Applicant : NA
Address of Applicant : NA
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1)Dr. Santanu Koley
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7)Dr. Ashish
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8)Dr. Nalinee Kumari
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9)Dr. Khwaja Osama
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10)Vivek Raj
Address of Applicant :S/o. Mr. Upendra Kumar, Assistant Professor, Department of Biotechnology, Patna Women's College, Avila Convent, Bailey Road, Patna - 800001, Bihar, India. Patna ---------- ----------

(57) Abstract :
The present invention relates to the development of genetically engineered microorganisms designed for the efficient biodegradation of plastic waste. This innovative approach addresses the growing environmental challenge posed by plastic pollution by utilizing microbial strains, such as Escherichia coli and Pseudomonas putida, genetically modified to express plastic-degrading enzymes like PETase and MHETase. These enzymes accelerate the breakdown of synthetic plastics, including polyethylene (PE) and polyethylene terephthalate (PET), into environmentally benign byproducts such as carbon dioxide and water. The microorganisms are further optimized through directed evolution and metabolic engineering to enhance enzyme activity, stability, and byproduct utilization. This technology offers a scalable, eco-friendly solution for plastic waste management, applicable in industrial waste treatment plants, landfills, and polluted natural environments. The invention promises significant advancements in reducing plastic pollution and promoting sustainable environmental practices.

No. of Pages : 20 No. of Claims : 8

DE202024103928U1 Published, Dr. Ahamad Faiz Khan

(19) Deutsches Patent- und Markenamt

(10) **DE 20 2024 103 928 U1** 2024.11.14

(12) **Gebrauchsmusterschrift**

(21) Aktenzeichen: **20 2024 103 928.9**
(22) Anmeldetag: **15.07.2024**
(47) Eintragungstag: **07.10.2024**
(45) Bekanntmachungstag im Patentblatt: **14.11.2024**

(51) Int Cl.: ***G16H 50/30*** (2018.01)
A61B 5/00 (2006.01)
G01J 3/30 (2006.01)

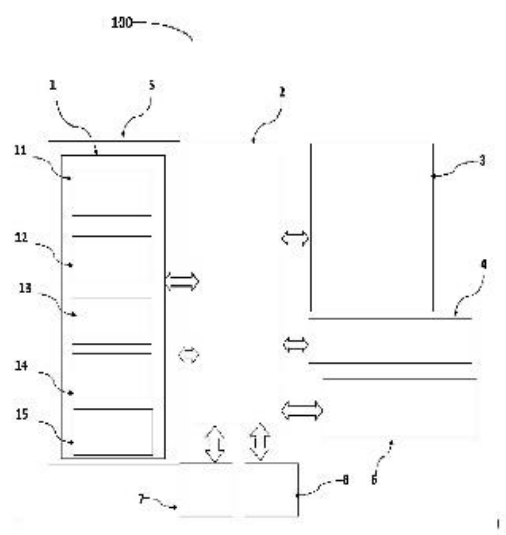
(73) Name und Wohnsitz des Inhabers:
Chopra, Deepti, Dr., Lucknow, Uttar Pradesh, IN; Khan, Ahamad Faiz, Dr., Lucknow, Uttar Pradesh, IN; Kumar, Sandeep, Dr., Birmingham, AL, US; Srivastav, Ajeet Kumar, Dr., Gurugram, Haryana, IN; Verma, Ankit, Dr., Jerusalem, IL

(74) Name und Wohnsitz des Vertreters:
LIPPERT STACHOW Patentanwälte Rechtsanwälte Partnerschaft mbB, 46117 Oberhausen, DE

Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen.

(54) Bezeichnung: **Fortschrittliches UV-A- und UV-B-basiertes Überwachungssystem für ein optimales Hautgesundheitsmanagement**

(57) Hauptanspruch: Ein auf UV-A und UV-B basierendes Überwachungssystem (100) für ein optimales Hautgesundheitsmanagement, umfassend:
a. Eine Sensoranordnung (1), bestehend aus
b. Mindestens ein erster Sensor (11), der die Intensität der ultravioletten A-Strahlung (UV-A) erfassen kann.
c. Mindestens ein zweiter Sensor (12), der die Intensität der ultravioletten B-Strahlung (UV-B) erfassen kann.
d. einen Hauttemperatursensor (13).
e. einen Biosensor (14), der zur Messung relevanter Hautbiomarker (z. B. Feuchtigkeit, Melaningehalt) geeignet ist.
f. einen Lichtdiffusor (15), der so konfiguriert ist, dass er die einfallende UV-Strahlung auf den ersten und den zweiten Sensor verteilt. eine Verarbeitungseinheit (2), die so konfiguriert ist, dass sie Daten von der Sensoranordnung (1) empfängt, die so angepasst ist, dass sie einen UV-Index auf der Grundlage der erfassten UV-A- und UV-B-Strahlungsintensitäten berechnet, wobei die Verarbeitungseinheit (2) ferner so angepasst ist, dass sie ein potenzielles Hautschadensrisiko auf der Grundlage des UV-Index und benutzerspezifischer Faktoren (z. B. Hauttyp, Sonnenexpositionsgeschichte) bewertet, und die optional so konfiguriert ist, dass sie die Haut analysiert Biomarkerdaten, um eine umfassendere Bewertung der Hautgesundheit zu ermöglichen, das
eine Verarbeitungseinheit (2) nutzen Algorithmen des maschinellen Lernens, um Empfehlungen auf der Grundlage von Benutzerdaten und historischen Nutzungsmustern zu personalisieren.
eine Benutzerschnittstelleneinheit (3) ist so ausgelegt, dass sie den UV-Index, das potenzielle Hautschadensrisiko und personalisierte Empfehlungen für den Sonnenschutz anzeigt (z. B. empfohlener Lichtschutzfaktor, Dauer der Sonnenexposition), und die Benutzerschnittstelleneinheit (3) ist so konfiguriert, dass sie Hautbiomarkerdaten und personalisierte Ratschläge für eine optimale Hautgesundheit anzeigt (z. B. Feuchtigkeitstipps, gezielte Hautpflegeroutinen);
eine mobile Anwendung (4), die über ein Smartphone oder ein anderes mobiles Gerät zugänglich ist;
ein tragbares Gerät (5) (z. B. eine Smartwatch), das in die Sensoreinheit (1) integriert ist;
eine Anzeigeeinheit (6) zur Darstellung von UV-Strahlungswerten und Hautgesundheitsinformationen für den Benutzer;
ein Kommunikationsmodul (7) zur Übertragung von Daten an einen entfernten Server; und
eine Stromversorgungseinheit (8) mit wiederaufladbarer Batterie und Solarladefähigkeit.



INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202441077609 Published Vishal Agarwal

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

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202441077609
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/10/2024
APPLICANT NAME	1 . Dr. V. Selvakumar 2 . P. Lavanya 3 . Mukesh Soni 4 . Dr. Srinivas K. S. 5 . Vishal Agarwal 6 . Dr. E. Ahila Devi
TITLE OF INVENTION	A Machine Learning-Driven Wearable Sensor Monitoring and Classification based Personalised Healthcare System
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/10/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411089336 Published Dr. Abida Khanam

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202411089336
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/11/2024
APPLICANT NAME	1 . Abida Khanam 2 . Mohd Faizan Farooqui
TITLE OF INVENTION	BLOCK CHAIN-BASED FRAMEWORK OPTIMIZED WITH GENETIC ALGORITHMS FOR SECURE ELECTRONIC HEALTH RECORDS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/11/2024

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202411089336 A
(19) INDIA
(22) Date of filing of Application :18/11/2024
(43) Publication Date : 29/11/2024

(54) Title of the invention : BLOCK CHAIN-BASED FRAMEWORK OPTIMIZED WITH GENETIC ALGORITHMS FOR SECURE ELECTRONIC HEALTH RECORDS

(51) International classification	:G16H0010600000, G06F0021620000, H04L0009000000, H04L0009300000, H04L0009320000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
This invention introduces a secure, blockchain-based framework for electronic health records (EHR) management, addressing critical privacy, security, and accessibility needs in healthcare. Traditional centralized systems are vulnerable to data breaches, single points of failure, and fragmented records, limiting secure, unified data storage. This proposed framework overcomes these issues by combining blockchain technology with Genetic Algorithms (GAs) to enhance security and performance. Key components include the InterPlanetary File System (IPFS) for decentralized storage and Elliptic Curve Cryptography (ECC) for strong encryption. The Genetic Algorithm optimizes blockchain parameters such as block size, block time, and node count through a custom fitness function, evaluating security, latency, and resource usage. Implemented on Hyperledger Fabric and validated through Finite State Machine modeling, the system provides high data security, efficient retrieval, and resilience against unauthorized access. With patient-centric access control via smart contracts, this framework offers an innovative solution for secure, scalable healthcare data management.

No. of Pages : 26 No. of Claims : 7

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411083285 Published Mohammed Asim

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/10/2024

(21) Application No.202411083285 A
(43) Publication Date : 13/12/2024

(54) Title of the invention : CMOS BASED OPERATIONAL AMPLIFIER WITH IMPROVED GAIN AND BANDWIDTH USING TRIPLE CASCODE OPERATIONAL TRANSCONDUCTANCE AMPLIFIER

(51) International classification	:A61B0005000000, H03F0003450000, A61B0005398000, A61B0005389000, G06F0015780000
(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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(57) Abstract :
To capture and initialize a physiological signal from the human body, such as Electroencephalogram (EEG), Electrooculogram (EOG), Electrocardiogram (ECG), and Electromyogram (EMG) for subsequent digital signal processing, the circuit requires an analog signal processor. Operational Amplifier (Op-Amp) circuits are crucial in designing high-precision analog and mixed-signal blocks. Proper operational amplifier design affects the performance of a mixed signal integrated circuit system. A novel CMOS-based operational amplifier with improved gain and bandwidth is shown using a triple cascode operational transconductance amplifier. Op-amp circuits have replaced conventional solid-state analog control systems for biomedical signal processing and communication applications. The first stage involves an operational transconductance amplifier (OTA) with a single-ended output. The following stage involves a common source (CS) output stage with an active load. Furthermore, Simulation research shows a voltage gain of 35.78 dB, a bandwidth of 13.65 GHz, and an average power of 119.45 μW at the 45 nm technology node.

No. of Pages : 14 No. of Claims : 8

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411076789 Published Mohd Reyaz Ur Rahim

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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)

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GEOGRAPHICAL INDICATIONS

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Application Details

APPLICATION NUMBER	202411076789
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/10/2024
APPLICANT NAME	**1 . Dr. Deepak Kholiya** **2 . Prof.(Dr) Jayant Shekhar** **3 . Dr. Mahesh Ashok Bomble** **4 . S. Preethijohnevelin** **5 . Dr. Smita Suhane** **6 . Sinthuja P M** **7 . G. Joy Padma Dinesh** **8 . J A Jevin** **9 . Dr Vishwanath Patil** **10 . Sudarshan Balasaheb Babar** **11 . Mohd Reyaz Ur Rahim** **12 . Amruta Chandrakant Amune**
TITLE OF INVENTION	SMART AGRICULTURE: DRONE-BASED PEST DETECTION AND SPRAYING WITH MACHINE LEARNING AND IOT SECURITY FOR IMPROVED CROP YIELDS
FIELD OF INVENTION	MECHANICAL ENGINEERING
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/10/2024

Application Status

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411063264 Published Dr. Mohd Faizan Hasan

https://iprsearch.ipindia.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus

सत्यमेव जयते

Application Details	
APPLICATION NUMBER	202411063264
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/08/2024
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TITLE OF INVENTION	ECO-FRIENDLY CONSTRUCTION: INTEGRATING BIODESIGN WITH ADDITIVE MANUFACTURING
FIELD OF INVENTION	MECHANICAL ENGINEERING
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INTEGRAL UNIVERSITY
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202431052899 Published Dr. Mohd Faizan Hasan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/07/2024
(21) Application No.202431052899 A
(43) Publication Date : 19/07/2024

(54) Title of the invention : ANALYSIS AND STUDY OF HYDROTHERMAL SYNTHESIS OF BISMUTH FERRITE HOLLOW SPHERES WITH ENHANCED VISIBLE LIGHT PHOTOCATALYTIC ACTIVITY USING DEEP LEARNING APPROACHES

(51) International classification :B01J0035000000, B82Y0030000000, C02F0001720000, B82Y0040000000, B01J0003000000
(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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(57) Abstract :
ANALYSIS AND STUDY OF HYDROTHERMAL SYNTHESIS OF BISMUTH FERRITE HOLLOW SPHERES WITH ENHANCED VISIBLE LIGHT PHOTOCATALYTIC ACTIVITY USING DEEP LEARNING APPROACHES The developed method provides techniques and tools for the production of supercritical hydrothermal of cyclic nanoparticles. Use metal salt solution as raw material, produce acid in the reaction field after nanoparticle synthesis, and supply alkaline water solution to the reaction field to control the pH of the reaction field and control the size of particles of the synthesized fine particles are two steps of the supercritical hydrothermal synthesis method. Supercritical water oxidation is used to release heat, and cold materials are used in supercritical water thermal fusion and preheated supercritical water oxidation reactions. This innovation offers a revolutionary technique to achieve hydrothermal synthesis of carbon quantum dots without the use of low-temperature plasma or other high-end devices. MXene nanosheets, bismuth-based photocatalyst nanoparticles and porous support layer are used to create composites of MXene/bismuth-based photocatalytic nanoparticles. This material advances the field of film preparation engineering and in particular offers MXene and bismuth-based photocatalytic synthetic films. FIG.1

No. of Pages : 14 No. of Claims : 1

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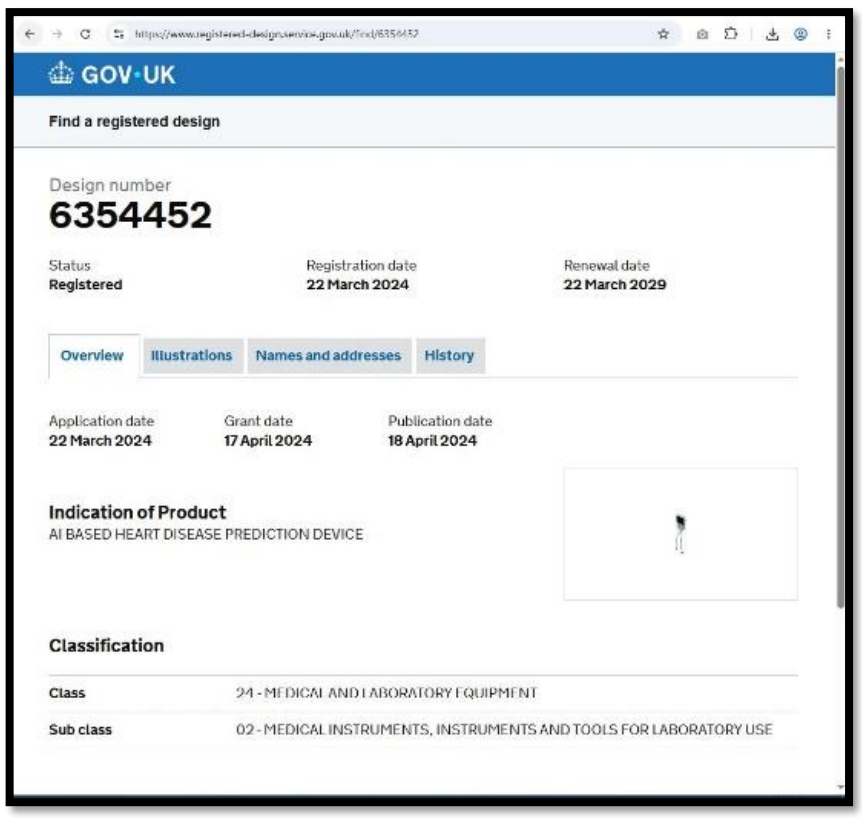
6354452 Published Ms. Noorishta Hashmi



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Design number
6354452

Status	Registration date	Renewal date
Registered	22 March 2024	22 March 2029

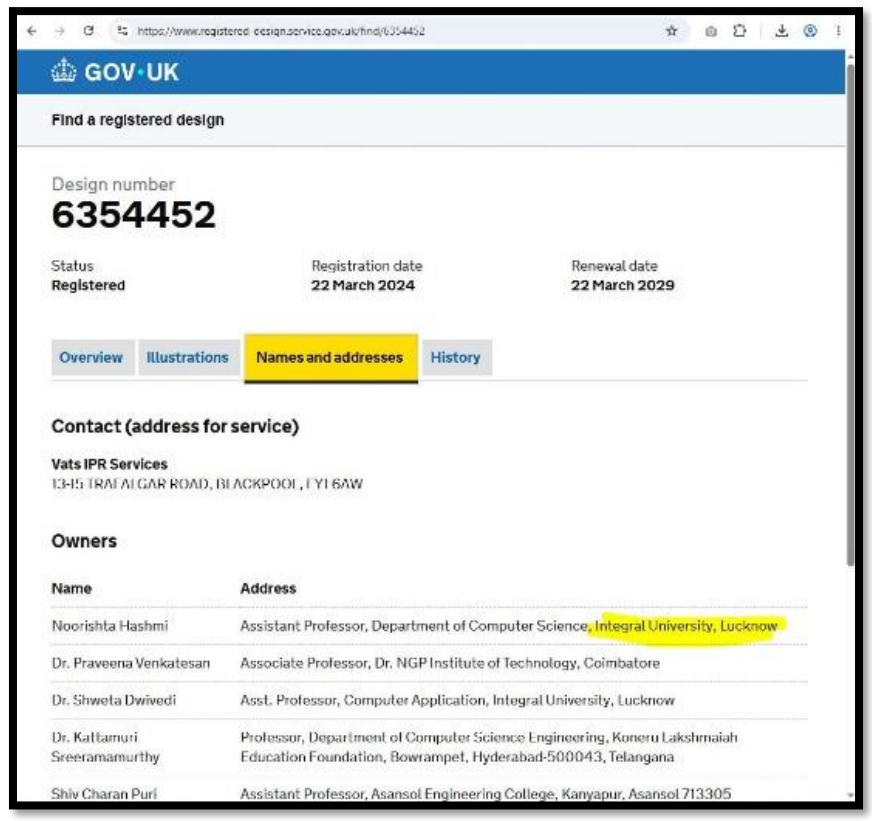
Overview | Illustrations | Names and addresses | History

Application date	Grant date	Publication date
22 March 2024	17 April 2024	18 April 2024

Indication of Product
AI BASED HEART DISEASE PREDICTION DEVICE

Classification

Class	24 - MEDICAL AND LABORATORY EQUIPMENT
Sub class	02 - MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR LABORATORY USE



GOV·UK

Find a registered design

Design number
6354452

Status	Registration date	Renewal date
Registered	22 March 2024	22 March 2029

Overview | Illustrations | Names and addresses | History

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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411079610 A Published Dr Sheeba Parveen

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/10/2024

(21) Application No.202411079610 A
(43) Publication Date : 01/11/2024

(54) Title of the invention : DUAL-CHAMBER WATER BOTTLE WITH SEPARATE HOT AND COLD COMPARTMENTS

(51) International classification :B65D25/04, B65D25/06, B65D81/18
(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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(57) Abstract :
The Dual-Chamber Water Bottle with Separate Hot (13) and Cold (15) Compartments is a cutting-edge beverage container designed to keep hot and cold liquids at optimal temperatures while preventing flavour transfer. This innovative solution caters to outdoor, travellers, enthusiasts and busy individuals seeking versatile hydration options. By utilizing advanced double-walled insulation (14), the bottle maintains distinct temperature zones, ensuring hot drinks remain hot and cold beverages stay chilled for extended periods. Its robust, leak-proof design incorporates high-quality, enhancing safety and durability. The bottle features user-friendly elements, such as detachable parts (10, 11) for easy cleaning, ergonomic handles, and a compact design suitable for portability. Additionally, the dual-chamber structure promotes sustainability by reducing the need for multiple bottles, thus appealing to environmentally conscious consumers. This invention enhances the drinking experience, merging functionality, convenience, and eco-friendliness into a single, stylish product.

No. of Pages : 17 No. of Claims : 2

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411077893 A Published Dr Sheeba Parveen

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2024

(21) Application No.202411077893 A
(43) Publication Date : 25/10/2024

(54) Title of the invention : IMPACT OF A SPHERE ON FLUID FLOW CHARACTERISTICS IN A NOZZLE TRANSITIONING ZONE

(51) International classification	:F15D1/10, B05B1/00, B05B1/34, G06F30/28
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
This innovation investigates the impact of a spherical object on fluid flow within a nozzle system, focusing on the transition zone between a larger diameter pipe and a reduced diameter nozzle. This innovative research is pivotal for industries such as automotive, chemical processing, and aerospace, where precise fluid flow management is essential for performance and efficiency. The presence of a sphere, with a diameter of 15 mm, in the transition zone introduces complexities such as altered flow patterns, turbulence, and pressure variations. These phenomena significantly influence flow characteristics by causing local flow separation, vortex formation, and changes in velocity profiles, thereby affecting nozzle performance and efficiency. The primary aim of this invention is to analyze how the sphere affects fluid dynamics within the nozzle's transitioning zone. Key objectives include predicting changes in flow velocity, pressure distribution around the sphere, and pressure distribution along the nozzle's inner surface. Results show that the average velocity of oxygen flow is 8.903 m/s due to the sphere, with maximum and minimum pressures of 101,374.28 pascals and 101,305.89 pascals at , respectively. Similarly, predicted maximum and minimum pressures on the inner surface of the nozzle section due to oxygen flow were 101,374.28 pascals and 101,305.89 pascals, respectively. Numerical simulations provide critical insights for refining nozzle designs, optimizing performance, and reducing development costs by allowing design engineer to modify the design prior to physical prototyping. This predicted analysis is essential for enhancing design efficiency and functionality.

No. of Pages : 30 No. of Claims : 4

INTEGRAL UNIVERSITY
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372460-001 Published Roshan Jahan

ORIGINAL

मूल/No : 123448

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	372460-001
तारीख / Date	:	12/10/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **FAULT DIAGNOSIS APPARATUS FOR VEHICLE** से संबंधित है, का पंजीकरण, श्रेणी **10-04** में 1.Dr. Amrit Suman 2. Dr. Preetam Suman 3.Dr. Vipin Khattri 4.Mrs. Roshan Jahan 5.Dr. Varshali Jaiswal के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **10-04** in respect of the application of such design to **FAULT DIAGNOSIS APPARATUS FOR VEHICLE** in the name of 1.Dr. Amrit Suman 2. Dr. Preetam Suman 3.Dr. Vipin Khattri 4.Mrs. Roshan Jahan 5.Dr. Varshali Jaiswal.

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

INTELLECTUAL
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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

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

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्वाधिकार 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311003268 Published Syed Arshad Ahmad, Dr. Syed Nadeem Akhtar

https://iprsearch.ipindia.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus

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

INTELLECTUAL PROPERTY INDIA
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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202311003268
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/01/2023
APPLICANT NAME	**Integral University**
TITLE OF INVENTION	MAGNETIC DEFLECTION LATCHING RELAY SWITCH AND METHOD THEREOF
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	saimamu@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/01/2023

Hot days ahead 10:02 AM 7/10/2026

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

377613-001 Published Roshan Jahan

THE PATENT OFFICE GOVT. OF INDIA

सत्यमेव जयते

ORIGINAL

मूल/No : 130835

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

डिजाइन सं. / Design No.	:	377613-001
तारीख / Date	:	18/01/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **DEVICE FOR DETECTING DEPRESSION USING VOICE BIOMARKERS** से संबंधित है, का पंजीकरण, श्रेणी **24-01** में 1.Dr. Preetam Suman 2. Dr. Masood Siddiqui 3.Dr. Deepak Singh 4.Dr. Vipin Khatri 5.Dr. Rajit Nair 6.Roshan Jahan के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-01** in respect of the application of such design to **DEVICE FOR DETECTING DEPRESSION USING VOICE BIOMARKERS** in the name of 1.Dr. Preetam Suman 2. Dr. Masood Siddiqui 3.Dr. Deepak Singh 4.Dr. Vipin Khatri 5.Dr. Rajit Nair 6.Roshan Jahan.

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

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GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 14/03/2023

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

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311003230 Published Roshan Jahan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/01/2023

(21) Application No.202311003230 A
(43) Publication Date : 20/01/2023

(54) Title of the invention : A REAL-TIME SYSTEM FOR PROCESSING A FINANCIAL TRANSACTION BETWEEN TWO PARTIES BASED ON MACHINE LEARNING

(51) International classification :G06Q0020400000, G06F0021320000, G06Q0020100000, G06Q0040020000, H04L0009320000
(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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(57) Abstract :
The present invention generally relates to a real-time system for processing a financial transaction between two parties based on machine learning comprises a graphical user interface to register a transferor and a transferee using personal credentials; a pair of biometric input devices to record the biometric data of the transferor and transferee, wherein the pair of biometric input devices comprising a transferor biometric input device and a transferee biometric input device; wherein the transferor biometric input device generates a piece of biometric transaction information from the transferor and the transferee during a money transfer process; and a central processor to verify the identities of the transferor and transferee to permit money transfer upon comparing the biometric transaction information with the recorded biometric data of the transferor and transferee.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311002997 Published Roshan Jahan, Manish Madhav Tripathi

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2023

(21) Application No.202311002997 A
(43) Publication Date : 20/01/2023

(54) Title of the invention : A SYSTEM FOR EARLY DETECTION OF BRAIN TUMORS USING MACHINE LEARNING TECHNIQUES

(51) International classification :C12Q0001688600, G16B0030000000, G16B0040200000, G16B0040000000, G16B0050300000
(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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(57) Abstract :
The system comprises a first central processor for generating a data acquisition application for generating CpG methylation data from a set of biological samples, the data acquisition application comprising a sequencing processor configured for performing CpG methylation by hybridizing at least one probe sequence to an extracted genomic DNA treated with a deaminating agent an input device receiving a first pair of CpG methylation datasets, a second pair of CpG methylation datasets, and a third pair of CpG methylation datasets; and a second central processor for generating a data analysis application for generating a cancer CpG methylation profile database, wherein the data analysis application comprising a data analysis processor for producing a pair-wise methylation difference dataset from the first, second, and third pair of datasets and evaluating the pair-wise methylation difference dataset with a control dataset to generate the cancer CpG methylation profile database for early detection of brain tumors.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2023

(21) Application No.202311002932 A
(43) Publication Date : 20/01/2023

(54) Title of the invention : DEFLECTION LATCHING RELAY SWITCH AND METHOD THEREOF

(51) International classification	:H01H0051220000, H01H0009440000, H01H0033180000, A61M0025010000, F02N0011080000
(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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(57) Abstract :
The present invention relates to a Deflection Latching Relay Switch (100) for switching and controlling of electrical devices, using magnetic coupling and deflection. Present invention comprises permanent magnets (101), (102), a leaf switch (103) and a coil (111). Permanent magnet (101) pivoted at coupling assembly (107) with predetermined distance and location, free to rotate their centroid along with diameter. Wherein said coil (111) placed near Permanent magnet (101). The leaf switch (103) is pivoted at deflection assembly (108) from the centre of their length and free to deflect 15 millimetre. The one end of leaf switch (103) has movable contact (104), and the other end sticks with a permanent magnet (102). Two fixed contacts (105), (114) placed at deflection assembly (108). When voltage applies for a moment to coil (111) the contact becomes closed, and when reverse the voltage for a moment the contact gets open.

No. of Pages : 8 No. of Claims : 13

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202321002998 Published Roshan Jahan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2023

(21) Application No.202321002998 A
(43) Publication Date : 27/01/2023

(54) Title of the invention : A SYSTEM FOR DETECTING DEPRESSION USING VOICE BIOMARKERS

(51) International classification	:G16H0040670000, G10L0015060000, A61B0005000000, G16H0080000000, G16H0010600000
(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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Address of Applicant :Integral University, Lucknow, Uttar Pradesh-226026, India Lucknow ---------- ----------

(57) Abstract :
The present invention generally relates to a system for detecting depression using voice biomarkers comprises a training processor for training a natural language processing (NLP) model and an acoustic model on a set of features of a plurality of speech samples extracted by deploying an audio feature extractor; a healthcare application platform for conducting a live telehealth session between the subject and recording speech data from the subject; a central processor for generating an acoustic report and an NLP report upon processing the speech data with the acoustic model and the NLP model thereby fusing the acoustic report and the NLP report to generate a metric that is indicative of whether the subject has or is likely to have the behavioral or mental health condition; and a display device for displaying the metric on a graphical user interface, wherein the metric is displayed during the live telehealth session.

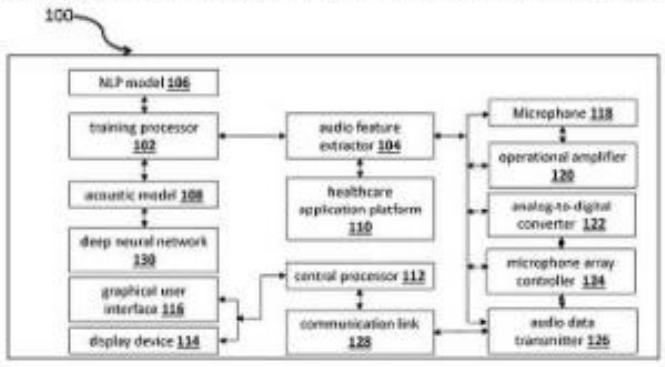

Figure 1

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311003914 Published Dr. Mohammed Asim

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/01/2023

(21) Application No.202311003914 A
(43) Publication Date : 27/01/2023

(54) Title of the invention : OPTIONAL K-PHASE VACATION FOR MX/G/1 QUEUE WITH BULK ARRIVAL AND STATE-DEPENDENT RATES

(51) International classification :G06Q0010100000, C08L0023080000, H04L0001000000, G06Q0020400000, C12M0003000000
(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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(57) Abstract :
In this investigation, a non-Markovian batch arrival queue with a single-server and multi-phases vacation has been studied. The multi-phase vacation means that after the first phase of regular vacation, the server may take optional K-vacations. We construct Chapman Kolmogorov equations with the help of the supplementary variable technique. For analysis purpose, generating function method is employed. Various performance characteristics and special cases are established. The numerical results and sensitivity analysis have been facilitated to validate the analytical results.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311004587 Published Syed Hauidar Abbas, Faiyaz Ahmad

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/01/2023

(21) Application No.202311004587 A
(43) Publication Date : 03/02/2023

(54) Title of the invention : AN INTELLIGENT HYBRID MODEL FOR BREAST CANCER DETECTION

(51) International classification :G06N0020000000, H04L0041160000, G06N0003080000, G06N0005000000, G06K0009620000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Machine Learning based approach to Predict the Political Determinants of Economic Exchanges in India is the proposed invention. The proposed invention focuses on analyzing the political determinants and their impact on economic exchanges. The invention will utilize the algorithms of machine learning for the purpose of prediction.

No. of Pages : 16 No. of Claims : 6

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311012305 Published Dr. Mohammed Asim

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023

(21) Application No.202311012305 A
(43) Publication Date : 17/03/2023

(54) Title of the invention : DESIGN OF TRANSFORMERLESS INVERTER TOPOLOGY FOR REDUCTION OF COMMON MODE CURRENT IN GRID-CONNECTED PV SYSTEM

(51) International classification	:H02J 033800, H02M 011200, H02M 074800, H02M 074870, H02M 075387
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
An inverter topology has been designed by modifying the conventional H-bridge to reduce the common mode current (CMC) occurring in a grid connected PV system. The common mode current, if not suppressed, not only causes maloperation of protective system thereby posing safety hazards but also causes electromagnetic interference, slow deterioration of PV panel and introduces harmonics into the supply. The method adopted in this topology is the decoupling of ac and dc sides along with clamping of one of the bridge leg voltages to mid-point of the dc link voltage. Both of the methods are activated during the freewheeling/zero state of the H-bridge inverter through two additional switches and a diode. The variation of common mode voltage is thus checked leading to reduction in common mode current while other performance parameters like efficiency and total harmonic distortion (THD) are not much affected.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311018534 Published Dr. Mohd Khursheed

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2023

(21) Application No.202311018534 A
(43) Publication Date : 12/05/2023

(54) Title of the invention : Active-Neutral-Point-Clamped (ANPC) based 7-level switched-capacitor multilevel inverter (SC-MLI) with reduced magnitude of spikes in source current

(51) International classification :G11C 115600, H02M 010000, H02M 030700, H02M 074830, H02M 074870
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Various 7-level switched-capacitor (SC) based converters are reported in literature which furnish the voltage gain of 1.5. However, these topologies require switches having high value of voltage stresses and switch count is more. Further, the charging and discharging action of the switched capacitors, lead to production of spikes having large magnitude in source current and charging currents supplied to switched-capacitors. Due to this limitation, the SC based Multilevel Inverter (SC-MLI) cannot be used for high power applications. To fill these gaps, an Active-Neutral-Point-Clamped (ANPC) based SC-MLI converter topology is proposed in this research which require switches having less value of voltage stresses and the switch count of the proposed converter is less. Further, to reduce the magnitude of spikes in source and charging currents of switched-capacitors capacitors, a soft switching circuit is included in the proposed converter. The soft charging circuit includes an inductor and a diode in the charging path of the proposed converter which ensures soft charging of the switched-capacitors. The proposed converter is able to significantly suppress the spikes appearing in the source current by including a small value of inductance connected in the soft charging circuit. The proposed topology requires single dc source, 2switched-capacitors, 9 switches to generate 7-level and does not require auxiliary diode. The absence of auxiliary diode leads to further reduction in losses. The proposed topology is able to maintain self-balancing of the capacitor voltage even at low value of modulation index. To highlight the various key features of the proposed 7-level topology, its comparison with state-of-the-art converter topologies is carried out. To validate the efficacy of the proposed 7-level SC-MLI, experimental results are included which are captured using a laboratory prototypefor different values of soft charging inductor.

No. of Pages : 36 No. of Claims : 8

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311019353 Published Dr. Mohd Khursheed

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2023

(21) Application No.202311019353 A
(43) Publication Date : 12/05/2023

(54) Title of the invention : A Novel Triple Boost Switched Capacitor Multilevel Inverter (TB-SCMLI) with Lesser Components and Self Voltage Balance

(51) International classification :H02M 010000, H02M 010880, H02M 074830, H02M 074870, H03H 190000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :5Department of Electrical Engineering, Qatar University, Doha-2713, Qatar Doha ---------- ----------

(57) Abstract :
Multi-level inverter (MLIs) designs with Switched-Capacitor (SC) are on the rise due to their applicability in sustainable energy systems and high voltage applications. In this light, this research presents a compact Triple-Boost switched-capacitor multilevel inverter (TB-SCMLI) topology with fewer switches and the ability to self-balance. The suggested TB-SCMLI is able to provide seven levels of output voltage by balancing the voltage of two capacitors with the given control logic. The various SCMLIs are evaluated to determine the contribution of the suggested TB-SCMLI topology's merits and downsides. To validate the performance of the proposed TB-SCMLI, comprehensive experimental findings under various laboratory test settings have been given

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311025404 Published Dr. Isarar Ahamad

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/04/2023

(21) Application No.202311025404 A
(43) Publication Date : 19/05/2023

(54) Title of the invention : Magnetic anisotropy in the ferromagnetic Mn and N doped ZnO Nanocrystals

(51) International classification :B82Y 300000, C30B 296000, G11C 111600, H01F 103200, H01L 431000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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3)Dr. Shahjad Ali
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8)Azhar Shadab
Address of Applicant :Department of Electronics Engineering, Indian Institute of Technology (ISM), Dhanbad, India Dhanbad ---------- ----------

(57) Abstract :
Recently ZnO has drawn attention of many researchers due to its high potential uses in the field of solar cell, UV-laser diode, LED, sensors, UV-blue light emitters, etc.. Spintronics, namely spin-based electronics, is a new generation of microelectronics, which utilizes both, charge and spin degrees of freedom of carriers. Half-metals and diluted magnetic semiconductors (DMSs) are expected to be promising materials for spin-based multifunctional devices. In half-metals, the conduction electrons at the Fermi energy (EF) are 100% spin polarized. Unique spin dependence optical and electrical properties are generated in ZnO doped with transition metal ions, are due to the strong exchange interactions between external s-p carriers of host and localized d electrons of dopant. Therefore an effort was made in developing thin films of codoped (Mn N) in ZnO to study the ferromagnetism at room temperature by experimental and theoretical study.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311029273 Published Dr. Poonam Sharma Lagenaria siceraria based low-fat functional mayonnaise 5/26/2023

https://iprsearch.ipindia.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus

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

INTELLECTUAL PROPERTY INDIA
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Application Details	
APPLICATION NUMBER	202311029273
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/04/2023
APPLICANT NAME	**Dr. Poonam Sharma**
TITLE OF INVENTION	LAGENARIA SICERARIA BASED LOW-FAT FUNCTIONAL MAYONNAISE
FIELD OF INVENTION	FOOD
E-MAIL (As Per Record)	info@lexgin.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	09/06/2023
PUBLICATION DATE (U/S 11A)	26/05/2023
FIRST EXAMINATION REPORT DATE	14/12/2023
Date Of Certificate Issue	23/09/2024
POST GRANT JOURNAL DATE	27/09/2024
REPLY TO FER DATE	10/04/2024

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202111035684 Published Dr. Tarana Afrin Chandel 2. Prof. M A Mallick

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202111035684 A
(43) Publication Date : 02/06/2023

(54) Title of the invention : LOW COST MICRO CRACK MEASURING INSTRUMENT FOR DETECTION OF FAULTS ON SITE IN SOLAR PANELS

(51) International classification	:H02S0050100000, G01N0021880000, H02S0050000000, G01N0027900000, H02J0013000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
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2)Dr. Mohammed Arifuddin Mallick

(57) Abstract :
The invention relates to an apparatus for detection of faults in solar panels. In one embodiment, the apparatus is capable of measuring micro crack or detecting a fault of a solar panels in an economic way before the panels become ineffective in the energy generation process. The invention detects the failure of a solar panels by using a monochromatic light source to measure the defects of the current detection method as compare to existing system used which are complicated and costly, and the system are huge and inconvenient to installon site and maintain.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311039956 Published Dr. Mohd. Suhaib Kidwai

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

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INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202311039956
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/06/2023
APPLICANT NAME	**Integral University**
TITLE OF INVENTION	A MACHINE LEARNING BASED APPROACH FOR THE DETECTION OF NEUROLOGICAL DISORDERS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	iormc@iul.ac.in
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	12/06/2023
PUBLICATION DATE (U/S 11A)	07/07/2023

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311037711 Published Mohammed Asim

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/06/2023

(21) Application No.202311037711 A
(43) Publication Date : 14/07/2023

(54) Title of the invention : HIGH GAIN, LOW POWER TRIPLE CASCODE OPERATIONAL TRANSCONDUCTANCE AMPLIFIER USING CARBON NANOTUBE FIELD EFFECT TRANSISTOR

(51) International classification :B82Y 100000, H01J 090200, H01L 510000, H01L 510500, H03F 034500
(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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(57) Abstract :
An analog signal processing device is needed in the circuit for the acquisition and initial processing of a physiological signal from the human body, such as an ECG/EKG, EEG, EMG, or EOG for further digital signal processing. An operational transconductance amplifier (OTA) has some advanced features over an operational amplifier (OP-AMP), including a wider bandwidth, a superior dynamic range, a greater output resistance, a wider bandwidth, and no additional phase issues. They can also be used for circuits with capacitive loads.An OTA is helpful for many electrical systems, including filters, oscillators, comparators, and analog-to-digital converters, thanks to its adaptability. A novel High Gain, Low Power Triple Cascode Operational Transconductance Amplifier (TCOTA) based on Carbon Nanotube Field Effect Transistor is shown. A CNTFETs channel is constructed by a parallel combination of SWCNTs, just like a conventional MOSFET. The benefits of CNTFETs include one-dimensional ballistic charge carrier movement, high mobility, high driving current, and minimal power consumption. A CNTFETs channel is constructed by a parallel combination of SWCNTs, just like a onventional MOSFET. The benefits of CNTFETs include one-dimensional ballistic charge carrier movement, high mobility, high driving current, and minimal power consumption. Furthermore, a simulation analysis demonstrates that the voltage gain and average power achieved are 70.69 dB and 9.2 μW, respectively at 32 nm technology node.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311047760 Published Sheeba Praveen

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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	202311047760
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/07/2023
APPLICANT NAME	**Integral University**
TITLE OF INVENTION	SAHMT: IOT AND DEEP LEARNING BASED NON-INVASIVE ZOO ANIMAL HEALTHCARE TUNNEL MODEL
FIELD OF INVENTION	COMPUTER SCIENCE
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	15/07/2023
PUBLICATION DATE (U/S 11A)	11/08/2023

Application Status

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311056649 Published Dr. Isarar Ahamad

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/08/2023

(21) Application No.202311056649 A
(43) Publication Date : 22/09/2023

(54) Title of the invention : AUTO CLEANING STORM WATER HARVESTER

(51) International classification	:E02D0019100000, C02F0001440000, C02F0003320000, G06F0016182000, E02D0003100000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention discloses a system (100) for water harvesting. The system (100) comprises a de silt chamber (105) connected with a concrete channel (145) and a plurality of PVC pipes (110 A), a harvesting unit (140) allow discharge of water and a reverse well point (130 A) (130 B) with a dispersal means (150 A) (150 B) wrapped with a geo-textile material preventing migration of soil materials. There is a kaval (160) at the top of reverse well point 130B. The dust struck on geotextile of 130 B falls down automatically.

No. of Pages : 21 No. of Claims : 9

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311058052 Granted Mohh Haris, Mohammed Asim

INTELLECTUAL PROPERTY INDIA

क्रम सं./Sl. No :01/228706

सत्यमेव जयते

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

पेटेंट प्रमाण पत्र | **Patent Certificate**

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

पेटेंट सं. / Patent No. : 586421

आवेदन सं. / Application No. : 202311058052

फाइल करने की तारीख / Date of Filing : 30/08/2023

पेटेंटी / Patentee : 1.Integral University 2.Aligarh Muslim University

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित *MULTIPLE OUTPUT DC/DC CONVERTER WITH HIGH VOLTAGE GAINS IN ARITHMETIC PROGRESSION* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अगस्त 2023 के तीसवें 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 *MULTIPLE OUTPUT DC/DC CONVERTER WITH HIGH VOLTAGE GAINS IN ARITHMETIC PROGRESSION* as disclosed in the above mentioned application for the term of 20 years from the 30th day of August 2023 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 07/04/2026
Date of Grant :

अनुराधा पंडित
पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए शेष, यदि इसे बनाए रखा जाना है, अगस्त 2025 के तीसवें 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 30th day of August 2025 and on the same day in every year thereafter

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202341060087 Published Dr. Mohd Faizan Hasan

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

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INTELLECTUAL PROPERTY INDIA
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GEOGRAPHICAL INDICATIONS

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

Application Details	
APPLICATION NUMBER	202341060087
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/09/2023
APPLICANT NAME	**1 . Vishnu Vardhan Vallepu** **2 . Dr.Arpan Deshmukh** **3 . Sharif Harun Shaikh** **4 . Dr. Vinesh Sukhadeo Thorat** **5 . Dr. Jagdish Chand** **6 . Dr. Rushikesh Bankar** **7 . Purushottam Chawke** **8 . Chetan Shashikant Chavan** **9 . Dr.Maaz Allah Khan** **10 . Apurva Dilip Fuladi** **11 . Dr. Mohd Faizan Hasan** **12 . Mrs.S.Ramya**
TITLE OF INVENTION	IMAGE PROCESSING TECHNIQUES INTEGRATED WITH MACHINE LEARNING APPROACHES FOR ANALYZING AND ESTIMATING SOIL MOISTURE USING SATELLITE-CAPTURED IMAGES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	vaagailp@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/10/2023

202341064023 Published Dr. Mohd Khursheed Innovative iot enabled advanced traffic management system 10/6/2023

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

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INTELLECTUAL PROPERTY INDIA
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Application Details	
APPLICATION NUMBER	202341064023
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/09/2023
APPLICANT NAME	**1 . Maloth Naresh Assistant Professor** **2 . Ajit Kumar Yadav Assistant Professor** **3 . Neeraj Lecture** **4 . R Kishor Assistant Professor** **5 . Bhukya Roja Assistant Professor** **6 . Dr. Anil Kumar Sahu** **7 . Dr. Mohd Khursheed Siddiqui** **8 . B.Veena**
TITLE OF INVENTION	INNOVATIVE IOT ENABLED ADVANCED TRAFFIC MANAGEMENT SYSTEM
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	dr.bksarkar2003@yahoo.in
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/10/2023

Application Status

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202341062061 Published Mohd Kashif Khan

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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INTELLECTUAL PROPERTY INDIA
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(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202341062061
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/09/2023
APPLICANT NAME	1 . Dr. Samanasa Krishna Rao 2 . Mohd Kashif Khan 3 . Dr. Nisha Thakur 4 . Yogesh Ravindra Suryavanshi 5 . M. Vadivel 6 . Mr. Swapnil Balkrishna Gorade 7 . Dr. D. Vijaya Kumar 8 . Sai Nikhith Ragi
TITLE OF INVENTION	DEVELOPMENT OF STRENGTHENING TECHNIQUES FOR REINFORCED CONCRETE COLUMNS WITH FRP
FIELD OF INVENTION	CIVIL
E-MAIL (As Per Record)	avbreddy9@gmail.com
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/10/2023

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202341063717 Published Dr A F Minai & Dr. A A Khan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2023

(21) Application No.202341063717 A
(43) Publication Date : 06/10/2023

(54) Title of the invention : ADVANCED OPTIMIZATION MODEL FOR COUPLING POWER PLANT TO PV-WIND-ELECTRIC VEHICLES

(51) International classification :H02J0003380000, C06Q0050060000, G06Q0010060000, G05Q0010040000, H02J0003320000
(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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(57) Abstract :
ABSTRACT An advanced optimization model for coupling a power plant to PV-wind-electric vehicle is described herein. The proposed advanced optimization model is designed while taking into account the cost of the purchased energy is sold to the utility grid, while the power exchange is maintained between the power grid and the system's other components. The results show that the suggested system's LCOE and LPSP are 0.038 $/kWh and 0.19%, with a renewable proportion of 0.87, respectively. It is determined that careful management of renewable power generation and load demands can result in a cost-effective and reliable system. The working principle of proposed advanced optimization model is grounded in real-time data analysis and mathematical optimization to intelligently manage the coupling of a power plant with PV, wind, and EV systems. Its ability to adapt to changing conditions and optimize multiple objectives is a critical component in the transition to a sustainable and efficient energy ecosystem. FIG. 1

No. of Pages : 27 No. of Claims : 5

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311063419 Published Mohammed Asim., Ambreen Siddiqui

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2023

(21) Application No.202311063419 A
(43) Publication Date : 13/10/2023

(54) Title of the invention : EFFICIENT, ULTRA LOW POWER INSTRUMENTATION AMPLIFIER BASED ON CARBON NANOTUBE FIELD EFFECT TRANSISTORS

(51) International classification	:H03F0003450000, A61B0005000000, A61B0005369000, A61B0005398000, A61B0005300000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Instrumentation amplifiers (IA) are found in a wide range of circuit applications. Because of their capacity to minimize noise and have a high open loop gain, they are useful in circuit design. Instrumentation amplifier finds its application in biomedical systems to correctly monitor bio potential signals, such as Electroencephalogram (EEG), Electrooculogram (EOG), Electrocardiogram (ECG), and Electromyogram (EMG) which are low frequency signals and more susceptible to noise. Since instrumentation amplifiers are more resistant to noise removal owing to high CMRR, they are an appropriate choice. Operational amplifiers on the other hand, are an essential component in the current integrated systems.Because single-stage cascode or telescoping amplifiers are no longer suited for low-voltage applications due to the fast scaling down of transistor sizes and supply voltages in contemporary CMOS technologies, multistage amplifiers are becoming increasingly important. An instrumentation amplifier is useful because it can minimize undesired noise picked up by the circuit.The capacity of all IC pins to reject noise or undesirable signals is referred to as the common-mode rejection ratio (CMRR). Because of their high CMRR, instrumentation amplifiers are quite handy. Other features, such as high open loop gain, low power consumption make this IC extremely useful in circuit design. A novel High Gain, Ultra Low Power Instrumentation Amplifier is proposed using Carbon Nanotube Field Effect Transistor which reduces power line interferences and provide large CMRR and more gain. CNTFETs typically exhibit lower power consumption compared to traditional CMOS technology, making them suitable for low-power applications. CNTFETs can have lower sensitivity to temperature changes compared to conventional transistors, which can contribute to more stable amplifier performance.The simulation study shows that the voltage gain and average power achieved by CNTFET- based instrumentation amplifier is 81.08 dB and 1.24fw, respectively.

No. of Pages : 12 No. of Claims : 6

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311063739 Published Dr. Mohd Faizan Hasan

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
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(http://ipindia.nic.in/index.htm)

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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

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

Application Details	
APPLICATION NUMBER	202311063739
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/09/2023
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TITLE OF INVENTION	DEEP LEARNING BASED APPROACH TO PREDICT FUEL CONSUMPTION AND MAINTENANCE COST OF HEAVY-DUTY VEHICLES WHILE USING DIESEL AND ALTERNATIVE FUELS
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/10/2023

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LUCKNOW - INDIA

202311061483 Published Dr. Isarar Ahamad

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
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Application Details	
APPLICATION NUMBER	202311061483
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/09/2023
APPLICANT NAME	**Integral University**
TITLE OF INVENTION	GRAPHENE NANORIBBON FIELD EFFECT TRANSISTOR BASEDOPERATIONAL TRACONDUCTANCE AMPLIFIERWITH HIGH SLEW RATE FOR BIO-SIGNAL
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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ADDITIONAL-EMAIL (As Per Record)	israr@iul.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/09/2023
PUBLICATION DATE (U/S 11A)	13/10/2023

Application Status	
APPLICATION STATUS	**Application Awaiting Examination**

View Documents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311067294 Published Dr. Mohammad Atif Siddiqui

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2023

(21) Application No.202311067294 A
(43) Publication Date : 27/10/2023

(54) Title of the invention : OPAM- OPTIMAL PARKING ALLOCATION MODEL

(51) International classification	:G08G0001140000, G06Q0010060000, G06Q0010040000, G06Q0010020000, G06Q0030020000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Urban parking, particularly in bustling Market Areas, has emerged as a persistent challenge in transportation systems over the past decades. The scarcity of parking spaces compels drivers to spend excessive time searching for available spots, resulting in congestion and energy wastage. This patent introduces an innovative optimal parking allocation model poised to revolutionize urban mobility and parking management. Tailored to densely populated urban areas with soaring parking demand, this model addresses critical concerns, including traffic congestion, environmental sustainability, economic efficiency, and user satisfaction, heralding a new era of parking space optimization. At its core, this model is a data-driven system seamlessly integrating real-time data collection and allocation algorithms. Continuous real-time parking data acquisition through cameras provides insights into space occupancy, user reservations, and traffic conditions. Utilizing historical data, the model effectively discerns parking space preferences. Central to this innovation is the allocation algorithm, purpose-built for real-time online interaction. It responds dynamically to incoming data and user interactions, ensuring efficient space allocation and a seamless user experience. Weather conditions, historical data, and collaboration with key stakeholders, including government bodies, urban planners, private parking operators, and technology providers, are also factored into the model. We propose model to allocate the optimal parking, considering real-time parking availability, fees, and user preferences. YOLO coding is employed to assess parking space availability using real-time video from parking lots. In summary, the optimal parking allocation model represents a pioneering solution to the multifaceted challenges of urban mobility and parking allocation. Its data-centric approach, user-friendly design, and adaptability position it as a transformative technology capable of enhancing efficiency, sustainability, and user satisfaction in urban environments. With the potential to alleviate congestion, enhance environmental sustainability, and elevate user experiences, this invention holds great promise for the cities of the future.

No. of Pages : 21 No. of Claims : 6

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311073506 Published Monauwer Alam, Mohammed Asim, Asif Jameel Ansari

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/10/2023

(21) Application No.202311073506 A
(43) Publication Date : 24/11/2023

(54) Title of the invention : ERRONEOUS ENERGY READING DETECTOR FOR SMART ENERGY METER

(51) International classification	:G01D0004000000, G06T0007110000, G01R0011040000, H05K0001020000, G06Q00400200000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The image captured by camera of Energy reading of a Smart Energy meter can be used to process that image to read the digits of Smart Energy meter. The creation of a reliable Smart Energy meter system that takes into account the change in electric meter reading is the main aim. The camera is installed at the front of Smart Energy meter which captures its image every 24 hours. The captured image segmentation is the technique that is used to cut off the area of an image that contains the Smart Energy meter reading. Character recognition is accomplished by the use of the process of character recognition. The data that was obtained is then compared every 3rd day. If it is seen that after 72 hours, the meter reading does not change or recedes back, then we can say the meter is a faulty one. The innovative system was constructed, and then its performance was evaluated with the use of images taken in the real world. The experiment reveals that the created system correctly recognises and identifies the error.

No. of Pages : 13 No. of Claims : 4

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311072046 Published Er. Gyanendra Tripathi, Dr. Alvina Farooqui

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Application Details

APPLICATION NUMBER	202311072046
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/10/2023
APPLICANT NAME	**Integral University**
TITLE OF INVENTION	TWO STAGE CULTIVATION OF MICROALGAE FOR SUSTAINABLE BIOFUEL PRODUCTION
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	21/10/2023
PUBLICATION DATE (U/S 11A)	24/11/2023

Application Status

APPLICATION STATUS	**Application Awaiting Examination**

View Documents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311073506 Published Dr. Monauwer Alam, Dr. Mohammed Asim, Dr. Asif Jamil Ansari

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/10/2023

(21) Application No.202311073506 A
(43) Publication Date : 24/11/2023

(54) Title of the invention : ERRONEOUS ENERGY READING DETECTOR FOR SMART ENERGY METER

(51) International classification	:G01D0004000000, G06T0007110000, G01R0011040000, H05K0001020000, G06Q00400200000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The image captured by camera of Energy reading of a Smart Energy meter can be used to process that image to read the digits of Smart Energy meter. The creation of a reliable Smart Energy meter system that takes into account the change in electric meter reading is the main aim. The camera is installed at the front of Smart Energy meter which captures its image every 24 hours. The captured image segmentation is the technique that is used to cut off the area of an image that contains the Smart Energy meter reading. Character recognition is accomplished by the use of the process of character recognition. The data that was obtained is then compared every 3rd day. If it is seen that after 72 hours, the meter reading does not change or recedes back, then we can say the meter is a faulty one. The innovative system was constructed, and then its performance was evaluated with the use of images taken in the real world. The experiment reveals that the created system correctly recognises and identifies the error.

No. of Pages : 13 No. of Claims : 4

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311072045 Published Shahid Afreen

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/10/2023

(21) Application No.202311072045 A
(43) Publication Date : 24/11/2023

(54) Title of the invention : A NOVEL BACTERIUM CONSORTIUM FOR EFFECTIVE LEAD BIOREMEDIATION

(51) International classification	:C12N 1/20, C12Q 1/04, C12R 1/07
(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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(57) Abstract :
The present invention pertains to the domain of microbial solutions for the removal of heavy metals, specifically targeting lead (Pb). It specifically focuses on the bacteria strain Paenibacillus dendritiformis (ACCESSION NO. OP835923) with high lead sequestration potential. Moreover, the efficacy of bioremediation is significantly enhanced through exposure to ultraviolet (UV) radiation. Lastly, a novel consortium of UV-treated Stenotrophomonas maltophilia and Paenibacillus dendritiformis is engineered to efficiently address lead contamination.

No. of Pages : 17 No. of Claims : 5

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311073759 Published Ms. Anum Kamal

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/10/2023

(21) Application No.202311073759 A
(43) Publication Date : 24/11/2023

(54) Title of the invention : DESIGN AND DEVELOP A DEVICE THAT PREDICTS THE JOB PERFORMANCE OF EMPLOYEES BASED ON EMOTIONAL INTELLIGENCE

(51) International classification :G06N0020000000, G06Q0010060000, G06Q0010100000, G06Q0030020000, G16H0010600000
(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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(57) Abstract :
ABSTRACT The present invention relates to a device (100) for predicting job performance based on emotional intelligence. The device (100) for predicting job performance comprises a questionnaire module, a data collection module, an advanced data analytics module, a demographic integration module, a predictive model module, a machine learning module, a decision support module and a customization module. The device (100) is configured to investigate the relationship among emotional intelligence, emotional labor, perceived organizational support, and job performance. The device (100) is configured to improve the sense of organizational support should also receive the organization's attention. The device (100) ensure the questionnaire is comprehensive and aligned with contemporary understanding and research on emotional intelligence. The device (100) configured to create a survey that comprehensively assesses key aspects of emotional intelligence, including self-awareness, self-regulation, motivation, empathy, and social skills, tailored to the specific requirements of different job roles.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202341041297 Published Dr. Tarana A. Chnadel

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202341041297
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/06/2023
APPLICANT NAME	**1 . Dr. Mohammad Danish** **2 . Sunil Kumar Pandey** **3 . Dr. Tarana Afrin Chandel** **4 . Dr.Manasi Vyankatesh Ghamande** **5 . Sanjeevkumar** **6 . Dr. Alla Srivani** **7 . Dharmbir Singh** **8 . Dr. R. Sanjeevi** **9 . Saumya Vaish** **10 . Thakur Sonali Madhav** **11 . Dr.Maaz Allah Khan** **12 . Dr. J. Anuradha**
TITLE OF INVENTION	SYSTEMATIC APPROACH TO UNLOCK THE FULL POTENTIAL OF PEROVSKITE SOLAR CELL TECHNOLOGY THROUGH MACHINE LEARNING
FIELD OF INVENTION	ELECTRONICS
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/09/2023

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202111061704 Published Mr. Adnan Ahmad

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/12/2021

(21) Application No.202111061704 A
(43) Publication Date : 07/01/2022

(54) Title of the invention : A SYSTEM FOR DISEASE DETECTION IN PLANTS USING DEEP CONVOLUTIONAL NEURAL NETWORK AND METHOD THEREOF

(51) International classification	:G06N0003040000, G16H0050200000, G06K0009620000, G06T0007000000, G06N0003080000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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5)Dr. Abhishek Kumar Mishra
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(57) Abstract :
The present invention discloses a system for disease detection in plant leaves using deep convolutional neural network and method thereof. The present invention is comprised of, but not limited to, a processing unit communicatively coupled with a memory unit for collecting dataset containing various image set of plant leaves. Further, the dataset collected, can contain a plurality of images of plant leaves distributed proportionally among various classes—cedar rust, multiple diseases, and healthy leaves.

No. of Pages : 19 No. of Claims : 4

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Patent Search

Invention Title	ENERGY EFFICIENT SECURITY MECHANISM FOR BATTERY CONSTRAINED LIGHT WEIGHTED DEVICES USING OFFLINE OR PRE-PROCESSING APPROACH
Publication Number	02/2022
Publication Date	14/01/2022
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Application Number	202211001091
Application Filing Date	08/01/2022
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Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04L0029060000, H04W0052020000, H04W0012060000, H04L0029080000, G06F0009500000

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Abstract:

Security is the major Concern in IoT and WSN devices. Energy related apprehension increases due to limited battery power, especially when we are dealing with light weigh devices in unattended environment. For providing basic security services, we always prefer symmetric encryption techniques over asymmetric techniques. But asymmetric approaches are the only way to get complete security services like one way authentication. Still we do not prefer to use asymmetric approaches because it consumes mor energy in computation than symmetric approaches. By using offline processing or pre-processing concepts, we can pre-compute the part of the security techniques that d depend on the sensed data/message before the deployment of the devices and compute rest of the security algorithms after deployment. This approach will conserve the and increase the lifetime of energy constraint devices. It also opens the option to implant asymmetric security approaches in light weighted devices.

Complete Specification

This invention relates to Energy saving approach in light weighted devices especially for IoT and Sensor devices.

BACKGROUND OF INVENTION

The information transferred may be a trivial conversation between light weighted nodes or resource constrained devices. The call for IoT and sensor networks security remains mostly unreciprocated, due to unattended environments. These networks are exposed to passive, active and routing attack by the adversary. The opponent can be aware of the conversation between the nodes and can forge the data. Nodes should be resilient to these attacks.

We have identified following problems

1. Online processing of the security approaches consumes a lot of battery power for producing different security services like authentication, data integrity and confidentiality etc.
2. Like symmetric encryption, proper key management is a primary concern. Public key is not preferred due to its complex, power hungry and slow nature and not fit for use in low power environment.
3. A major applications of IoT & WSN like battle field scenario, where authentication is a very

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202211004640 Published Dr. Mohammad Suaib Dr. Mohammad Akbar Dr. Mohammad Arif Dr. Jameel Ahmad Dr. Shish Ahmad

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/01/2022
(21) Application No.202211004640 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : A MACHINE LEARNING-BASED HOTSPOT PREDICTION SYSTEM IN ELECTRONIC DESIGN AUTOMATION (EDA) APPLICATIONS

(51) International classification	:G06N0020000000, G06F0030398000, G06F0030330000, G06F0111020000, G01K0007420000
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
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(57) Abstract :
The present invention discloses a machine learning-based hotspot prediction system in electronic design automation (EDA) applications. The system is comprised of, but not limited to, a hotspot defining module for identifying a criterion for a hotspot or a metric of the electronic circuit design; a processing unit for performing and placing the hotspot or metric prediction by using a deep learning data modelling; and a microcontroller configured for applying a correction candidate to an electronic circuit design, which is going to be under processing for IC chips embedding.

No. of Pages : 23 No. of Claims : 8

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Patent Search

Invention Title	MULTI-LAYERED SECURITY NETWORK AUTHENTICATION SYSTEM DEVELOPMENT THROUGH BLOCKCHAIN TECHNOLOGY
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Field Of Invention	COMMUNICATION
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Abstract:

A method for authenticating a chain of custody utilizing blockchain technology, in which digital evidence or other digital content is acquired and then hashed to produce a fingerprint/signature, and then immediately or instantly submitting said hash fingerprint/signature to the blockchain using the blockchain network protocol, forming an immediate verifiable chain of custody without the involvement of a human or the involvement of a trusted third party, is described in detail.

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202111008424 Published Dr. Mohammad Zunnun Khan Dr. Mohd Waris Khan

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Patent Search

Invention Title	AN EFFECTIVE PREDICTION AND PRIORITIZATION BASED CLOUD SERVICE ARCHITECTURE
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Publication Type	INA
Application Number	202111008424
Application Filing Date	01/03/2021
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Field Of Invention	COMMUNICATION
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Abstract:

IT Industry now a days uses Cloud technologies for various computational purpose such as platform, infrastructure and software on pay per use or on subscription basis. Giants such as IBM and Microsoft or even google have introduced their cloud based services for different type of customers. Vast variety of service availability creates a co in consumer's mind, consumer is unable to decide which service provider is more reliable and effective. Till date there is no specific framework that helps the consumer to measure the Service prioritize and predict the suitable one according to the requirement of consumer. We need an effective mechanism to address of the consumer that focuses on Service quality. Here inventors have claimed a framework and a mechanism that measures the quality and prioritize best cloud services are predicted on the b QoS metrics. This Architecture will make a positive, transparent and quality environment for all the component of NIST based cloud framework (Cloud Consumer, Cloud Se Provider, Cloud Auditor, and Cloud broker) it will help to create a transparent and matured SLA (Service Level Agreement) between all the users We have also claimed the computing definition on the basic of service prediction and further prioritization.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211003849 A

(19) INDIA

(22) Date of filing of Application :24/01/2022 (43) Publication Date : 11/02/2022

(54) Title of the invention : MACHINE LEARNING BASED SOLAR ENERGY TRACKING SYSTEM FOR ELECTRIC VEHICLES

(51) International classification	:G06N0020000000, H02S0020320000, G06Q0010100000, H02J0007350000, H02S0020100000
(86) International Application No	:NA
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(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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(22) Date of filing of Application :11/02/2022

(21) Application No.202241007328 A
(43) Publication Date : 18/02/2022

(54) Title of the invention : E-commerce system for Method of producing, selling, and distributing articles of manufacture

(51) International classification :G06Q0030060000, G06Q0030020000, C12Q0001680900, H01N0021462000, G06Q0010080000
(86) International Application No :PCT/
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
An online order gathering system that allows sellers to offer one or a combination of goods that are economically linked in some way with other items and facilitates the aggregation of demand across related items to enable the ability to reach a critical mass of demand for the related goods by a more efficient means than currently available is also provided by the present invention.

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(54) Title of the invention : FINANCIAL PERFORMANCES OF PHARMA COMPANY IN RURAL AREAS

(51) International classification	:G06Q0040000000, G06Q0010060000, G06Q0040020000, G06Q0040060000, G06Q0010040000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
A firm's performance assessment is a topic that has been the subject of debate for many years among decision-makers such as managers, planners, economists, and members of the academic community. A company's policies and activities are evaluated in terms of their monetary outcomes, known as financial evaluation. Financial performance analysis is the examination and interpretation of financial statements so that it provides a comprehensive diagnostic of the profitability and financial soundness of a company. A broad indicator of a company's overall financial health over some time, this word may be used to compare comparable businesses within the same company or to compare companies or industries in aggregate. A company's production and productivity performance, profitability performance, liquidity performance, leverage performance, asset utilization performance, and growth performance are regularly evaluated by financial analysts. To identify the financial strengths and weaknesses of a company, the financial performance analysis must first establish accurate linkages between the items on the balance sheet and those on the profit and loss statement. It has been attempted in this study to analyze the profitability position of five prominent pharmaceutical businesses in India using the mean, standard deviation, coefficient of variation, multiple regression, and analysis of variance as measures of success.

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202241017591 Published Dr. Shashi Kant Gupta

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(19) INDIA
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(54) Title of the invention : ADVANCED AI BASED AUTOMATION TECHNOLOGY IN MANUFACTURING AND SERVICE INDUSTRIES

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(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
It is generally understood that the present invention relates to the fields of manufacturing/ Engineering intelligence, expert system-neural network/expert system technology for use in manufacturing and design & engineering applications, as well as to the fields of methods and systems for providing and implementing professional solutions. A more specific aspect of the present invention relates to the field of applying sophisticated algorithms and interview technologies that allow a user to conceive and design products and processes, and more specifically, to the field of methods and systems for delivering and implementing electronic commerce artificial intelligence-based, neural network-based, and expert system-based engineering and manufacturing solutions that are vertically integrated from concept to completion, and that is based on electronic commerce artificial intelligence, neural network-based, and expert system-based.

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202241020813 Published Dr. Shashi Kant Gupta

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

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(54) Title of the invention : Financial Performance of Selected Public and Private Sector Banks

(51) International classification :G06Q0040000000, G06Q0040020000, G06Q0040060000, F02B0075220000, G06Q0010060000
(86) International Application No :PCT/
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :
Historically, banks have played an important part in developing the country's economic position. The study's primary objective is to examine the financial health of a sample of public and private sector banks in India. According to the findings of this research, the financial performance of a chosen group of banks is examined. There are five characteristics of the CAMEL that are considered when ranking the banks on their performance: capital adequacy, asset quality, management efficiency, earnings ability, and liquidity. The investigation discovered that Kotak Mahindra had done better and was placed #1 among all banks, whereas Punjab National Bank was listed in the bottom half of the list. When comparing private sector banks to public sector banks, private sector banks have outperformed the latter. The top five spots are held by private sector banks, with Bank of Baroda being the only public sector bank in the top three rankings, with HDFC bank.

No. of Pages : 16 No. of Claims : 5

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Patent Search

Invention Title	A SYSTEM MODEL FOR MONITORING THE SLOW ADOPTION RATE OF BLOCKCHAIN TECHNOLOGY
Publication Number	19/2022
Publication Date	13/05/2022
Publication Type	INA
Application Number	202211012976
Application Filing Date	10/03/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0010060000, G06F0016330000, G06T0005500000, G06F0016380000, G06Q0099000000

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Applicant

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Integral University	Integral University Kursi Road Lucknow	India	India

Abstract

Embodiments herein disclose a system for monitoring and identification of significant factors responsible for the slow adoption rate of blockchain technology based on so computing techniques, said process comprising a module A for data collection from experts, a module B for converting linguistic term initial decision matrix into triangular number form, a module C for calculating ratio for each candidate/alternatives, a module D for calculating normalized aggregated ratings for each candidate/alternatives, a module E to implement the fuzzy ratio system method, a module F to implement the fuzzy reference point method, a module G to implement the fuzzy full multiplicative f method, a module H to implement the information entropy weight – fuzzy comprehensive evaluation model, a module I for applying the theory of dominance and getting ranking by summarizing the ranks provided by constituent methods of FCEM-MULTIMOORA-FG, and a module J to select and explain the most significant factors responsib the slow adoption rate of blockchain technology in a particular industry/organization, this module will also suggest possible measures to overcome the observed hurdles. system model may be used by any industry/organization, for all verticals and horizontals, which wants to adopt blockchain technology.

Complete Specification

Claims:A system for monitoring and identification of significant factors responsible for the slow adoption rate of blockchain technology based on soft computing techniques, said process comprising, characterized in that:
a module A (S101a) for data collection from experts;
a module B (S102a) for converting linguistic term initial decision matrix into triangular fuzzy number form;
a module C (S102b) for calculating the ratio for each candidate/alternatives;
a module D (S102c) for calculating normalized aggregated ratings for each candidate/alternatives and the utopian objective reference point;
a module E (S103a) to implement the fuzzy ratio system method;
a module F (S103b) to implement the fuzzy reference point method;
a module G (S103c) to implement the fuzzy full multiplicative form method;
a module H (S103d) to implement the information entropy weight – fuzzy comprehensive evaluation model;
a module I (S104a) for applying the theory of dominance and getting the final ranking

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Patent Search

Invention Title	DEVELOPMENT OF FORMALDEHYDE-TREATED AGRICULTURAL WASTE – OAT (AVENA SATIVA) STRAW
Publication Number	19/2022
Publication Date	13/05/2022
Publication Type	INA
Application Number	202211026684
Application Filing Date	09/05/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C02F0001280000, B01J0020200000, C02F0101140000, B01J0020220000, B01D0053020000

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Mohammad Akhtar	Louis Berger International A WSP Company, Gurugram, Haryana, India.	India	India
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Anand Engineering College	Anand Engineering College, Keetham, Agra, Uttar Pradesh-282007	India	India

Abstract

The research work examines the potential of acid-treated biological waste of agriculture Oat (Avena Sativa) straw for the removal of the concentration of fluoride from groundwater following the chemical treatment using formaldehyde in 1:5 w/v ratio at 50?. The effects of working parameters like initial concentration of fluoride, the effec time, effect of pH and effect of the dose were inspected in the batch mode. Developed adsorbent (Oat straw) efficiency was matched with commercially available activater (CAC) and obtained desirable for working at the conditions of neutral pH. Langmuir isotherm on adsorption data is improved applicability which reflects monolayer adsorp over the homogeneous surface of adsorbents. The pseudo-second-order kinetics data (R2 = 0.985) exhibited improved experimental results. The simple synthesis techniq massive raw material availability made these adsorbents a promising and cost-effective technique for the defluoridation of groundwater.

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Patent Search

Invention Title	A QUASI-Z-SOURCE HIGH STEP UP DC-DC CONVERTER
Publication Number	19/2022
Publication Date	13/05/2022
Publication Type	INA
Application Number	202211026628
Application Filing Date	09/05/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H02M0001080000, H02M0003158000, H02M0007487000, E21B0041/000000, H05B0041280000

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Aligarh Muslim University, Aligarh	Department of Electrical Engineering, ZHCET, Aligarh Muslim University, Aligarh, 202002	India	India

Abstract:

A high gain Direct current (DC)-DC converter that converter DC voltage into higher level DC voltage and comprise of two switches, two diodes, two inductor and two capaci presented in the disclosure. The converter of the disclosure is capable of generating an output voltage of higher level at lower duty ratio D<0.5 with reduced voltage acros switch. A comprehensive comparison with the prior-art converters is performed to accentuate the advantages of the proposed converter.

Complete Specification

Description: 2. TECHNICAL FIELD OF INVENTION AND USE OF INVENTION
The field of the invention is related to power conversion from DC to DC power. This invention provides a very high output voltage gain at lower duty ratio as compared to conventional boost converter. An invented converter can be used in many power electronic applications like photo voltaic solar power generation, high voltage DC to DC transmission and it could also be used in electrical vehicle applications.
3. PRIOR ART AND PROBLEM TO BE SOLVED
The use of high-voltage-gain power converters was limited in the past to a few applications such as supplying power to plasma display panels and integrating batteries to uninterruptible power supply. Today, high-voltage-gain converters are being used in a wide variety of applications such as radar systems, dc distribution systems, renewa energy harvesting, and data centers. Integrating renewable energy into the electric power grid encourages the use of high-voltage gain converters to boost the voltage o the renewable energy sources to be suitable for integration to a 400 V dc distribution system. The use of dc distribution has several advantages over the use of an AC distribution system regarding the number of conversion units, price, and power quality. Therefore, using a high-voltage gain dc-dc converter, one can convert the unregulated low-output voltage of a solar panel to a regulated high-voltage output.
The design goals of power electronic converters vary from application to application, but the most common goals are maximum performance, high power density, or minimum cost. To achieve better performance of the converter, one needs to operate the converter at a suitable frequency, where the switching and core losses are low The common design goals can be even more difficult to achieve in designing high voltage gain step-up converters because of the drawbacks of the existing topologies[1- such as the high voltage stress across components and insufficient voltage gain. Topologies with high voltage stress across components require components with a high

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Patent Search

Invention Title	SMART-STICK FOR VISUALLY IMPAIRED PEOPLE
Publication Number	20/2022
Publication Date	20/05/2022
Publication Type	INA
Application Number	202111045383
Application Filing Date	06/10/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61H0003060000, G09B0021000000, G06F0003160000, A61F0009080000, G08B0021020000

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Abstract:

This invention is related to the discovery of a smart stick comprising novel design and sensors and components useful for the visually impaired person which is able to ser obstacle from the three sides left, right, and front and alert by generating an audio output to the user according to the distance between the user and obstacle. With the h this innovation, we can make visually impaired people's life easier by solving the most common problem related to their visibility. Sometimes, it is very difficult to walk in d home for the visually impaired person, therefore, a suitable solution has been proposed to solve the visual difficulty by using the speaking smart stick. Ultrasonic sensors Arduino microcontroller are used to control all the required components in this system. An audio signal is generated through this stick to alert the user when an object co into the range of ultrasonic sensors, it senses the front, left, and right directions. Inside this stick, audio files are pre-loaded in Micro Micro-SD card and it can be accessed the microcontroller. Three ultrasonic sensors are used to senses the obstacle and a microcontroller is used to calculate the distance through processing and play audio fil according to the distance between a visually impaired person and obstacle.

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Patent Search

Invention Title	DEVELOPMENT OF TCO LAYER FOR PHOTOVOLTAIC CELL BY USING TRANSITION METAL IN ZNO PREPARED BY TWO STEP PROCESS
Publication Number	21/2022
Publication Date	27/05/2022
Publication Type	INA
Application Number	202211029425
Application Filing Date	23/05/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	H01L0031/180000, B82Y0030000000, C23C0018120000, H01G0009200000, C12M0001120000

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Anand Engineering College	Anand Engineering College, Keetham, Agra, Uttar Pradesh-282007	India	India

Abstract

In this invention, we have used a novel methodology called the two-step process in which fabrication of the sample is done through sol-gel and a dip-coating method. The precursors for the doped samples are zinc nitrate hexahydrate as the host and manganese chloride hexahydrate as the dopant. On the samples, the fabrication of ZnO nanoarrays doped with different concentration of Mn was done to develop a TCO layer for solar cells applications.

Complete Specification

Undoped ZnO has certain limitation in its light absorption catalytic activity, which is due to the fast recombining speed of photo-generated electron-hole pairs. It is thus required to dope ZnO with suitable impurity, so as to get the required electrical, magnetic, structural and optical properties, doping with certain transition metal ions are called as Diluted Magnetic Semi-Conductors (DMS). Unique spin dependence optical and electrical properties are generated in such doped samples, due to the strong exchange interactions between external s-p carriers of host and localized d electrons of dopant. Doping with either of '3d' metal ions, like, Mn, Fe, Ni, Co, Cr, etc. lowers d particle size and hence increases the surface area. Out of all these dopants, Mn is preferred as the energy level of its 'd' electron can easily overlap with the valence band ZnO.

SUMMARY OF THE INVENTION:

In this invention, a TCO layer is proposed by the two step-process. The proposed disclosure is presented with the aim to improve the transmittance and conductivity of cl top layer of the photovoltaic cell. It is achieved by using different doping concentration of Mn in host lattice of ZnO nanoarrays. The doping concentration of Mn is varied from 2%, 4%, 6% in ZnO. The advantage of the proposed process is that we obtain high conductivity of 70(ohm cm)-1 and high transmittance of more than 75% in the lov doping samples. Hence such high conductivity and transmittance is achieved in Mn doped ZnO samples prepared by two-step methodology.

EXPERIMENTAL PROTOCOL:

Mn doped ZnO nano particles were prepared by a two-step process. The seed layer was firstly prepared with the help of sol- gel process. ZAD (solute) was dissolved in 2-methoxyethanol and was kept for magnetic stirring for 2 hours at 600C. MEA stabilizer was added dropwise to the above solution with the, molar ratio of 1:1. A clear anc homogeneous solution was formed, which was then left for ageing. It was then filtered and was spin coated on a clean pre heated glass substrate (3000C) at the rate of ...

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202241028031 Published Dr. Shashikant Gupta

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Patent Search

Invention Title	CLOUD COMPUTING AND IOT BASED SMART ECOMMERCE PLATFORM METHOD THEREOF
Publication Number	21/2022
Publication Date	27/05/2022
Publication Type	INA
Application Number	202241028031
Application Filing Date	16/05/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0010080000, G06Q0030060000, G06K0017000000, G06Q0050280000, G06F0016250000

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/12/2021

(21) Application No.202111059361 A
(43) Publication Date : 24/06/2022

(54) Title of the invention : LOW-COST INSTRUMENT TO DETECT THE DEGRADATION OF PHARMACEUTICAL FORMULATIONS BASED MEDICINES

(51) International classification	:G06F0003041000, G01N0021840000, H03J0007040000, G01R0033381500, H03K0017955000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The invention relates to a low cost instrument in order to detect the degradation of pharmaceutical formulation based medicines. In one example, the invention is based on capacitive method in which the sample will be inserted between the two plates of capacitor which is connected to an arm of Wheatstone bridge.

No. of Pages : 13 No. of Claims : 7

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Application Details	
APPLICATION NUMBER	202211035969
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/06/2022
APPLICANT NAME	**Iffat Zareen Ahmad**
TITLE OF INVENTION	NANOEMULSION-BASED COSMECEUTICAL PRODUCTS HAVING UV PROTECTIVE AND ANTI SKIN CANCER PROPERTIES
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	iffat77@gmail.com
ADDITIONAL-EMAIL (As Per Record)	iffat77@rediffmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	23/06/2022
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Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

View Documents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202211039795 Published Prof. Mohammad Haris Siddiqui Prof. Alvina Farooqui Enhanced Cardioprotective Potential of A Combination of Carvedilol And Silk Protein Sericin 7/22/2022

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Patent Search

Invention Title	ENHANCED CARDIOPROTECTIVE POTENTIAL OF A COMBINATION OF CARVEDILOL AND SILK PROTEIN SERICIN
Publication Number	29/2022
Publication Date	22/07/2022
Publication Type	INA
Application Number	202211039795
Application Filing Date	11/07/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	A61K0031704000, A61K0045060000, A61P0009000000, A61K0031403000, A61K0031192000

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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202241040791 Published Dr. Farhina Sardar Khan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/07/2022

(21) Application No.202241040791 A
(43) Publication Date : 22/07/2022

(54) Title of the invention : AN INNOVATIVE ARTIFICIAL INTELLIGENCE-BASED FRAMEWORK FOR HUMAN RESOURCE MANAGEMENT

(51) International classification	:G06Q0010060000, G06Q0010100000, A61B0005024000, G06N0020000000, G06F0011360000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
In this competitive world, it is vital for organizations to survive and remain competitive; so AI can be a tool for doing the same. For a long time, organizations have been using Artificial Intelligence (AI) technology to automate tasks, especially those that need low to high cognitive. The HR department is not an exception. Nowadays, if we see how organizations function (practical and theoretical), we can understand that AI has already emerged. Organizations are using it to automate different tasks. This paper discusses how HRM was practiced before the AI era and why HRM changed to AI-HRM. A conceptual framework has been used to show the relationship between AI technology applications with HR functions (recruitment and deployment, training and development, performance management, compensation management, and employee relationship).

No. of Pages : 8 No. of Claims : 7

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202241039693 Published Prof. Syed Shahid Mazhar

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/07/2022

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(43) Publication Date : 22/07/2022

(54) Title of the invention : AN INTEGRATED HUMAN-AI PARADIGM THROUGH ORGANISATIONAL AGILITY AND SUSTAINABLE PERFORMANCE

(51) International classification :G06Q0010060000, G06F0016951000, G06N0003040000, H04Q00030000000, H04L0012707000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Companies are facing important challenges related to markets' internationalisation, regulatory restrictions and fierce competition, especially during the COVID19 crisis. They should embrace change and be agile to prevent risks and seize opportunities quickly and efficiently. In this article, we examine how artificial intelligence (AI) can help companies to enhance their organisational agility. Based on two systematic literature reviews, we identified the weaknesses of relying only on digital enablers or human resource (HR) practices. Thus, we propose a Framework integrating artificial intelligence and human practices to help companies achieve agility. This latter allows companies to adapt to new societal regulations, customers' expectations, and environmental changes. Ultimately, agile companies can ensure sustainable performance.

No. of Pages : 9 No. of Claims : 7

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202221037612 Published Dr. Abdul Tayyab Khan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/06/2022

(21) Application No.202221037612 A
(43) Publication Date : 22/07/2022

(54) Title of the invention : ONLINE AUCTION AND FINE USING ML AND IOT - BASED SYSTEM

(51) International classification : G06Q0030020000, G06Q0030000000, G06Q0010000000, H04L0067327000, H04W0004-0060000
(86) International Application No : NA
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(61) Patent of Addition to Application Number : NA
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Filing Date : NA

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(57) Abstract :
As a result of Gig Economy, IT is gradually has a lot of disruption in the Online Auction System utilizing Machine Learning and Internet of Things (IoT) to model web-based sales in which the ultimate allocation of competing offers to each closeout and the limitations of settlements are considered. We come up with a unique programming solution to the investigative kit problem and demonstrate that effectiveness is increased by making a bid for each promoter equal to the sponsor's normal incentive for publicizing an open door in addition to a term corresponding to the fluctuation in the value divided by the number of impressions the sponsor has received thus far. Afterward, we use this finding to demonstrate that the advantages of conducting dynamic research in a closeout climate are negligible. An advertisement's value is determined in this section, and this strategy is used to identify the best technique for selling it. A sponsorship's performance is then assessed for a certain time frame during which the broker submits a spin the bid for the sponsor with a dubious electronic CPM. To get to this stage in the article, we've been finding about a basic unique programming method in which the optimum decision, a sort of random mean, is influenced to some degree by what the choice means for future choices while surveying the succeeding skyline in front. However, there has been recent work on an elective methodology known as information angles, in which the choice one makes in a given period is the choice one would make if confronted with an infinite skyline game, but this period was the last time frame in which the data one learned could be utilized in alternative future activities.

No. of Pages : 20 No. of Claims : 4

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202211036577 Published Prof. Syed Shahid Mazhar Dr. Farhina Sardar Khan Ms. Saleha Mariyam

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/06/2022

(21) Application No.202211036577 A
(43) Publication Date : 08/07/2022

(54) Title of the invention : BLOCKCHAIN-BASED COMMERCIAL INVENTORY MANAGEMENT SYSTEM AND METHOD

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(51) International classification : [illegible]
(86) International Application No : NA
Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
Filing Date : NA

(57) Abstract
The book herein is a system and method of efficiently managing commercial inventory using blockchain privacy and security tools. The system comprises plurality of user nodes (100) provided in a communication network (200), and a blockchain database (300). The user nodes are communicatively coupled in the distributed network to read, analyze, update and share various commercial inventory values among themselves. The blockchain comprises plurality of blocks to store records of all transactions carried out by the user nodes in the distributed network. Each user node comprises a data processing engine configured to: generate a hash value for each block using a public key, link the blocks by tagging the hash value of one block to its next block, broadcast followed by validation of the transaction of records on real time basis, and enable the transaction of records to be accessed using a private key.

No. of Pages : 21 No. of Claims : 10

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202211044085 Published Prof. Iffat Zareen Ahmad

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Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202211044085
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/08/2022
APPLICANT NAME	**Integral University**
TITLE OF INVENTION	CYDONIA OBLONGA MILL. SEED EXTRACT AND ITS NANOEMULSION AS ANTI-HEPATOCELLULAR CARCINOMA AGENTS
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	deanrnd@iul.ac.in
ADDITIONAL-EMAIL (As Per Record)	iffat@iul.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	02/08/2022
PUBLICATION DATE (U/S 11A)	12/08/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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202211048978 Published Prof. Mohammed Haris Siddiqui

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Patent Search

Invention Title	PREPARED AND INNOVATE OF FORMALDEHYDE-TREATED AGRICULTURAL WASTE – PEA (PISUM SATIVUM) STRAW RAW
Publication Number	35/2022
Publication Date	02/09/2022
Publication Type	INA
Application Number	202211048978
Application Filing Date	27/08/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C02F0001280000, C02F0101140000, B01J0020220000, C02F0103060000, C02F0101300000

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Mohammad Akhtar	Louis Berger International A WSP Company, Gurugram	India	India

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Abstract:

The research work undertakes to examine the potential of acid-treated biological waste of agriculture Pea (Pisum sativum) straw Raw for the defluoridation of concentratic fluoride from groundwater following the chemical treatment using formaldehyde in 1:5 w/v ratio at 50? for 4 hours. The effects of working factors (i) pH (ii) Dose(iii) Time (i fluoride concentration, were checked in the batch mode. The competence of prepared Pea straw Raw was matched with commercially available activated carbon (CAC) anc desirable for working at neutral pH (7) conditions. The model of Langmuir isotherm on adsorption data is enhanced applicability which showed monolayer adsorption ove homogeneous adsorbents surface. The pseudo-second-order kinetics data (R2 =0.98) showed enhanced the results of experiment. The simple synthesis technique and ma raw material availability made these adsorbents a promising and cost-effective technique for the removal of concentration of fluoride of groundwater.

INTEGRAL UNIVERSITY
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202211048061 Published Dr. Abdur Raheem Khan

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Patent Search

Invention Title	IOT BASED PATIENT MONITORNING SYSYTEM USING SENSORS TO DETECT, ANALYSE AND MONITOR TWO PRIMARY VITAL SIGNS
Publication Number	35/2022
Publication Date	02/09/2022
Publication Type	INA
Application Number	202211048061
Application Filing Date	23/08/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61D0005000000, A61B0005020500, A61D0005024000, A61B0005080000, A61D0005010000

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/08/2022

(21) Application No.202211048063 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : IOT BASED WEARABLE DEVICE TO MONITOR THE SIGNS OF QUARANTINED REMOTE PATIENTS OF COVID-19

(71)Name of Applicant :
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(51) International classification :A61B00030000000, G16H00500000000, H04L00290800000, G16H00400700000, A61B00051100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :
Latest technology struggle to monitor and manage COVID-19 patients. This IoT-based wearable gadget measures COVID-19 vital indicators. By monitoring possibly contaminated individuals' real-time GPS data, the technology warns medical authorities of any quarantine violations. The wearable sensor is connected to an edge node in IoT cloud, where data is processed and analyzed to determine health. The suggested system has three layers: wearable IoT sensor, cloud with API, and Android web for mobile phones. First, IoT sensor data is used to determine health symptoms. Next, preventive measures, notifications, and immediate actions are stored in the cloud database. Android mobile app layer notifies and alerts possibly affected patient family respondents. API and mobile app synchronize for anticipating and alarming. Monitoring, managing, and evaluating COVID-19 symptoms require this design. The paper reveals how a digital wearable platform can monitor a COVID-19 patient's health and rehabilitation.

No. of Pages : 14 No. of Claims : 7

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202211048059 Published Dr. Abdur Raheem Khan

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Patent Search

Invention Title	IoT BASED REMOTE PATIENT HEALTH MONITORING SYSTEM
Publication Number	35/2022
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Publication Type	INA
Application Number	202211048059
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Field Of Invention	COMMUNICATION
Classification (IPC)	H04L0029080000, A61B0005000000, G16H0050200000, A61B0005020500, A61B0005145200

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Patent Search

Invention Title	DEVELOPMENT OF AN IoT BASED HEALTH MONOTORING SYSTEM FOR E-HEALTH
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Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61B0005000000, A61B0005020500, G06Q0050220000, A61B0005024000, G16H0040670000

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2022

(21) Application No.202241057567 A
(43) Publication Date : 28/10/2022

(54) Title of the invention : MACHINE LEARNING BASED TECHNIQUE INTEGRATED WITH SIX SIGMA METHODOLOGIES FOR PREDICTING THE STRESS OF EMPLOYEES IN AN ORGANIZATION

(51) International classification	:G06N0020000000, G06Q0010060000, G06K0009620000, H04W0004029000, B01D0053180000
(86) International Application No	:PCT//
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
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(62) Divisional to Application Number	:NA
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(57) Abstract :
Machine Learning based technique integrated with Six Sigma Methodologies for Predicting the Stress of Employees in an Organization is the proposed invention. The proposed invention focuses on reducing the stress induced on employees by monitoring their tasks and gauging the tasks accomplished by them. The algorithms of machine learning are used for predicting their stress. The six sigma methodologies are used for improving the work ability of employees.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022

(21) Application No.202211059361 A
(43) Publication Date : 28/10/2022

(54) Title of the invention : BLOCKCHAIN BASED TECHNIQUE TO FACILITATE SECURITY IN THE ONLINE TRANSACTIONS OF E-COMMERCE SITE FOR SMOOTH FINANCIAL MANAGEMENT

(51) International classification :G06Q0030060000, H04L0009320000, G06Q0020020000, G06Q0120380000, G06Q0030010000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Blockchain based technique to facilitate security in the Online Transactions of E-Commerce Site for smooth Financial Management is the proposed invention. The invention focuses on designing a framework that maintains ledgers in block chain for checking the authenticity of consumers who are making payment. The proposed invention focuses on achieving security and privacy in the payment gateway of e-commerce sites.

No. of Pages : 13 No. of Claims : 4

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202241060892 Published Prof. Roohi

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Government of India

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Application Details

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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/10/2022
APPLICANT NAME	**1 . Tr. Perala Sudheer Paul** **2 . Dr. Pallavi N** **3 . Dr. Roohi** **4 . Dr. M. Parthasarathy** **5 . Dr. Ikechukwu Peter EJIDIKE** **6 . Mr. Kotta Apparao** **7 . Dr. Ashish Verma**
TITLE OF INVENTION	Low cost Biodegradable plastic production using Nanotechnology
FIELD OF INVENTION	POLYMER TECHNOLOGY
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/11/2022

Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

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(19) United States
(12) Patent Application Publication
Ansari et al.
(10) Pub. No.: US 2022/0373437 A1
(43) Pub. Date: Nov. 24, 2022

(54) SYSTEM FOR EVALUATING CHEMO-PREVENTIVE POTENTIAL OF PHC AND ITS PREPARED CHITOSAN NANOPARTICLES

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(21) Appl. No.: **17/816,792**

(22) Filed: **Aug. 2, 2022**

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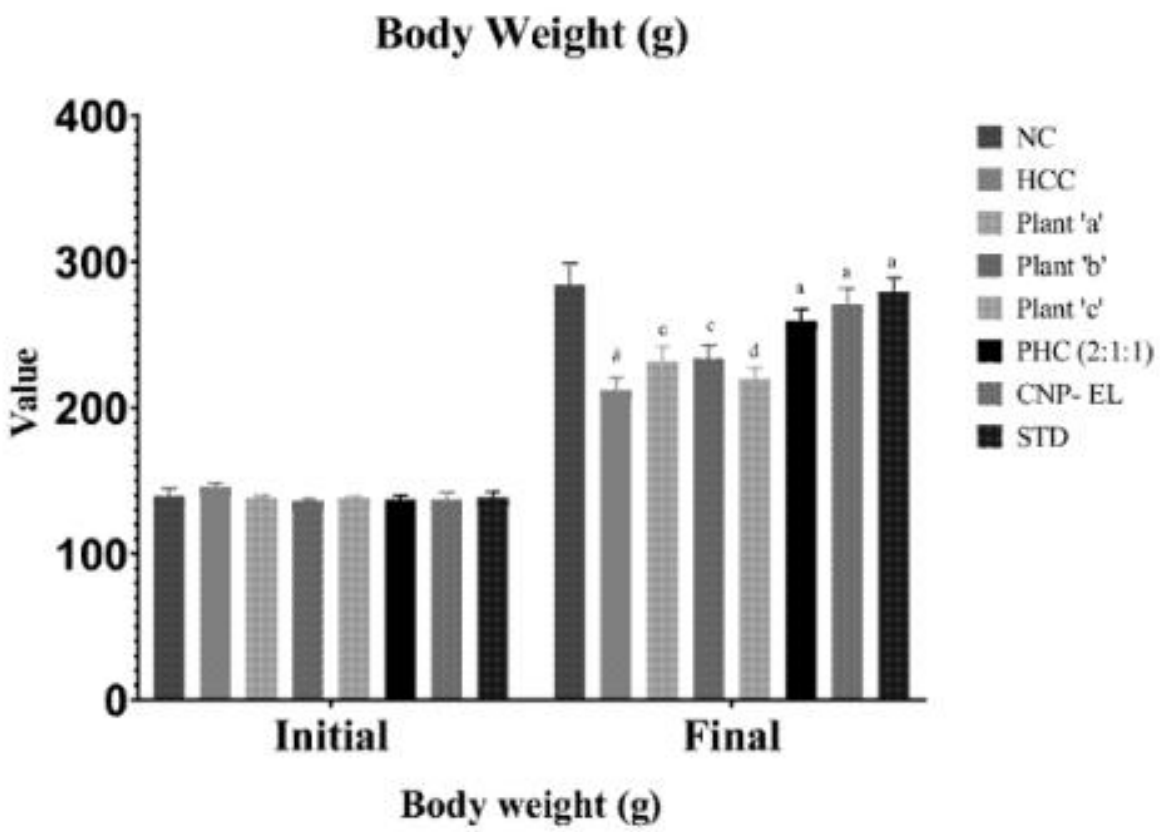
(57) **ABSTRACT**

A system for treating cancer and evaluating chemo-preventive potential of PHC and its prepared chitosan nanoparticles is described. The rats are divided into eight groups, from which group 1 is served as normal control, and group 2-8 are given single dose of DEN and repeated dose of CCl_4, wherein freshly prepared solution of DEN in normal saline is used for the induction of HCC in rats by administering 200 mg/kg, i.p., PHC (2:1:1) in normal saline suspension to administer at doses of 900 mg/kg, wherein serum and tissue samples are collected after anesthetizing overnight fasted rats using intraperitoneal administration of thiopentone sodium at a dose of 40 mg/kg, wherein the collected serum and tissue samples is treated and thereby the chemo-preventive potential of PHC (2:1:1) and its prepared chitosan nanoparticles is evaluated upon determining liver markers, antioxidant parameters, total bilirubin, protein, lipid peroxidation, and liver cancer biomarkers.



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202211065060 Published Mr. Zeeshan Raza Khan Prof. Syed Aqeel Ahmad

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2022
(21) Application No.202211065060 A
(43) Publication Date : 25/11/2022

(54) Title of the invention : WATER DUST SEPARATOR FOR CLOG RESISTANT WATER TRANSMISSIBLE PAVEMENTS

(51) International classification	:C09D0007610000, E03F0001000000, C11D0003000000, G06Q0050260000, E02B0005080000
(86) International Application No	:NA
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(87) International Publication No	: NA
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(62) Divisional to Application Number	:NA
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(57) Abstract :
The present disclosure relates to a water-dust separator (100) for application in clog resistant water transmissible pavements in supporting sustainable urban drainage system (SUDS) (200). The water-dust separator (100) is configured such that there is no dust entry during dry days (without rainfall) and minimal dust entry during the rainfall days. The water-dust separator (100) is configured to provide a passage to rainfall discharge to traverse through porous layer of a pavement and exits to streams to recycle and utilization. The rainfall discharge exited is water free from the dust from tire of vehicles, fine aggregate transportation, ravelling, and so on.

No. of Pages : 30 No. of Claims : 10

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202211064391 Published Ms. Roshan Jahan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2022
(21) Application No.202211064391 A
(43) Publication Date : 25/11/2022

(54) Title of the invention : A SYSTEM FOR MEDICAL IMAGING AND DIAGNOSTICS USING MACHINE LEARNING AND A METHOD THEREOF

(51) International classification	:G06T0005000000, G06N0020000000, A61B0005000000, G16H0050200000, A61B0006000000
(86) International Application No Filing Date	:NA :NA
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(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
A system (100) and a method (200) for medical imaging and diagnostics using machine learning, comprises of: a data acquisition module (102) for receiving at least an image of a dental matter to be examined; a pre-processing module (104) connected to the data acquisition module (102) for denoising the obtained image and enhance the received image by a denoising technique; a feature extraction module (106) for extracting a plurality of dental features to detect the dental condition of the patient; a classification module (108) for classifying the plurality of dental features into plurality of classes to determine healthy or unhealthy dental condition based on the machine learning technique; and a recommendation module (110) connected to the classification module (108) for recommending treatments to maintain a healthy tooth based on the determined dental condition by the machine learning technique.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202211066959 Published Dr. Mohd Khursheed

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2022
(21) Application No.202211066959 A
(43) Publication Date : 02/12/2022

(54) Title of the invention : SYSTEM OF COORDINATED AUTOMATIC FRAMEWORK FOR MULTIPLE UNMANNED AERIAL VEHICLES AND MOBILE ROBOT USED FOR MEDICALWASTE TRANSPORTATION

(51) International classification :G05D0001100000, H04W0036000000, G06Q0010060000, A61L0011000000, B25J0009160000
(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 :Associate Professor, Department of Electrical Engineering , MJP Rohilkhand University, Bareilly 243006 Lucknow ---------- ----------
2)Ayan Sharma
3)Antas Sharma
4)Ravindra Kumar
5)Mohd. Khursheed
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Desh Deepak Sharma
Address of Applicant :Associate Professor, Department of Electrical Engineering , MJP Rohilkhand University, Bareilly 243006. Lucknow ---------- ----------
2)Ayan Sharma
Address of Applicant :Student, Department of Electronics Engineering , NIT Hamirpur (H.P.) Hamirpur ---------- ----------
3)Antas Sharma
Address of Applicant :Student, Department of Computer Science , Bennett University , Greater Noida (U.P.) Greater Noida ---------- ----------
4)Ravindra Kumar
Address of Applicant :Assistant Professor , Department of Electrical Engineering, A K G Engineering College , Ghaziabad Ghaziabad ---------- ----------
5)Mohd. Khursheed
Address of Applicant :Associate Professor, Integral University, Lucknow, UP, India. Lucknow ---------- ----------

(57) Abstract :
The present invention relates to system of coordinated automatic framework for multiple unmanned aerial vehicles and mobile robot used for medical-waste transportation. The objective of the present invention is to solve the problems in the prior art related to coordinated automatic framework for multiple unmanned aerial vehicles control. The present invention discloses an intelligent automatic framework for multi-drone mobile robot system concentrates to obtain optimal routing, seamless handover, and improved energy efficiency for medical waste transportation.

No. of Pages : 27 No. of Claims : 6

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202221071843 Published Ms. Roshan Jahan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/12/2022

(21) Application No.202221071843 A
(43) Publication Date : 23/12/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR FACE DETECTION AND RECOGNITION USING MACHINE LEARNING AND WSN

(51) International classification	:G06K0009620000, H04L0067100000, A63B0024000000, G06N0020000000, G06F0003120000
(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 :VIT Bhopal University, Indore Road, Bhopal, Madhya Pradesh 466114, India Bhopal ---------- ----------
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3)Dr. Vipin Khattri
4)Prof. Roshan Jahan
5)Prof. Joginder Singh
6)Dr. Varshali Jaiswal
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
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Address of Applicant :VIT Bhopal University, Indore Road, Bhopal, Madhya Pradesh 466114, India Bhopal ---------- ----------
2)Dr. Sasmita Padhy
Address of Applicant :VIT Bhopal University, Indore Road, Bhopal, Madhya Pradesh 466114, India Bhopal ---------- ----------
3)Dr. Vipin Khattri
Address of Applicant :Teerthanker Mahaveer University, Moradabad, Uttar Pradesh 244001, India Moradabad ---------- ----------
4)Prof. Roshan Jahan
Address of Applicant :Integral University, Lucknow, Uttar Pradesh 226026, India Lucknow ---------- ----------
5)Prof. Joginder Singh
Address of Applicant :Professor, Electronics and Communication, Gateway Institute of Engineering and Technology, Affiliated with Deenbandhu Chhotu Ram University of Science and Technology Sonipat, 131001, Haryana Sonipat ---------- ----------
6)Dr. Varshali Jaiswal
Address of Applicant :VIT Bhopal University, Indore Road, Bhopal, Madhya Pradesh 466114, India Bhopal ---------- ----------

(57) Abstract :
The face detection and recognition system comprises a camera(102) for capturing sparse image data and sending the sparse image data and metadata received from a cloud server(104) to a central node(108) using a communication device(106); a pre-processor(110) for extracting semantic forms and compressing data from the images in the feature domain using a semantic abstraction for generating sparse image data describing low-level features based on compressed image data and generating actionable insights based on the semantic abstraction; a training unit(112) for training a support vector machine based on sparse image data and metadata; and a central processor(114) for detecting a face/object in one particular category in an image and extracting a frame portion including a face/object in one of the categories from a frame of the image using the support vector machine for detecting and recognizing the face/object upon comparing the sparse image data and threshold images from the metadata.

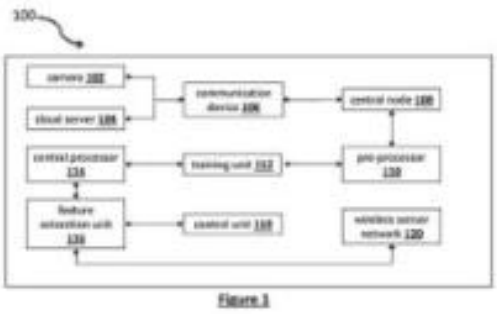
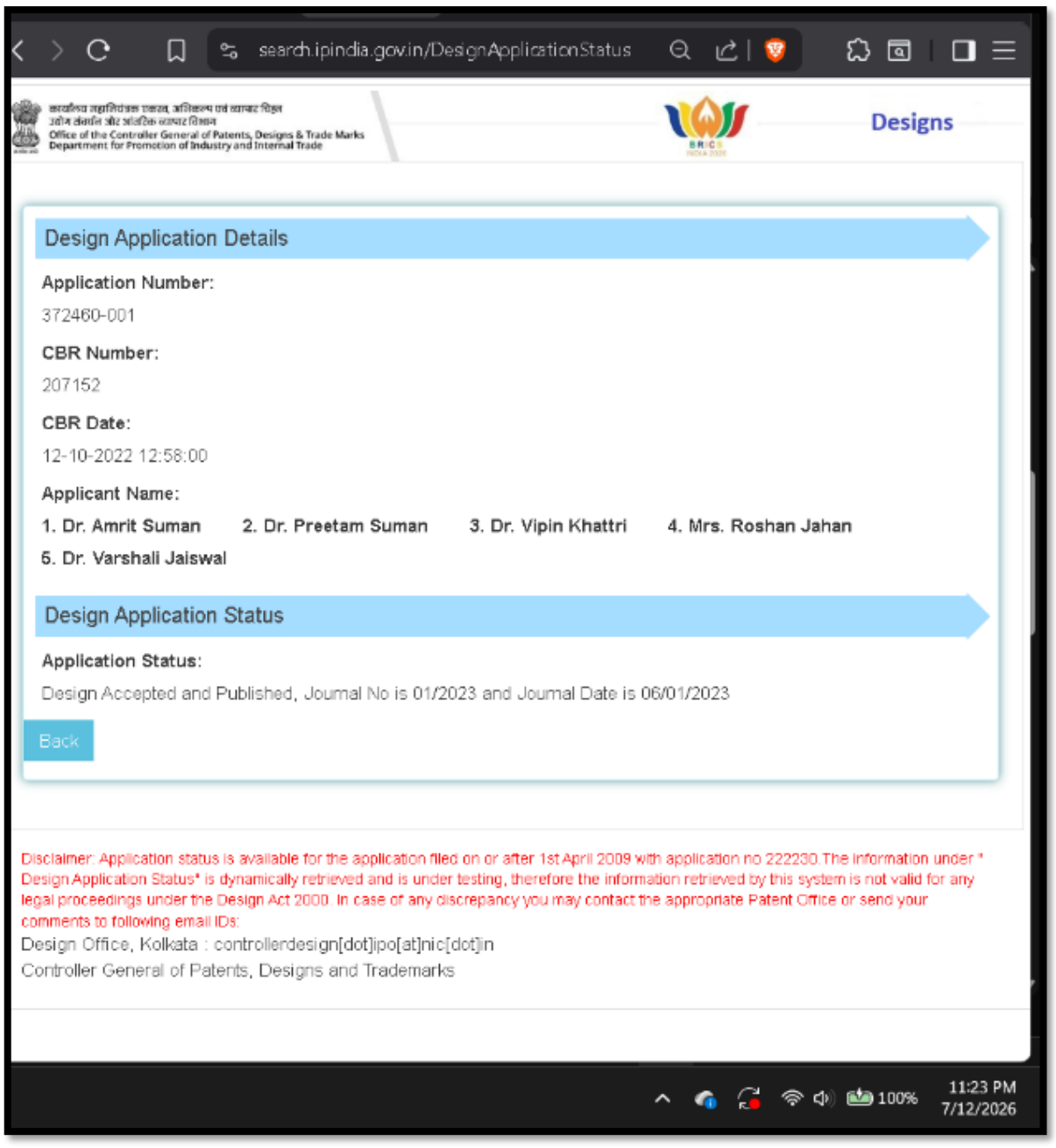


Figure 1

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

372460-001 Published Ms. Roshan Jahan



search.ipindia.gov.in/DesignApplicationStatus

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

Designs

Design Application Details

Application Number:
372460-001

CBR Number:
207152

CBR Date:
12-10-2022 12:58:00

Applicant Name:
1. Dr. Amrit Suman 2. Dr. Preetam Suman 3. Dr. Vipin Khattri 4. Mrs. Roshan Jahan
5. Dr. Varshali Jaiswal

Design Application Status

Application Status:
Design Accepted and Published, Journal No is 01/2023 and Journal Date is 06/01/2023

Back

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:
Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

100% 11:23 PM 7/12/2026

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411089576 Granted Poonam Kushwaha

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	202411089576
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/11/2024
APPLICANT NAME	**1 . Prof. Poonam Kushwaha** **2 . Mr. Mohd Sufiyan** **3 . Dr. Mohammad Ahmad** **4 . Ms. Purba Mandal** **5 . Ms. Widhilika Singh** **6 . Dr. Mohammad Suhail Akhter** **7 . Mr. Anas Khan** **8 . Ms. Ishma Rahela Khan** **9 . Ms. Jeba Bano** **10 . Mr. Aniket Yadav**
TITLE OF INVENTION	CURCUMIN AND BETA-SITOSTEROL LOADED HYDROGEL SCAFFOLDS FOR ACCELERATED WOUND HEALING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	info@lexgin.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/11/2024

Application Status

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

435036001 Granted Dr. Shom Prakash Kushwaha. Prof. Syed Misbahul Hasan. Prof. Kuldeep Singh. Dr. Arun Kumar. Dr. Abdul Hafeez. Dr. Irfan Aziz.

INTELLECTUAL PROPERTY INDIA
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GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 188409

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. : 435036-001

तारीख / Date : 21/10/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *PHARMACEUTICAL CHAMBER WITH MICROBIAL CONTROL SYSTEM FOR STORAGE PURPOSE AND STABILITY STUDIES* से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Shom Prakash Kushwaha 2. Prof. Syed Misbahul Hasan 3.Prof. Kuldeep Singh 4.Dr. Arun Kumar 5.Dr. Abdul Hafeez 6.Dr. Irfan Aziz 7.Dr. Smriti Ojha 8.Dr. Garima Verma 9.Dr. Pavan Kumar 10.Mr. Hemendra Mishra के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to *PHARMACEUTICAL CHAMBER WITH MICROBIAL CONTROL SYSTEM FOR STORAGE PURPOSE AND STABILITY STUDIES* in the name of 1.Dr. Shom Prakash Kushwaha 2. Prof. Syed Misbahul Hasan 3.Prof. Kuldeep Singh 4.Dr. Arun Kumar 5.Dr. Abdul Hafeez 6.Dr. Irfan Aziz 7.Dr. Smriti Ojha 8.Dr. Garima Verma 9.Dr. Pavan Kumar 10.Mr. Hemendra Mishra.

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

जारी करने की तिथि : 27/12/2024
Date of Issue :

उमा पंडित
महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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*पारस्परिकता 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

2022/13460 Granted Dr. Shazia Usmani

REPUBLIC OF SOUTH AFRICA REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

Dr. Arun Kumar Mishra; Dr. Tapan Behl; Dr. Shazia Afzal Usmani; Vikrant Vijaykumar Chilate; Dr. Gowrish Bhat; Dr. Vandana Sadananda; Hemanta Pathak; Meera Kumari; Pavan Kumar; Priyanka Bajpai

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/13460

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the 29th day of March 2023

Registrar of Patents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

377928-001 Granted Dr. Shom Prakash Kushwaha

ORIGINAL

मूल/No : 131083

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	377928-001
तारीख / Date	:	24/01/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SMART TITRATION UNIT FOR EFFECTIVE LEARNING AND SUPERLATIVE KNOWLEDGE** से संबंधित है, का पंजीकरण, श्रेणी **24-02** में 1.Prof. (Dr) Munendra Mohan Varshney 2. Dr. Sameer Rastogi 3.Dr. Anurag 4.Dr. Shom Prakash Kushwaha 5.Dr. Neha Mathur के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-02** in respect of the application of such design to **SMART TITRATION UNIT FOR EFFECTIVE LEARNING AND SUPERLATIVE KNOWLEDGE** in the name of 1.Prof. (Dr) Munendra Mohan Varshney 2. Dr. Sameer Rastogi 3.Dr. Anurag 4.Dr. Shom Prakash Kushwaha 5.Dr. Neha Mathur.

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

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निर्गमन की तारीख/Date of Issue : 15/03/2023

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

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

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6289744 Granted Dr. Shom Prakash Kushwaha

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6289744

Grant date: 21 June 2023

Registration date: 13 June 2023

This is to certify that,

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

Prof. DR. VENKATACHALAM GOPAL, Ms. Nikita Kishor Kale, Dr. Prasoon

Kumar Saxena, Dr. Kishore More , Dr. Anil Ahuja, Ashish Nandakumar Phuge,

Dr. Jabeen Farhana, Shaik Munwar, Dr. Shom Prakash Kushwaha, Lalit Kumar,

Dr. Nitendra Kumar Sahu

in respect of the application of such design to:

Infrared spectrophotometer

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

THE PATENT OFFICE OFFICIAL

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

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6320786 Granted Dr Kuldeep Singh

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6320786

Grant date: 30 October 2023

Registration date: 21 October 2023

This is to certify that,

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

Prof. Rama Rao Nadendla, Dr. Alugubelli Gopi Reddy, Dr. Dalli Rajagopal

Nagesh, Chahat Khanna, Deepak Kumar Singh, Dilip Kumar Mishra, Ruchi

Bhatia Kapoor, Dr. Kuldeep Singh, Ganesh Ramchandra Phadtare, Dr. Jagdish

Labhubhai Kakadiya

in respect of the application of such design to:

Device for Measuring Analgesic and Anti Inflammatory Activity of Certain

Synthetic Compounds

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

THE PATENT OFFICE
OFFICIAL

Adam Williams

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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6319350 Granted Dr Kuldeep Singh

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6319350

Grant date: 23 October 2023

Registration date: 16 October 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. Ram Kumar Choudhary, Mrs. Sarita Solanki, Dr. Sachin Shrikrushna Rane,

Ms. Nikitasha Bharat Patil Thorat, Dr. Shiv Kumar Gupta, Amit Budhori, Jyoti

Prakash Guru, Dr. Mahaveer Prasad Khinchi, Mr. Kore Kakasaheb Jagannath,

Mr. Devendra Joshi, Dr. Kuldeep Singh

in respect of the application of such design to:

Fully Automatic Centrifuge Machine

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

THE PATENT OFFICE OFFICIAL

Adam Williams

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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

398862-001 Granted Dr Kuldeep Singh

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 150495

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. : 398862-001

तारीख / Date : 31/10/2023

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *MEDICAL INSTRUMENT FOR TRANSDERMAL DELIVERY OF INSULIN* से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Jyothirmayee 2. Gireesh Tripath 3.Gyan Singh 4.Dr. K. Daniel Raju 5.Dr. Ganesh Gundu Keshavshetti 6.Dr. Kuldeep Singh 7.Mr. Suresh Babu Emandi 8.Prof. Kiran Kumar Dhawale 9.Kavita Pant 10.Rimpal Kanyal के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to *MEDICAL INSTRUMENT FOR TRANSDERMAL DELIVERY OF INSULIN* in the name of 1.Dr. Jyothirmayee 2. Gireesh Tripath 3.Gyan Singh 4.Dr. K. Daniel Raju 5.Dr. Ganesh Gundu Keshavshetti 6.Dr. Kuldeep Singh 7.Mr. Suresh Babu Emandi 8.Prof. Kiran Kumar Dhawale 9.Kavita Pant 10.Rimpal Kanyal.

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

जारी करने की तिथि :
Date of Issue : 19/12/2023

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

*पारस्परिकता 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6320786 Granted Dr Kuldeep Singh

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6320786

Grant date: 30 October 2023

Registration date: 21 October 2023

This is to certify that,

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

Prof. Rama Rao Nadendla, Dr. Alugubelli Gopi Reddy, Dr. Dalli Rajagopal

Nagesh, Chahat Khanna, Deepak Kumar Singh, Dilip Kumar Mishra, Ruchi

Bhatia Kapoor, Dr. Kuldeep Singh, Ganesh Ramchandra Phadtare, Dr. Jagdish

Labhubhai Kakadiya

in respect of the application of such design to:

Device for Measuring Analgesic and Anti Inflammatory Activity of Certain

Synthetic Compounds

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

THE PATENT OFFICE
OFFICIAL

Adam Williams

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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6319350 Granted Dr Kuldeep Singh

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6319350

Grant date: 23 October 2023

Registration date: 16 October 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. Ram Kumar Choudhary, Mrs. Sarita Solanki, Dr. Sachin Shrikrushna Rane,

Ms. Nikitasha Bharat Patil Thorat, Dr. Shiv Kumar Gupta, Amit Budhori, Jyoti

Prakash Guru, Dr. Mahaveer Prasad Khinchi, Mr. Kore Kakasaheb Jagannath,

Mr. Devendra Joshi, Dr. Kuldeep Singh

in respect of the application of such design to:

Fully Automatic Centrifuge Machine

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

THE PATENT OFFICE OFFICIAL

Adam Williams

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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

398862-001 Granted Dr Kuldeep Singh Medical instrument for transdermal delivery of insulin 12/19/2023

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 150495

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. : 398862-001

तारीख / Date : 31/10/2023

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *MEDICAL INSTRUMENT FOR TRANSDERMAL DELIVERY OF INSULIN* से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Jyothirmayee 2. Gireesh Tripath 3.Gyan Singh 4.Dr. K. Daniel Raju 5.Dr. Ganesh Gundu Keshavshetti 6.Dr. Kuldeep Singh 7.Mr. Suresh Babu Emandi 8.Prof. Kiran Kumar Dhawale 9.Kavita Pant 10.Rimpal Kanyal के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to *MEDICAL INSTRUMENT FOR TRANSDERMAL DELIVERY OF INSULIN* in the name of 1.Dr. Jyothirmayee 2. Gireesh Tripath 3.Gyan Singh 4.Dr. K. Daniel Raju 5.Dr. Ganesh Gundu Keshavshetti 6.Dr. Kuldeep Singh 7.Mr. Suresh Babu Emandi 8.Prof. Kiran Kumar Dhawale 9.Kavita Pant 10.Rimpal Kanyal.

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

जारी करने की तिथि :
Date of Issue : 19/12/2023

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

*पारस्परिकता 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202022102420 Granted Dr. Shabana Khatoon Dr. Anup Kumar sirbaiya

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 102 420

Bezeichnung:
Thiadiazol-Derivate mit antibakterieller Aktivität

IPC:
A61K 31/433

Inhaber/Inhaberin:
Ahmad, Tanzeem, Barabanki, UP, IN
Ara, Nargis, Lucknow, UP, IN
Khatoon, Shabana, Lucknow, UP, IN
Kumar Mishra, Arun, Dr., Moradabad, UP, IN
Kumar Sirbaiya, Anup, Dr., Lucknow, UP, IN
Lanchhana Das, Sribatsa, Kanpur, UP, IN
Prakash Pulate, Chetan, Pune, MH, IN
Singh, Meena, Prayagraj, UP, IN
Singh, Swati, Barabanki, UP, IN

Tag der Anmeldung:
04.05.2022

Tag der Eintragung:
09.05.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 09.05.2022

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

2022/04700 Granted Dr. Vaseem Ahmad Ansari Prof. Tariq Mahmood Ansari Dr. Farogh Ahsan Dr. Arshiya Shamim

REPUBLIC OF SOUTH AFRICA REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

Ansari, Vassem Ahmad; Singh, Aditya; Haider, Md. Faheem; Mahmood, Tarique; Ahsan, Farogh; Shamim, Arshiya; Wasim, Rufaida; Maheshwari, Shubhrat

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/04700

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the **29th day of June 2022**

.....
Registrar of Patents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202022100612 Granted Prof. Poonam Kushwaha

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 100 612

Bezeichnung:
Polykräuterformulierung für Diabetes

IPC:
A61K 36/58

Inhaber/Inhaberin:
Ansari, Mohd Nazam, Alkharj, SA
Garg, Vipin Kumar, Dr., Meerut, IN
Kushwaha, Poonam, Dr., Lucknow, IN
Sharma, Nisha, Dr., Kanpur, IN
Shukla, Sugat, Lucknow, IN
Singh, Harpreet, Dr., Moradabad, IN
Singh, Parul, Kanpur, IN
Usmani, Shazia, Dr., Lucknow, IN
Yadav, Meena Kumari, Dr., Lucknow, IN

Tag der Anmeldung:
03.02.2022

Tag der Eintragung:
23.02.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 23.02.2022

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202022103773 Granted Prof. Poonam Kushwaha

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 773

Bezeichnung:
Eine neuartige pflanzliche Formulierung zur Prävention und Behandlung von Herz-Kreislauf-Erkrankungen

IPC:
A61K 36/47

Inhaber/Inhaberin:
Bhattacharjee, Bedanta, Sonitpur, IN
Das, Soma, Kolkata, IN
Kalita, Pallab, Kamrup, IN
Kalitia, Rupjyoti, Guwahati, IN
Kushwaha, Poonam, Lucknow, IN
Mittal, Gaurav, Jhansi, IN
Sarkar, Dhrubajyoti, Guwahati, IN
Sen, Ashim Kumar, Vadodara, IN
Somwanshi, Bhagwat Tukaram, Latur, IN

Tag der Anmeldung:
06.07.2022

Tag der Eintragung:
15.08.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 15.08.2022

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202011049258 Granted Prof. Tariq Mahmood Ansari Dr. Arshiya Shamim Dr. Farogh Ahsan

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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

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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

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

Application Details	
APPLICATION NUMBER	202011049258
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/11/2020
APPLICANT NAME	**1 . Dr. Tarique Mahmood Ansari** **2 . ARSHIYA SHAMIM,** **3 . HEFAZAT HUSSAIN SIDDIQUI** **4 . MOHD HARIS SIDDIQUI** **5 . FAROGH AHSAN**
TITLE OF INVENTION	A NOVEL POLYHERBAL COMBINATION FOR PERIPHERAL NEUROPATHY ASSOCIATED WITH DIABETES
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	rubina.ipconsultant@gmail.com
ADDITIONAL-EMAIL (As Per Record)	arundhatib6@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	15/09/2021
PUBLICATION DATE (U/S 11A)	03/09/2021

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

View Documents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202022100354 Granted Dr. Vaseem Ahmad Ansari

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 100 354

Bezeichnung:
Ein System zur Bestimmung neuer Stressmarker bei Medizinerinnen und Mediziner während der Simulationsprozedur vor und nach einer Herzkatheterisierung

IPC:
A61B 5/16

Inhaber/Inhaberin:
Al Abbasi, Fahad Ahmed, Jeddah, SA
Alobaysi, Maher Mohammed Yousef, Riyadh, SA
Ansari, Vassem Ahamad, Lucknow, UP, IN
Anwar, Firoz, Jeddah, SA
Baig, Mirza Rafiullah, Dubai, AE

Tag der Anmeldung:
22.01.2022

Tag der Eintragung:
08.03.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 08.03.2022

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

2022/07097 Granted Dr. Vaseem Ahmad Ansari Prof. Tarique Mahmood Ansari

REPUBLIC OF SOUTH AFRICA REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

TIWARI, GAURAV; ANSARI AHMAD VASEEM; MAHMOOD TARIQUE; SHARMA SHUBHAM; HAIDER FAHEEM MD.; SINGH BHUWANENDRA; YADAV ASHUTOSH; YADAV REETU; MOHAN ROHIT; SHARMA HARIOM; SINGH ABHILASHA; TIWARI RESHU

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/07097

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the 28th day of September 2022

.....
Registrar of Patents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

2022/07708 Granted Ms. Gazala Noor

(/Default.aspx)

Companies and Intellectual Property Commission

CIPC Intellectual Property Online

South Africa's official portal for IP services

Patent Register - [2022/07708]

Patent number
2022/07708

Title of invention
HERBAL-BASED SUNSCREEN FORMULATION AND A METHOD OF PREPARATION THEREOF

Date of application
2022-07-12

Date of acceptance
2022-09-16

Date of expiry
2042-07-12

Date of grant
2022-09-28

Type of patent
Complete

Status
Granted

IPC Class
A61Q

Inventors
Dr. Gaurav Tiwari
Dr. Bhuwanendra Singh
Dr. Ajay Kumar Gupta
Dr. Hariom Sharma
Gazala Noor
Dr. Ashutosh Yadav
Dr. Anju Singh
Reetu Yadav
Vikas Kumar
Sara Usmani
Dr. Parjanya Kumar Shukla
Monisha Gupta

Patent abstract
The present invention relates to an herbal-based sunscreen formulation comprising: an Oil phase; 2.5-3.0g of green tea; 500mg-1.5g of bees wax; 2gm of carrot seeds; 10 ml-50 ml of aloe vera gel; 150mg-1125mg of turmeric powder; 400mg of vitamin E; and 0.4-0.5 wt% of preservative, wherein the method (100) comprises: mixing and heating oil phase, green tea, bees wax, and carrot seeds for 1 hour on a water bath to obtain a mixture (102); mixing aloe vera, turmeric, and vitamin E to the mixture while stirring constantly until a smooth and homogeneous paste is formed (104); and adding a preservative to the formed homogenous paste to obtain the herbal sunscreen (106). The formulated sunscreen sunscreen is stable, have good

Application No	Patent Type	Application Date	Grant Date	Title of Invention	Applicant	Inventor	Class	Status
2022/07708	Complete	2022/07/12	2022/09/28	HERBAL-BASED SUNSCREEN FORMULATION AND A METHOD OF PREPARATION THEREOF	Dr. Ajay Kumar Gupta IN ;Dr. Anju Singh IN ;Dr. Ashutosh Yadav IN ;Dr. Bhuwanendra Singh IN ;Dr. Gaurav Tiwari IN ;Dr. Hariom Sharma IN ;Dr. Parjanya Kumar Shukla IN ;Gazala Noor IN ;Indu Singh IN ;Monisha Gupta IN ;Reetu Yadav IN ;Sara Usmani IN ;Vikas Kumar IN	Dr. Ajay Kumar Gupta;Dr. Anju Singh;Dr. Ashutosh Yadav;Dr. Bhuwanendra Singh;Dr. Gaurav Tiwari;Dr. Hariom Sharma;Dr. Parjanya Kumar Shukla;Gazala Noor;Indu Singh;Monisha Gupta;Reetu Yadav;Sara Usmani;Vikas Kumar	A61Q	Granted

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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

2021104041 Granted Dr. Kuldeep Singh

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Application Details

2021104041
: A DEDICATED REMOTE HEALTH MONITORING SYSTEM AND METHOD FOR MEDICAL PRACTITIONERS

BIBLIOGRAPHIC DATA

Application details

Australian application number	2021104041	**Patent application type**	Innovation	
Application status	GRANTED	**Paid to date**	2023-07-10	**First IPC Mark**
Currently under opposition	No	**Proceeding type(s)**		
Invention title	A DEDICATED REMOTE HEALTH MONITORING SYSTEM AND METHOD FOR MEDICAL PRACTITIONERS			
Inventor(s)	Tiwari, Arun Kumar ; Tiwari, Gaurav ; Ramachandran, Vadivelan ; Tiwari, Ruchi			
Agent name	Tiwari, Dr. Arun Kumar	**Address for legal service**	VIC 3046 Australia show full address	
Filing date	2021-07-10	**Australian OPI date**		**OPI published in journal**
Effective date of patent	2021-07-10	**Expiry date**	2029-07-10	
Additional/Divisional application number		**Additional/Divisional relationship**		

Applicant details

Applicant	Tiwari, Ruchi Dr.	**Applicant address**	UP 209305 India
Applicant	Singh, Amerendra	**Applicant address**	273209 India
Applicant	Singh, Kuldeep Dr	**Applicant address**	India
Applicant	Ramachandran, Vadivelan Dr	**Applicant address**	Karnataka 643001 India
Applicant	Tiwari, Gaurav Dr.	**Applicant address**	UP 209305 India
Applicant	Singh, Man Dr	**Applicant address**	India
Old name(s)	Tiwari, Arun Kumar		

IPC details

Int Cl.	Version	First Mark

Priority details
Associated provisional(s)

SPECIFICATION/E-REGISTER

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

2021104775 Granted Dr. Arun Kumar

Australian Government
IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2021104775

The Commissioner of Patents has granted the above patent on 11 May 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Kritika Sachan of Assistant Professor, Department of Pharmacy, Pranveer Singh Institute of Technology Kanpur UP India

Pankaj Kumar of NITTE (Deemed to be University), NGSMIPS, Department of Pharmaceutical Chemistry Mangalore, Karnataka India

Arun Kumar of Associate Professor, Faculty of Pharmacy, Integral university Lucknow, UP India

Adarsh Kesharwani of Lecturer, Mahrishi College of Pharmacy Kaushambhi, UP India

Sunita Devi of Assistant Professor, Dept of Pharmacology, School of Pharmacy, Abhilashi University Chailchowk Mandi, HP India

Chinu Kumari of Assistant Professor, Dept of Pharmacology, School of Pharmacy, Abhilashi university Chailchowk Mandi, HP India

Title of invention:

SYNTHESIS OF NOVEL N-5-FLUORO-4-(4-SULFAMOYLPHENYLAMINO) BENZO[d]THIAZOL-2-YL) BENZAMIDE DERIVATIVES AS POTENTIAL ANTI-INFLAMMATORY AGENT

Name of inventor(s):

Sachan, Kritika; Kumar, Pankaj; Kumar, Arun; Kesharwani, Adarsh; Devi, Sunita and Kumari, Chinu

Term of Patent:

Eight years from 31 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

Dated this 11th day of May 2022

Commissioner of Patents

PATENTS ACT 1990

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

02022101070 Granted Dr. Anuradha Mishra

(19) Deutsches Patent- und Markenamt

(10) **DE 20 2022 101 070 U1** 2022.04.14

(12) **Gebrauchsmusterschrift**

(21) Aktenzeichen: **20 2022 101 070.6**
(22) Anmeldetag: **24.02.2022**
(47) Eintragungstag: **09.03.2022**
(45) Bekanntmachungstag im Patentblatt: **14.04.2022**

(51) Int Cl.: ***A61K 36/28*** (2006.01)
A61K 33/38 (2006.01)
A61P 13/12 (2006.01)

(73) Name und Wohnsitz des Inhabers:
Dash, Pragyandip Parthasarathi, Dr., Lucknow, UP, IN; Dwivedi, Deepti, Ayodhya, UP, IN; Farooqui, Alvina, Dr., Lucknow, UP, IN; Islam, Anas, Lucknow, UP, IN; Mishra, Anuradha, Dr., Lucknow, UP, IN; Saraswat, Nikita, Dr., Pune, MH, IN; Siddiqui, Mohd Aftab, Dr., Lucknow, UP, IN; Singh, Satya Prakash, Dr., Ayodhya, UP, IN; Verma, Preeti, Saharanpur, UP, IN

(74) Name und Wohnsitz des Vertreters:
Hohendorf Kierdorf Patentanwälte PartGmbB, 50672 Köln, DE

Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen.

(54) Bezeichnung: **Nephroprotectant für akute Nierenverletzung**

(57) Hauptanspruch: Kräuterformulierung zur Behandlung einer akuten Nierenschädigung, dadurch gekennzeichnet, dass die Formulierung einen Extrakt aus einem Teil einer Kräuterpflanze umfasst, die Silybum marium und zusätzliche Hilfsstoffe umfasst.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411076527 Published Gazala Noor

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)

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

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

Application Details	
APPLICATION NUMBER	202411076527
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/10/2024
APPLICANT NAME	**1 . Gazala Noor** **2 . Dr. Badruddeen** **3 . Dr. Juber Akhtar** **4 . Dr. Bhuwanendra Singh** **5 . Dr. Anant Kumar** **6 . Dr. Popin Kumar** **7 . Rabia Aqeel** **8 . Manvi** **9 . Alpa Verma** **10 . Dr. Mohammad Ahmad** **11 . Dr. Mohammad Irfan Khan** **12 . Rabiya Ahsan**
TITLE OF INVENTION	A NANOFORMULATION FOR IMMUNE BOOSTING
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	info@lexgin.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/11/2024

Application Status

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202421092351 Published Dr. Badruddeen

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

Application Details	
APPLICATION NUMBER	202421092351
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/11/2024
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TITLE OF INVENTION	ALOFIX ROLLER SERUM FOR THE TREATMENT OF ALOPECIA
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	info@lexgin.com
ADDITIONAL-EMAIL (As Per Record)	chandra.amrish@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	11/03/2025
PUBLICATION DATE (U/S 11A)	20/12/2024

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

462654001 Published Shom Prakash Kushwaha

6/19/25, 11:32 AM Design Application Status

INTELLECTUAL PROPERTY INDIA
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GOVERNMENT OF INDIA

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Ministry of Commerce and Industry

Design Application Details

Application Number:
462654-001

CBR Number:
212921

CBR Date:
18/06/2025 17:15:40

Applicant Name:
1. Dr. Shom Prakash Kushwaha 2. Prof. Syed Misbahul Hasan 3. Prof. Akash Ved 4. Dr. Pavan Kumar 5. Mr. Hemendra Mishra 6. Dr. Smriti Ojha 7. Dr. Garima Verma 8. Dr. Abdul Hafeez 9. Prof. Kuldeep Singh 10. Dr. Arun Kumar 11. Dr. Irfan Aziz 12. Dr. Ahsan Ahmed Khan 13. Prof. Javed Akhtar Ansari

Design Application Status

Application Status:
Application Under Process(awaiting for Technical Examination)

Back (/DesignApplicationStatus/)

Disclaimer: Application status is available for the applications filed on or after 1st April 2008 with application no. 222230. The information under "Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by the 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.
Design Office, Kolkata : controllerdesign[dot]po[at]nic[dot]n
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https://search.ipindia.gov.in/DesignApplicationStatus/ 1/1

Welcome AMRISH CHANDRA Sign out

Controller General of Patents, Designs & Trade Marks
CP-2, Sector V, Salt Lake City, Kolkata-700091
Tel No. (033)(033) 23671945-48 Fax No. 033 23671986
E-mail: kolkata-patent@nic.in
Web Site: www.ipindia.gov.in

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Date/Time 18/06/2025

To
AMRISH CHANDRA

User Code: LEXGIN

User Name: AMRISH CHANDRA

T21/1602, Paras Tierea Sector 137

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	462654-001		1000	212921	FORM 1	UV-VISIBLE RADIATION DEVICE FOR NATURAL PRODUCT PRESERVATION DURING STORAGE.

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
D-000011911	Online Bank Transfer	180625005246	1000.00	1475001102000001

Total Amount : ₹ 1000
Amount in Words: Rupees One Thousand Only
Received from AMRISH CHANDRA the sum of ₹ 1000 on account of Payment of fee for above mentioned Application/Forms.
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6364409 Published Farogh Ahsan

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6364409

Grant date: 21 October 2024

Registration date: 06 May 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. Neha Mali, Dr. Mohammed Tarique, Dr. Kousik Santra, Dr. Rudra Dinesh Kumar, Prof. Dr. Gowrish Sunnanguli, Dr. Vandana Sadananda, Dr. Farogh Ahsan, Dr. Ali Mohammed Ali Al-Samman, Dr. Shmmon Ahmad, Dr. Ghulam Md Ashraf

in respect of the application of such design to:

DEVICE FOR MONITORING OF GLUCOSE LEVEL BY SALIVA

International Design Classification:
Version: 14-2024
Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED
Subclass: 05 HEALTH CARE DEVICE

THE PATENT OFFICE OFFICIAL

Adam Williams

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

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411080879 Published Mohammad Khushtar

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Patent Search

Patent Search | Patent E-register | Application Status | Help

Invention Title	INVESTIGATION OF EFFECT OF CHICKEN'S GIZZARD MEMBRANE ON CASTOR OIL INDUCED DIARRHOEA AND INDOMETHACIN INDUCED ULCER & COLITIS IN EXPERIMENTAL RATS
Publication Number	44/2024
Publication Date	01/11/2024
Publication Type	INA
Application Number	202411080879
Application Filing Date	24/10/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIOTECHNOLOGY
Classification (IPC)	A61K0035570000, A61P0001040000, A61P0001120000, A61P0001000000, A61P0025040000

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Abstract:

Chicken Gizzard membrane is the inner lining of chicken's gizzard, which has a yellowish- gold colour. This is why its Chinese name (ji nei jin) carries the meaning of 'gold inside the chicken'. Traditionally it is used in different gastrointestinal weakness. The present study evaluated the antidiarrhoeal, antiulcer, and anti-colitis properties of chicken gizzard membrane in SD rats. For thediarrhoea study, rats were divided into five groups (n=4). Group I (normal control) received 1% CMC (1 mL/kg) orally for three days. Group II (disease control) was administered castor oil (0.5 mL). Groups III and IV (test groups) were given chicken gizzard membrane at doses of 50 mg/kg and 100 mg/kg, respectively, along with castor oil. Group V (standard) received Loperamide (3 mg/kg) plus castor oil. Results showed 75% inhibition of diarrhoea and reduced fecal output in the test groups compared to

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388821-001 Published Prof. Syed Misbahul Hasan, Dr. Shom Prakash Kushwaha

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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:
388821-001

Cbr Number:
207767

Cbr Date:
22/06/2023 14:01:24

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7. Dr. Ahsan Ahmed Khan 8. Dr. Garima Verma 9. Ms. Varsha
10. Dr. Ravi Shekhar

Design Application Status

Application Status:
Application Under Process(wating for Technical Examination)

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:
Design Office, Kolkata : controllerdesign.ipo@nic.in
Controller General of Patents, Designs and Trademarks

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202331015014 Published Md. Faheem Haidar, Md. Azizur Rahman

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/03/2023

(21) Application No.202331015014 A
(43) Publication Date : 10/03/2023

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF MYRICETIN NANOEMULSION WITH ANTILIVER CANCER ACTIVITY

(51) International classification :A61K 9/107
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT DEVELOPMENT AND EVALUATION OF MYRICETIN NANOEMULSION WITH ANTI-LIVER CANCER ACTIVITY Aspects of present disclosure relate to a myricetin nanoemulsion with anti-liver cancer activity and method of preparation. The myricetin nanoemulsion comprising of myricetin; an oil; a surfactant; and a cosurfactant, wherein the myricetin nanoemulsion is a homogenous transparent oil in water (o/w) nanoemulsion. The method comprising of mixing a surfactant and a cosurfactant to obtain a smix mixture; liquefying myricetin in an oil using a vortex mixer to obtain an oil phase; adding oil with the smix mixture and mixing continuously on a magnetic stirrer; adding distilled water drop by drop; and stirring continuously by vortex mixing until obtaining homogenous transparent oil in water (o/w) nanoemulsion. The results of in vitro release evaluation throughout twenty four hours confirmed an initial burst release and sustained releases afterwards. The myricetin nanoemulsion had an entrapment efficiency of 95.70% and the drug release efficiency of the myricetin nanoemulsion was found to be 92.37 %. Figure 1 shall be reference figure.

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

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373557-001 Published Dr. Reshu Tiwari

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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:
373557-001

Cbr Number:
207990

Cbr Date:
03/11/2022 17:40:00

Applicant Name:
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5. Dr. Reshu Tiwari **6. Shailesh k Gupta** **7. Raghvendra Singh**
8. Dr. Mahendra Kumar Singh **9. Dr. Ashutosh Yadav**

Design Application Status

Application Status:
Design Accepted and Published, Journal No is 04/2023 and Journal Date is 27/01/2023

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:
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Controller General of Patents, Designs and Trademarks

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311025256 Published Dr. Reshu Tiwari

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/04/2023

(21) Application No.202311025256 A
(43) Publication Date : 19/05/2023

(54) Title of the invention : ADVANCEMENT OF DRUG DELIVERY SYSTEM BASED ON NANOTECHNOLOGY AND GREEN CHEMISTRY: GREEN NANOMEDICINE

(51) International classification :A61K 091270, A61K 095100, A61K 314745, A61K 478900, H01M 045900
(86) International Application No : PCT0
Filing Date : 01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
Filing Date : NA

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(57) Abstract :
ADVANCEMENT OF DRUG DELIVERY SYSTEM BASED ON NANOTECHNOLOGY AND GREEN CHEMISTRY: GREEN NANOMEDICINE ABSTRACT This invention discusses the impact of green and environmentally safe chemistry on nanotechnology-driven drug delivery in a new area termed "green nanomedicine". Studies have shown that among many examples of green nanotechnology driven drug delivery systems, those receiving the most attention include nanometal particles, polymers, and biological materials. Furthermore, green nano drug delivery systems based on environmentally safe chemical reactions or using natural biomaterials such as plant extracts and microorganisms are now producing innovative materials that are revolutionizing the field. This review discusses the use of green chemistry design, synthesis, application principles, and eco-friendly synthesis techniques with low side effects. The study ends with a description of critical future efforts that must emerge for this field to continue to grow.

No. of Pages : 24 No. of Claims : 7

202311046393 Published Dr. Badruddeen Mohd Vaseem Dr. Juber Akhtar Dr. Mohammad Irfan Khan

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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	202311046393
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/07/2023
APPLICANT NAME	**1 . Rukhsar Anwar** **2 . Dr. Badruddeen** **3 . Mohd Vaseem** **4 . Dr. Juber Akhtar** **5 . Dr. Mohammad Irfan Khan** **6 . Samar Mujeeb** **7 . Rajni Mishra** **8 . Arvind Kumar** **9 . Ashmun Nisha** **10 . Shavej Husain**
TITLE OF INVENTION	COMPOSITION COMPRISING BIOCHANIN-A AND METFORMIN AGAINST STREPTOZOTOCIN INDUCED DIABETES IN RATS
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	shivani_ipr@hotmail.com
ADDITIONAL-EMAIL (As Per Record)	shivani_ipr@hotmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/08/2023

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

US 2023/0190787 Al Published Dr Vaseem Ahmad Ansari

US 20230190787A1

(19) United States
(12) Patent Application Publication
Anwar et al.
(10) Pub. No.: US 2023/0190787 A1
(43) Pub. Date: Jun. 22, 2023

(54) SYSTEM AND METHOD FOR TREATING CARDIAC TOXICITY VIA GUT MICROBIOTA

(71) Applicants: **Firoz Anwar**, Jeddah (SA); **Turky Omar Asar**, Jeddah (SA); **Mohammed A Almujtaba**, Jeddah (SA); **Muhammad Shahid Nadeem**, Jeddah (SA); **Ryan Adnan Sheikh**, Jeddah (SA); **Abdulbasit I. Al-Steul**, Jeddah (SA); **Maged Al Ansari**, Jeddah (SA); **Salma Naqvi**, Ajman (AE); **Fahad A. Al-Abbasi**, Jeddah (SA); **Vassem Ahmad Ansari**, Lucknow (IN); **Hisham N. Altayb**, Jeddah (SA); **Sultan Alhayyani**, Jeddah (SA); **Vikas Kumar**, Allahabad (IN); **Mateen Hasan Khan**, Pilkhan (IN)

(72) Inventors: **Firoz Anwar**, Jeddah (SA); **Turky Omar Asar**, Jeddah (SA); **Mohammed A Almujtaba**, Jeddah (SA); **Muhammad Shahid Nadeem**, Jeddah (SA); **Ryan Adnan Sheikh**, Jeddah (SA); **Abdulbasit I. Al-Steul**, Jeddah (SA); **Maged Al Ansari**, Jeddah (SA); **Salma Naqvi**, Ajman (AE); **Fahad A. Al-Abbasi**, Jeddah (SA); **Vassem Ahmad Ansari**, Lucknow (IN); Hisham N. Altayb, Jeddah (SA); **Sultan Alhayyani**, Jeddah (SA); **Vikas Kumar**, Allahabad (IN); **Mateen Hasan Khan**, Pilkhan (IN)

(21) Appl. No.: 18/058,628

(22) Filed: Nov. 25, 2022

Publication Classification

(51) Int. Cl.

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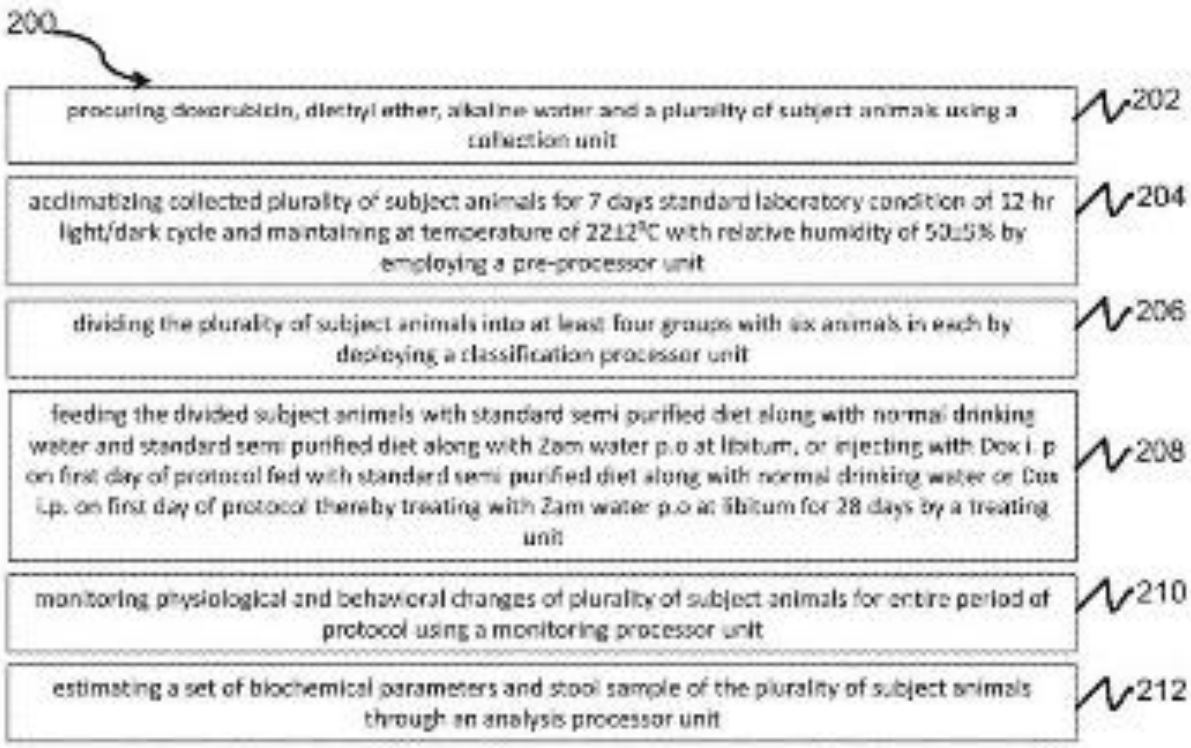
A61K 49/00	(2006.01)
C12Q 1/689	(2006.01)
G01N 2/31	(2006.01)

(52) U.S. Cl.
CPC ***A61K 33/00*** (2013.01); ***A61K 49/0008*** (2013.01); ***C12Q 1/689*** (2013.01); ***G01N 1/312*** (2013.01)

(57) ABSTRACT

The system comprises a collection unit for procuring doxorubicin, diethyl ether, alkaline water and a plurality of subject animals; a pre-processor unit for acclimatizing collected plurality of subject animals for 7 days standard laboratory condition; a classification processor unit for dividing subject animals into four groups; a treating unit for feeding subject animals with standard semi purified diet along with normal drinking water and standard semi purified diet along with Zam water p.o at libitum, or injecting with Dox i.p. on first day of protocol fed with standard semi purified diet along with normal drinking water or Dox i.p. on first day of protocol thereby treating with Zam water p.o at libitum for 28 days; a monitoring processor unit for monitoring physiological and behavioral changes of plurality of subject animals; and an analysis processor unit for estimating a set of biochemical parameters and stool sample of the plurality of subject animals.



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LUCKNOW - INDIA

202211004303 Published Dr. Arun Kumar

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/01/2022

(21) Application No.202211004303 A
(43) Publication Date : 11/03/2022

(54) Title of the invention : SYNTHESIS, FORMULATION AND EVALUATION OF ANTI-FUNGAL CREAM OF SCHIFF BASE COMPOUNDS

(51) International classification	:B82Y0005000000, C10L0003100000, A61K0031415000, A61K0047690000, C07C0209680000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
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(62) Divisional to Application Number Filing Date	:NA :NA

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Address of Applicant :Professor, Geetanjali Institute of Pharmacy, Geetanjali University, NH-8 bypass, Near Eklingpura Chouraha, Udaipur, Rajasthan, Pin Code- 313003 --------- ----------
10)Mr. Bhuneshwar Dutta Tripathi
Address of Applicant :Associate Professor, Narayan Institute of Pharmacy, Gopal Narayan Singh University, Jamuhar, Sasaram, Bihar Pin Code: 821305 --------- ----------
11)Mr. Akhilesh Kumar Pandey
Address of Applicant :Assistant Professor, Asha Pharmacy College, Kusmura, Baragaon, Varanasi, Uttar Pradesh, Pin Code: 221204 --------- ----------

(57) Abstract :
The present invention relates to the synthesis and evaluation of anti-fungal cream. The synthesis involves the 2-bromo-1-phenylethanone (1) (0.01mol), phenol (2) (0.01 mol) and K2CO3 (0.02 mol) in dry acetonitrile was refluxed for about 6 h. The mixture was filtered and solvent was removed under reduced pressure. The obtained product was purified by recrystallization from ethanol to afford compound 2-phenoxy-1-phenylethanone (3). The Schiff bases SA-1 and SA-2 were prepared by refluxed of compound (3) with different aromatic anilines in the presence of glacial acetic acid (4) in ethanol.The molecular docking studies of , the compounds SA-1 and SA-2 were docked into the binding pocket of human squalene epoxidase (6C6N) and 14-alpha-demethylase (5TZ1) target proteins belong to Candida albicans. Anti-fungal activity of the test compounds was compared with the standard drug Clotrimazole and Terbinafine.

No. of Pages : 14 No. of Claims : 3

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202211004953 Published Dr. Arun Kumar

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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

INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202211004953
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/01/2022
APPLICANT NAME	**1 . Dr Ankita Wal** **2 . Mr Shobhit Prakash Srivastava** **3 . Dr Akash Ved** **4 . Mr Mayank Pratap Singh** **5 . Dr. Neha Tiwari** **6 . Dr.Pragnesh Patani** **7 . Anil Kumar Yadav** **8 . Dr Arun Kumar**
TITLE OF INVENTION	SYNTHESIS OF SOME NOVEL 5-(4-SUBSTITUTED-BENZYLIDENEAMINO)-1, 3, 4-THIADIAZOLE-2-THIOL DERIVATIVES AND THEIR ANTIBACTERIAL ACTIVITY
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	info@promptmanfin.com
ADDITIONAL-EMAIL (As Per Record)	info@promptmanfin.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/02/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202211007630 Published Dr. Kuldeep Singh Dr. Arun Kumar Dr. Shom Prakash Kushwaha

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2022

(21) Application No.202211007630 A
(43) Publication Date : 25/02/2022

(54) Title of the invention : DISCOVERY OF N-(2-(1H-IMIDAZOL-4-YL)ETHYL)-4-(5,11- DIOXOISOINDOLO[2,1-A]QUINAZOLIN-6(5H,6AH,11H)-YL)BUTANAMIDE AS INHIBITORS OF p53-Mdm2 AS POTENTIAL ANTICANCER AGENTS

(51) International classification	:G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, G16C0020400000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)Dr Kuldeep Singh
4)Dr Arun Kumar
5)Shom Prakash Kushwaha
6)Dr. Avinash C. Tripathi
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
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Address of Applicant :Associate Professor Faculty of Pharmacy, Integral University, Dasauli, Bas-ha Kursi Road, Lucknow-226026 ---------- ----------
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Address of Applicant :Associate Professor Faculty of Pharmacy Integral University, Dasauli, Kursi Road, Lucknow 226026 ---------- ----------
5)Shom Prakash Kushwaha
Address of Applicant :Assistant Professor, Faculty Of Pharmacy, Integral University, Lucknow ---------- ----------
6)Dr. Avinash C. Tripathi
Address of Applicant :Professor & Director Dev Kumari Raja Ram Pharmacy ShikshanSansthan, Manwa, Sidhauli, Sitapur-261303, U.P. Mob.: 9839929329, 9140475914 ---------- ----------

(57) Abstract :
A method (300) for identifying a binding site of N-(2-(1H-imidazol-4-yl)ethyl)-4-(5,11-dioxoisoindolo[2,1-a]quinazolin-6(5H,6aH,11H)-yl)butanamide, the method comprising: developing pharmacophore models to extract features from the N-(2-(1H-imidazol-4-yl)ethyl)-4-(5,11-dioxoisoindolo[2,1-a]quinazolin-6(5H,6aH,11H)-yl)butanamide; validating the developed pharmacophore models by comparing with pre-defined models of existing p53-Mdm2 inhibitors drugs; performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the N-(2-(1H-imidazol-4-yl)ethyl)-4-(5,11-dioxoisoindolo[2,1-a]quinazolin-6(5H,6aH,11H)-yl)butanamide in order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the p53-Mdm2 inhibitors.

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

INTEGRAL UNIVERSITY
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202211015128 Published Prof. Badruddeen Dr. Mohd Mujtaba Dr. Mohammad Irfan Khan Prof. Juber Akhtar

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INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/)

Patent Search

Invention Title	AN EMULSION FOR CARDIAC PROTECTION
Publication Number	21/2022
Publication Date	27/05/2022
Publication Type	INA
Application Number	202211015128
Application Filing Date	18/03/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	A61K0031704000, A61K0031122000, A61K0036880000, A61K0047440000, A61K0036730000

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Juber Akhtar	Faculty of Pharmacy, Integral University, Lucknow 226026	India	ndi
Mohammad Ahmad	Faculty of Pharmacy, Integral University, Lucknow 226026	India	ndi
Mohammad Khursheed	Faculty of Pharmacy, Integral University, Lucknow 226026	India	ndi
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Mohammad Khursheed	Faculty of Pharmacy, Integral University, Lucknow 226026	India	ndi
Mohd Ajmal	Faculty of Pharmacy, Integral University, Lucknow 226026	India	ndi
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Abdul Raheem Khan	Department of Physiotherapy, Integral Institute of Allied Health Sciences and Research, Integral University, Lucknow 226026	India	ndi

Abstract:

The present disclosure is related to the emulsion of Saffron aqueous extract, olive oil and coenzyme Q10 (CoQ10). The emulsion was prepared by dry gum method and ev against an anti neoplastic doxorubicin that causes cardiotoxicity in rats. The prepared emulsion was stable thermodynamically. The pharmacological activity of emulsion in doxorubicin treated rats indicated better AST, ALT, LDH, creatinine, lipid profile (HDL, TC, LDL, VLDL and TG), SOD, catalase and GSH. The heart weight which was enhanced because of doxorubicin treatment was also reduced by invented emulsion. The inventive emulsion also showed cardio protection against doxorubicin induced toxicity as it regularizes enzymes, lipids and oxidants expressions.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211006156 A

(19) INDIA

(22) Date of filing of Application :04/02/2022 (43) Publication Date : 11/02/2022

(54) Title of the invention : NOVEL FORMULATION OF PIMARICIN FOR OCULAR DRUG DELIVERY

(51) International classification	:A61K0009000000, B82Y0040000000, C09K0011020000, B82Y0030000000, C01B0019000000
(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)Navneet Kumar Verma
4)Dr. Asheesh Kumar Singh
5)Dr Dev Prakash
6)Mr Prashant Singh
7)Mr Ankur Srivastava
8)Mr Virendra Kumar Maurya

(72)**Name of Inventor :**
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5)Dr Dev Prakash
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6)Mr Prashant Singh
Address of Applicant :Assistant Professor, Department of Pharmaceutics, Buddha

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202211054445 Published Mr. Vinod Kumar Singh

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion.
Ministry of Commerce & Industry.
Government of India

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Application Details	
APPLICATION NUMBER	202211054445
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/09/2022
APPLICANT NAME	**1 . Mr. Vinod Kumar Singh** **2 . Km Neetu** **3 . Ms. Abhilasha kumari** **4 . Dr. Santosh Kumar Verma** **5 . Ms. Rasmita Jena** **6 . Dr. Suresh Janadri** **7 . Rajendra Herur Vishnumurthy** **8 . Dr. Prashant Tiwari** **9 . Dr. M. Gnana Ruba Priya** **10 . Dr. Rizwan Ahmad** **11 . Dr. Darakhshan Gazala Bari** **12 . Dr. Chhavi Verma**
TITLE OF INVENTION	DEVELOPMENT AND EVALUATION OF BOSWELLIC ACID FOR TREATING RHEUMATOID ARTHRITIS
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	vaagalip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vaagalip@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/09/2022

Application Status

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202241049325 Published Mr. Vinod Kumar Singh

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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GEOGRAPHICAL INDICATIONS

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

Application Details

APPLICATION NUMBER	202241049325
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/08/2022
APPLICANT NAME	**1 . Dr. G Venkata karthik kumar Reddy** **2 . Dr. Prabitha P.** **3 . Dr. A. Muthukumar** **4 . Ms. Shailaja P Desai** **5 . Ms. Ashwini Suresh Patil** **6 . Mr. Soumitra Tiwari** **7 . Mr. Guruprasad V Sutar** **8 . Mr. Vinod Kumar Singh** **9 . Dr. Sachin Tyagi** **10 . Mr. Debyan Bhattacharjee** **11 . Dr. Prashant Tiwari** **12 . Ms. Rasmita Jena**
TITLE OF INVENTION	THE EFFECT OF GRAVITY AND CENTRIFUGAL FORCE ON PLANT DEVELOPMENT AND FRUIT PRODUCTION
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	vaagalip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/09/2022

Application Status

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

63633414 **Granted** Dr. Muzeev Ahmad

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6363414

Grant date: 10 May 2024

Registration date: 01 May 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

Navin Kumar Navnit, Dr. Khan Chand, Dr. Ajita Tewari, Gazia Nasir, Dr. Muzeev Ahmad

in respect of the application of such design to:

DEVELOPMENT OF BATCH TYPE MALTING CHAMBER

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.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6315431 Granted Asfaq Siddiqui

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6315431

Grant date: 10 November 2023

Registration date: 27 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. Khan Chand, Gurupreet Singh, Asfaq Siddiqui, Dr. Palmei Gaibimei

in respect of the application of such design to:

Pedal Operated Dehuller for Black Soybean

International Design Classification:
Version: 14-2023
Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED
Subclass: 03 AGRICULTURAL AND FORESTRY MACHINERY

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.

THE PATENT OFFICE OFFICIAL

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202023104309 **Granted** Uday Veer Singh

Bundesrepublik Deutschland

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2023 104 309

Bezeichnung:

Ein IoT-basiertes automatisches System zur Herstellung von biologischem Vermi-Kompost

IPC:

C05F 17/90

Inhaber/Inhaberin:

Arora, Kavita, Dr., Faridabad, Haryana, IN
Chaturvedi, Sumita, Dr., Lucknow, Uttar Pradesh, IN
Darji, Yashesh Anilkumar, Patan, Gujarat, IN
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Tag der Anmeldung:

31.07.2023

Tag der Eintragung:

01.09.2023

Die Präsidentin des Deutschen Patent- und Markenamts

Eva Schewior

Eva Schewior

München, 01.09.2023

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Den aktuellen Rechtsstand und Schutzumfang entnehmen Sie bitte dem DPMAregister unter www.dpma.de.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/12/2024

(21) Application No.202411098609 A
(43) Publication Date : 03/01/2025

(54) Title of the invention : AN INTELLIGENT BIOMASS SHREDDER SYSTEM

(51) International classification	:H02J0003380000, H02S0040320000, F03G0006000000, B02C0018140000, C10L0005440000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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6)Pragya
Address of Applicant :M. Tech student, Department of post-harvest process and food engineering, G. B. Pant university of agriculture and technology -Pantnagar, Uttarakhand-263145, India ---------- ----------

(57) Abstract :
The present invention pertain to the realm of Biomass Shredder and, more specifically to a solar-powered biomass shredder equipped with an intelligent feed-backward system, the system comprising a stainless-steel frame, a feeding hopper to feed the crop residue into a cutting unit (24), an electric motor and an AC servo motor to regulate the speed and direction of the motion in response to a feedback received, a plurality of solar panels with solar inverter to convert DC to AC to operate the system, a net meter connected to the solar inverter to measure the generation of electricity through solar panels. Fig. 1

No. of Pages : 23 No. of Claims : 9

2022052312553700DE Published Asfaq, Faria Fatima, Gazia Nasir and Saba Siddiqui

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 102 834

Bezeichnung:
Solarbasiertes tragbares Hydroponiksystem

IPC:
A01G 31/06

Inhaber/Inhaberin:
Asfaq, Asfaq, Lucknow, UP, IN
Fatima, Faria, Lucknow, UP, IN
Hasanain, Mohammad, Lucknow, UP, IN
Nasir, Gazia, Lucknow, UP, IN
Siddiqui, Saba, Lucknow, UP, IN

Tag der Anmeldung:
23.05.2022

Tag der Eintragung:
03.06.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 03.06.2022

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

429002-001 Granted Dr. Salman Ahmad, Dr. Kalpana Bisht and Prof. Saba Siddiqui

INTELLECTUAL PROPERTY INDIA
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GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 187040

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. : 429002-001

तारीख / Date : 01/09/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *A PORTABLE INSECT OBSERVATION CHAMBER WITH INTEGRATED LIGHTING* से संबंधित है, का पंजीकरण, श्रेणी 30-02 में 1.Dr. Salman Ahmad 2. Dr. Kalpana Bisht 3.Prof. Saba Siddiqui 4.Dr. Sunil Yadav 5.Mr. Gouri Shankar Giri 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 30-02 in respect of the application of such design to *A PORTABLE INSECT OBSERVATION CHAMBER WITH INTEGRATED LIGHTING* in the name of 1.Dr. Salman Ahmad 2. Dr. Kalpana Bisht 3.Prof. Saba Siddiqui 4.Dr. Sunil Yadav 5.Mr. Gouri Shankar Giri.

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

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

जारी करने की तिथि :
Date of Issue : 13/12/2024

उन्नत पी पंडित

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

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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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

431956-001 Granted Dr. Deepti Srivastava

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 183497

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. : 431956-001

तारीख / Date : 27/09/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *GEL ELECTROPHORESIS APPARATUS FOR ANALYSING PLANT GENETIC MATERIAL* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Anand Kumar 2. Himani Punia 3.Annie Khanna 4.Naveen Rao 5.Dr. Shweta Sharma 6.Dr. Versha 7.Dr. Sagar 8.Dr. Jagdeep Singh 9.Dr. Akshay Kumar Vats 10.Dr. Deepti Srivastava के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *GEL ELECTROPHORESIS APPARATUS FOR ANALYSING PLANT GENETIC MATERIAL* in the name of 1.Dr. Anand Kumar 2. Himani Punia 3.Annie Khanna 4.Naveen Rao 5.Dr. Shweta Sharma 6.Dr. Versha 7.Dr. Sagar 8.Dr. Jagdeep Singh 9.Dr. Akshay Kumar Vats 10.Dr. Deepti Srivastava.

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

जारी करने की तिथि :
Date of Issue : 25/10/2024

उन्नत पी पंडित

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Controller General of Patents, Designs and Trade Marks

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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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

410870-001 **Granted** Uday Veer Singh

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 168536

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. : 410870-001

तारीख / Date : 18/03/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *BLOCKCHAIN CONTROLLED DEVICE FOR FARMERS MARKET* से संबंधित है, का पंजीकरण, श्रेणी 14-02 में 1.Dr. Satybhan Singh 2. Dr. Virendra Singh 3.Dr. Ramesh Pal 4.Dr. Ashish Kumar Saxena 5.Dr. Aditya Narayan Chaubey 6.Dr. Vinod Kumar Dhangrah 7.Dr. Uday Veer Singh के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to *BLOCKCHAIN CONTROLLED DEVICE FOR FARMERS MARKET* in the name of 1.Dr. Satybhan Singh 2. Dr. Virendra Singh 3.Dr. Ramesh Pal 4.Dr. Ashish Kumar Saxena 5.Dr. Aditya Narayan Chaubey 6.Dr. Vinod Kumar Dhangrah 7.Dr. Uday Veer Singh.

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

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

जारी करने की तिथि :
Date of Issue : 10/05/2024

उन्नत पी पंडित

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

*पारस्परिकता 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6304957 Granted Aafreen

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6304957

Grant date: 08 September 2023

Registration date: 23 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

Dinesh Kumar Agrawal, Aafreen .Aafreen, Shilpee Srivastava Saxena, Akhilesh

Tiwari

in respect of the application of such design to:

SMART WEARABLE HEALTH MONITORING DEVICE

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

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.

THE PATENT OFFICE OFFICIAL

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6318124 Granted Aafreen, Abdur Raheem Khan, Ashfaque Khan

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6318124

Grant date: 17 October 2023

Registration date: 11 October 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

Aafreen Aafreen, Abdur Raheem Khan, Ashfaque Khan, Hashim Ahmed,

Mohammad Abu Shaphe, Mohammed M Alshehri

in respect of the application of such design to:

SENSOR-BASED NECK WEARABLE DEVICE FOR MEASURING AND

RECORDING CERVICOCEPHALIC PROPRIOCEPTION

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

Adam Williams

THE PATENT OFFICE
OFFICIAL

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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

397301-001 Granted Subham Kumar, Chintamani Jhansi, Dr. Amina Jafri, Dr. G. Jahir hussain

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 150123

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. : 397301-001

तारीख / Date : 11/10/2023

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *PLANT PROTECTION DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 15-03 में 1.Subham Kumar 2. Chinthamani Jhansi 3.Dr. Amina Jafri 4.Dr. G. Jahirhussain 5.G. Karuniya Raja Viella 6.Khushboo Kumari 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 15-03 in respect of the application of such design to *PLANT PROTECTION DEVICE* in the name of 1.Subham Kumar 2. Chinthamani Jhansi 3.Dr. Amina Jafri 4.Dr. G. Jahirhussain 5.G. Karuniya Raja Viella 6.Khushboo Kumari.

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

THE PATENT OFFICE GOVT OF INDIA

जारी करने की तिथि :
Date of Issue : 13/12/2023

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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*पारस्परिकता 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.

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

378213-001 Granted Dr. Habib Uddin Mr. Amit Goel

ORIGINAL

मूल/No : 131636

सत्यमेव जयते

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

डिजाइन सं. / Design No.	:	378213-001
तारीख / Date	:	30/01/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **DEVICE TO MONITOR THE CUSTOMER'S EXPRESSIONS IN MALLS** से संबंधित है, का पंजीकरण, श्रेणी **10-05** में 1.Dr. Asma Farooque 2. Dr. Syed Afzal Ahmad 3.Dr. Habib Uddin 4.Mr. Amit Goel 5.Dr. Kainat Akhtar Usmani 6.Dr. Moiz Akhtar 7.Dr. Uzmi Anjum 8.Mr. Syed Mohammed Azeem के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **10-05** in respect of the application of such design to **DEVICE TO MONITOR THE CUSTOMER'S EXPRESSIONS IN MALLS** in the name of 1.Dr. Asma Farooque 2. Dr. Syed Afzal Ahmad 3.Dr. Habib Uddin 4.Mr. Amit Goel 5.Dr. Kainat Akhtar Usmani 6.Dr. Moiz Akhtar 7.Dr. Uzmi Anjum 8.Mr. Syed Mohammed Azeem.

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

INTELLECTUAL
PROPERTY **INDIA**
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GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 23/03/2023

महानियंत्रक पेटेंट डिजाइन और व्यापार चिह्न
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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

6306520 Granted Dr Salman Khan

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6306520

Grant date: 08 September 2023

Registration date: 31 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

Mohd Saeed, Irfan Ahmad, Nawaf Alshamamri, Samra Siddiqui, Nadiyah M.

Alabdallah, Mohammad Y Alshahrani, Tarun Kumar Upadhyay, Salman Khan

in respect of the application of such design to:

NANOTECHNOLOGY BASED ANTIMICROBIAL BANDAGE DISPENSING

DEVICE

International Design Classification:
Version: 14-2023
Class: 03 TRAVEL GOODS, CASES, PARASOLS AND PERSONAL BELONGINGS, NOT ELSEWHERE SPECIFIED
Subclass: 01 TRUNKS, SUITCASES, BRIEFCASES, HANDBAGS, KEYHOLDERS, CASES SPECIALLY DESIGNED FOR THEIR CONTENTS, WALLETS AND SIMILAR ARTICLES

Adam Williams

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.

THE PATENT OFFICE OFFICIAL

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202411076789 Published Mohd Reyaz Ur Rahim

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)

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

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

Application Details

APPLICATION NUMBER	202411076789
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/10/2024
APPLICANT NAME	**1 . Dr. Deepak Kholiya** **2 . Prof.(Dr) Jayant Shekhar** **3 . Dr. Mahesh Ashok Bomble** **4 . S. Preethijohnevelin** **5 . Dr. Smita Suhane** **6 . Sinthuja P M** **7 . G. Joy Padma Dinesh** **8 . J A Jevin** **9 . Dr Vishwanath Patil** **10 . Sudarshan Balasaheb Babar** **11 . Mohd Reyaz Ur Rahim** **12 . Amruta Chandrakant Amune**
TITLE OF INVENTION	SMART AGRICULTURE: DRONE-BASED PEST DETECTION AND SPRAYING WITH MACHINE LEARNING AND IOT SECURITY FOR IMPROVED CROP YIELDS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	patent.vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/10/2024

Application Status

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202441066215 Published Dr. Rahila Rahman Khan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2024
(21) Application No.202441066215 A
(43) Publication Date : 27/09/2024

(54) Title of the invention : LEVERGING SUPERCOMPUTING AND AI TO TRANSFER HEAT MASS PROCESSES FOR ENVIRONMENTAL IMPROVEMENTS

(51) International classification	:A61K0039000000, C12Q0001680600, C12Q0001686000, A61P0011060000, A23C0009130000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)Dr. Kasiviswanathan M S
Address of Applicant :Associate Professor, Department o f Mathematics Sri Sairam Institute o f Technology Chennai. TAMILNADU INDIA 600044. ---------- ----------
2)Dr.Rahila Rahman Khan
3)Dr, Ankit D. Oza
4)Jesia Persis Preethi
5)Haston Amit Kumar
6)V.Bindu
7)Dr. Neeraj Kumar
8)Dr.C.Kannan
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Kasiviswanathan M S
Address of Applicant :Associate Professor, Department o f Mathematics Sri Sairam Institute o f Technology Chennai. TAMILNADU INDIA 600044. ---------- ----------
2)Dr.Rahila Rahman Khan
Address of Applicant :Assistant Professor-Department of Environmental Science Integral University Lucknow Uttar Pradesh India 226026 ---------- ----------
3)Dr, Ankit D. Oza
Address of Applicant :Assistant Professor University Centre for Research and Development, Chandigarh University Mohali Punjab India 140413 ---------- ----------
4)Jesia Persis Preethi
Address of Applicant :Assistant Professor -Department of Biotechnology Sathyabama Institute of Science and Technology Chennai Tamil Nadu India 600 119. ---------- ----------
5)Haston Amit Kumar
Address of Applicant :Assistant Professor - School of Engineering and Technology Jeppiaar University Chennai Tamil Nadu India. 600 119. ---------- ----------
6)V.Bindu
Address of Applicant :Associate Professor-EEE Arunai Engineering College Thiruvannamalai Tamil Nadu India. 606603 ---------- ----------
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Address of Applicant :Assistant Professor -Mechanical Engineering Malla Reddy Engineering College for Women Maisammaguda Hyderbad India 500 100 ---------- ----------
8)Dr.C.Kannan
Address of Applicant :Associate Professor- EEE Arunai Engineering College Thiruvannamalai Tamil Nadu ---------- ----------

(57) Abstract :
Abstract: The very intricate problems in processes of heat and mass transfer can be solved nowadays through supercomputing Al. Coupling the computational capability of supercomputers with the understanding and analysis capability of Al, engineers can achieve the following: Intricate simulations: Simulate rather complex phenomena of heat and mass transfer to a new level of accuracy, turbulent flows, multiphase systems, and coupled/heat-mass-momentum transfer. ■ Perform optimization by data analysis: The insurmountable data generated due to experiments and simulations will be analyzed to identify optimal operating conditions and design parameters. Al algoritluns can uncover latent patterns and correlating trends that would not be easily deduced through a manual inspection of data. • Create predictive models: Build some predictive models for the estimation of heat and mass transfer rates, energy consumption, and environmental impacts. These models will be utilized in real-time monitoring and control for proactive tuning to enhance performance. ■ New materials discovery: In this regard, new materials and processes designed to gain such properties for the improvement of heat and mass transfer can be tested. Al can enhance the speed of discovery of new materials via screening techniques over vast material databases with predictions around performance. ■ Energy Systems: Design of new or retrofitting of existing heat exchangers, boilers, and cooling systems toward improved energy efficiency and lowered greenhouse gas emission. ■ Manufacturing Processes: The efficiency and quality of operations such as casting, welding, and drying will be improved by the optimal design of heat and mass transfer conditions for them. ■ Environmental Control: New and improved design for the techniques of air conditioning and ventilation to improve the indoor air quality and simultaneously reduce energy consumption. ■ Material Science: Innovative materials with improved properties of thermal conductivity or moisture absorbing for applications in the electronic, textile, and energy storage domains.

No. of Pages : 9 No. of Claims : 7

423166-001 Published Prof (Dr) Geeta Chaudhary

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

INTELLECTUAL PROPERTY INDIA

ORIGINAL
फॉर्म सं/ Serial No. : 180087

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 : 423166-001

तारीख / Date : 13/07/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *FETAL HEALTH MONITORING BELT* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Prof. (Dr.) Geeta Chaudhary 2. Prof. (Dr.) Saharsh Walter 3.Prof. Infant Rani Augustin 4.Prof. (Dr.) Manjubala Dash 5.Ms. Dipali Shantaram Pingale 6.Dr. Prince Pappy 7.Yachana Parashar 8.Dr. P M Prathiba 9.Ms. Neha Patyal 10.Aarif Mohammad के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *FETAL HEALTH MONITORING BELT* in the name of 1.Prof. (Dr.) Geeta Chaudhary 2. Prof. (Dr.) Saharsh Walter 3.Prof. Infant Rani Augustin 4.Prof. (Dr.) Manjubala Dash 5.Ms. Dipali Shantaram Pingale 6.Dr. Prince Pappy 7.Yachana Parashar 8.Dr. P M Prathiba 9.Ms. Neha Patyal 10.Aarif Mohammad.

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

जारी करने की तिथि
Date of Issue 11/09/2024

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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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.

INTEGRAL UNIVERSITY
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429830-001 Published Dr. Sheeja

INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्रम सं/ Serial No. : 185807

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. : 429830-001

तारीख / Date : 09/09/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *PORTABLE BIOFEEDBACK DEVICE FOR STRESS MANAGEMENT* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Sheeja 2. Dr. Rajitha S. R. 3.Dr. Annie Chandra S. 4.Dr. Femila Darling A. 5.Dr. Aruljothi V. के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *PORTABLE BIOFEEDBACK DEVICE FOR STRESS MANAGEMENT* in the name of 1.Dr. Sheeja 2. Dr. Rajitha S. R. 3.Dr. Annie Chandra S. 4.Dr. Femila Darling A. 5.Dr. Aruljothi V..

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

जारी करने की तिथि :
Date of Issue : 28/11/2024

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

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202421053696 Published Dr. Syed Shahid Mazhar

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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

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202421053696
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/07/2024
APPLICANT NAME	1 . Prof.(Dr.) Shakina Tabbsum A Munshi 2 . Dr. Ch Sudipta Kishore Nanda 3 . Smita Shukla 4 . Dr Syed Shahid Mazhar 5 . Dr. Aruna V 6 . Dr Jyothi G 7 . Dr. Dharaben Nileshkumar Mehta 8 . Dr.Priyanka Jayaraj 9 . Dr.E.Muthukumar 10 . Dr.Akshaya Kumar Mohanty
TITLE OF INVENTION	INVESTIGATING THE IMPACT OF BEHAVIOURAL BIASES AND FINANCIAL LITERACY IN FINANCIAL DECISION MAKING AMONG WORKING WOMEN IN INDIA
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)	09/08/2024

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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202441040817 Published Dr. Priyanka Bajpai

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

Application Details	
APPLICATION NUMBER	202441040817
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/05/2024
APPLICANT NAME	1 . Dr. M. Shireesha 2 . Dr. Kuldeep Verma 3 . Dr. T.V.S. Padmaja 4 . Gourav Kumar Panda 5 . Dr. Priyanka Bajpai 6 . Dr. V. Selvam 7 . Dr Kshama Sharma 8 . Bhavesh Vanpariya 9 . Dr. Gajanethi Swathi Kumari 10 . Dr P Sekhar Babu
TITLE OF INVENTION	WAYS AND INDICATORS OF ENSURING THE QUALITY OF THE EDUCATIONAL PROCESS IN EDUCATIONAL INSTITUTIONS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/08/2024

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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202441061956 Published Dr. Afreen Fatima

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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

Application Details	
APPLICATION NUMBER	202441061956
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/08/2024
APPLICANT NAME	1 . Dr. S.Padmapriya 2 . Dr. Akanksha Mishra 3 . Dr. Sneha Bajaj 4 . Dr. Abhishek Venkteshwar 5 . Dr. Balamurugan S 6 . Dr.P.Murali 7 . Thilagavathi G 8 . Dr.T.Mohanapriya 9 . Dr. Afreen Fatima 10 . Dr. Rimple Gamadia
TITLE OF INVENTION	PERSONALITY TRAITS, RISK-TAKING BEHAVIORS AND SELF-REGULATION IN YOUNG ADULTS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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202022101151 Published Prof. Snober.S.Mir

(19) Deutsches Patent- und Markenamt

(10) **DE 20 2022 101 151 U1** 2022.04.14

(12) **Gebrauchsmusterschrift**

(21) Aktenzeichen: **20 2022 101 151.6**
(22) Anmeldetag: **02.03.2022**
(47) Eintragungstag: **09.03.2022**
(45) Bekanntmachungstag im Patentblatt: **14.04.2022**

(51) Int Cl.: ***A61K 36/75*** (2006.01)
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A61K 36/48 (2006.01)
A61K 36/54 (2006.01)
A61P 17/14 (2006.01)
A61K 8/9789 (2017.01)
A61Q 7/00 (2006.01)
A61K 47/44 (2017.01)

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(74) Name und Wohnsitz des Vertreters:
Hohendorf Kierdorf Patentanwälte PartGmbB, 50672 Köln, DE

Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen.

(54) Bezeichnung: **Polykräuterformel zur Verhinderung von intensivem Haarverlust nach Covid**

(57) Hauptanspruch: Eine pflanzliche Formulierung zur Vorbeugung von Haarausfall nach Covid dadurch gekennzeichnet die Formulierung eine Vielzahl von Extrakten umfasst, die aus einer Vielzahl von Kräutern erhalten wurden, umfassend Neem, Curryblätter, Bockshornklee, Kampfer, Mischungen davon in einer neutralen Basis.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/04/2022

(21) Application No.202211024871 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : BIOGENIC ANTIMICROBIAL CHITOSAN-BASED NANOPARTICLES AND PROCESS OF THEIR SYNTHESIS USING PLANT (OCIMUM SANCTUM) LEAF EXTRACT

(51) International classification	:A61K0036530000, A61K0009510000, A61P0031040000, A61K0033380000, A61K0036610000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to Nanostructured compounds can exhibit enhanced pharmacological activity and hence, can be very promising strategy for control of multi drug resistance (MDR) pathogens. This work explored the use of Ocimum sanctum leaf extract to prepare Chitosan- tulsi nanoparticles and elucidate their antibacterial efficacy against pathogenic bacteria. Different concentrations of extract were used to form a range of nanoparticles and their formation was assessed by using UV spectroscopy. The results indicated that CS-TL NPs showed a dose-dependent response against tested bacteria. The antibacterial efficacy of CS-TL NPs was examined against MDR Escherichia coli (NCIM 2571) and pathogenic Bacillus subtilis (MTCC 441The CSNPs which showed the best antibacterial activity were characterized using SEM, Zeta Potential, X-ray diffraction pattern and Fourier transform infrared spectroscopy. The studies shows that the CS-TL NPs with best antimicrobial activity, had an average hydrodynamic diameter of 1193 nm and a zeta potential of 27.3±1.6 mV.

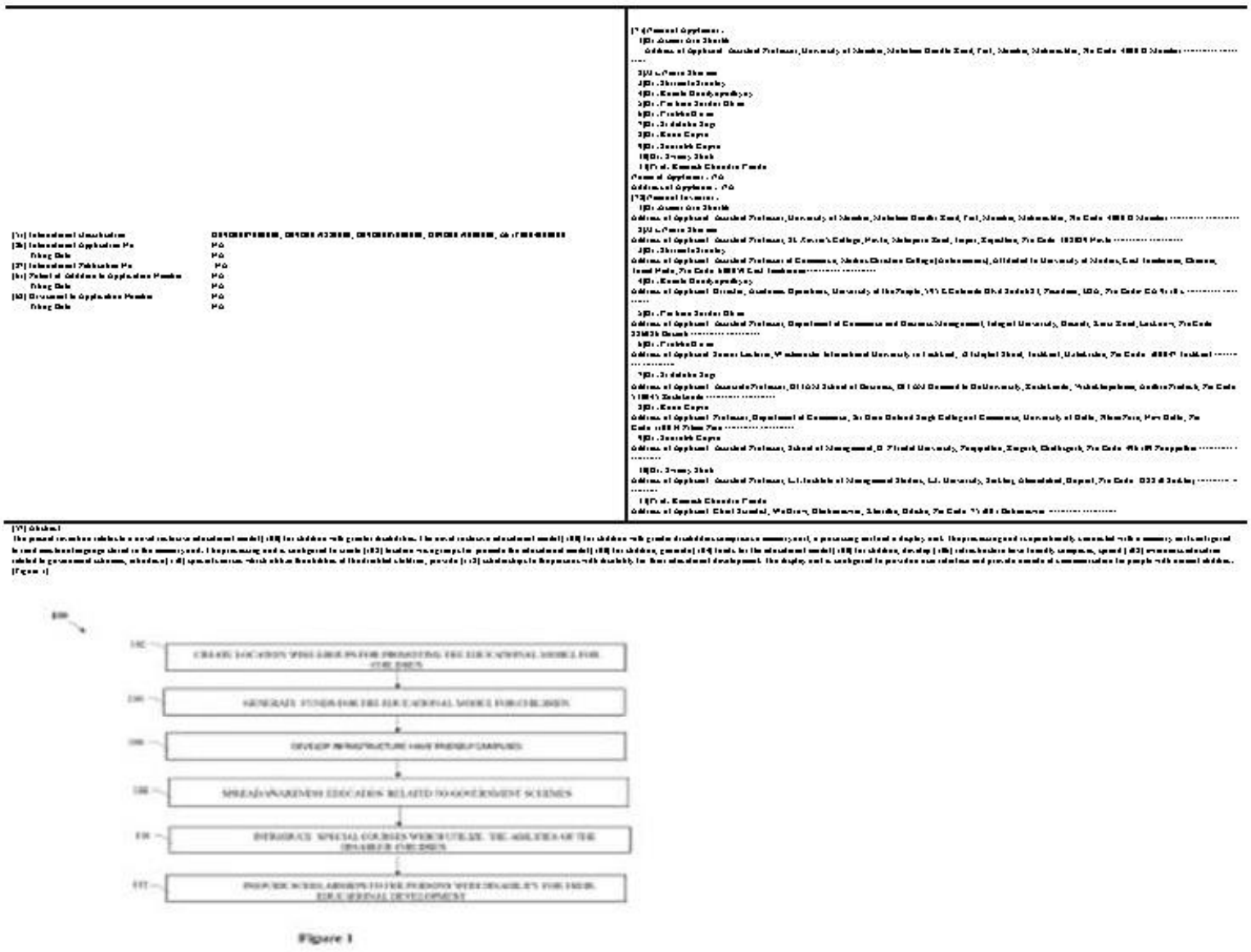
No. of Pages : 19 No. of Claims : 4

202221031673 Published Dr. Farhina Sardar Khan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/06/2022

(21) Application No.202221031673 A
(43) Publication Date : 17/06/2022

(54) Title of the invention : A NOVEL INCLUSIVE EDUCATIONAL MODEL FOR CHILDREN WITH GREATER DISABILITIES



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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202231003110 A
(19) INDIA
(22) Date of filing of Application :19/01/2022
(43) Publication Date : 18/02/2022

(54) Title of the invention : HYBRID LAWYER RECOMMENDATION SYSTEM BASED ON AGE-MOEA

(51) International classification :G06Q0050180000, G06Q0010060000, G06Q0010100000, B28D0001220000, G11B0007131000
(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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(57) Abstract :
The lawyer serves as the primary liaison between the Plaintiff and Appellant, resolving their court-related issues. For many years, society did not have access to lawyers. They face considerable difficulty in locating an appropriate counsel for their case, and at a hefty expense. Frequently, individuals are duped by attorneys and charged exorbitantly expensive fees, as lawyers profit handsomely from each case. This project (LEGAL-EASE) was created to assist individuals dealing with legal challenges by providing simple and optimum answers to their situations. It features a user panel and a lawyer panel, where both parties may engage securely, and the primary component of this project is the lawyer recommendation system, which will utilise content-based and collaborative-filtering with a multi optimizing algorithm AGE-MOEA (Adaptive Geometry Estimation based Multi Optimization Estimation Algorithm), A Pareto interface format for calculating the result that replaces crowding distance to assist consumers in simply locating the best and optimal lawyer. This project will help the government by contributing towards court case management and will help courts to boom digitally.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2021

(21) Application No.202141058836 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM BASED ON BIG DATA ANALYTICS FOR HR MANAGEMENT OF AN ORGANIZATION

(51) International classification	:G06Q0010100000, G06Q0010060000, G06F0016250000, G06F0009445000, G06F0016400000
(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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Address of Applicant :Principal and Head, Department of Computer Science, SSM College of Arts and Science, Komarapalayam-638183. ---------- ----------

(57) Abstract :
It consists of an RMS server with an RMS database, which holds files containing information on employees, their abilities, their schedules, and the projects on which they are now working, among other things. RMS database files include information from external business databases and the information entered directly into the system. Employees' scheduled activities are shown on a calendar in various ways, with different types of scheduled activities being highlighted in different colors to differentiate them. Using a search and scheduling function, human resources with the relevant abilities and availability may be identified, identified, and allocated to projects. A variety of parameters, including the length of time necessary, the level of skill required, and other characteristics, are entered to reduce the search area. This component assigns people to projects and updates the system calendar with the project assignments assigned to the individuals. Through interfaces with other databases, the information stored in the RMS database may be updated. A single user interface may access both the RMS and external databases. It is important to utilize a computer program to operate the RMS server and the RMS database for them to function properly

No. of Pages : 20 No. of Claims : 4

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202241048655 Published Mr.Divesh Dutt

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/08/2022

(21) Application No.202241048655 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : AN INVESTIGATION ON THE FINANCIAL MINDFULNESS AMONG WOMEN BUSINESS PEOPLE

(51) International classification	:G06Q0040000000, G09B0019180000, A61B0005160000, H04L0012140000, G09B0017000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)Dr. T. Satheesh Kumar
4)Dr. G. Manokaran
5)T. Rajamanickam
6)Divesh Dutt
7)Anuradha H. N
8)Dr. Priyanka Agarwal
Name of Applicant : NA
Address of Applicant : NA
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3)Dr. T. Satheesh Kumar
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(57) Abstract :
This invention examines how financial mindfulness affects women entrepreneurs' financial literacy and biases. Women's particular financial behavior has been widely discussed. Financial literacy and behavioral biases are a recurring research issue, but their relationship to women's entrepreneurship is unclear. Using financial awareness as a mediator, we studied the impact of financial literacy on women entrepreneurs' biases. Using AMOS 21, a random sample of 346 women entrepreneurs was analyzed. Financial literacy reduced anchoring and herding bias, but not mental accounting bias. Financial knowledge reduced mental accounting and herding bias for financially savvy women, according to the moderation analysis. Financial awareness does not negatively catalyze financial literacy and anchoring bias. We propose a distinct theoretical thread with practical consequences for women entrepreneurs by combining financial literacy, mindfulness, and behavioral biases. We present innovative ways to solve the problem of women entrepreneurs in developing countries making suboptimal financial decisions.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/08/2022

(21) Application No.202211043908 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : A MODEL FOR THE LIFESTYLE AND CONSUMPTION PATTERN OF INDIAN MIDDLE CLASS WOMEN

(51) International classification	:G01D0004000000, G06N0005040000, H04N0021418000, G06Q0050060000, H04N0021810000
(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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(57) Abstract :
It is a great challenge to get an understanding of the Consumption Pattern. Unless the marketers know what the consumer is willing to consume he will not be able to fullfill his target sales and earn the profit he desires. The study of Consumption pattern is important because it helps to know how consumers are making their decisions to buy. It helps us to know the need and wants of consumers. The contribution of women in decision making is increasing with growing number of nuclear families, educated women and working women. Today, lifestyle study has become an integrated part of consumers' lives. The number of middle class working women is rising sharply. This is leading to the introduction of women oriented products.Since India has the potential to grow rapidly for some years to come, its emerging middle class will strengthen and reinforce its growth. The women consumers on one hand and the middle class on the other, together we can say middle class women in India would be a great target market for organizations all over the world.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/07/2022

(21) Application No.202241038197 A
(43) Publication Date : 08/07/2022

(54) Title of the invention : SUPPORTING TOOL IN THE MICROFINANCE INDUSTRY TO SUPPORT DECISION MAKING FOR PLANNING AND CUSTOMER SATISFACTION STRATEGIES

(51) International classification	:G06Q0030020000, G06Q0040020000, G06Q0010060000, G06N0007000000, G06Q0090000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The failure of the microfinance institution (MFIs) to respond to their customers' needs and expectations is one of the main reasons they lose customers. Nowadays, customer satisfaction becomes a central concern for MFIs in order to improve the quality of their products and services. This invention aims to develop a decision-making support tool to help managers in the microfinance industry perform scenario analysis and then plan customer satisfaction strategies. We managed to build a Bayesian networks model; such an approach is widely required for modeling complex systems characterized by scarce or uncertain information. It can also consider several factors and the interactions among them, which can successfully meet the current requirements.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202211035921 Published Dr. Orooj Siddiqui

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/06/2022

(21) Application No.202211035921 A
(43) Publication Date : 01/07/2022

(54) Title of the invention : METHOD AND PROCESS LABOR RESOURCE MANAGEMENT AND UTILIZATION SYSTEM

(51) International classification :G06Q0010060000, G06F0003048000, G07C0003080000, G10L0015260000, H01Q0005350000
(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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(57) Abstract :
A voice-directed mobile terminal may be a part of a worker resource management system, allowing a user and the voice-directed mobile terminal to converse. At the very least, the mobile terminal may be connected to a computer. Voice-directed mobile terminals may be integrated into the computer's worker resource management module. Based at least in part on user behavior, the worker resource management module may detect user productivity trends and generate job evaluation forecasts. The worker resource management module may give management job assessment projections or user productivity trends that can be used to make resource allocation choices.

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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2022

(21) Application No.202241057564 A
(43) Publication Date : 21/10/2022

(54) Title of the invention : SYSTEMATIC APPROACH ALONG WITH STATISTICAL TECHNIQUES FOR ANALYSIS OF ABNORMAL RETURNS ON INDIAN STOCK MARKET DUE TO NATURAL DISASTER

(51) International classification	:G06Q0040040000, G06Q0010040000, G06K0009620000, G06Q0040060000, E21B0041000000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
Systematic approach along with Statistical Techniques for Analysis of Abnormal Returns on Indian Stock Market due to Natural Disaster is the proposed invention. The invention aims at analyzing the factors that are responsible for providing abnormal returns in stock market. The proposed invention implements techniques of Artificial Intelligence for analysing and predicting the factors associated with natural disaster that has impacted the growth of stock market. The Indian stock market is considered for the study.

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

INTEGRAL UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2022
(21) Application No.202211059010 A
(43) Publication Date : 21/10/2022

(54) Title of the invention : DEEP LEARNING BASED APPROACH TO IDENTIFY THE PROS AND CONS OF MAKE IN INDIA CAMPAIGN ON INDIAN ECONOMY

(51) International classification :G06Q0030020000, G06N0003080000, A61K0036740000, G06N0003040000, A01H0001040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Deep Learning based approach to Identify the Pros and Cons of Make in India Campaign on Indian Economy is the proposed invention. The invention aims at implementing algorithms of deep learning for identifying how the Make in India campaigns have revolutionized the Indian economy. The invention focuses on predicting the pros and cons associated with various activities of Make in India campaign.

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

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(21) Application No.202211047517 A
(19) INDIA
(22) Date of filing of Application :21/08/2022
(43) Publication Date : 02/09/2022

(54) Title of the invention : A MODEL FOR EVALUATION OF MICRO FINANCE INSTITUTIONS' BUSINESS MODELS ACROSS LEGAL FORMS IN INDIA.

(51) International classification	:G06Q0040020000, G06Q0040000000, G06Q0030020000, G06Q0040060000, G06Q0010100000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The model (Figure1) claimed in claim1 aims to analyze and evaluate the Business models of Micro Finance Institutions' across different legal forms in India. The four aspects of business model evaluation taken up in the model are: as to how MFI design, cater, seize and retain value. The aspects further undertaken in the study includes: 1). How MFI design value The value designing concentrates on a value proposition to construct value for a Customer Segment through a distinct mix of elements catering to that segment's needs. For MFIs the value proposition is women empowerment through financial inclusion by offering them microloans (microfinance) without any collateral. The outreach indicated by number of active borrowers and Gross Loan Portfolio has been taken as proxy of value creation. 2). How MFI caters value The distinguishing feature of MFIs is provision of financial services at the door step of borrowers (Customer). The delivery channel backed by financing structure majorly consists of credit officers for outreaching the borrowers. The key activities performed also include financial education along with training and guidance for employing the funds in income generating activities. The variables undertaken as proxy for measurement of MFIs' delivery channels include: CAR, DER as an indicator of financing structure, ABCO to measure staff Productivity, FCR for Expense and OER for Efficiency of MFIs in catering value. 3). How MFI seizes value The MFI seize value from recurring revenues resulting from ongoing payments to either deliver a value proposition to customers or provide customer support. To seize value, the revenue stream of MFIs consists of Interest income on loan portfolio and other fee and commission income. The variables undertaken as proxy for measurement of MFIs' ability to capture value are taken as: ROA, ROE for indicating overall performance and YIELD on loan portfolio for revenue stream. 4). How MFI retains value The MFI retains value by taking regular feedback from their customers in order to retain them through providing quality services. The variables undertaken as proxy for measurement of MFIs' value retention are: OSS and PAR 60. The type of MFIs operating all over India comprise of NBFC-MFI, Section 8 Companies, Society & Trust, Cooperatives and Others. The major issue that model address is as to what is the performance of MFI Business Models in India The model can be used as base for MFI business models comparison across legal forms in India. The influence on various variables and dimensions of business models can be analyzed and further be modified depending upon the need of the hour. The insight on various dimension of business model can help in structuring a more sustainable model with greater in depth outreach. The study is of help for social entrepreneurs, business model analyst, policy makers and researchers in the field of Micro Finance specifically in India.

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

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202211045050 Published Dr. Aisha Badruddin

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/08/2022

(21) Application No.202211045050 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : A Multilevel Model for Strategic Implementation of Sustainable Development Goals in Higher Education Institutions

(51) International classification	:G06Q0010060000, G06Q0010100000, G09B0005000000, G06Q0050200000, G09B0007000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
This invention is concerned with the development of a modeled framework for strategic implementation of Sustainable Development Goals in Higher Education Institutions. The invention seeks to claim a multi-level model describing the input, process, output and outcome and their components at various levels. The input component A consists of first internal elements as human resources at Level 1 (Management), Level 2 (Academic Staff), Level 3 (Non Academic Staff-Staff), Level 4 (Supporting Staff) and Level 5 (Students). The second internal element is Organizational Policies/Directions and the third internal element is Cost. The external element in input is taken as Regulatory mandates and compliances. Further, the model describes the activities to process the inputs at various levels. The process component B of the model describes the strategies for implementation at various levels of inputs. The strategies for internal element constitutes at first the activities/programs for Human resources at Level 1 (Management), Level 2 (Academic Staff), Level 3 (Non Academic Staff-Staff), Level 4 (Supporting Staff) and Level 5 (Students) for creating awareness and encouraging practices, secondly it incorporates the activities for formulation of organizational policies/directions and thirdly it suggest practices in cost considerations for implementation of SDGs. The external element of the process component includes activities related to regulatory mandates and compliances as suggested in policies of regulatory bodies, statutes, mandates of the external agencies concerning SDGs, influencing the HEI either directly or indirectly. The third component C of the model is output, yielded at various levels of human resources and organizational policies/directions in terms of sustainable development awareness, learning, modeled behavior and responsible attitude of stakeholders at various levels as identified by the inventor; inclusive, justified and sustainable organizational policy framework and Grants and aids from relevant agencies and savings due to sustainable practices under Cost Considerations. The model's component D i.e. outcome describes the achievement of specific SDGs through strategic implementation of inputs at various levels of human resources management and practices, organizational policies/directions and cost. The component E and F constitutes continuous monitoring and evaluation and feedbacks respectively, from time to time at all levels of inputs and process/activities. The invention will help HEIs achieve SDGs through strategic implementation of input into given process to yield desired output and outcome at multi-levels in HEIs.

No. of Pages : 17 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202341005583 A
(19) INDIA
(22) Date of filing of Application :27/01/2023
(43) Publication Date : 24/02/2023

(54) Title of the invention : Efficient and Optimized Development of the Eco-Friendly and sustainability based data centers

(51) International classification	:G06F0009500000, G06Q0010060000, H04L0047240000, H04L0067102300, H04L0067100000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Efficient and Optimized Development of the Eco-Friendly and sustainability based data centers Abstract: Due to the exponential growth of data and the rising demand for public cloud services, a large number of new, huge data centres are being planned or constructed around the globe. Due to the widespread alarm generated by the COVID-19 epidemic, a number of firms have moved swiftly to study various strategies of securing their operations. Consequently, the number of data centres has grown. Cloud service providers such as Amazon Web Services, Microsoft, Google, Facebook, and Alibaba have generated billions of dollars due to the growing popularity of cloud computing. In 2020, Microsoft's commercial cloud division made over $50 billion. Jeff Bezos, founder and chief executive officer of Amazon, has announced the company's financial results for the first quarter of 2021. According to him, AWS's estimated annual revenue has exceeded $54 billion. This is a 32 percent rise from the prior year. As the amount of data processed and the size of data centres increase, it is crucial that they take measures to reduce the environmental damage they do. To maximise the energy efficiency of their data centres, companies should investigate and apply eco-friendly alternatives.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/01/2023

(21) Application No.202311004286 A
(43) Publication Date : 27/01/2023

(54) Title of the invention : FINANCIAL TECHNOLOGIES AS A TOOL FOR COMPREHENSIVE BANKING SERVICES

(51) International classification	:G06Q0010060000, G06Q0040040000, G06Q0040020000, G06Q0010100000, G06Q0040060000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The financial services sector has undergone major changes in recent years as a result of new technologies.Business processes in the creation of a banking product, building a long- term strategy and successful project activities are moving into a digital interactive model of interaction in the digital environment.In the emerging markets there are FinTech start-ups in areas such as the service of individuals and private capital management, which are in the lead at the expense of customer-friendly services. Financial technologies are radically changing the competitive environment of financial institutions and the structure of their functioning markets, reducing the branch network of banks, the number of employees in the financial services sector, while expanding their provision in real time, creating conditions for multifunctional digital banks with a low base of current costs by simplifying traditional systems.The FinTech segment of the capital market contributes to the formation of a new business model, offering users a personalized service option combined with lower fixed costs and price parameters.The research presented in the scientific article on the basis of monitoring the practice of financial technologies in the Russian banking system, allows to identify current trends and trends in the development of financial services in the new digital competitive environment, which should be taken into account by the bodies of state regulation and banking supervision.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2023

(21) Application No.202311005682 A
(43) Publication Date : 03/02/2023

(54) Title of the invention : SYSTEMATIC APPROACH TO STUDY THE IMPACT OF ARTIFICIAL INTELLIGENCE ON EMPLOYEES WORKING IN INDUSTRY 4.0 LED ORGANIZATIONS

(51) International classification :A61B0005000000, G06Q0010100000, G06Q0010060000, G16H0040670000, H04W0004020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Determining an updated first group health report for the first group of employees working in the first facility, region, division, or team, wherein the updated first group health report is determined based on the updated health profile for the employee. Electronic monitoring of an electronic device being operated by the employee on the network said third data including data relating to the operation of the electronic device by the employee. The employee workstation is configured to sense the employee's biometric characteristics and to output corresponding biometric health data indicative of the employee's biometric characteristics including multiple biometric sensors. Sensor data is based on at least one sensor monitoring activity of the individual associated with and distinct from the covered entity. Monitoring, with at least one sensor, activity-level related data of the employee associated with and distinct from a workplace entity. Receiving monitoring information from a personal fitness tracker associated with the first employee.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202311054861 A
(19) INDIA
(22) Date of filing of Application :16/08/2023
(43) Publication Date : 15/09/2023

(54) Title of the invention : MODEL DESIGNED TO ASCERTAIN THE SIGNIFICANCE DIFFERENCE CREATED BY DEMOGRAPHICS ON VARIABLES IMPACTING WORK FULFILLMENT OF TEACHERS IN HIGHER EDUCATION SECTOR

(51) International classification :G06Q0010100000, G06Q0050200000, G06Q0010060000, G09B0007000000, G09B0019000000
(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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(57) Abstract :
Abstract Many studies have been undertaken all over the world to analyze employee happinessin many sectors, and researchers have discovered that contentment or discontent varies fromperson to person, despite the fact that the reasons stay consistent. An organizational aspect maynot influence an individual; nevertheless, the same factor may be the source of frustration foranother employee.The present investigation focused on educators in the higher education industry in Lucknow,Uttar Pradesh's capital city. Faculty members are a vital part of any community for a variety ofreasons, and their work is both valued and important. Instructors play a critical role in the livesof children and adolescents from the very beginning of their lives; the importance of instructorscannot be overstated. The present work is an effort to come up with a model ,that can be used to assist the University management in designing faculty oriented strategies ,leading to a holistic development of the University.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/06/2023

(21) Application No.202341041525 A
(43) Publication Date : 07/07/2023

(54) Title of the invention : MACHINE LEARNING BASED APPROACHES FOR RAINFALL PREDICTION SYSTEM FOR SMART CITIES

(51) International classification	:G06F 403000, G06N 030400, G06N 030800, G06N 070000, G06N 200000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
Machine learning based approaches for rainfall prediction system for smart cities is the proposed invention. The invention focuses on predicting the density of rainfall in smart cities. The algorithms of Machine Learning and their predictions will help prevent water clogging in smart cities.

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

INTEGRAL UNIVERSITY
LUCKNOW - INDIA

202311063312 Published Arshi Siddiqui

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202311063312 A
(19) INDIA
(22) Date of filing of Application :21/09/2023
(43) Publication Date : 13/10/2023

(54) Title of the invention : ISOLATION METHOD FOR SLOW AND FAST DEVELOPERS IN A PREDATORY LADYBIRD BEETLES, PROPYLEA DISSECTA (MULSANT)

(51) International classification	:C12N0001360000, G16H0050700000, G16H0015000000, C12R0001190000, C12N0001200000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Developmental plasticity is a well-known individual survival strategy, organisms are usually limited in their ability to read environmental cues and to integrate present and past information for optimally adjusting their phenotype to the state of the environment. Our study was designed to evaluate the effects of line separation on the ontogenesis of developmental variants under standard laboratory conditions. Despite an existing broad body of knowledge surrounding the developmental plasticity of the ladybird Propylea dissecta (Mulsant)(Coleoptera: Coccinellidae) but still experimental evolution studies are still lacking. Our findings revealed the effects of selection on developmental speed over 15 generations. Thus, the ratio of developmental variants changes according to the applied selective pressure but shows to be bimodal in both from F1 to F15 generations.

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

INTEGRAL UNIVERSITY
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202311039777 Published Dr. Firoz Hassan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2023
(21) Application No.202311039777 A
(43) Publication Date : 07/07/2023

(54) Title of the invention : HETEROCYCLIC COMPOUNDS AND METHOD OF PREPARATION THEREOF

(51) International classification :A61P 151800, C02F 015000, C02F 051200, C08G 186200, C10M 591200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to heterocyclic compounds and the method of preparation of a compound of formula (V). In which, 1,3-oxazine compounds containing dihydro-1,3-oxazine ring system exhibited a wide spectrum of pharmacological activities such as anti-tumor, anti-bacterial, anti-inflammatory activity and also known for Type 2 diabetes mellitus (T2DM) characterized by metabolic disorder and hyperglycemia (hepatic glucose overproduction) because of insulin resistance is complex chronic disease. Coumarins having conjugated double ring system makes it exclusive molecules for research because of catering an industry of cosmetics and perfume ingredients, food additives, and especially in the medicinal industry in the synthesis of an important medicine used as antibacterial, anticoagulants, antioxidant and antifungal. According to the present invention, this the great interest to synthesized the hybrid molecule having oxazine and coumarin moiety to turn into effective potential candidate.

No. of Pages : 16 No. of Claims : 5

202321050688 Published Dr. Syed Shahid Mazhar, Dr. Farhina Sardar Khan

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/07/2023
(21) Application No.202321050688 A
(43) Publication Date : 29/09/2023

(54) Title of the invention : DEVELOPMENT OF EDUCATIONAL ASPIRATIONS SCALE OF HIGHER SECONDARY SCHOOL STUDENTS

(51) International classification :G06Q0050200000, G06Q0030020000, G09B0019000000, A61N0007020000, A61N0007000000
(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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(57) Abstract :
DEVELOPMENT OF EDUCATIONAL ASPIRATIONS SCALE OF HIGHER SECONDARY SCHOOL STUDENTS ABSTRACT Adolescence marks the transition from childhood dependence to early adulthood freedom and responsibility. The desire for education is defined as a psychological construct that reveals the cognitive type of motivation of a person. An individual's educational aspirations are goals that they have set for themselves. Parental encouragement refers to the incentive or additional assistance that parents provide to their children in order to promote active involvement in school. The current invention was developed in the Haryana town of Hisar. The 240 respondents in the study's sample comprised a total of 240 respondents, 120 of whom were from Hisar. Both the Educational Aspiration Scale and Sharma's Parental Encouragement Scale were used to assess students' educational desires. The majority of respondents had modest educational objectives, according to the study's findings, and thought their parents encouraged them to a moderate amount. The promotion of their high school children's educational aims and aspirations by their parents was discovered to be highly connected.

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

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202311058126 Published Dr. Aisha Badruddin

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202311058126 A
(19) INDIA
(22) Date of filing of Application :30/08/2023
(43) Publication Date : 29/09/2023

(54) Title of the invention : ESG FRAMEWORK FOR MITIGATING NATURE RELATED RISK FOR SUSTAINABLE DEVELOPMENT IN FINANCIAL SERVICES INDUSTRY

(51) International classification :G06Q0010060000, G06Q0040060000, G06Q0010100000, G06Q0010040000, G06Q0040040000
(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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(57) Abstract :
The modeled framework in figure 1 is based on three step procedure. The step1 is the risk identification. The risk is classified into three categories as Environmental risk, Business Risk and Economic risk. The Environmental risk includes climate change, biodiversity loss, loss of natural habitat, extinction of natural resources including migratory and endangered species, pollution- land, air, water and sound, diseases due to famine, drought, epidemic, pandemic etc. food and fresh water insecurity. The Business risk comprises price externalities in raw material and offerings, stranded assets, capital depletion, disruption in supply chain and value chain, low liquidity and goodwill loss. The economic risk consists of fluctuations in market and business conditions due to fluctuations in macroeconomic situations majorly due to global climate crisis. The Step2 in the framework is about the mitigation of the identified risk through ESG initiatives. The environmental initiatives include responsible and sustainable utilization of natural resources, responsible use of technology, limiting processes to reduce carbon footprint and responsible energy consumption. The social initiatives are taken up for employees and the community. For employees the DEI focused policies and practices and sustainable human resource management and development practices are suggested in the framework. In community initiatives the efforts for responsible, green and sustainable offerings (financial products and services), financing and investment are required. The Governance initiative as suggested in the framework constitutes innovative, green and sustainable business models, policies framework for DEI practices for employees, policies framework for supporting green sustainable and inclusive offerings to the community, regulating and monitoring green investment, monitoring flow of finance and measuring impact on environment, transparency in operations and reporting and ethical practices and code of conduct. The third step involves integrating ESG initiatives with the SDGs attainment. The environmental initiatives results in protecting the environment by overcoming environmental risk thus identified in step 1 in the modeled framework and will contribute in attaining relevant SDGs and its targets. Under social initiative the benefits yielded by the ESG initiatives will contribute in development of employees and the communities as the important stakeholders in the industry. For employees the DEI initiatives in HRM and HRD practices and policies will lead to the attainment of the relevant SDGs and its targets. For community the responsible, green and sustainable offerings (financial product and services), training, education and investment will lead to the attainment of the relevant SDGs and its targets mentioned in detailed framework. The governance practices as innovative, green, sustainable and inclusive policy and regulatory framework will ensure attainment of relevant SDGs and its targets through effective governance.

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(57) Abstract :
ANALYSING THE APPLICATIONS OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FOR SMART VISION FOR BUILDING AND CONSTRUCTION 4.0 TECHNIQUES A method for the development of an infrastructure system for artificial intelligence and machine learning may include one or more storage systems, each of which may include one or more storage devices, and one or more graphics processing units, each of which may be set up to communicate with the one or more storage systems via a communication fabric. The system establishes a first heading or position uncertainty related to the pedestrian's head position or head orientation and a second heading or position uncertainty related to the pedestrian's foot position or foot orientation. In addition, methods for smart sensor and vision data collecting, data cleaning techniques, and data storage are covered. The difficulties in generating models and solutions to these difficulties are also highlighted. Future trends in these domains and possible research avenues are also presented. This article presents a state-of-the-art review of the applications of Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) in building and construction industry 4.0 in the facets of architectural design and visualization; material design and optimization; structural design and analysis; offsite manufacturing and automation. FIG:1

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(57) Abstract :
The invention relates to a deep learning-based rapid post-earthquake damage detection of RC resisting- moment frame buildings. The invention begins by assembling a diverse dataset of pre and post- earthquake images of RC resisting-moment frame buildings, annotated with varying degrees of damage severity. Data pre-processing techniques are applied to standardize the images and enhance their quality, mitigating the impact of noise and data irregularities. A Convolutional Neural Network (CNN) architecture is designed and trained using the pre-processed data to learn intricate patterns and features indicative of damage levels. The proposed deep learning model exhibits robustness and generalization capabilities, allowing it to detect and classify damage levels accurately across different earthquake scenarios. To enhance the model's reliability, complementary data from remote sensing, IoT devices, and structural sensors are integrated into the system. The developed deep learning-based approach demonstrates promising results in real-time damage assessment. In post-earthquake situations, the model processes incoming building images swiftly, providing immediate predictions of damage severity. Decision rules and thresholds are established to guide emergency responders and authorities in determining the appropriate actions for affected buildings.

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