

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 682

Bezeichnung:

Tragbares Gerät zur Gesundheitsvorsorge

IPC:

G16H 80/00

Inhaber/Inhaberin:

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, Chennai, Tamil
Nadu, IN

Susitra, Dhanaraj, Dr., Chennai, Tamil Nadu, IN

Tag der Anmeldung:

01.07.2022

Tag der Eintragung:

28.09.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 28.09.2022



LETTER OF APPRECIATION

Date: -Nov 16, 2022.

To,

Dr. SUSITRA DHANARAJ,

Sathyabama Institute of Science and Technology,

Jeppiaar Nagar, Rajiv Gandhi Salai,

Chennai - 600 119, Tamilnadu, INDIA.

Subject: International IP -Granted Certificate-Reg

Dear Sir/Madam,

Congratulations on receiving your International IP Certificate.

We highly appreciate your contribution to completing this work titled "TRAGBARES GERÄT ZUR
GESUNDHEITSVORSORGE"

With Application Number: 20 2022 103 682

I'm sure it was worth it all, knowing that your achievement will positively impact your career path.

Best wishes for your continued success. We look forward to future projects with you.

Regards,

Fareena

Fareena.A.

Director,

HumCen Global Pvt.Ltd.



(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2022

(21) Application No.202241036007 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : ANTI-TREMOR SUPPORTING SYSTEM

(51) International classification :B25J0009160000, A61B0005000000, B01L0007000000, G06F0003044000, A61B0005103000

(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 :

Accordingly, embodiments herein disclose an anti-tremor supporting system comprises: an accelerometer configured to sense the position of hand by measuring with respect to gravitational force parameter; a nano-microcontroller configured to receive input from the accelerometer; and two servomotors interfaced with the nano-microcontroller. The nano-microcontroller provides an output signal to the servomotors. The servomotors are working in opposite towards the position of the hand which are designed with respect to the accelerometer results. Further, the system may include a force sensor resistive system used to diagnose Parkinson's disease (PD) in patients and to determine the nature of the disease.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : ANTI-TREMOR DEVICE FOR PARKINSON'S DISEASE PATIENTS

(51) International classification :A61B0005048800, A61B0005000000, A61B0005049200, G02F0001136200, A61N0001360000

(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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY**

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(57) Abstract :

Accordingly, embodiments herein disclose an anti-tremor device (100) for parkinson's disease (PD) patients, comprising of: an electromyography (EMG) sensor (110), a servomotor (130) and a tilt sensor (150) interfaced with an Arduino UNO (120). The EMG sensor (110) is configured to record the EMG of patients using three EMG electrodes of which two electrodes are active electrodes and the other is a reference electrode. Code for the Arduino UNO (120) is developed to run both the EMG sensor (110) and the servomotor (130) in sync with each other. When the patients .EMG are below a threshold value the servomotor (130) starts functioning and thus providing massage to the limbs. The servomotor (130) keeps running and ensuring massage until the output displays as normal condition, thereby reducing the pain in the limb of the patient and hence improving the patient's muscular activity.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/09/2022

(21) Application No.202241052384 A

(43) Publication Date : 14/10/2022

(54) Title of the invention : A NOVEL PORTABLE MACHINE TO SANITIZE FOOTWEAR

(51) International classification :A47L0023260000, F24F0003160000, A61L0002100000, A61B0050300000, A01K0001010000
(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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4)Mrs. K.V. Mahalakshmi, Care College of Engineering
5)Dr.R.Venkateshkumar, B V Raju Institute of Technology
6)Mr.K.S Mohan, SNS College of Technology
7)Mr.Dinesh V, Easwari Engineering College
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9)Dr.M.Udhayamoorthi, SNS College of Technology
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(57) Abstract :
Generally, the floor mat is widely accepted for cleaning the underneath of footwear and adopted even in various sensitive locations, for example, Intensive Care Units (ICU), surgery wings, sterile areas of a pharmaceutical manufacturing unit, food packaging and manufacturing locations etc. The user wearing the footwear walks on roads, public toilets, malls, parks, and other open areas from where the footwear is more prone to nosocomial infections/microorganisms. People having these infections embedded in the footwear when they visit these sensitive locations, contaminate the floor and at times become a primary source of spreading serious diseases to other people. In this invention, a sanitization device for sanitization of a footwear that comprises: a back panel housing having an inner surface, an outer surface and surrounding edges; a front panel housing having an inner surface, an outer surface and surrounding edges; a coupling means included along a portion of the surrounding edges of each housing panel arranged to foldably couple the back panel housing and the front panel housing to i) permit the folding of the housings toward each other to enable the inner surface of the front panel to face the inner surface of the back panel to form a closed sanitation device and ii) to permit the unfolding of the housings away from each other to enable the outer surface of the front panel and the outer surface of the back panel to be substantially coplanar to rest on a floor and form an open sanitation device; the back panel housing comprises: a dirt removal mat mounted to the inner surface of the back panel, wherein the dirt removal mat comprises one or more dirt removal means to remove the dirt from the footwear; the front panel housing comprises a first compartment and a second compartment, wherein the second compartment is arranged on top of the first compartment; the first compartment comprises: a battery for direct current (DC) supply; a ballast arranged to receive the direct current (DC) supply from the battery and convert the direct current (DC) supply into alternating current (AC) supply; the second compartment comprises: one or more ultraviolet (UV) radiation emitting sources, which when the UV radiation emitting sources receive the AC current supply, emit UV radiation; one or more limit switches.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036046 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

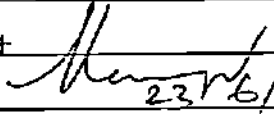
(54) Title of the invention : WEARABLE EPILEPSY SEIZURE DETECTION DEVICE

(51) International classification :A61B0005000000, A61B0005047600, A61B0005040000, A61B0005048000, A61B0005110000 (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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR.A.SIVASANGARI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY ----- 2)MS.SINDU DIVAKARAN Address of Applicant :ASSOT PROFESSOR, DEPT OF BIOMEDICAL, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. ----- 3)DR.GRACE PRINCE KANMANI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF BIOMEDICAL, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY ----- 4)DR.S.GOWRI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----
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(57) Abstract :

ABSTRACT WEARABLE EPILEPSY SEIZURE DETECTION DEVICE Accordingly, embodiments herein disclose wearable epilepsy seizure detection device, comprising of: a plurality of electrodes placed on a scalp which would be connected to a miniaturized signal processing device. The signal processing device detects the seizure with higher true positive rate compared to traditional process. The device may include a means for EEG signal for early detection of epileptic seizures. The marked variation in the EEG signal is observed, prior to the occurrence or during or after the occurrence of the seizure such that the variation in the patterns can be used for detecting the seizure accurately. Further, the device may include a post amplifier used to enhance further signals. The analog EEG signal is converted to digital signals using Analog to Digital converter such that the digital EEG signals are sent to a processor which would process the data and classify it into normal or epileptic form.

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

FORM 1 THE PATENTS ACT 1970 (39 of 1970) & The Patent Rules, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 & 135, and rule 20(1))		(FOR OFFICE USE ONLY) Application No: Filing Date: Amount of fee paid: CBR No: Signature:	
		 700272590	
		Application No.	202241036046
		Filing date:	23/06/2022
		Amount of Fee Paid	1750/-
		CBR No.	24984
		Signature	 23/6/22
1. APPLICANT'S REFERENCE/ IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)			
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]			
Ordinary (✓)		Convention ()	
PCT - NP ()		Divisional ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)			
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3B CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]			
Natural Person ()		Other than Natural Person	
Small Entity ()		Startup ()	Educational Institution (✓)
4. INVENTOR(S) [Please tick (✓) at the appropriate category]			
Are all the inventor(s) same as the applicant(s) named above?		Yes ()	No (✓)
If "No", furnish the details of the inventors(s)			
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Dr.Grace Prince Kanmani	INDIAN	INDIA	Associate Professor, Dept of Biomedical, Sathyabama Institute of Science and Technology
Dr.S.Gowri	INDIAN	INDIA	Associate Professor, Dept of IT, Sathyabama Institute of Science and Technology

5. TITLE OF THE INVENTION

"Wearable Epilepsy Seizure Detection Device"

6. AUTHORISED REGISTERED PATENT AGENT(S)

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Name

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Mobile No.

Nil

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA

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8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention	IPC (as classified in the convention country)
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N.A.

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

International application number

International filing date

N.A.

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

Original (first) application number

Date of filing of Original (first) application number

PATENT OFFICE CHENNAI 24/06/2022 14:58

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

Main application/ Patent Number

Date of Filing of main application

N.A.

9. DECLARATIONS:

i) Declaration by the inventor(s):

I, the below-named inventor am the true and the first inventor for this invention.

(a) Date:

(b) Signature of the inventor:

A. Sivasangari

(c) Name: Dr.A.Sivasangari

I, the below-named inventor am the true and the first inventor for this invention.

(a) Date:

(b) Signature of the inventor:

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(c) Name : Ms.Sindu Divakaran

I, the below-named inventor am the true and the first inventor for this invention.

(a) Date:

(b) Signature of the inventor:

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(c) Name : Dr.Grace Prince Kanmani

I, the below-named inventor am the true and the first inventor for this invention.

(a) Date:

(b) Signature of the inventor:

S. Gowri

(c) Name: Dr.S.Gowri

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

NIL

(54) Title of the invention : SWEAT BASED GLUCOSE MONITORING WITH INBUILT DRUG DELIVERY SYSTEM

(51) International classification :A61B0005145000, A61B0005000000, G06Q0030060000, A61B0005148600, A61B0005145500

(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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(57) Abstract :

Accordingly, embodiments herein disclose a sweat based glucose monitoring with inbuilt drug delivery system, comprising of a plurality of sensors for measuring glucose and temperature simultaneously; and a microcontroller interfaced with the plurality of sensors. The microcontroller provides a mode of selection which it reads an input from the plurality of sensors, and displays the corresponding input on a display unit. The system may include a battery interfaced with the microcontroller; and a power relay module interfaced with the microcontroller. The power relay module is operated by an electromagnet which is activated by a separate low-power signal from the microcontroller. In addition, the system may include a heater interfaced with the power relay module. After finding out the glucose concentration, the system is to control the high glucose concentration by delivering an appropriate amount of drug painlessly and rapidly.

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

FORM 1 THE PATENTS ACT 1970 (39 of 1970) & The Patent Rules, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 & 135, and rule 20(1))		(FOR OFFICE USE ONLY) Application No: Filing Date: Amount of fee paid: CBR No: Signature:	
		 700272651	
		Application No.	202241036025
		Filing date:	23/06/2022
		Amount of Fee Paid	1750/-
		CBR No.	24977
		Signature	<i>[Signature]</i> 23/6/22
1. APPLICANT'S REFERENCE/ IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)			
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]			
Ordinary (✓)		Convention ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
		PCT - NP ()	
3A. APPLICANT(S)			
NAME IN FULL	NATIONALITY	COUNTRY OF RESIDENCE	ADDRESS OF THE APPLICANT
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3B CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]			
Natural Person (✓)		Other than Natural Person	
		Small Entity ()	Startup ()
		Educational Institution (✓)	
4. INVENTOR(S) [Please tick (✓) at the appropriate category]			
Are all the inventor(s) same as the applicant(s) named above?	Yes ()	No (✓)	
If "No", furnish the details of the inventors(s)			
Name in Full	Nationality	Country of Residence	Address for inventor



**INTELLECTUAL
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 044151546
SL No :



पेटेंट सं. / Patent No. : 426346
आवेदन सं. / Application No. : 1654/CHE/2012
फाइल करने की तारीख / Date of Filing : 27/04/2012
पेटेंटी / Patentee : **SATHYABAMA UNIVERSITY**

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित HEURISTIC HEIGHT ADJUSTABLE TRACK MECHANISM FOR A STAIR CLIMBING WHEELCHAIR नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2012 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 HEURISTIC HEIGHT ADJUSTABLE TRACK MECHANISM FOR A STAIR CLIMBING WHEELCHAIR as disclosed in the above mentioned application for the term of 20 years from the 27th day of April 2012 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 22/03/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अप्रैल 2014 के सत्ताईसवें 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 27th day of April 2014 and on the same day in every year thereafter.



ORIGINAL

मूल/No : 126680



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 365449-001
तारीख / Date : 05/06/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **HEALTH MONITORING DEVICE** से संबंधित है, का पंजीकरण, श्रेणी **10-05** में 1.Dr. G Hari Krishnan 2. Mr. G Umashankar 3.Dr. G Mohandass 4.Dr. T. Sudhakar 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 **HEALTH MONITORING DEVICE** in the name of 1.Dr. G Hari Krishnan 2. Mr. G Umashankar 3.Dr. G Mohandass 4.Dr. T. Sudhakar.

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

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

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निर्गमन की तारीख/Date of Issue : 20/01/2023

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.

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INTELLECTUAL PROPERTY BUILDING
G.S.T. Road, Guindy, Chennai-600032
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail : Chennai-patent@nic.in
Web Site : www.ipindia.gov.in



CHALLAN : TR-5
DOCKET NO:45751

Date/Time : 08/05/2023

To,
DR. T. SASIPRABA

Agent Number:

VICE CHANCELLOR, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV
GANDHI ROAD, CHENNAI - 600119, TAMILNADU, INDIAinfo@humcen.com

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	20571	ORDINARY APPLICATION	202341032368	METHOD FOR DEVELOPMENT OF FATTY ACID METHYL ESTERS SOURCED BY WASTE FRYING OIL CATALYZED BY BAZRO3	1750
2		E-101/7270/2023-CHE	202341032368	Correspondence	0
3		E-2/2055/2023-CHE	202341032368	Form2	0
4		E-3/14030/2023-CHE	202341032368	Form3	0
5		E-5/1928/2023-CHE	202341032368	Form5	0
6	20571	E-12/4009/2023-CHE	202341032368	Form9	2750
7	20571	R20234017773	202341032368	Form18	4400
8		E-106/3323/2023-CHE	202341032368	Form28	0
9		E-101/7271/2023-CHE	202341032368	Others(EDUCATIONAL INSTITUTION ELIGIBILITY DOCUMENT)	0
Total :					8900

Received a sum of Rs. 8900 (Rupees Eight Thousand Nine Hundred only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	HDFC Bank	005667	05/05/2023	8900

Note: This is electronically generated receipt hence no signature required.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2022

(21) Application No.202241036042 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : A METHOD FOR SYNTHESIS OF BIOPLASTICS

(51) International classification :C08L0067040000, C12P0007620000, C08L0003020000, A61L0027580000, C08G0018420000
(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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR.D.VENKATESAN

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Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI-600119, TAMILNADU, INDIA. -----

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4)DR S.SATHISH

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CHEMICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI-600119, TAMILNADU, INDIA. ---

(57) Abstract :

ABSTRACT OF THE INVENTION: Title: A method for synthesis of bioplastics The present invention relates to a method for synthesis of bioplastics by Citrus X Sinensis, Musa, Punica granatum peel. The biodegradability of the synthesized bioplastics is more viable that in both the environment like in soil and aquatic, they poses almost nearer to the degradation and atmost degradation of bioplastic. The present invention is a biodegradable, sustainable, and user friendly there by environment friendly bioplastic.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036041 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : A METHOD FOR REMOVAL OF CADMIUM (II) FROM AQUEOUS SOLUTIONS

(51) International classification :C02F0001280000, C07C0231240000, C07C0231220000, A61P0031040000, A61K0031710500

(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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR.D.PRABU

Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF CHEMICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

2)DR.S.SATHISH

Address of Applicant :ASSOCIATE PROFESSOR, HEAD OF THE DEPARTMENT, DEPT OF CHEMICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

3)DR.D.VENKATESAN

Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF CHEMICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

4)DR.A.RENITA

Address of Applicant :PROFESSOR, DEPT OF CHEMICAL ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

(57) Abstract :

ABSTRACT OF THE INVENTION: Title: A method for removal of cadmium (II) from aqueous solutions The present invention relates to a method for removal of cadmium (II) from aqueous solutions. Amino functionalized Fe₃O₄ silica-coated magnetic nanoparticles is prepared by rapid one-step precipitation route followed by reverse microemulsion and amine functionalisation. The structural and physicochemical properties of Fe₃O₄@SiO₂-NH₂ nanoparticles were characterised by XRD, SEM-EDAX: TEM3 FTIR and TGA. Batch experimental tests such as pH, a dose of Fe₃O₄@SiO₂-NH₂ Cd(II) ion concentration, interaction time and temperature were conducted and evaluated. Maximum monolayer adsorption capacity was found as 40.02 mg/g at pH 6 with an interaction time of 30 min and temperature and dose of 30°C. 2.0 g/L. The thermodynamic study exposed that the adsorption study was exothermic and spontaneous reaction. The present invention is an alternative and effective adsorbent for the removal of Cd(II) ions from contaminated sites.

No. of Pages : 21 No. of Claims : 1



ORIGINAL

मूल/No : 125101



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पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	367888-001
तारीख / Date	:	18/07/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **WIND MILL OPERATED SOLAR DESALINATION SYSTEM** से संबंधित है, का पंजीकरण, श्रेणी **23-01** में 1.Dr A. Anderson 2. Mr Lokeswar Patnaik 3.Dr Nivin Joy 4. **Dr A Annam Renita** के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

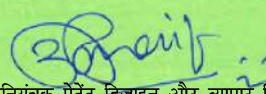
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **23-01** in respect of the application of such design to **WIND MILL OPERATED SOLAR DESALINATION SYSTEM** in the name of 1.Dr A. Anderson 2. Mr Lokeswar Patnaik 3.Dr Nivin Joy 4. **Dr A Annam Renita**.

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

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

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निर्गमन की तारीख/Date of Issue : 12/01/2023


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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.

certificate

on the registration of
the utility model no. 20 2022 105 378

Designation:

A fourth-dimensional Internet of Things (IoT)-based plan
management and construction device

IPC:

G01S 17/88

Owner:

Arvindan, Sivasuriyan, Chennai, Tamil Nadu, IN
Dhanasingh, Sivalinga Vijayan, Chennai, Tamil Nadu, IN
Jayapriya, Jayapal, Chennai, Tamil Nadu, IN
Muruganandam, Durai Raj, Chennai, Tamil Nadu, IN
Nirmala, Ramar, Chennai, Tamil Nadu, IN
Parthiban, Devarajan, Kanchipuram, Tamil Nadu, IN
Ramesh, Nagalingam, Chennai, Tamil Nadu, IN

Date of registration:

09/26/2022

Date of entry:

07.02.2023

The President of the German Patent and Trademark Office

Eva Schier

Eva Schewior

Munich, February 7th, 2023



The requirements for protectability are not checked when registering a utility model. Please refer to the DPMAregister at www.dpma.de for the current legal status and scope of protection.

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शासकीय जर्नल

**OFFICIAL JOURNAL
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निर्गमन सं. 01/2023
ISSUE NO. 01/2023

शुक्रवार
FRIDAY

दिनांक: 06/01/2023
DATE: 06/01/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(51) International classification :G06Q0050260000, G01N0033000000, B01D0053750000, B01D0053560000, B01D0053540000

(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. A. D. Sheena**

Address of Applicant :Department of Civil Engineering, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai – 600117, Tamil Nadu, India Chennai -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Dr. A. D. Sheena**

Address of Applicant :Department of Civil Engineering, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai – 600117, Tamil Nadu, India Chennai -----

2)Dr. Sherlin Prem Nishold S

Address of Applicant :Senior Marine and Coastal Engineer, Jacobs Solutions India Private Limited, 8 KSC Multistoried Building-111, Bangalore – 560052, Karnataka, India Bangalore ---

3)Dr. B. Anuradha

Address of Applicant :Professor, Department of Civil Engineering, Chennai Institute of Technology, Kunderathur, Chennai – 600069, Tamil Nadu, India Chennai -----

4)Dr. S. Packialakshmi

Address of Applicant :Professor & HOD, Department of Civil Engineering, Sathyabama Institute of Science and Technology (Deemed to be University), Chennai - 600119, Tamilnadu, India Chennai -----

5)Mrs. R. Ruthra

Address of Applicant :Assistant Professor, Department of Civil Engineering, St. Joseph's College of Engineering, OMR, Chennai - 600119, TamilNadu, India Chennai -----

(57) Abstract :

Air pollution is a major concern for the earth, and it should not impact their development. Current Scenario, Air pollution is a gas flowing in atmosphere to impairment the health of public, also tear down plants or pull down its healthy growing. The rapid growth of the industrial sector and urban development has led to significant quantities of substances and harm materials, having effects on human health and environmental imbalance. In the place, Alandur Chennai during the month of December 2017 and January 2018, the maximum concentration Nitrogen Dioxide exceeded to 44.8 µg/m³ concentrations; Sulphur Dioxide exceeded to 100.62 µg/m³ concentrations; Ozone level to 121.28 µg/m³ concentrations; Benzene to 15.1 µg/m³ concentrations; Toluene to 11.94 µg/m³ concentrations. For all these parameters, the threat zone Mapping and Marplot is plotted to represent in graphical form for further planning and operational benefits.

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



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मूल/No : 130205



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THE PATENT OFFICE
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CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 376955-001
तारीख / Date : 07/01/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **PLASTIC WASTE MANAGEMENT MACHINE** से संबंधित है, का पंजीकरण, श्रेणी **15-99** में 1.Dr. A. D.Sheena 2. Dr. Sherlin Prem Nishold S 3.Dr. S. Packialakshmi 4.Mrs. R. Ruthra 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 **15-99** in respect of the application of such design to **PLASTIC WASTE MANAGEMENT MACHINE** in the name of 1.Dr. A. D.Sheena 2. Dr. Sherlin Prem Nishold S 3.Dr. S. Packialakshmi 4.Mrs. R. Ruthra.

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

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

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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 381098-001
तारीख / Date : 09/03/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SOLAR POWERED DEVICE TO CHECK NUTRIENTS IN WATER** से संबंधित है, का पंजीकरण, श्रेणी 10-05 में 1.Dr. T. Vinod Kumar 2. Mr.S.Arunkumar 3.Dr.R.B.Malathy 4.P. Padmalosan 5.Dr.S.Ramasubramanian 6.Mr.S.Baskar 7.Mr.A.Yesu Chinnapparaj 8.Mr.S.Bharath 9.Dr.D.Sendil Kumar 10.Mr.R.Shankara Narayanan 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 **SOLAR POWERED DEVICE TO CHECK NUTRIENTS IN WATER** in the name of 1.Dr. T. Vinod Kumar 2. Mr.S.Arunkumar 3.Dr.R.B.Malathy 4.P. Padmalosan 5.Dr.S.Ramasubramanian 6.Mr.S.Baskar 7.Mr.A.Yesu Chinnapparaj 8.Mr.S.Bharath 9.Dr.D.Sendil Kumar 10.Mr.R.Shankara Narayanan.

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

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

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GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 24/05/2023

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.



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>)



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

Application Details	
APPLICATION NUMBER	202241058461
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/10/2022
APPLICANT NAME	1 . Dr.M.Kumaresan, Jain (Deemed-to-be University) 2 . Mrs.Swati Verma, R. Mangalam World School 3 . Mr.R.Vignesh, Sathyabama Institute of Science and Technology 4 . Mrs.D.Deepa, Sathyabama Institute of Science and Technology 5 . Mrs.D Jennifer, Panimalar Engineering College 6 . Mr.Murali E, Sathyabama Institute of Science and Technology 7 . Mrs.Priyanka Rastogi, K.C.M. SCHOOL 8 . Dr.Rasmi.A, R R Institute of Technology 9 . Dr.G Maria Jones, Sathyabama Institute of Science and Technology 10 . Dr.Sreeji.S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	DESIGN SYSTEM OF IoT-DRIVEN LEAF INFECTION WITH SOIL PROPERTY PREDICTION BY USING DEEP LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE

E-MAIL (As Per Record)	phdkumaresan@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	21/10/2022

Application Status

APPLICATION STATUS

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

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Ministry of Commerce & Industry,
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Application Details	
APPLICATION NUMBER	202241036880
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/06/2022
APPLICANT NAME	1 . Dr. A. Jemshia Miriam 2 . Dr. S. Raja shree 3 . Ms. M. Nafees Muneera 4 . Dr. V. Saranya 5 . J. Karthika 6 . M. Vanathi 7 . B. Sandhiya 8 . R. Vignesh 9 . D. Deepa 10 . S. Hemalatha
TITLE OF INVENTION	AN IOT BASED SMART BABY TOWEL FOR PREDICTING BEHVIOUR AND CARE OF NEWBORN
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	jemshiamiriam@gmail.com
ADDITIONAL-EMAIL (As Per Record)	nagu.sajana@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/07/2022



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सत्यमेव जयते

क्रमांक : 044143422
SL No :



भारत सरकार
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पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 402799
आवेदन सं. / Application No. : 202041024725
फाइल करने की तारीख / Date of Filing : 12/06/2020
पेटेंटी / Patentee : 1.DR. G. KULANTHAIVEL 2.DR.V. ULAGAMUTHALVI

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित SMART CABIN TO SHORTLIST COVID-19 PATENTS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2020 के बारहवें 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 SMART CABIN TO SHORTLIST COVID-19 PATENTS as disclosed in the above mentioned application for the term of 20 years from the 12th day of June 2020 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 02/08/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2022 के बारहवें 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 12th day of June 2022 and on the same day in every year thereafter.



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GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

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पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 044141471
SL No :



पेटेंट सं. / Patent No. : 397583
आवेदन सं. / Application No. : 202041031487
फाइल करने की तारीख / Date of Filing : 23/07/2020
पेटेंटी / Patentee : 1.Dr.G.S. UTHAYAKUMAR 2.Dr.G.KULANTHAIVEL
3.Dr.P.SAKTHIVEL 4.Dr.V.ULAGAMUTHALVI

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित SENSOR CIRCUIT FOR LUNG VITAL SIGNS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जुलाई 2020 के तेइसवें 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 SENSOR CIRCUIT FOR LUNG VITAL SIGNS as disclosed in the above mentioned application for the term of 20 years from the 23rd day of July 2020 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 25/05/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जुलाई 2022 के तेइसवें 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 23rd day of July 2022 and on the same day in every year thereafter.



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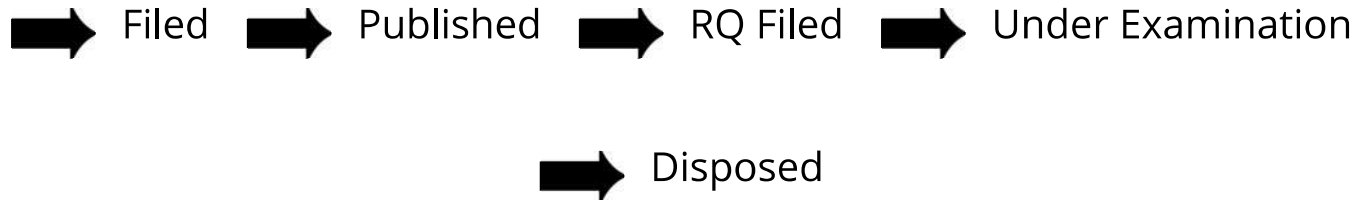
Application Details	
APPLICATION NUMBER	202241053438
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/09/2022
APPLICANT NAME	1 . Dr. G. M. KarpuraDheepan 2 . Dr. B. U. AnuBarathi 3 . Mr. K. Babu 4 . Mr. Amandeep Singh K 5 . Mr. G. Muthugurunathan 6 . Dr. S. Rajashree 7 . Dr. M. NafeesMuneera 8 . Dr. A. Jemshia Miriam 9 . Mrs. Suja Cherukullapurath Mana 10 . Dr. N. S.Usha
TITLE OF INVENTION	ARTIFICIAL NEURAL NETWORK BASED SYSTEM FOR PREDICTING CHILD MENTAL STRESS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	karpuradheepan.cse@sathyabama.ac.in
ADDITIONAL-EMAIL (As Per Record)	nskdtris@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/10/2022

Application Status

APPLICATION STATUS

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Application Details

APPLICATION NUMBER	202241043689
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/07/2022
APPLICANT NAME	1 . Dr. C. Hemalatha 2 . Dr. C. Kavitha 3 . Dr. Kanlpriya M 4 . Dr. N. Sridevi 5 . Dr. M. Suganlya 6 . S.R. Srividhya 7 . S. Pothumani 8 . Priyanka N
TITLE OF INVENTION	A SECURE IOT DATA SHARING BASED ON DEEP REINFORCEMENT LEARNING
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	drhemac19@gmail.com
ADDITIONAL-EMAIL (As Per Record)	nagu.sajana@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/08/2022

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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Application Details	
APPLICATION NUMBER	202341011576
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/02/2023
APPLICANT NAME	1 . Mrs.K.Anita Davamani 2 . Dr.N.Kavitha 3 . Dr. Jebarani Evangeline S 4 . Dr. K. Sangeetha 5 . Ekta Shivhare 6 . Dr.S.Prakash
TITLE OF INVENTION	AI BASED NANOTECHNOLOGY TO TREAT BLOOD CANCER NODES
FIELD OF INVENTION	BIO-CHEMISTRY
E-MAIL (As Per Record)	vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/03/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination
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Application Details	
APPLICATION NUMBER	202341032340
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/05/2023
APPLICANT NAME	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
TITLE OF INVENTION	"MANEUVERING LENS IN MOBILE GADGETS BY DINT OF SMART GLASS"
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	info@humcen.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	08/05/2023
PUBLICATION DATE (U/S 11A)	16/06/2023

Application Status	
APPLICATION STATUS	Application Awaiting Examination

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Application Details	
APPLICATION NUMBER	202341032348
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/05/2023
APPLICANT NAME	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
TITLE OF INVENTION	"AERO DELIVERY SYSTEM FOR DEED OF DELIVERY IN SURVEILLANCE, MILITARY AND POLICE DEPARTMENTS"
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	info@humcen.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	08/05/2023
PUBLICATION DATE (U/S 11A)	16/06/2023

Application Status	
APPLICATION STATUS	Application Awaiting Examination

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Application Details

APPLICATION NUMBER	202341005248
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/01/2023
APPLICANT NAME	1 . Dr. Vijay Arputharaj. J 2 . Mr. Vijjapu Anuragh 3 . Dr. M. P. Vaishnnave 4 . Dr. Shubham Mahajan 5 . Dr. Barjinder Kaur 6 . Dr. R. Kanakaraj 7 . Mr. Ranjithkumar R 8 . Mr. Parashuram Shankar Vadar 9 . Dr. Charu Gupta 10 . Dr. Palak Girdhar 11 . Dr. V. Kannan 12 . Mr. J Logeshwaran
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE HEALTHCARE CHAT BOX SYSTEM
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/02/2023

Application Details	
APPLICATION NUMBER	202241077461
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/12/2022
APPLICANT NAME	1 . Mr.K.Babu,SRM Institute of Science and Technology, Kattankulathur 2 . Ms.K. Neela, Sri SaiRam Engineering College,Chennai 3 . Ms.R.Asha, Sathyabama Institute of Science and Technology 4 . Dr.A.Deepa, Sathyabama Institute of Science and Technology 5 . Mrs.Parveen Akhther, Sathyabama Institute of Science and Technology 6 . Mr. Prasanth V.S, Victory Institute of Technology, Thrissur 7 . Ms.M Beula kutti, KCG college of Technology 8 . Ms.Reddy Selvam Mamatha, KCG college of Technology 9 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology 10 . Dr. Sreeji. S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design Intelligent Human Activity Tracking and Monitoring system for eHealth care using IoT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	babuk1@srmist.edu.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/01/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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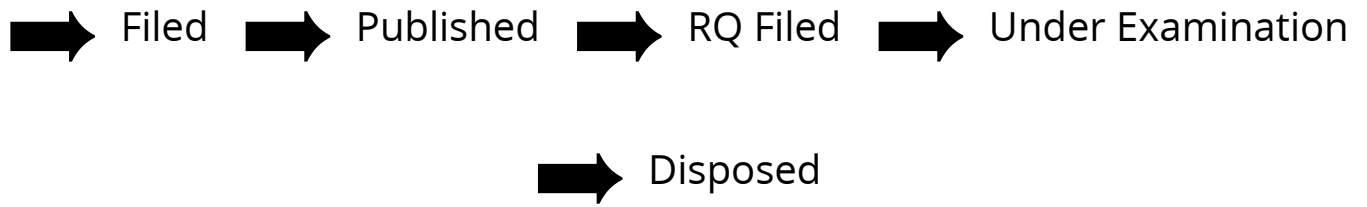
Application Details

APPLICATION NUMBER	202241047815
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/08/2022
APPLICANT NAME	1 . Dr. A. Christy 2 . Dr. M.D. Anto Praveena 3 . Dr. L. Suji Helen
TITLE OF INVENTION	A MODERN DIGITAL FRAMEWORK FOR SMART CITIES BASED ON BLOCK CHAIN AND FOG COMPUTING TECHNOLOGIES
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	ac.christy@gmail.com
ADDITIONAL-EMAIL (As Per Record)	nskdtris@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/09/2022

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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E-mail : Chennai-patent@nic.in
Web Site : www.ipindia.gov.in



C.B.R. NO : 200049

Date/Time :
06/03/2023 14:58:48

To

DR. G. NAGARAJAN

PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI-600119. 9444173937 nagarajanme@yahoo.co.in

Sr No.	Reference Number	Application Number	Name of Article	Amount Paid	Amount Computed
1	380849-001	380849-001	PIEZO ELECTRIC BOXING PUNCHING BAG/21-02	1000	1000

Received a sum of Rs. 1000 (Rupees One Thousand only) through

Payment Mode	Bank Name	Cheque/Draft Number/UPI	Cheque/Draft Date	Amount in Rs.
Draft	TAMILNAD MERCAN. BANK LTD	630356	04/03/2023	1000

Note: This is electronically generated receipt hence no signature required.



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Application Details	
APPLICATION NUMBER	202241039435
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/07/2022
APPLICANT NAME	1 . Suja Cherukullapurath Mana 2 . Manju C Nair 3 . R. Velvizhi 4 . Kalaivani A 5 . Santhiya P 6 . D. Nancy Kirupanithi 7 . Dr. G. M. Karpura Dheepan 8 . N.S.Usha 9 . G Maria Jones 10 . Subathra .G
TITLE OF INVENTION	AN AUTO WEIGHTED SHEET METAL BENDING REMOVAL MACHINE USING DEEP LEARNING TECHNIQUE
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	cmsuja@gmail.com
ADDITIONAL-EMAIL (As Per Record)	nagu.sajana@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/07/2022



ORIGINAL

मूल/No : 121252



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THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 364195-001
तारीख / Date : 13/05/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SWITCH BOARD IN-BUILT WIRELESS CHARGER** से संबंधित है, का पंजीकरण, श्रेणी 13-02 में 1.Dr. A. Pravin 2. Dr. T. Prem Jacob 3.Dr. K. Mohana Prasad के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

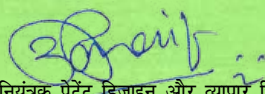
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 13-02 in respect of the application of such design to **SWITCH BOARD IN-BUILT WIRELESS CHARGER** in the name of 1.Dr. A. Pravin 2. Dr. T. Prem Jacob 3.Dr. K. Mohana Prasad.

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

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

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GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 22/12/2022


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.



ORIGINAL

मूल/No : 129185



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GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 357809-001
तारीख / Date : 03/02/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **LAPTOP SUPPORT AND PROTECTION TOOL** से संबंधित है, का पंजीकरण, श्रेणी 14-06 में 1.Dr. T. Prem Jacob 2. Dr. A. Pravin 3.Dr. K. Mohana Prasad के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

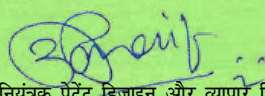
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-06 in respect of the application of such design to **LAPTOP SUPPORT AND PROTECTION TOOL** in the name of 1.Dr. T. Prem Jacob 2. Dr. A. Pravin 3.Dr. K. Mohana Prasad.

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

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

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GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 15/02/2023


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.



Dated : 20/12/2022

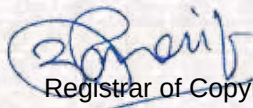
1. Registration Number : **L-119826/2022**
2. Name, address and nationality of the applicant : DR. P. ASHA , B21-F1 & F2, ANNAI AVANTIKA APARTMENTS, ANJANEYAR KOIL STREET EXTENSION, VENGAIVASAL, CHENNAI-INDIAN
3. Nature of the applicant's interest in the copyright of the work : OWNER
4. Class and description of the work : LITERARY/ DRAMATIC WORK A SURGICAL ROBOT POSITIONING SYSTEM AND RELATED DEVICES AND METHODS
5. Title of the work : A SURGICAL ROBOT POSITIONING SYSTEM AND RELATED DEVICES AND METHODS
6. Language of the work : ENGLISH
7. Name, address and nationality of the author and if the author is deceased, date of his decease : DR. P. ASHA , B21-F1 & F2, ANNAI AVANTIKA APARTMENTS, ANJANEYAR KOIL STREET EXTENSION, VENGAIVASAL, CHENNAI-INDIAN
8. Whether the work is published or unpublished : UNPUBLISHED
9. Year and country of first publication and name, address and nationality of the publisher : N.A.
10. Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers : N.A.
11. Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any : DR. P. ASHA , B21-F1 & F2, ANNAI AVANTIKA APARTMENTS, ANJANEYAR KOIL STREET EXTENSION, VENGAIVASAL, CHENNAI-INDIAN
12. Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright : N.A.
13. If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown). : N.A.
14. If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957. : N.A.
15. If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details. : N.A.
16. If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000.whether it has been applied to an article though an industrial process and ,if yes ,the number of times it is reproduced. : N.A.
17. Remarks, if any :

Diary Number : 12468/2022-CO/L

Date of Application : 12/06/2022

Date : 12/06/2022




Registrar of Copyrights



Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

357709-001

Cbr Number:

212826

Cbr Date:

01/02/2022 22:46:26

Applicant Name:

1. Dr. P. Asha 2. Dr. B. Ankayarkanni 3. Dr. A. Mary Posonia

4. Dr. J. Albert Mayan

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 18/2023 and Journal Date is 05/05/2023

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

Application Details	
APPLICATION NUMBER	202341025001
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/03/2023
APPLICANT NAME	1 . Mr.E.Murali, Sathyabama Institute of Science and Technology 2 . Dr A.C. Santha Sheela, Sathyabama Institute of Science and Technology 3 . Mr.R.Vignesh, Sathyabama Institute of Science and Technology 4 . Ms. D. Deepa, Sathyabama Institute of Science and Technology 5 . Ms.Suja Cherukullapurath Mana, Sathyabama Institute of Science and Technology 6 . Dr. G. Kalaiarasi, Sathyabama Institute of Science and Technology 7 . Dr. M. Selvi, Sathyabama Institute of Science and Technology 8 . Ms.R.Yogitha, Sathyabama Institute of Science and Technology 9 . Mr. Janarthanan.S, Galgotias University 10 . Mr.A.Yovan Felix, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design system of Real-Time Moving Object Segmentation for Automated Driving using IoT
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	emurali88@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/04/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

			View Documents
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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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



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Application Details	
APPLICATION NUMBER	202341023737
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/03/2023
APPLICANT NAME	1 . Dr. V. SUMATHI 2 . P. NAVANEETHAKRISHNAN 3 . Dr. J. SENTHIL MURUGAN 4 . S PERUMAL 5 . Mr. SACHIN BAJIRAO SATAM 6 . Dr. SURESH BABU CHANGALASETTY 7 . Dr. LALITHA SAROJA THOTA 8 . Dr. SUJA CHERUKULLAPURATHMANA 9 . Mr. AMITH KUMAR G 10 . Dr. W T CHEMBIAN
TITLE OF INVENTION	IMAGE PROCESSING BASED AUTOMATIC FISH CUTTING MACHINE
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	padhu003@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	21/04/2023



ORIGINAL

मूल/No : 133091



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

डिजाइन सं. / Design No. : 368346-001
तारीख / Date : 26/07/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **IOT BASED SANITATION CABINET FOR ELECTRONIC DEVICES** से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Joshila Grace L.K. 2. Dr. Birendra Kumar Chauhan 3.Dr. Naresh E 4.Mr. S. Thivaharan 5.Dr. Rachita Mustilwar 6.Bhaskar Roy के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

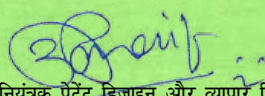
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to **IOT BASED SANITATION CABINET FOR ELECTRONIC DEVICES** in the name of 1.Dr. Joshila Grace L.K. 2. Dr. Birendra Kumar Chauhan 3.Dr. Naresh E 4.Mr. S. Thivaharan 5.Dr. Rachita Mustilwar 6.Bhaskar Roy.

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

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

INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 12/04/2023


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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.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/03/2023

(21) Application No.202341016222 A

(43) Publication Date : 24/03/2023

(54) Title of the invention : DATA SCIENCE WORK FLOW EXECUTION PLATFORM WITH AUTOMATICALLY MANAGED CODE

(51) International classification :G06F 084100, G06F 095000, H04L 410816, H04L 671095, H04N 010000
(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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3)K.Sethurajan

4)Dr C.N.Ravi

5)Suresh Pratap

6)P.Malathi

7)Niranjan Rampravesh Barnwal

8)Arunmurugan Subbaiyan

Name of Applicant : NA

Address of Applicant : NA

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8)Arunmurugan Subbaiyan

Address of Applicant :Assistant professor / ECE Periyar Maniammai Institute of science and technology Thanjavur, Tamilnadu, India -----

(57) Abstract :

DATA SCIENCE WORK FLOW EXECUTION PLATFORM WITH AUTOMATICALLY MANAGED CODE Data science workflow execution platform with automatically managed code, wherein the system includes, including a target model entity type, wherein model entities of the type represent targets and/or projects of the collaborative activity. The method of establishing a nested hierarchy of nodes representing multiple logical and geographic partitions of a local or global enterprise or government entity, and the megaprograms and megaprojects that may span multiple such partitions, the hierarchy being navigated from a top node or master node representing a megaprogram. A first programming language defined to generate multiple results; verifying that data from the additional data source is compatible with the selected compatible data science algorithm and allocating a portion of the contestant's ongoing compensation in the data prediction contest by the contestant to allow the contestant to fragment a task in different ways according to one or more goals and constraints of the contestant.

No. of Pages : 16 No. of Claims : 1

Design Application Details

Application Number: 375792-001
Cbr Number: 200168
Cbr Date: 19/12/2022 14:55:19
Applicant Name:
1. DR. R I MINU
2. DR. G. NAGARAJAN
3. DR. R. XAVIER ARULAPPA

Design Application Status

Application Status: Design Accepted and Published, Journal No is 06/2023 and Journal Date is 10/02/2023

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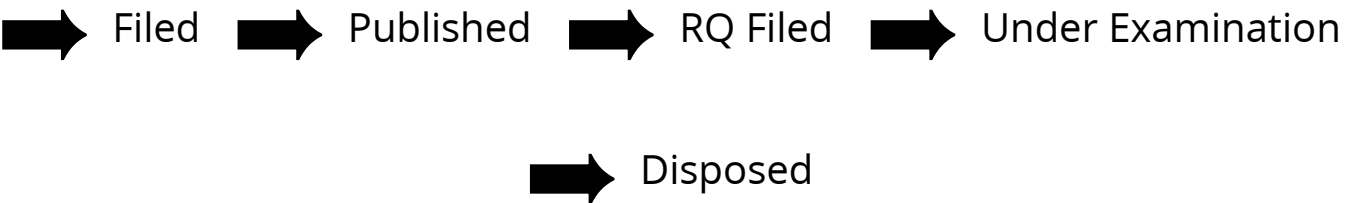
Application Details	
APPLICATION NUMBER	202241065775
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/11/2022
APPLICANT NAME	1 . Ms.R.Asha, Sathyabama Institute of Science and Technology 2 . Dr. J. Jeslin Shanthamalar, Sathyabama Institute of Science and Technology 3 . Dr. Nancy Noella R S, Sathyabama Institute of Science and Technology 4 . Ms. Devipriya M, Sathyabama Institute of Science and Technology 5 . Ms. Lakshmi Priya S, Sathyabama Institute of Science and Technology 6 . Mrs. Nithya S, Sathyabama Institute of Science and Technology 7 . Ms.C.A.Daphine Desona Clemency, Sathyabama Institute of Science and Technology 8 . Mr. K.Babu, Sathyabama Institute of Science and Technology 9 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology 10 . Dr. Sreeji. S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design System for Detecting Blood Leakage during Hemodialysis Using Real-Time Internet of Medical Things
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	ashasekar02@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/12/2022

(21) Application No.202241077461 A

(43) Publication Date : 06/01/2023

(54) Title of the invention : Design Intelligent Human Activity Tracking and Monitoring system for eHealth care using IoT

(51) International classification :A61B0005000000, A61B0005021000, A61B0005022000, A61P0025220000, A61B0005024000
(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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3)Ms.R.Asha, Sathyabama Institute of Science and Technology
4)Dr.A.Deepa, Sathyabama Institute of Science and Technology
5)Mrs.Parveen Akhther, Sathyabama Institute of Science and Technology
6)Mr. Prasanth V.S, Victory Institute of Technology, Thrissur
7)Ms.M Beula kutti, KCG college of Technology
8)Ms.Reddy Selvam Mamatha, KCG college of Technology
9)Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology
10)Dr. Sreeji. S, Sathyabama Institute of Science and Technology
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
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8)Ms.Reddy Selvam Mamatha, KCG college of Technology
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9)Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology
Address of Applicant :Assistant Professor, Computer Science and Engineering, Sathyabama Institute of Science and Technology, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119 Chennai -----
10)Dr. Sreeji. S, Sathyabama Institute of Science and Technology
Address of Applicant :Assistant Professor, Computer Science and Engineering, Sathyabama Institute of Science and Technology, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119 Chennai -----

(57) Abstract :
Smart health monitoring systems have been made possible by the Internet of Things (IoT). These health monitoring tools help keep tabs on a person's physical and emotional well-being. Numerous physical and mental illnesses have stress, anxiety, and hypertension as major contributing factors. In this context, it is necessary to pay particular attention to age-related issues like stress, anxiety, and hypertension. Monitoring blood pressure, stress, and anxiety can stop long-term harm by spotting issues early. As a result, the burden on carers will decrease, and healthcare expenses will go down. Utilizing covert wearable sensors and machine learning techniques, identify novel technological solutions for monitoring stress, anxiety, and blood pressure in real time. An automated artifact detection technique for BP and PPG signals was developed in this work. It was suggested that the blood pressure signal be automatically cleaned of outlier points produced by movement artifacts. Next, the oscillometric waveform envelope's eleven properties were used to examine the connection between diastolic blood pressure (SBP) and systolic blood pressure (DBP). This method supports a suggested computer technique for calculating blood pressure. To estimate systolic and diastolic blood pressure readings from PPG signal properties, the suggested architecture uses sophisticated regression.

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



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Application Details	
APPLICATION NUMBER	202341028388
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/04/2023
APPLICANT NAME	Sathyabama Institute of Science and Technology (Deemed to be University)
TITLE OF INVENTION	A BLOCKCHAIN-BASED SYSTEM FOR SECURE AND TRANSPARENT SUPPLY CHAIN MANAGEMENT
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	mail2patentipr@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/05/2023



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
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Application Details	
APPLICATION NUMBER	202311026125
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/04/2023
APPLICANT NAME	1 . Mr. Manimuthu Ayyannan 2 . Dr. Brahampal Singh 3 . Dr. Rahul Gedam 4 . Mr. H C Sudheendramouli 5 . Mr. Anil Kumar Biswal 6 . Mr. Murari D Kamalesh 7 . Dr. Monika Sharma 8 . Dr. Vilas Ramrao Joshi 9 . Dr. Mohd Wazih Ahmad 10 . Dr. Aruna M G
TITLE OF INVENTION	Multi-Protocol anomaly detection pipeline for Internet of Things
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	esdiyeminfotech@gmail.com
ADDITIONAL-EMAIL (As Per Record)	esdiyeminfotech@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/05/2023



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202241037150
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/06/2022
APPLICANT NAME	1 . Mr.T.Venketbabu 2 . Mr. MOHAMMAD OWAIS 3 . RAJRUPA METIA 4 . PINAKI SATPATHY 5 . SANTANU MAITY 6 . RAZIA SULTANA 7 . AMIT BHATTACHARYYA 8 . Mr.J Logeshwaran 9 . Dr. HARISHCHANDER ANANDARAM 10 . Mr. VARUSAI MOHAMED 11 . SUMAN PAUL 12 . AVISHEK DAS
TITLE OF INVENTION	The sentimental analysis based disease estimation and health risk prediction system
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	ipr@singhwal.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/07/2022



ORIGINAL

मूल/No : 127065



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THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 367992-001
तारीख / Date : 19/07/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SMART LPG LEVEL MONITORING TROLLEY** से संबंधित है, का पंजीकरण, श्रेणी **10-04** में 1.Dr.P.Praveen Raj 2. Mr.T.Venketbabu 3.Dr. Mahesha. C.R 4.Dr Divya Tyagi 5.Dr . Neelamegan Sengodan 6.Mr.Felix Sahayaraj 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 **SMART LPG LEVEL MONITORING TROLLEY** in the name of 1.Dr.P.Praveen Raj 2. Mr.T.Venketbabu 3.Dr. Mahesha. C.R 4.Dr Divya Tyagi 5.Dr . Neelamegan Sengodan 6.Mr.Felix Sahayaraj.

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

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

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निर्गमन की तारीख/Date of Issue : 25/01/2023

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

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Application Details	
APPLICATION NUMBER	202221075727
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/12/2022
APPLICANT NAME	1 . Dr. Tejas Harshadbhai Thakkar 2 . Dr. P. Tamil Selvi 3 . Dr. S Bangaru kamatchi 4 . Mr. Sasidhar K 5 . Mrs. C. Jeyalakshmi 6 . Dr. A. Vijayara 7 . Dr. Dhananjay Kanjibhai Dhruv 8 . Mr. Prathipati Ratna Kumar 9 . Mr. Leeladhar Kumar Gavel 10 . Dr. Anant Sanjayrao Deshpande 11 . Dr. V. Kannan 12 . Mr. J Logeshwaran
TITLE OF INVENTION	IOT-BASED PESTICIDE CONTROL SYSTEM FOR SUGARCANE USING MACHINE LEARNING APPROACH
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	arinnapatent1@gmail.com
ADDITIONAL-EMAIL (As Per Record)	arinnapatent1@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	27/01/2023



ORIGINAL

मूल/No : 137077



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

डिजाइन सं. / Design No. : 381336-001
तारीख / Date : 12/03/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SOLAR POWERED SEA WATER DESALINATION APPARATUS** से संबंधित है, का पंजीकरण, श्रेणी 23-01 में 1.Dr.S.Prince Mary 2. Dr. A.Mary Posonia 3.Dr.B.Ankayarkanni 4.Dr. Sathya Bama Krishna R के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

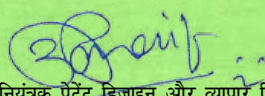
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 23-01 in respect of the application of such design to **SOLAR POWERED SEA WATER DESALINATION APPARATUS** in the name of 1.Dr.S.Prince Mary 2. Dr. A.Mary Posonia 3.Dr.B.Ankayarkanni 4.Dr. Sathya Bama Krishna R.

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

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

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निर्गमन की तारीख/Date of Issue : 23/05/2023


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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.



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Certificate of Registration for a UK Design

Design number: 6285142

Grant date: 05 June 2023

Registration date: 24 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. Asha Pandian, Dr. Ankayarkanni Bagavathiappan, Dr. Prince Mary

Stanislaus, Dr. Albert Mayan John, Dr. Usha Nandini Duraisamy

in respect of the application of such design to:

Medical Device for Measuring Bodily Fluid in Neonates

International Design Classification:

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 02 MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR LABORATORY USE

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

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



Intellectual Property Office is an operating name of the Patent Office

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Application Details

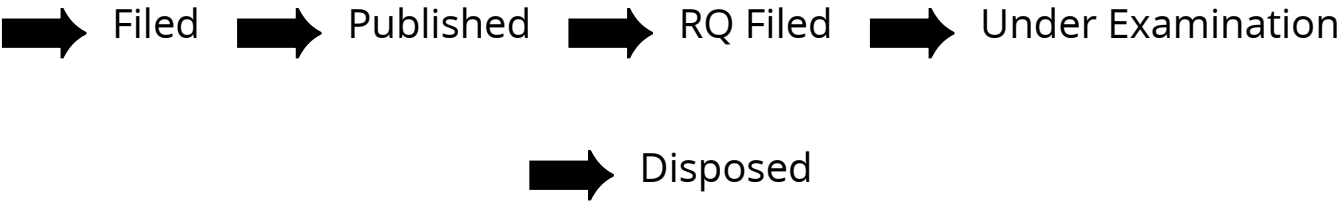
APPLICATION NUMBER	202341025048
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/04/2023
APPLICANT NAME	1 . Dr K Sivakumar 2 . Sanjukta Mohanty 3 . Dr.Mrityunjai Pandey 4 . Vinod N. Alone 5 . Dr. Panem Charanarur 6 . Dr.R.Maruthaveni Ph.D., 7 . Parveen Akhther. A 8 . Roshini Varatharajan 9 . Parul Bhargava 10 . Neerav Nishant 11 . Dr Amit chauhan 12 . Deepak Bansal
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED CYBERSECURITY INTRUSION DETECTION THREATS AND OPPORTUNITIES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/05/2023

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Application Details

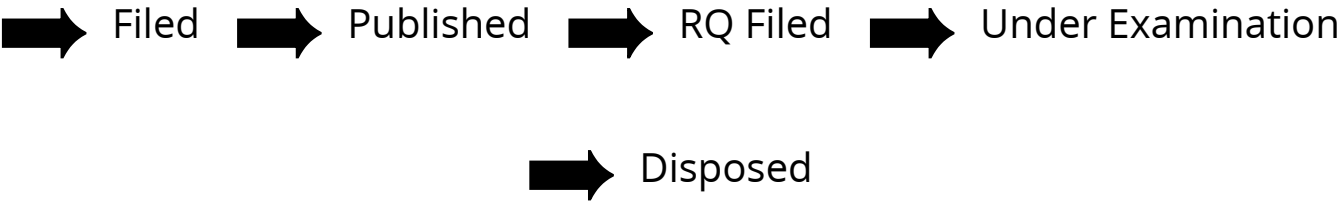
APPLICATION NUMBER	202341004218
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/01/2023
APPLICANT NAME	1 . Dr.D.Menaka, Sathyabama Institute of science and Technology 2 . Dr.Dasari Naga Vinod, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology 3 . Dr. Banu Priya P, Vel Tech Rangarajan Dr. Sakunthala R&D Institute of Science and Technology 4 . Dr. Subash R, SRM Institute of Science and Technology,Kattankulathur 5 . Mr.Gopi K, Sri Sairam Engineering College,Chennai
TITLE OF INVENTION	Deep Learning approach for Predicting Ocean Parameters
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	menakamani.m@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/02/2023

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Application Details

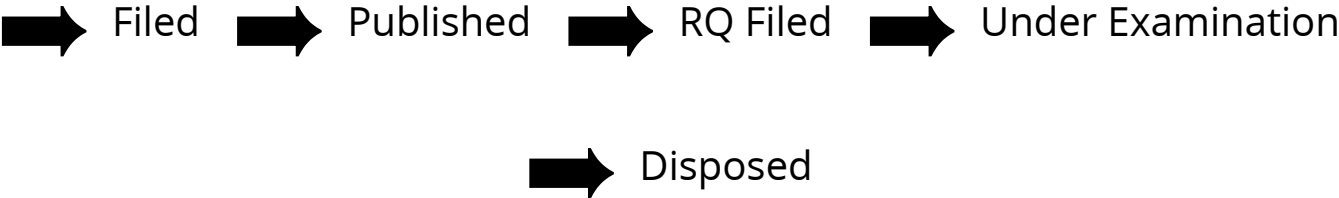
APPLICATION NUMBER	202341017414
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/03/2023
APPLICANT NAME	1 . Prasanth V.S 2 . Parveen Akhther. A 3 . Yatish S J 4 . Ravindra Kumar Yadav 5 . Mohd Suhaib Abbasi 6 . Kalva yamini 7 . Dr.Sheetal Atul Phatangare 8 . T. Prabakaran 9 . Neerav Nishant 10 . Dr.A.Sasi Kumar 11 . Priyank Udaybhai Trivedi 12 . Deepak Bansal
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE, BIG DATA, INTERNET OF THINGS, AND BLOCKCHAIN TECHNIQUES AND APPLICATIONS IN SMART ENERGY MANAGEMENT
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/04/2023

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Application Details

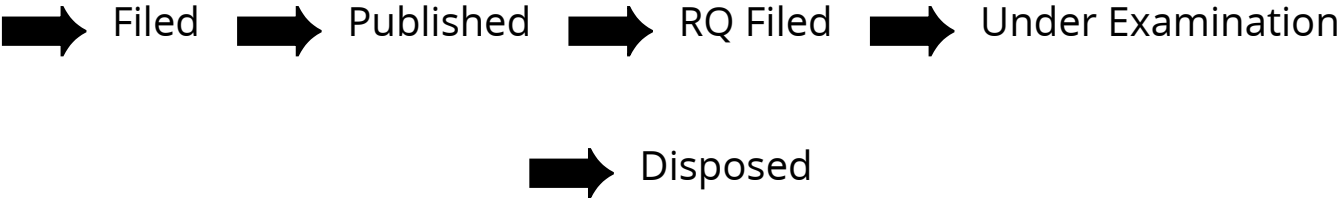
APPLICATION NUMBER	202241077461
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/12/2022
APPLICANT NAME	1 . Mr.K.Babu,SRM Institute of Science and Technology, Kattankulathur 2 . Ms.K. Neela, Sri SaiRam Engineering College,Chennai 3 . Ms.R.Asha, Sathyabama Institute of Science and Technology 4 . Dr.A.Deepa, Sathyabama Institute of Science and Technology 5 . Mrs.Parveen Akhther, Sathyabama Institute of Science and Technology 6 . Mr. Prasanth V.S, Victory Institute of Technology, Thrissur 7 . Ms.M Beula kutti, KCG college of Technology 8 . Ms.Reddy Selvam Mamatha, KCG college of Technology 9 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology 10 . Dr. Sreeji. S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design Intelligent Human Activity Tracking and Monitoring system for eHealth care using IoT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	babuk1@srmist.edu.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/01/2023

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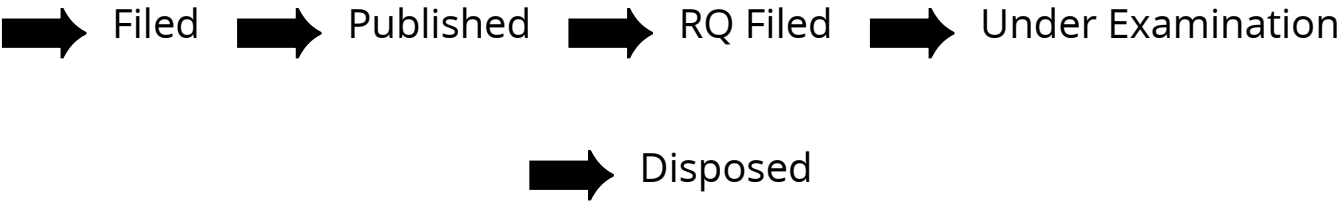
APPLICATION NUMBER	202241070398
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/12/2022
APPLICANT NAME	1 . Mr.B.Sathiyaprasad 2 . Dr.Nancy Noella R S 3 . Ms. Devipriya M 4 . Ms. Lakshmi Priya S 5 . Ms. G. Lavanya 6 . Mrs.Parveen Akhther 7 . Ms. R. Nivedha 8 . Ms. B. Balasaigayathri 9 . Mrs.G. Anbu Selvi 10 . Dr. Sreeji. S
TITLE OF INVENTION	IOT-DRIVEN SYSTEM OF INTELLIGENT HEALTHCARE SYSTEM USING FREQUENCY AMPLITUDE OF ECG SIGNALS WITH MACHINE LEARNING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	sathiya.prasad@yahoo.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

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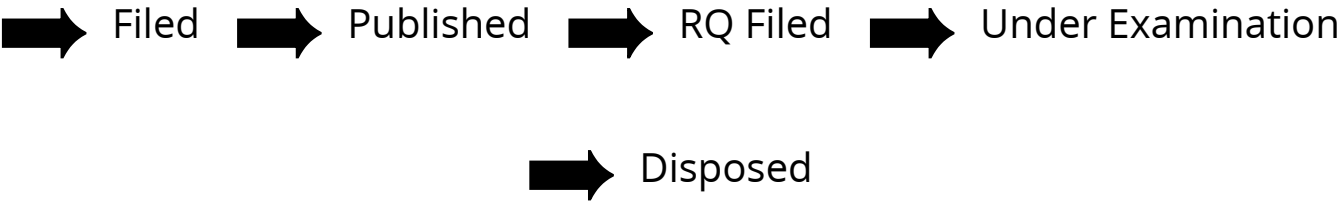
APPLICATION NUMBER	202341010710
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/02/2023
APPLICANT NAME	1 . Ms.M. Gowri, Sathyabama Institute of Science and Technology 2 . Dr. Babu. K, SRM Institute of Science & Technology 3 . Dr.Gomatheeshwari B, Panimalar Engineering College 4 . Dr G Maria Jones, Sathyabama Institute of Science and Technology 5 . Ms.S.Maheswari, Easwari Engineering College 6 . Dr. R. Udendhran, SRM Institute of Science & Technology 7 . Ms.G.kavitha, Sathyabama Institute of Science and Technology 8 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology 9 . Ms.K. Neela, Sri SaiRam Engineering College 10 . Mr.Vijay Ramalingam, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design system of Deep Learning-Based Leaf Disease Detection in Crops Images for Agricultural Applications
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	gowri.cse@sathyabama.ac.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/03/2023

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Application Details

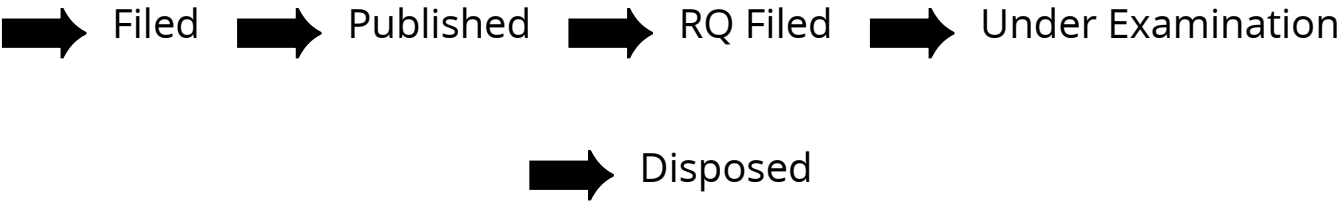
APPLICATION NUMBER	202241070398
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/12/2022
APPLICANT NAME	1 . Mr.B.Sathiyaprasad 2 . Dr.Nancy Noella R S 3 . Ms. Devipriya M 4 . Ms. Lakshmi Priya S 5 . Ms. G. Lavanya 6 . Mrs.Parveen Akhther 7 . Ms. R. Nivedha 8 . Ms. B. Balasaigayathri 9 . Mrs.G. Anbu Selvi 10 . Dr. Sreeji. S
TITLE OF INVENTION	IOT-DRIVEN SYSTEM OF INTELLIGENT HEALTHCARE SYSTEM USING FREQUENCY AMPLITUDE OF ECG SIGNALS WITH MACHINE LEARNING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	sathiya.prasad@yahoo.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

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Application Details

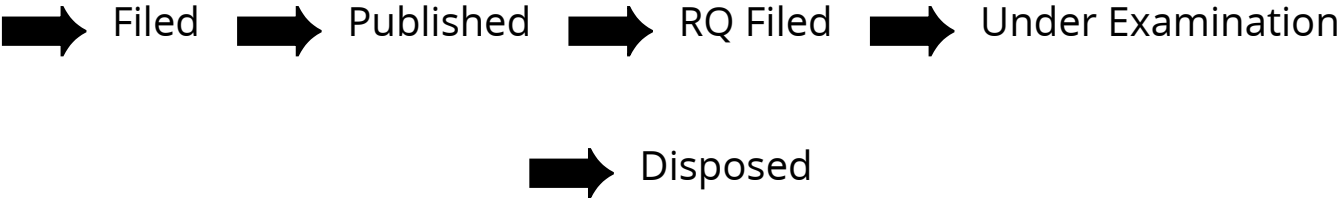
APPLICATION NUMBER	202241077461
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/12/2022
APPLICANT NAME	1 . Mr.K.Babu,SRM Institute of Science and Technology, Kattankulathur 2 . Ms.K. Neela, Sri SaiRam Engineering College,Chennai 3 . Ms.R.Asha, Sathyabama Institute of Science and Technology 4 . Dr.A.Deepa, Sathyabama Institute of Science and Technology 5 . Mrs.Parveen Akhther, Sathyabama Institute of Science and Technology 6 . Mr. Prasanth V.S, Victory Institute of Technology, Thrissur 7 . Ms.M Beula kutti, KCG college of Technology 8 . Ms.Reddy Selvam Mamatha, KCG college of Technology 9 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology 10 . Dr. Sreeji. S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design Intelligent Human Activity Tracking and Monitoring system for eHealth care using IoT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	babuk1@srmist.edu.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/01/2023

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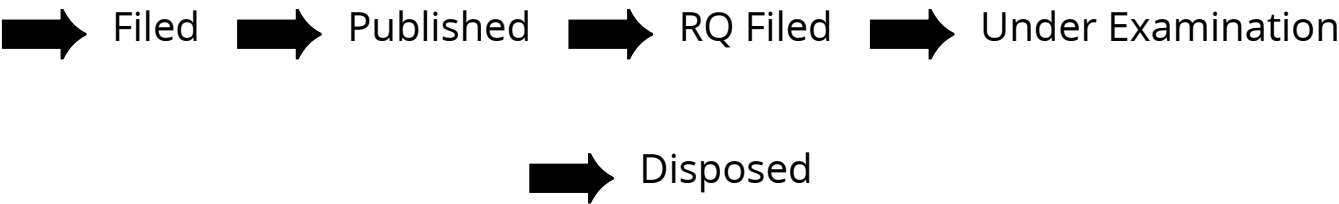
APPLICATION NUMBER	202241065775
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/11/2022
APPLICANT NAME	1 . Ms.R.Asha, Sathyabama Institute of Science and Technology 2 . Dr. J. Jeslin Shanthamalar, Sathyabama Institute of Science and Technology 3 . Dr. Nancy Noella R S, Sathyabama Institute of Science and Technology 4 . Ms. Devipriya M, Sathyabama Institute of Science and Technology 5 . Ms. Lakshmi Priya S, Sathyabama Institute of Science and Technology 6 . Mrs. Nithya S, Sathyabama Institute of Science and Technology 7 . Ms.C.A.Daphine Desona Clemency, Sathyabama Institute of Science and Technology 8 . Mr. K.Babu, Sathyabama Institute of Science and Technology 9 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology 10 . Dr. Sreeji. S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design System for Detecting Blood Leakage during Hemodialysis Using Real-Time Internet of Medical Things
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	ashasekar02@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

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Application Details

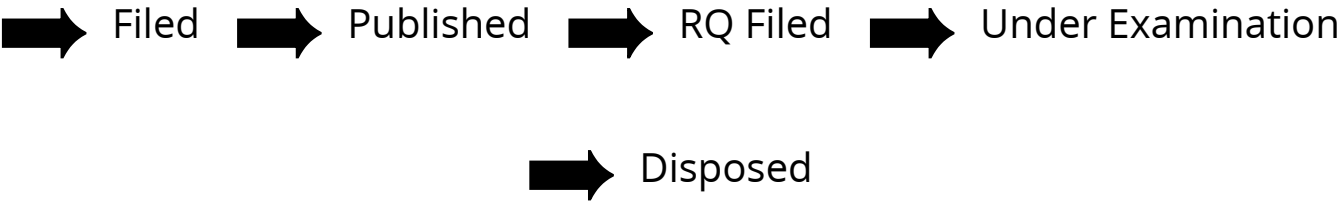
APPLICATION NUMBER	202241061659
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/10/2022
APPLICANT NAME	1 . Mrs.V. Subapriya, Sathyabama Institute of Science & Technology 2 . Mrs.V.Hema,Sathyabama Institute of Science & Technology 3 . Mrs.R.Asha,Sathyabama Institute of Science & Technology 4 . Mr.K.Babu,Sathyabama Institute of Science & Technology 5 . Mrs.V.Dharani,Sathyabama Institute of Science & Technology 6 . Mrs.V.Vaissnave,Sathyabama Institute of Science & Technology 7 . Mrs.D.Menaka, Sathyabama Institute of Science & Technology 8 . Mr.B.Sathiyaprasad, Sathyabama Institute of Science & Technology
TITLE OF INVENTION	Design system of Machine Vision-Based Person Detection Under Low-Illuminance Conditions Using Machine learning for Visual Surveillance System
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	subapriya.cse@sathyabama.ac.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/11/2022

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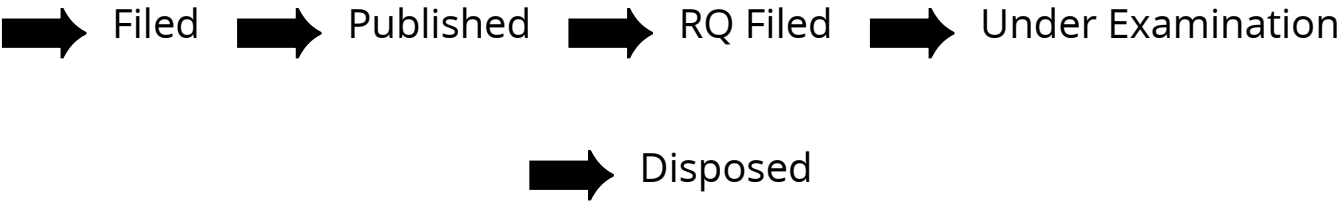
APPLICATION NUMBER	202241043127
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/07/2022
APPLICANT NAME	1 . Mr.Deependra Rastogi, Galgotias University 2 . Dr. Tanvi Gupta, Manav Rachna International Institute of research and studies 3 . Mr. Abhinav Raghav, Chandigarh University 4 . Mr. Soumalya Ghosh, Galgotias University 5 . Dr. Ramarcha Kumar, Galgotias University 6 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology (Deemed to be University)
TITLE OF INVENTION	Design System of Healthcare Services Powered by IoT and Fog Computing for Smart Cities
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	deependra.libra@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/08/2022

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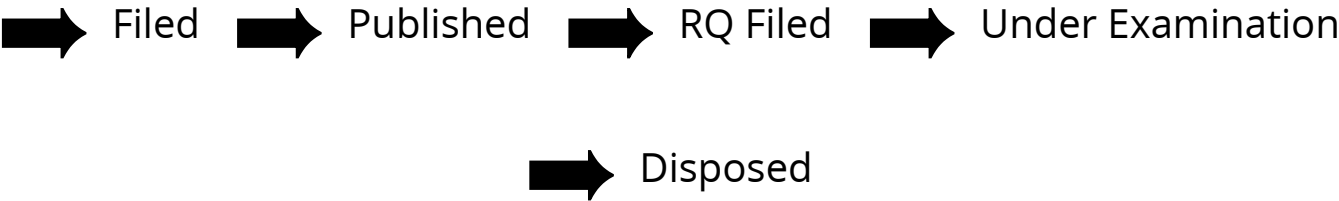
APPLICATION NUMBER	202241046215
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/08/2022
APPLICANT NAME	1 . Dr.Arulprakash.A , Bharath Institute of higher education and Research 2 . Mr.Deependra Rastogi, Galgotias University 3 . Mrs.Aanchal Vij, Galgotias University 4 . Mr.Sathiyaprasad, Sathyabama Institute of Science and Technology (Deemed to be University) 5 . Mr.K. Babu, Sathyabama Institute of Science and Technology (Deemed to be University) 6 . Mr. Tamilselvan.T, Shri Ramasamy Memorial University Sikkim
TITLE OF INVENTION	A Secure block-chain based Medical Internet of Things (MIoT) for Healthcare Data Management
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	prakash875@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/08/2022

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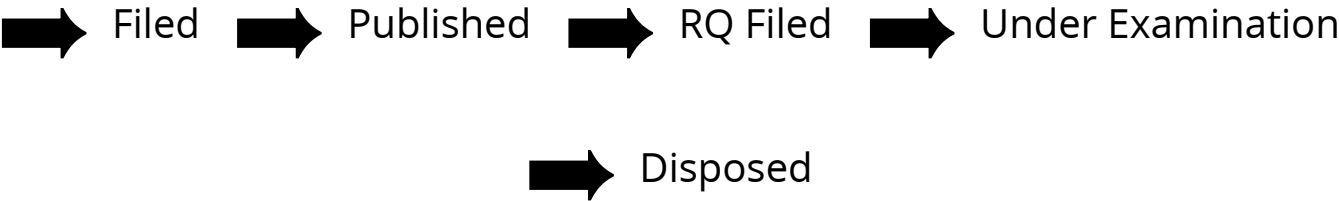
APPLICATION NUMBER	202241040210
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/07/2022
APPLICANT NAME	1 . Dr. S. Albert Antony Raj 2 . Mrs. Subapriya V 3 . Ms. S. Riyazbanu 4 . Ms. Singamaneni Krishnapriya 5 . Dr. R Kanimozhi 6 . Mr. Yasar Masud 7 . Dr. Bramah Hazela 8 . Dr. Girraj Sharma 9 . Dr.R. Indumathy 10 . Dr. D. Kirubakaran
TITLE OF INVENTION	Electronic Virtual Assistant in Banks using Artificial Intelligence
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	mail2patentipr@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/07/2022

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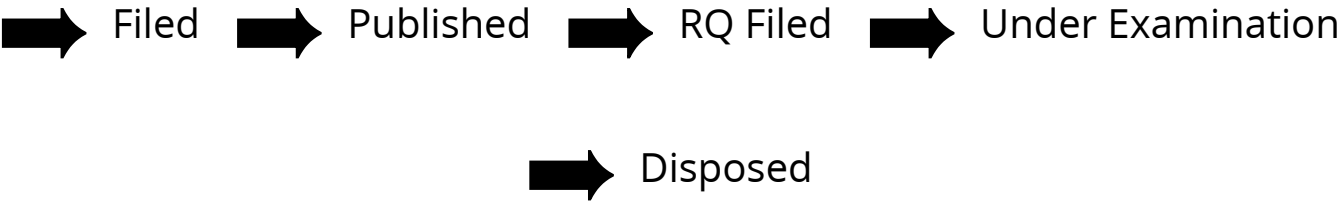
APPLICATION NUMBER	202241061659
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/10/2022
APPLICANT NAME	1 . Mrs.V. Subapriya, Sathyabama Institute of Science & Technology 2 . Mrs.V.Hema,Sathyabama Institute of Science & Technology 3 . Mrs.R.Asha,Sathyabama Institute of Science & Technology 4 . Mr.K.Babu,Sathyabama Institute of Science & Technology 5 . Mrs.V.Dharani,Sathyabama Institute of Science & Technology 6 . Mrs.V.Vaissnave,Sathyabama Institute of Science & Technology 7 . Mrs.D.Menaka, Sathyabama Institute of Science & Technology 8 . Mr.B.Sathiyaprasad, Sathyabama Institute of Science & Technology
TITLE OF INVENTION	Design system of Machine Vision-Based Person Detection Under Low-Illuminance Conditions Using Machine learning for Visual Surveillance System
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	subapriya.cse@sathyabama.ac.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/11/2022

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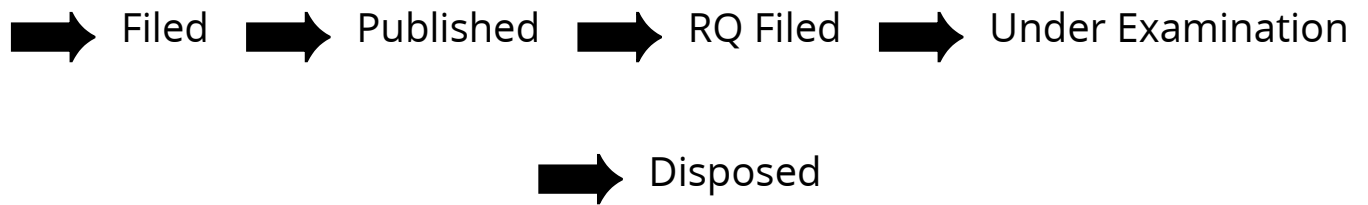
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APPLICATION NUMBER	202241050162
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/09/2022
APPLICANT NAME	1 . DR. V N MANJU 2 . PROF. KRISHNA SOWJANYA K. 3 . PROF. J. DHIVIYA ROSE 4 . PROF S. CRISTALIN NELSON 5 . DR.R.SATHYA BAMA KRISHNA 6 . CMRIT INSTITUTE OF TECHNOLOGY
TITLE OF INVENTION	SMART SURVEILLANCE SYSTEM ON INFRASTRUCTURE BREACH IN INTERIOR RESIDENTIAL METROPOLITANS AREAS
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	manju.vn@cmrit.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/02/2023

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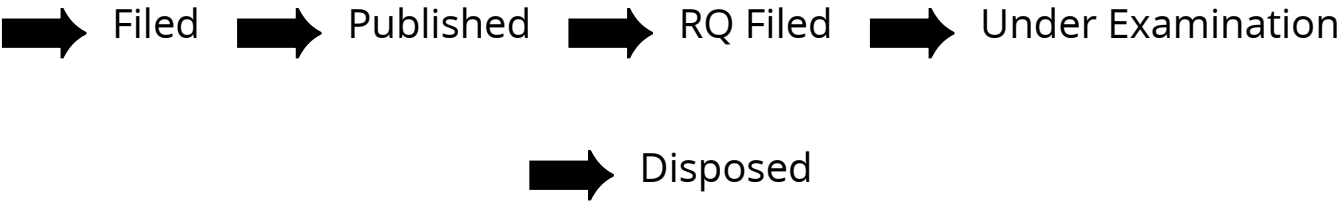
APPLICATION NUMBER	202211039557
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/07/2022
APPLICANT NAME	1 . Dr. Rakhi Mutha 2 . Mr. LIVIN M MIRANDA 3 . Dr. MICHAEL RAJ TF 4 . Mr. Yash Dhankar 5 . Dr. Bhawna Kaliraman 6 . Dr. PARLI B. HARI 7 . Ms. Monika 8 . Mrs. A. Ancy micheal 9 . Ms.A.Annie Micheal 10 . Dr K Prakash 11 . Ms. RashmiVerma 12 . Mr.J Logeshwaran
TITLE OF INVENTION	IDENTIFICATION AND MITIGATION OF ATTACKS IN WIRELESS SENSOR NETWORK USING TRUST BASED BLOCKCHIN MECHANISM
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	arinnapatent@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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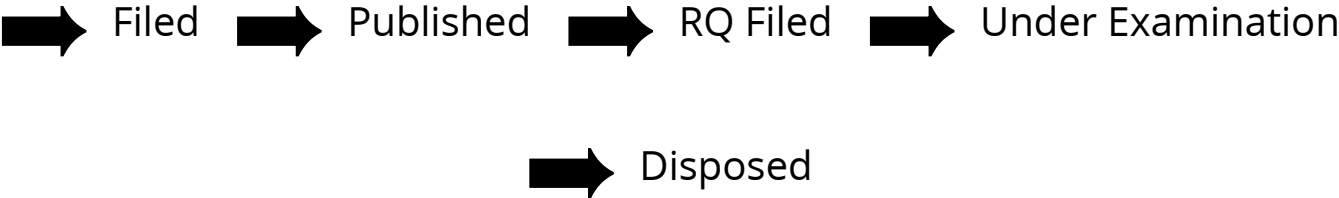
APPLICATION NUMBER	202241077461
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/12/2022
APPLICANT NAME	1 . Mr.K.Babu,SRM Institute of Science and Technology, Kattankulathur 2 . Ms.K. Neela, Sri SaiRam Engineering College,Chennai 3 . Ms.R.Asha, Sathyabama Institute of Science and Technology 4 . Dr.A.Deepa, Sathyabama Institute of Science and Technology 5 . Mrs.Parveen Akhther, Sathyabama Institute of Science and Technology 6 . Mr. Prasanth V.S, Victory Institute of Technology, Thrissur 7 . Ms.M Beula kutti, KCG college of Technology 8 . Ms.Reddy Selvam Mamatha, KCG college of Technology 9 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology 10 . Dr. Sreeji. S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design Intelligent Human Activity Tracking and Monitoring system for eHealth care using IoT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	babuk1@srmist.edu.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/01/2023

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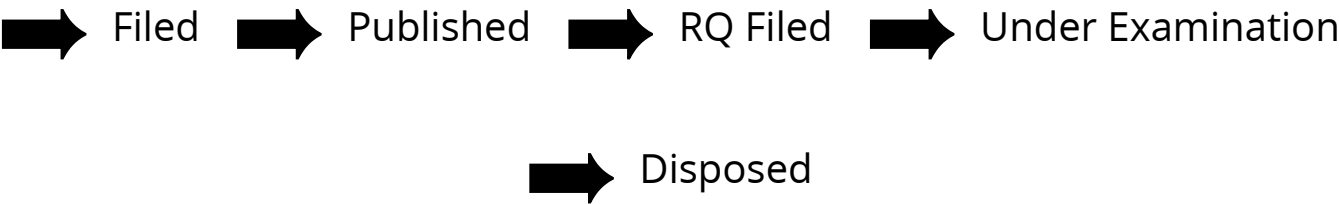
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APPLICATION NUMBER	202241065775
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/11/2022
APPLICANT NAME	1 . Ms.R.Asha, Sathyabama Institute of Science and Technology 2 . Dr. J. Jeslin Shanthamalar, Sathyabama Institute of Science and Technology 3 . Dr. Nancy Noella R S, Sathyabama Institute of Science and Technology 4 . Ms. Devipriya M, Sathyabama Institute of Science and Technology 5 . Ms. Lakshmi Priya S, Sathyabama Institute of Science and Technology 6 . Mrs. Nithya S, Sathyabama Institute of Science and Technology 7 . Ms.C.A.Daphine Desona Clemency, Sathyabama Institute of Science and Technology 8 . Mr. K.Babu, Sathyabama Institute of Science and Technology 9 . Mr. B. Sathiyaprasad, Sathyabama Institute of Science and Technology 10 . Dr. Sreeji. S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	Design System for Detecting Blood Leakage during Hemodialysis Using Real-Time Internet of Medical Things
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	ashasekar02@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

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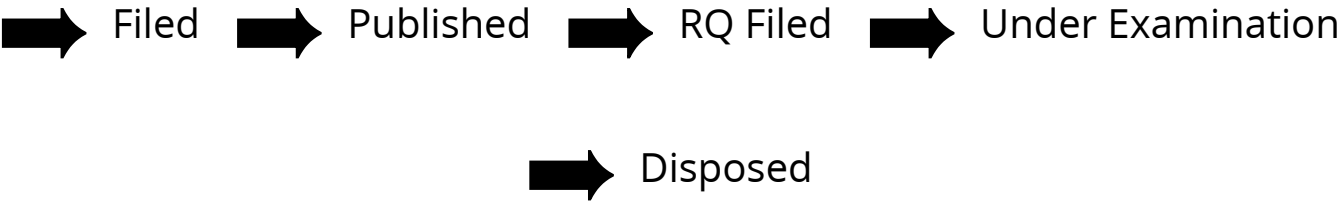
APPLICATION NUMBER	202241070398
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/12/2022
APPLICANT NAME	1 . Mr.B.Sathiyaprasad 2 . Dr.Nancy Noella R S 3 . Ms. Devipriya M 4 . Ms. Lakshmi Priya S 5 . Ms. G. Lavanya 6 . Mrs.Parveen Akhther 7 . Ms. R. Nivedha 8 . Ms. B. Balasaigayathri 9 . Mrs.G. Anbu Selvi 10 . Dr. Sreeji. S
TITLE OF INVENTION	IOT-DRIVEN SYSTEM OF INTELLIGENT HEALTHCARE SYSTEM USING FREQUENCY AMPLITUDE OF ECG SIGNALS WITH MACHINE LEARNING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	sathiya.prasad@yahoo.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

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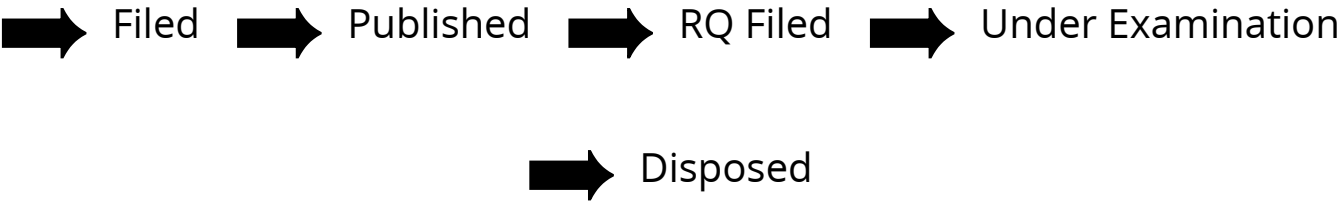
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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/12/2022
APPLICANT NAME	1 . Mr.B.Sathiyaprasad 2 . Dr.Nancy Noella R S 3 . Ms. Devipriya M 4 . Ms. Lakshmi Priya S 5 . Ms. G. Lavanya 6 . Mrs.Parveen Akhther 7 . Ms. R. Nivedha 8 . Ms. B. Balasaigayathri 9 . Mrs.G. Anbu Selvi 10 . Dr. Sreeji. S
TITLE OF INVENTION	IOT-DRIVEN SYSTEM OF INTELLIGENT HEALTHCARE SYSTEM USING FREQUENCY AMPLITUDE OF ECG SIGNALS WITH MACHINE LEARNING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	sathiya.prasad@yahoo.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

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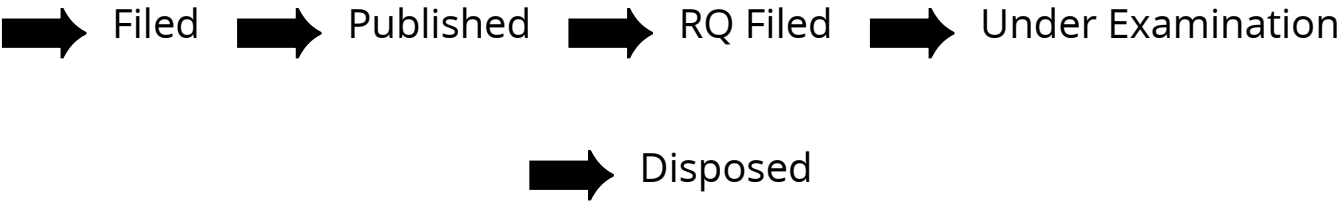
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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/10/2022
APPLICANT NAME	1 . Dr.M.Kumaresan, Jain (Deemed-to-be University) 2 . Mrs.Swati Verma, R. Mangalam World School 3 . Mr.R.Vignesh, Sathyabama Institute of Science and Technology 4 . Mrs.D.Deepa, Sathyabama Institute of Science and Technology 5 . Mrs.D Jennifer, Panimalar Engineering College 6 . Mr.Murali E, Sathyabama Institute of Science and Technology 7 . Mrs.Priyanka Rastogi, K.C.M. SCHOOL 8 . Dr.Rasmi.A, R R Institute of Technology 9 . Dr.G Maria Jones, Sathyabama Institute of Science and Technology 10 . Dr.Sreeji.S, Sathyabama Institute of Science and Technology
TITLE OF INVENTION	DESIGN SYSTEM OF IoT-DRIVEN LEAF INFECTION WITH SOIL PROPERTY PREDICTION BY USING DEEP LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	phdkumaresan@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	21/10/2022

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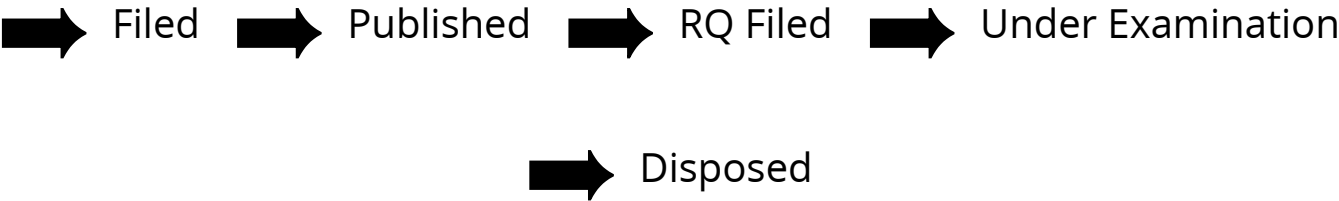
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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/12/2022
APPLICANT NAME	1 . Mr.B.Sathiyaprasad 2 . Dr.Nancy Noella R S 3 . Ms. Devipriya M 4 . Ms. Lakshmi Priya S 5 . Ms. G. Lavanya 6 . Mrs.Parveen Akhther 7 . Ms. R. Nivedha 8 . Ms. B. Balasaigayathri 9 . Mrs.G. Anbu Selvi 10 . Dr. Sreeji. S
TITLE OF INVENTION	IOT-DRIVEN SYSTEM OF INTELLIGENT HEALTHCARE SYSTEM USING FREQUENCY AMPLITUDE OF ECG SIGNALS WITH MACHINE LEARNING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	sathiya.prasad@yahoo.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

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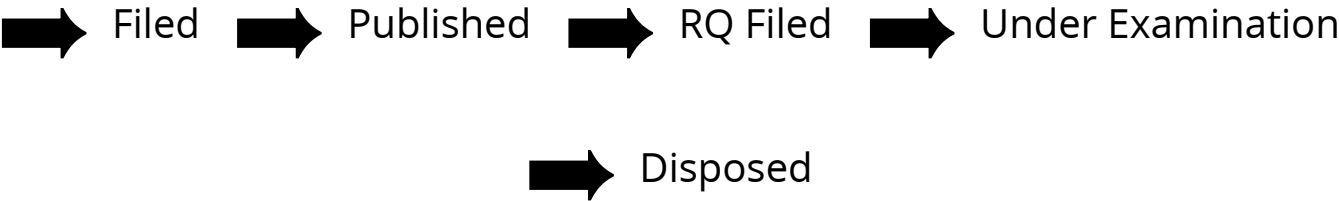
APPLICATION NUMBER	202241062460
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/11/2022
APPLICANT NAME	1 . Dr. B. Gopal 2 . Dr. Surakasi Raviteja 3 . Prof. Mangesh Mahajan 4 . Dr. S. Mahendran 5 . Mrs. G. Anbuselvi 6 . Ms. V. Keerthana Sri 7 . Mr. M. Sudhakar
TITLE OF INVENTION	A MULTIFUNCTIONAL FOLDABLE SOLAR PHOTOVOLTAIC ASSEMBLY WITH IOT CONNECTIVITY AND METHOD THEREOF
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	bgopal49@yahoo.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/11/2022

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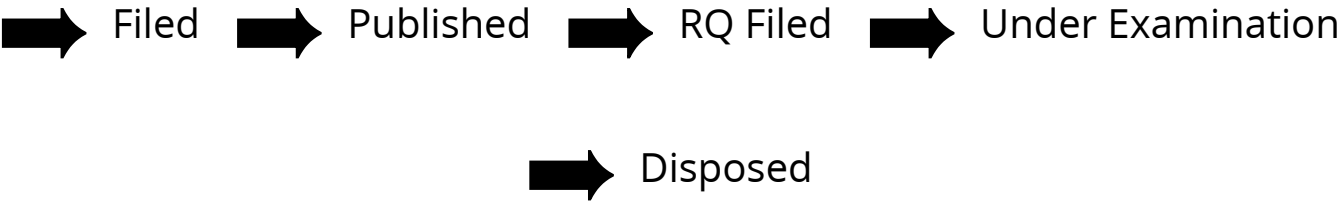
APPLICATION NUMBER	202241055994
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/09/2022
APPLICANT NAME	1 . Dr.S.Vijayalakshmi 2 . Dr. Archana B 3 . Prof Yashaswini Gowda N 4 . Dr. ANJANEYA L.H. 5 . Dr.JAYARAMAN VENKATESH 6 . Mr.Joel T 7 . Smt. Smitha S Kamble 8 . Dr.Veena K 9 . Dr.K. Manikandan 10 . Dr.G. Narayanan
TITLE OF INVENTION	AN IOT AND WIRELESS BASED AUTONOMOUS FIREFIGHTING DRONE THROUGH MACHINE LEARNING
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/10/2022

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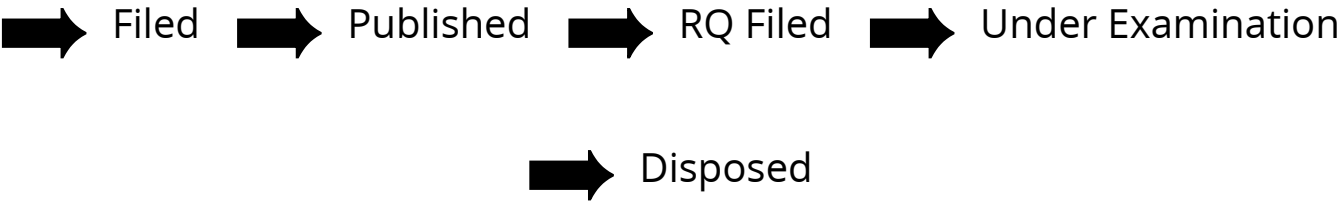
APPLICATION NUMBER	202241076371
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/12/2022
APPLICANT NAME	1 . Dr.Gopirajan PV 2 . Dr.M.Jayaprakash 3 . Mr. Mohammad Wasim 4 . Mrs.Deepa 5 . DR.S.Jayasankari 6 . Mrs.B.Vishnu Prabha 7 . Dr.Seethi Reddy Reddisekhar Reddy 8 . Dr .Veena K 9 . Mr.Pradeep G 10 . Mr. Anjani Kumar
TITLE OF INVENTION	A system for human resource management using artificial intelligence and robotics
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
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PUBLICATION DATE (U/S 11A)	06/01/2023

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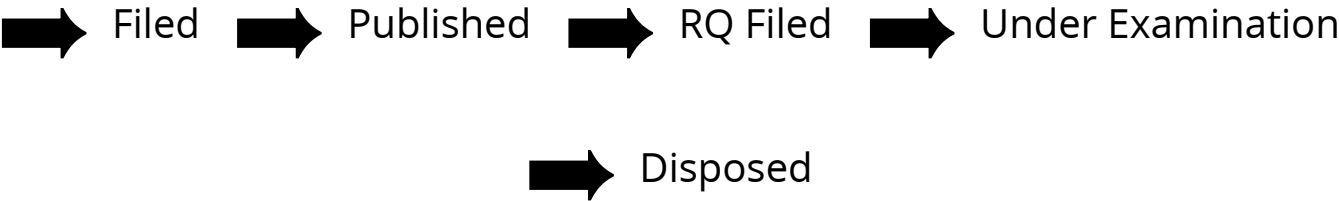
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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/09/2022
APPLICANT NAME	1 . Dr. G. M. KarpuraDheepan 2 . Dr. B. U. AnuBarathi 3 . Mr. K. Babu 4 . Mr. Amandeep Singh K 5 . Mr. G. Muthugurunathan 6 . Dr. S. Rajashree 7 . Dr. M. NafeesMuneera 8 . Dr. A. Jemshia Miriam 9 . Mrs. Suja Cherukullapurath Mana 10 . Dr. N. S.Usha
TITLE OF INVENTION	ARTIFICIAL NEURAL NETWORK BASED SYSTEM FOR PREDICTING CHILD MENTAL STRESS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	karpuradheepan.cse@sathyabama.ac.in
ADDITIONAL-EMAIL (As Per Record)	nskdtris@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/10/2022

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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	367890-001
तारीख / Date	:	18/07/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **GARMENT STEAMER** से संबंधित है, का पंजीकरण, श्रेणी **07-05** में 1.Dr S Vigneshwari 2. Dr J Refonaa 3.Dr S L Jany Shabu 4.Ms G Tejaswini के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

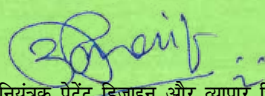
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **07-05** in respect of the application of such design to **GARMENT STEAMER** in the name of 1.Dr S Vigneshwari 2. Dr J Refonaa 3.Dr S L Jany Shabu 4.Ms G Tejaswini.

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

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

INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 12/01/2023


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

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



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102752

The Commissioner of Patents has granted the above patent on 23 June 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

INTEGRATED INTELLIGENCE RESOURCE AND SECURITY MANAGEMENT SYSTEM FOR CLOUD DATA CENTERS

Name of inventor(s):

Janani, A. P.; S, Arjun.; G.S, Prasanna Lakshmi.; Subhashini, R.; Sudha, N.; Usha, D.; Kavitha, K.; Gomathy Nayagam, M.; Thangakrishnan, M. Suresh and Rathika, A.

Term of Patent:

Eight years from 21 May 2021



Dated this 23rd day of June 2021

Commissioner of Patents

PATENTS ACT 1990

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/07/2022

(21) Application No.202241037940 A

(43) Publication Date : 08/07/2022

(54) Title of the invention : SMART ASSISTANT DEVICE FOR BLIND PEOPLE USING RASPBERRY PI

(51) International classification :G06K0009000000, G06K0009200000, A61F0009080000, A61K0036730000, G09B0021000000
(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 :

SMART ASSISTANT DEVICE FOR BLIND PEOPLE USING RASPBERRY PI Accordingly, embodiments herein disclose a smart assistant device for blind people using Raspberry Pi, comprising of: a Raspberry Pi; a camera attached to the Raspberry Pi through a USB port to capture images of an object. The images are captured by the Raspberry Pi and camera modules that are connected to it. The device may include a tesseraact optical character recognition (OCR) system analysing the images to automatically recognize the text from the images. The image's text is subsequently localized and converted to text in.txt format. Further, the device may include an ultrasonic sensor connected to the Raspberry Pi through GPIO pins for calculating a distance between the blind people and objects. When the distance is less than 50 cm the blind people gets the buzzer indication such that the distance is played through ear phones connected to audio jack. Figure to be published with Abstract: Figure 1

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

(54) Title of the invention : AN IOT BASED INTEGRATED HEALTH MONITORING SYSTEM OF BULK MILK COOLER

(51) International classification :H04L0029080000, G05B0023020000, G01D0021020000, F25D0031000000, A23L0003280000 (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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPP1AAR NAGAR, CHENNAI-600119,TAM1LNADU, INDIA ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.A.SIVASANGARI Address of Applicant :Associate Professor, Dept of IT, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Chennai-119 ----- 2)Dr.P.AJITHA Address of Applicant :Associate Professor, Dept of IT, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Chennai-119 ----- 3)Dr.S. POONGUZHALI Address of Applicant :Asst Professor, Dept of ECE Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Chennai-119 ----- 4)Mrs.E. BRUMANCIA Address of Applicant :Asst Professor,Dept of IT, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Chennai-119 -----
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(57) Abstract :

The present invention relates to an IoT based integrated health monitoring system of bulk milk cooler comprising milk temperature sensor, proximity sensor, volume sensor, compressor on/off sensor, humidity sensor, inlet temperature sensor, outlet temperature sensor and an IoT module. The present invention senses the pH of the milk storage tank, a digital temperature sensor which is free from frequent external calibration and accuracy, agitator rpm monitoring which is used to access the health of agitator in BMC. The health of the compressor is maintained at 4°C. Based on Cloud server/webpage based analytics software as well as mobile phone based software for live health monitoring, the agents/dairy plant supervisor can take quick decision to recover the health of BMC, by mobilizing manpower/service engineer, so that the quality of milk can be maintained at collection/storage centre level.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036044 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : AUTOMATED ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS INTEGRATED SYSTEM FOR FINDING QUALITY AND ADULTERATION OF MILK

(51) International classification	:G16H0050200000, G01N0033180000, C02F0001000000, G01N0015100000, G01N0033040000	(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR.A.SIVASANGARI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI-600119, TAMILNADU, INDIA. ----- 2)DR.P.AJITHA Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI-600119. ----- 3)DR.POONZHULALI Address of Applicant :ASST PROFESSOR, DEPT OF ECE, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI-600119, TAMILNADU, INDIA. ----- 4)DR.R.M.GOMATHI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI-600119, TAMILNADU, INDIA. ----- 5)DR.SENDURU SRINIVASULU Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI-600119, TAMILNADU, INDIA. -----
(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 :

ABSTRACT AUTOMATED ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS INTEGRATED SYSTEM
Accordingly, embodiments herein disclose automated- artificial intelligence (AI) and Internet of Things (IoT) integrated system for finding quality and adulteration of milk, comprising of: a pH sensor for determination and monitoring of pH, and catalysing metabolic reactions of pH; and a conductivity sensor for determination of impurities present in the milk. The conductivity sensor is to measure the ability of a solution to conduct an electric current between the electrodes. The system may include a microscopic camera configured to perform an image analysis for manual or automatic somatic cell counting or bacterial colony counting or mapping / analysis based on image with or without using suitable chemical reagents; and a Raspberry pi which is received inputs from the pH sensor, conductivity sensor and microscopic camera images. The Raspberry pi analyses and classifies the milk content and finally shows the results on a LCD screen and on an application.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036045 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : SMART WEARABLE BAND FOR PATIENTS HEALTH MONITORING SYSTEM

(51) International classification :A61B0005000000, A61B0005020500, A61B0005010000, A61B0005021000, A61B0005053000
(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 :PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY -----

(57) Abstract :

ABSTRACT SMART WEARABLE BAND FOR PATIENTS HEALTH MONITORING SYSTEM Accordingly, embodiments herein disclose smart wearable band for patients health monitoring system, comprising of: a plurality of sensors for monitoring oxygen, blood pressure, temperature, ECG and emotions of the patient; a server which is received input data from the plurality of sensors for easy monitoring by doctor from a remote area, and a LED screen which is configured to show the received data from the plurality of sensors. The smart wearable band is mounted on a hand of the patient while the galvanic skin response sensors are attached to the fingers. When the patients may raise an emergency warning (SOS), the alarm is triggered whenever body temperature is Higher than the threshold value.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2022

(21) Application No.202241036046 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : WEARABLE EPILEPSY SEIZURE DETECTION DEVICE

(51) International classification :A61B0005000000, A61B0005047600, A61B0005040000, A61B0005048000, A61B0005110000 (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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR.A.SIVASANGARI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY ----- 2)MS.SINDU DIVAKARAN Address of Applicant :ASSOT PROFESSOR, DEPT OF BIOMEDICAL, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. ----- 3)DR.GRACE PRINCE KANMANI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF BIOMEDICAL, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY ----- 4)DR.S.GOWRI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----
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(57) Abstract :

ABSTRACT WEARABLE EPILEPSY SEIZURE DETECTION DEVICE Accordingly, embodiments herein disclose wearable epilepsy seizure detection device, comprising of: a plurality of electrodes placed on a scalp which would be connected to a miniaturized signal processing device. The signal processing device detects the seizure with higher true positive rate compared to traditional process. The device may include a means for EEG signal for early detection of epileptic seizures. The marked variation in the EEG signal is observed, prior to the occurrence or during or after the occurrence of the seizure such that the variation in the patterns can be used for detecting the seizure accurately. Further, the device may include a post amplifier used to enhance further signals. The analog EEG signal is converted to digital signals using Analog to Digital converter such that the digital EEG signals are sent to a processor which would process the data and classify it into normal or epileptic form.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2022

(21) Application No.202241036043 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : MICRO-ELECTRO-MECHANICAL SYSTEM BASED WEARABLE SENSORS FOR MONITORING GAIT OF ELDER PEOPLE

(51) International classification	:A61B0005000000, A61B0005010000, H04W0004900000, A61B0005110000, A61B0005020500	(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)DR.A.SIVASANGARI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, CHENNAI-600119. -----
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(87) International Publication No	: NA	3)DR.V.NIRMAL RANI Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, JEPPIAAR NAGAR, CHENNAI-600119. -----
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT MICRO-ELECTRO-MECHANICAL SYSTEM BASED WEARABLE SENSOR FOR MONITORING GAIT OF ELDER PEOPLE Accordingly, embodiments herein disclose a micro-electro-mechanical system (MEMS) based wearable sensor for monitoring gait of elder people, comprising of: a plurality of sensors for measuring body temperature, blood pressure, heartbeat, pulse, and ECG etc; and Android mobile app. for receiving the measured data from the plurality of sensors through Bluetooth/Wi-Fi communication. The present invention may include a GPS receiver determining a user's position, velocity and precise time (PVT) by processing a signal broadcasted by GPS satellites. When the user is in emergency condition a GSM module is sent to doctor and pre-set contacts. The GPS receiver keeps determining a value and refers with the temporary storage of latitude and longitude values, when the receiver value changes with the temporary storage of latitude and longitude values.

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

FORM 2
THE PATENT ACT 1970 &
The Patents Rules, 2003
COMPLETE SPECIFICATION
(See section 10 and rule 13)

TITLE OF THE INVENTION:

**A DRONE AUTHENTICATION APPROACH USING DEEP NEURAL NETWORKS AND
FEDERATED LEARNING**

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036008 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : THREE-DIMENSIONAL CONSTRUCTION METHOD FOR TRACTOGRAPHY AND HUMAN ANATOMICAL STRUCTURE WITH SKULL VAULT IN MODEL PRINTING

(51) International classification	:G01F0001740000, G06T0007120000, A61B0006030000, E21B0043120000, G01R0033563000	(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119,TAMILNADU, INDIA ----- Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No	: NA	2)Dr. R. SUBHASHINI Address of Applicant :Professor, Department of Information Technology, School of Computing, Sathyabama Institute of Science and Technology, Jeepiar Nagar, Chennai-600119 ----- -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Accordingly, embodiments herein disclose a three-dimensional (3D) construction method for tractography and human anatomical structure with skull vault in model printing, comprising the steps of: segmenting an out layer of skull vault in all slices; applying constraint energy minimization (CEM) to increase the contrast intensity to differentiate background of the slices; and detecting the out layer in each and individual slice using a three-dimensional (3D) gradient vector flow (GVF). The 3D GVF is applied to each slice therefore the 3D of the skull vault is generated. The user is allowed to choose the slices in which feels the contour of the tumor is distinct. The 3D GVF initialization is done in the selected slices such that based on the initialization the 3D GVF starts to converge in every slice. The 3D GVF is applied to the segmented region.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036008 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : THREE-DIMENSIONAL CONSTRUCTION METHOD FOR TRACTOGRAPHY AND HUMAN ANATOMICAL STRUCTURE WITH SKULL VAULT IN MODEL PRINTING

(51) International classification :G01F0001740000, G06T0007120000, A61B0006030000, E21B0043120000, G01R0033563000 (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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119,TAMILNADU, INDIA ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. M. MALINI DEEPIKA Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, School of Computing, Sathyabama Institute of Science and Technology, Jeepiar Nagar, Chennai-600119 ----- 2)Dr. R. SUBHASHINI Address of Applicant :Professor, Department of Information Technology, School of Computing, Sathyabama Institute of Science and Technology, Jeepiar Nagar, Chennai-600119 ----- -----
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(57) Abstract :

Accordingly, embodiments herein disclose a three-dimensional (3D) construction method for tractography and human anatomical structure with skull vault in model printing, comprising the steps of: segmenting an out layer of skull vault in all slices; applying constraint energy minimization (CEM) to increase the contrast intensity to differentiate background of the slices; and detecting the out layer in each and individual slice using a three-dimensional (3D) gradient vector flow (GVF). The 3D GVF is applied to each slice therefore the 3D of the skull vault is generated. The user is allowed to choose the slices in which feels the contour of the tumor is distinct. The 3D GVF initialization is done in the selected slices such that based on the initialization the 3D GVF starts to converge in every slice. The 3D GVF is applied to the segmented region.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2022

(21) Application No.202241036010 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : WI-FI ENVIRONMENT MONITORING SYSTEM USING INTERNET OF THINGS

(51) International classification :H04L0029080000, G01D0021020000, H04W0084120000, G08B0021180000, G08B0021200000
(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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR.R.SUBHASHINI

Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF INFORMATION TECHNOLOGY, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

2)DR.Y BEVISH JINILA

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

3)DR.JEBERSON RETNARAJ

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

4)DR.MARY GLADENCE

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

(57) Abstract :

ABSTRACT WI-FI ENVIRONMENT MONITORING SYSTEM USING INTERNET OF THINGS Accordingly, embodiments herein disclose a Wi-Fi environment monitoring system using Internet of Things (IoT), comprising of: a plurality of sensors for measuring air temperature, air humidity, light intensity, soil moisture etc; Internet of Things (IOT) used for reading input data from the plurality of sensor and analysing the received input data graphically; and Arduino Uno and Wi-Fi module used for uploading the data to a ThingSpeak platform. The Arduino Uno fetches the data from the plurality of sensors and processes the data and sends the data to the Wi-Fi module. The system may include a LED which is configured to display the measured data from the plurality of sensors.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036011 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : METHOD FOR RECOGNITION OF AMERICAN SING LANGUAGE

(51) International classification :G06N0003040000, G06N0003080000, G06K0009620000, G06K0009000000, G06T0003400000

(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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MOHAMMED NIHAL KHAN

Address of Applicant :DEPARTMENT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

2)SHILP GOHIL

Address of Applicant :DEPARTMENT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

3)DR.R.SUBHASHINI

Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF INFORMATION TECHNOLOGY, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

4)DR.T. SASIPRABA

Address of Applicant :DEAN, SCHOOL OF COMPUTING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

(57) Abstract :

ABSTRACT METHOD FOR RECOGNITION OF AMERICAN SIGN LANGUAGE Accordingly, embodiments herein disclose a method for recognition of American Sign Language (ASL). comprising the steps of: collecting images of hand signs represent various words in a bundle; and annotating the images to highlight various labels. More than 200 images are in a dataset and corresponding to more than seven labels. The method may involve training a convolution neural network (CNN) model after the images are fed to a feed-forward network; conducting evaluations of more than 5000 epochs in the CNN model; and performing detections after evaluation, and testing the CNN model. Therefore, the CNN model provides the accuracy of 90-99%.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2022

(21) Application No.202241036012 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : METHOD FOR AUTOMATED IDENTIFICATION OF FISH SPECIES

(51) International classification :G06N0003040000, G06N0003080000, G06K0009620000, G06K0009000000, G06T0007110000
(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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119, TAMILNADU, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MOHAMMED NIHAL KHAN

Address of Applicant :DEPARTMENT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

2)SHILP GOHIL

Address of Applicant :DEPARTMENT OF IT, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

3)DR.R.SUBHASHINI

Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF INFORMATION TECHNOLOGY, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

4)DR.P.JEYANTHI

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY. -----

(57) Abstract :

ABSTRACT METHOD FOR AUTOMATED IDENTIFICATION OF FISH SPECIES Accordingly, embodiments herein disclose a method for automated identification of fish species, comprising the steps of: collecting and classifying images of different species into different folders; annotating the images using an annotation tool and generating labels for different species in xml format. The images are split into train and test folders. Further, the method may involve feeding convolution neural network (CNN) model such that the CNN model is to choose MOBILE_NET.V2__320X320. The dataset fed to the CNN model goes through pre-processing and is ready to be trained. In addition, the method may involve training the CNN model over 8000 epochs/Iterations after taking the dataset as the input; and executing the CNN model once the training is done.

No. of Pages : 8 No. of Claims : 5



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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

क्रमांक : 044151589
SL No :



भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 426506
आवेदन सं. / Application No. : 201641032335
फाइल करने की तारीख / Date of Filing : 22/09/2016
पेटेंटी / Patentee : 1.R.M. JOANY 2.Susai Rajendran 3.R.Dorothy 4.E.Loga
Shanmugam

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित NANO-BLUE PIGMENT FROM WASTE IRON ROD-WEALTH FROM WASTE नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2016 के बाईसवें 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 NANO-BLUE PIGMENT FROM WASTE IRON ROD-WEALTH FROM WASTE as disclosed in the above mentioned application for the term of 20 years from the 22nd day of September 2016 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 23/03/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2018 के बाईसवें 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 22nd day of September 2018 and on the same day in every year thereafter.



ORIGINAL

मूल/No : 136846



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THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 381736-001
तारीख / Date : 17/03/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **HEATING JACKET FOR CERVICAL AND BACK PAIN MANAGEMENT** से संबंधित है, का पंजीकरण, श्रेणी 02-02 में 1.Dr.L.Megalan Leo 2. Dr. V. Vedanarayanan 3.Dr.T.Bernatin 4.Ms.T.Gomathi 5.Dr.A.Aranganathan 6.Dr. E. Rajinikanth के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

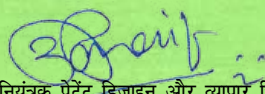
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 02-02 in respect of the application of such design to **HEATING JACKET FOR CERVICAL AND BACK PAIN MANAGEMENT** in the name of 1.Dr.L.Megalan Leo 2. Dr. V. Vedanarayanan 3.Dr.T.Bernatin 4.Ms.T.Gomathi 5.Dr.A.Aranganathan 6.Dr. E. Rajinikanth.

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

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

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निर्गमन की तारीख/Date of Issue : 23/05/2023


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.



ORIGINAL

मूल/No : 138042



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

डिजाइन सं. / Design No. : 382112-001
तारीख / Date : 22/03/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MACHINE LEARNING BASED STRESS DETECTION DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 10-05 में 1.Dr. S. Hemajothi 2. Ms. R Sakthi Prabha 3.Dr. V.W.J. Anand 4.Mr. V.Kalist 5.Dr. A. Veeramuthu 6.Dr.R. Thandaiah Prabu के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

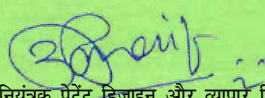
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-05 in respect of the application of such design to **MACHINE LEARNING BASED STRESS DETECTION DEVICE** in the name of 1.Dr. S. Hemajothi 2. Ms. R Sakthi Prabha 3.Dr. V.W.J. Anand 4.Mr. V.Kalist 5.Dr. A. Veeramuthu 6.Dr.R. Thandaiah Prabu.

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

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

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निर्गमन की तारीख/Date of Issue : 25/05/2023


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.



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सत्यमेव जयते

क्रमांक : 044153381
SL No :



भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 431354
आवेदन सं. / Application No. : 201641037331
फाइल करने की तारीख / Date of Filing : 01/11/2016
पेटेंटी / Patentee : SATHYABAMA UNIVERSITY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **AN AUTOMATIC SYSTEM FOR TREATMENT AND RECYCLING OF WATER FOR TRAIN COMPARTMENT WASH BASINS** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2016 के पहले 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 AN AUTOMATIC SYSTEM FOR TREATMENT AND RECYCLING OF WATER FOR TRAIN COMPARTMENT WASH BASINS as disclosed in the above mentioned application for the term of 20 years from the 1st day of November 2016 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 09/05/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2018 के पहले 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 1st day of November 2018 and on the same day in every year thereafter.



PATENTS / DESIGNS / TRADE MARKS
GEOGRAPHICAL INDICATIONS

GOVERNMENT OF INDIA
PATENT OFFICE

INTELLECTUAL PROPERTY BUILDING

CP-2, Sector-V, Saltlake City, Kolkata-700091

Tel No. (091)(033) 2367 1943/9101 Fax No. 033 23671988
(091)(033) 2367 1944

E-mail : controllerdesign.ipo@nic.in
Web Site : www.ipindia.nic.in

No. 353507-001/D/TKP /BG

Dated the :20/12/2021

To

Bharathi M.L., Assistant Professor, Dept: Electrical
And Electronics Engineering, Sathyabama Institute of
Science and Technology, Rajiv Gandhi Road,
Solingalur, Chennai - 600117

SUB : First Examination Report

REF :- Design Application No.353507-001

NAME OF APPLICANT :- Bharathi M.L

Subsequent to examination of above mentioned design application under Section 5(1) of the Design Act, 2000, the following objections as appended in this letter are raised by this Office and are being sent to you under Rule 18(1). The following documents are enclosed herewith for amendment and the same should be returned to this office together with your observations, which you may like to submit in response to the said objections. Superseded documents, if any, should also be returned to this office after cancellation over your signature.

As prescribed under Rule 18(1), the period for removal of the appended objection(s) shall not exceed the time period of six months from the date of filing of the application, which shall expire on Date 22/05/2022 for the instant application. The said period may be extended for a further period not exceeding three months on a request made in Form-18 along with fees specified in the First Schedule before the expiry of the above mentioned stipulated time period of six months from the date of filing of the application. If your response to this communication is not received at this office on or before the aforementioned stipulated Date 22/05/2022 (or on or before the extended period if any), the instant application shall be deemed to be abandoned under Section 5(5) read with Rule 21.

Bhaskar Ghosh

(Bhaskar Ghosh)
[Electronically generated]
Controller of Designs

Encl:-

1. Objection Sheet
2. Application for Grant of Design
3. Representation sheet

NOTE: This is an electronically generated report along with the gist of objections. All Communications to be sent to the Controller of Designs at the above address.



26 NOV 2021

210039

Bouddhik Sampade Bhawan

Center V, Salt Lake City, Kolkata

FORM 1

[THE DESIGNS ACT, 2000]

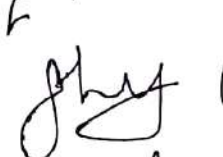
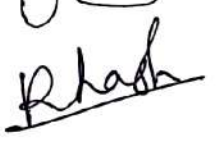
APPLICATION FOR REGISTRATION OF DESIGNS (See sections 5 and 44)

(For Fee see First Schedule)	You are requested to register the accompanying in Class No.13-
^A Insert number of class	EQUIPMENT FOR PRODUCTION, DISTRIBUTION OR
^B Insert (in full) address and nationality	TRANSFORMATION OF ELECTRICITY Subclass No.03 - EQUIPMENT
	FOR DISTRIBUTION OR CONTROL OF ELECTRIC POWER
	in the name of
	B.
	1. Bharathi M.L., Assistant Professor, Dept: Electrical And Electronics
	Engineering, Sathyabama Institute Of Science And Technology, Rajiv Gandhi
	Road, Solinganallur, Chennai- 600117
	2. G.Jegan, Associate Professor, Dept: Electronics And Communication
	Engineering, Sathyabama Institute Of Science And Technology, Rajiv Gandhi
	Road, Solinganallur, Chennai- 600117
	3. I.Rexiline Sheeba, Assistant Professor, Dept: Electronics And Communication
	Engineering, Sathyabama Institute Of Science And Technology, Rajiv Gandhi
	Road, Solinganallur, Chennai- 600117
	4. M. R. Ebenezer Jebarani, Associate Professor
	Dept: Electronics And Communication Engineering, Sathyabama Institute Of
	Science And Technology, Rajiv Gandhi Road, Solinganallur, Chennai- 600117
	5. V.Senthil Nayagam, Assistant Professor, Dept: Electrical And Electronics
	Engineering, Sathyabama Institute Of Science And Technology, Rajiv Gandhi
	Road, Solinganallur, Chennai- 600117
	who claim(s) to be the proprietor(s) thereof.
	Natural Person (✓) Start-up () Small Entity ()
	Others () ^{B1}
^C State whether drawings, photographs, tracings or specimens.	Four exactly similar ^C drawings of the design accompany this request.
^D Insert name of article or articles to which the design is to be applied or state trade description of each of the articles contained in the set	The design is to be applied to ^D "BUS BAR POWER TERMINAL FOR TERMINATING HEAVY DUTY CABLE"

353507-001
(As per 1001)
22/11/2021

353507-001

22 NOV 2021

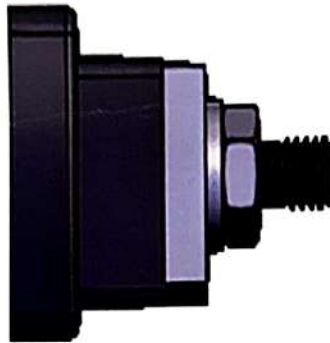
E Strike out these words if previous registration has been effected.	E The design has been previously registered in class(es)..... under No..... Details of first application in a convention country or group of countries or inter-governmental organisation: i. Name of the country/inter-governmental organization.... ii. Date of filing..... iii. Application number..... iv. Name of the applicant
F Unless an address for service in India is given, the request may not be considered.	F Address for service in India Is" Bharathi M.L ,Assistant Professor,Dept: Electrical And Electronics Engineering,Sathyabama Institute Of Science And Technology, Rajiv Gandhi Road, Solinganallur, Chennai- 600117 " Phone No: ,Email: bharathiml15@gmail.com
	Declaration: The applicant claims to be the proprietor(s) of the design and that
G To be signed by the applicant or by authorized agent.	to the best of his knowledge and belief the design is new or original. Dated this 5th Day of Oct 2021 (Signed)^G  (Bharathi M.L.)  (G. Jegan)  (Rexiline Steeb) M. R. Ebenezer Jebarani (M. R. Ebenezer Jebarani) V. Senthilnathan (V. Senthilnathan)

353507-001
22 NOV 2021

TO THE CONTROLLER OF
DESIGNS, THE PATENT
OFFICE KOLKATA

Name of the Applicant (s)
Bharathi M.L
G.Jegan
I.Rexiline Sheeba
M. R. Ebenezer Jebarani
V.Senthil Nayagam

Number of Sheets: 07
Sheet Number: 01



FRONT VIEW

The novelty resides in the shape and configuration of the "BUS BAR POWER TERMINAL FOR TERMINATING HEAVY DUTY CABLE" as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the article.

No claim is made by virtue of this registration in respect of any right to the colour or colour combination as appearing in the representation.

Date: Oct 10th 2021

Signature of the Applicant(s)

Bharathi M.L
G.Jegan
I.Rexiline Sheeba

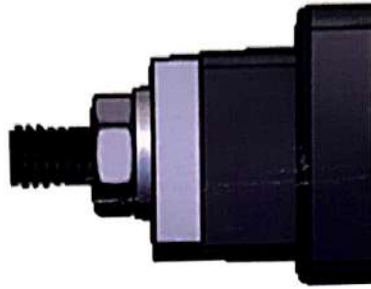
353507-001

22 NOV 2021

M.R. Ebenezer Jebarani
(M.R. Ebenezer Jebarani)
V. Senthil Nayagam

Name of the Applicant (s)
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V.Senthil Nayagam

Number of Sheets: 07
Sheet Number: 02



BACK VIEW

The novelty resides in the shape and configuration of the "BUS BAR POWER TERMINAL FOR TERMINATING HEAVY DUTY CABLE" as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the article.

No claim is made by virtue of this registration in respect of any right to the colour or colour combination as appearing in the representation.

Date: Oct 10th 2021

Signature of the Applicant(s)

Bharathi M.L
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353507-001

22 NOV 2021

M.R. Ebenezar Jebarani
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M. R. Ebenezer Jebarani
V.Senthil Nayagam

Number
of Sheets:
07
Sheet
Number:
03



TOP VIEW

The novelty resides in the shape and configuration of the "BUS BAR POWER TERMINAL FOR TERMINATING HEAVY DUTY CABLE" as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the article.

No claim is made by virtue of this registration in respect of any right to the colour or colour combination as appearing in the representation.

Date: Oct 10th 2021

Signature of the Applicant(s)

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V.Senthil Nayagam
(V.Senthil Nayagam)

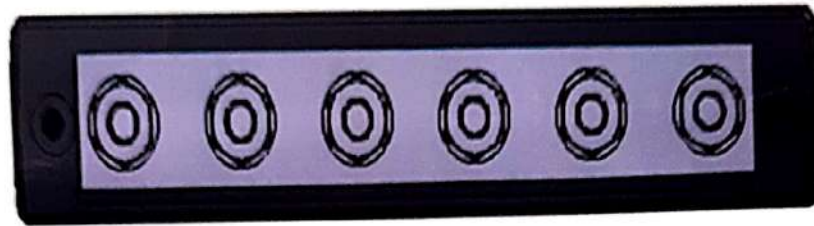
353507 - 001

22 NOV 2021

Name of the Applicant(s):

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M. R. Ebenezar Jebarani
V.Senthil Nayagam

**Number
of
Sheets:
07
Sheet
Number
: 04**



BOTTOM VIEW

The novelty resides in the shape and configuration of the "BUS BAR POWER TERMINAL FOR TERMINATING HEAVY DUTY CABLE" as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the article.

No claim is made by virtue of this registration in respect of any right to the colour or colour combination as appearing in the representation.

Date: Oct. 10th 2021

Signature of the Applicant(s)

(Handwritten signatures)
Bharathi M.L.
G.Jegan
I.Rexiline Sheeba

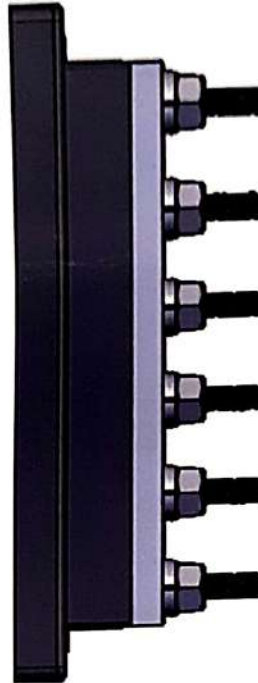
353507-001

22 NOV 2021

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Name of the Applicant(s):
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V.Senthil Nayagam

Number of
Sheets: 07
Sheet Number:
05



LEFT SIDE VIEW

The novelty resides in the shape and configuration of the "BUS BAR POWER TERMINAL FOR TERMINATING HEAVY DUTY CABLE" as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the article.

No claim is made by virtue of this registration in respect of any right to the colour or colour combination as appearing in the representation.

Date: Oct 10th 2021

Signature of the Applicant(s)

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I.Rexiline Sheeba

353507-001

22 NOV 2021

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V.Senthil Nayagam

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M. R. Ebenezer Jebarani
V.Senthil Nayagam

Number of Sheets: 07
Sheet Number: 06



RIGHT SIDE VIEW

The novelty resides in the shape and configuration of the "BUS BAR POWER TERMINAL FOR TERMINATING HEAVY DUTY CABLE" as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the article.

No claim is made by virtue of this registration in respect of any right to the colour or colour combination as appearing in the representation.

Date: Oct 10th 2021

Signature of the Applicant(s)

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M.R. Ebenezer Jebarani
V.Senthil Nayagam

353507-001

22 NOV 2021

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V.Senthil Nayagam

Number of Sheets: 07

Sheet Number: 07



TOP PERSPECTIVE VIEW

The novelty resides in the shape and configuration of the "BUS BAR POWER TERMINAL FOR TERMINATING HEAVY DUTY CABLE" as illustrated.

No claim is made by virtue of this registration in respect of any mechanical or other action of any mechanism whatever or in respect of any mode or principle of construction of the article.

No claim is made by virtue of this registration in respect of any right to the colour or colour combination as appearing in the representation.

Date : Oct 10th 2021

Signature of the Applicant(s)

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353507 -001

22 NOV 2021

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(M.R. Ebenezer Jebarani)
V. Senthil Nayagam

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241061019 A

(19) INDIA

(22) Date of filing of Application :26/10/2022

(43) Publication Date : 18/11/2022

(54) Title of the invention : BLOCKCHAIN BASED METHOD FOR REDUCING VEHICLE POLLUTANT EMISSIONS

(51) International classification :H04L0009060000, H04L0009320000, G06Q0020380000, G06Q0040040000, G09G0003200000

(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.Anna Devi

4)Dr.S. SHIBU

5)Dr.Shaik Jakeer

6)Mr.D Jeyakumar

7)Mr.S J Vivekanandan

8)Dr.M. Gayathri

Name of Applicant : NA

Address of Applicant : NA

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Address of Applicant :Assistant Professor Computing Technologies SRM Institute of Science and Technologies, Kattankulathur, Chennai -----

(57) Abstract :

ABSTRACT BLOCKCHAIN BASED METHOD FOR REDUCING VEHICLE POLLUTANT EMISSIONS The present disclosure relates to a method for reducing vehicle pollution. It discloses a block chain based method for reducing vehicle pollutant emissions. It is method run in one or more processors, operations for reducing pollutant emission using a blockchain network are performed, wherein the operations include: generating a transaction for storing at least a portion of data obtained from a measurement device installed in a user's portable object in a blockchain network; inducing a plurality of nodes in the blockchain network to record the transaction in a block on the basis of a co-ordinate; and As a result, employing a blockchain network reduces pollutant output

No. of Pages : 13 No. of Claims : 3



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



Application Details

APPLICATION NUMBER	202241048824
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/08/2022
APPLICANT NAME	1 . Dr.R.NARMADHA 2 . Dr. A.SAHAYA ANSELIN NISHA 3 . Dr.V BALAMURUGAN 4 . Dr. V. VEDANARAYANAN
TITLE OF INVENTION	NEXT GENERATION SYSTEM ON CHIP (SOC) WITH IIOT SUITABLE FOR 5G NETWORK
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	nitprabhume@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	02/09/2022



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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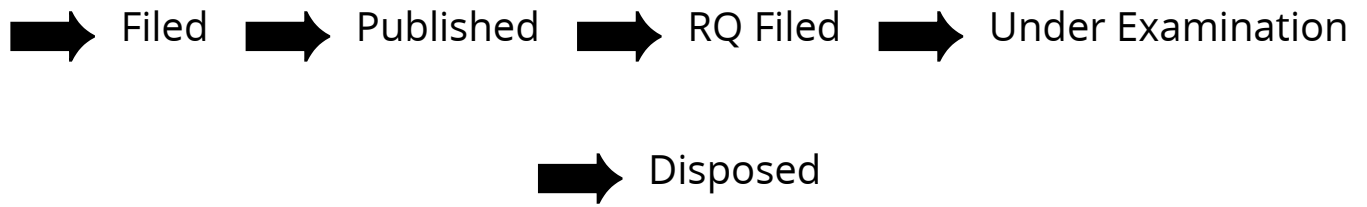
Application Details

APPLICATION NUMBER	202241047505
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/08/2022
APPLICANT NAME	1 . Dr. A.SAHAYA ANSELIN NISHA 2 . Dr.R.NARMADHA 3 . Dr.T.THAJ MARY DELSY 4 . Mrs. R SAKTHI PRABHA
TITLE OF INVENTION	NOVEL DEVICE FOR DIAGNOSING,MONITORING & HEALING FOR BRAIN DISEASES
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	nitprabhume@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	26/08/2022

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/01/2023

(21) Application No.202341003891 A

(43) Publication Date : 03/02/2023

(54) Title of the invention : BLUEPRINT OF GREEN SUSTAINABLE AND CLEAN RENEWABLE ENERGY

(51) International classification :H02J0003380000, G06Q0010060000, G06Q0050260000, G06Q0010100000, C08G0018480000
(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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3)Dr. Ahalya N

4)Dr. Amit Kumar Marwah

5)Dr. D. Arunkumar

6)Dr. Moti Lal Rinawa

Name of Applicant : NA

Address of Applicant : NA

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(57) Abstract :

The deployment of renewable energy sources in India is intended to boost economic development, energy security, and energy access, and mitigate the effects of climate change. Utilization of renewable energy sources and provision of inhabitants with energy that is low-cost, reliable, environmentally friendly, and technologically advanced are necessary components of achieving sustainable development. Because of its robust government support and rapidly expanding economy, India is quickly becoming one of the most attractive markets in the world for renewable energy. In order to entice foreign investment in the renewable energy sector, the government has established legislation, started projects, and made the environment more accommodating. In the next years, it is anticipated that renewable energy will provide a significant amount of jobs. This paper contains accomplishments, projections, forecasts, power output, difficulties, investment potential, and employment potential connected to the development of renewable energy in India. This analysis analyses challenges facing the renewables industry. The recommendations that have been made as a result of this assessment will be helpful to policymakers, innovators, project developers, investors, industries, stakeholders, researchers, and scientists.

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

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Patent Search

Invention Title	IoT & Radio Frequency Identification technique Based Personal Healthcare
Publication Number	01/2022
Publication Date	07/01/2022
Publication Type	INA
Application Number	202141061250
Application Filing Date	28/12/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04L0029080000, G06Q0050220000, G08B0025010000, H04W0004380000, G06K0007000000

Inventor

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Dr.A.Aranganathan	Associate Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc
Mrs.T Gomathi	Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc
Mrs.Poonguzhali S	Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc
Mr.Megalan Leo.L	Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc
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Dr.A.Aranganathan	Associate Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc
Mrs.T Gomathi	Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc
Mrs.Poonguzhali S	Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc
Mr.Megalan Leo.L	Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc
Mrs.A.Sabarivani	Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu, India	Inc

Abstract:

IoT & Radio Frequency Identification technique Based Personal Healthcare Abstract: The IoT paradigm, which includes sensors (environmental, wearable, and strategically placed in people's homes, has the potential to accelerate the transition from traditional medicine to participatory medicine by allowing remote assistance needed. Sensors for low-cost, energy-efficient, and disposable RFID tags are now available for use in the development for personal healthcare. These sensors are used in intelligent environments. This survey highlights the most recent advancements in RFID technology that can be used in body-centered systems and to obtain information about environment (such as temperature and humidity) (RFID). Finally, we'll discuss some of the field's unanswered questions as well as new research ideas.

Complete Specification**Claims:CLAIMS**

1. IoT & Radio Frequency Identification technique Based Personal Healthcare Consist of RFID, antenna, tags, implanted, receiver, algorithms, etc.,
2. IoT & Radio Frequency Identification technique Based Personal Healthcare of claim 1, wherein said that the next generation of cellular networks must be
3. IoT & Radio Frequency Identification technique Based Personal Healthcare of claim 1, wherein said Universities worldwide are now researching and developing sensors.
4. IoT & Radio Frequency Identification technique Based Personal Healthcare of claim 1, wherein said the proposed system is more accurate.
5. IoT & Radio Frequency Identification technique Based Personal Healthcare of claim 1, wherein said that we analyzed and discussed various aspects.
6. IoT & Radio Frequency Identification technique Based Personal Healthcare of claim 1, wherein said that it is an intelligent computational model
7. IoT & Radio Frequency Identification technique Based Personal Healthcare of claim 1, wherein said that the proposed system can be modified.
8. IoT & Radio Frequency Identification technique Based Personal Healthcare of claim 1, wherein said that this research looks at all of the important and recent work has been done so far as well as its limitations and challenges

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[Contact Us \(http://ipindia.gov.in/contact-us.htm\)](http://ipindia.gov.in/contact-us.htm) [Help \(http://ipindia.gov.in/help.htm\)](http://ipindia.gov.in/help.htm)

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Page last updated on: 26/06/2019

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036044 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : AUTOMATED ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS INTEGRATED SYSTEM FOR FINDING QUALITY AND ADULTERATION OF MILK

(51) International classification :G16H0050200000, G01N0033180000, C02F0001000000, G01N0015100000, G01N0033040000

(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 AUTOMATED ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS INTEGRATED SYSTEM

Accordingly, embodiments herein disclose automated- artificial intelligence (AI) and Internet of Things (IoT) integrated system for finding quality and adulteration of milk, comprising of: a pH sensor for determination and monitoring of pH, and catalysing metabolic reactions of pH; and a conductivity sensor for determination of impurities present in the milk. The conductivity sensor is to measure the ability of a solution to conduct an electric current between the electrodes. The system may include a microscopic camera configured to perform an image analysis for manual or automatic somatic cell counting or bacterial colony counting or mapping / analysis based on image with or without using suitable chemical reagents; and a Raspberry pi which is received inputs from the pH sensor, conductivity sensor and microscopic camera images. The Raspberry pi analyses and classifies the milk content and finally shows the results on a LCD screen and on an application.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241071422 A

(19) INDIA

(22) Date of filing of Application :11/12/2022

(43) Publication Date : 19/05/2023

(54) Title of the invention : DIAGNOSTIC TOOL FOR EARLY DIAGNOSIS OF ARTHRITIS

(51) International classification :A61B0006000000, G16H0050200000, A61B0005000000, G06T0007000000, G16H0030200000 (86) International Application No :PCT// / Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to :NA Application Number :NA Filing Date (62) Divisional to :NA Application Number :NA Filing Date	(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN- 600119 Tamil Nadu, India Chennai ----- -- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.M.SUBRAMONIAM Address of Applicant :Department of ECE Sathyabama Institute of Science and Technology, Chennai, PIN- 600119 Chennai ----- 2)Dr.S.POORNAPUSHPAKALA Address of Applicant :Department of ECE Sathyabama Institute of Science and Technology , Chennai, PIN- 600119,Tamil Nadu, India Chennai ----- 3)Dr.S.BARANI Address of Applicant :Department of ECE Sathyabama Institute of Science and Technology, Chennai, PIN- 600119, Tamil Nadu, India Chennai -----
--	---

(57) Abstract :

DIAGNOSTIC TOOL FOR EARLY DIAGNOSIS OF ARTHRITIS Accordingly, embodiments herein disclose a diagnostic tool for early diagnosis of arthritis comprising of a x-ray machine configured to provide different intensity of x-rays for image acquisition; and a plurality of accelerometers configured to place seven knee positions to acquire vibroarthrographic (VAG) signal. The plurality of accelerometers is placed over the specially designed cuff which supports to place the plurality of accelerometers over the knees and is interfaced to STM32F429 ARM based board. The acquired VAG signals are subjected to Recurrence Quantification Analysis (RQA) such that the RQ analysis is done with the aid of a training model developed using of VAG signal features. The diagnostic results of this diagnostic tool are based on the inference made over the analysis of digital x-ray images from the x-ray machine and the vibroarthrographic (VAG) signals from the plurality of accelerometers. Figure to be published with Abstract: Figure 1

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/04/2023

(21) Application No.202341026490 A

(43) Publication Date : 05/05/2023

(54) Title of the invention : AUTOMATIC OIL FILLING DEVICE FOR TEMPLE DIYAS

(51) International classification :B60K 150300, B67C 032200, B67C 032400, B67C 032600, B67D 070400
(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 is an automatic oil filling device for temple diyas: comprises of a sensor to identify the oil level in the diya (1), a control switch which will on/off the servo motor connected with oil tank (2). The sensor to identify the oil level in the diya (1) and which is the control switch which will on/off the servo motor connected with oil tank (2).

No. of Pages : 6 No. of Claims : 1

FORM 1 THE PATENTS ACT 1970 (39 of 1970) & The Patents rules, 2003 APPLICATION FOR GRANT OF PATENT [See section 7, 54 & 135 and rule 20 (1)]	(FOR OFFICE USE ONLY) Application No: Filing Date: Amount of Fee Paid: CBR No: Signature:																
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)																	
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category] <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td colspan="2">Ordinary (✓)</td> <td colspan="2">Convention ()</td> <td colspan="2">PCT-NP ()</td> </tr> <tr> <td>Divisional ()</td> <td>Patent of Addition ()</td> <td>Divisional ()</td> <td>Patent of Addition ()</td> <td>Divisional ()</td> <td>Patent of Addition ()</td> </tr> </table>		Ordinary (✓)		Convention ()		PCT-NP ()		Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()				
Ordinary (✓)		Convention ()		PCT-NP ()													
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()												
3. (3A) APPLICANT <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 30%;">Name</th> <th style="width: 10%;">Nationality</th> <th style="width: 10%;">Country of Residence</th> <th style="width: 50%;">Address</th> </tr> <tr> <td style="text-align: center;">Dr. K. V. Karthikeyan</td> <td style="text-align: center;">Indian</td> <td style="text-align: center;">India</td> <td>Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai. Pin: 600119, District: Kanchipuram State: Tamilnadu, Country: India.</td> </tr> <tr> <td style="text-align: center;">Dr. S. Sugumaran</td> <td style="text-align: center;">Indian</td> <td style="text-align: center;">India</td> <td>Associate Professor, Department of ECE, Sreenivasa Institute of Technology and Management Studies, Chittoor, Andhra Pradesh Pin: 517127 District: Chittoor State: Andhra Pradesh, Country: India.</td> </tr> <tr> <td style="text-align: center;">Ms. K. Geetha</td> <td style="text-align: center;">Indian</td> <td style="text-align: center;">India</td> <td>Assistant professor Department of ECE, Karpaga Vinayaga College of Engineering and Technology, GST Road, Chinnakolambakkam, Padalam, Maduranthagam Taluk Pin : 603308 District - Chengalpattu State - Tamilnadu</td> </tr> </table>		Name	Nationality	Country of Residence	Address	Dr. K. V. Karthikeyan	Indian	India	Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai. Pin: 600119, District: Kanchipuram State: Tamilnadu, Country: India.	Dr. S. Sugumaran	Indian	India	Associate Professor, Department of ECE, Sreenivasa Institute of Technology and Management Studies, Chittoor, Andhra Pradesh Pin: 517127 District: Chittoor State: Andhra Pradesh, Country: India.	Ms. K. Geetha	Indian	India	Assistant professor Department of ECE, Karpaga Vinayaga College of Engineering and Technology, GST Road, Chinnakolambakkam, Padalam, Maduranthagam Taluk Pin : 603308 District - Chengalpattu State - Tamilnadu
Name	Nationality	Country of Residence	Address														
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Dr. S. Sugumaran	Indian	India	Associate Professor, Department of ECE, Sreenivasa Institute of Technology and Management Studies, Chittoor, Andhra Pradesh Pin: 517127 District: Chittoor State: Andhra Pradesh, Country: India.														
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3B. CATEGORY OF APPLICANT [Please tick (√) at the appropriate category]			
Natural Person (√)		Other than Natural Person	
Educational Institute ()	Small Entity ()	Start up ()	Others ()

4. INVENTOR (S) [Please tick (√) at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes (√)		NO ()	
If "No", furnish the details of the inventor(s)					
Name		Nationality	Country of Residence	Address	
5. TITLE OF THE INVENTION					
Low-Cost SCADA System Based on ESP32, Raspberry Pi, Node-Red, and MQTT Protocols					
6. AUTHORISED REGISTERED PATENT AGENT(S)			IN/PA No.		
			Name		
			Mobile No.		
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA Dr. K. V. Karthikeyan Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai. Pin: 600119, District: Kanchipuram, State: Tamilnadu, Country: India.			Telephone No. NA Mobile No. +91- 7010680225 E-mail: kandvas@gmail.com		
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION					
Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)
-NA-	-NA-	-NA-	-NA-	-NA-	-NA-
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)					
International application number			International filing date		
-NA-			-NA-		
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION					

Original (first) application No	Date of filing of original (first) application
-NA-	-NA-
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT	
Main application/patent No.	Date of filing of main application
-NA-	-NA-
12. DECLARATIONS:	
(i) Declaration by inventor (s) (In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period). I/We, the above-named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative. (a) Date: 27/02/2023 (b) Signature: (c) Name:  Dr. K. V. Karthikeyan  Dr. S. Sugumaran  Ms. K. Geetha  Dr. S. Niranjana  Ms. Nandini G. Iyer  Ms. M. Arulmozhi  Mr. S. Sivamurugan	
(ii) Declaration by the applicant(s) in the convention country (In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period) I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative. (a) Date (b) Signature(s) -----NA----- (c) Name(s) of the signatory	

(ii) Declaration by the applicant:

I/We, the applicant hereby declares that:-

- ☐ I am /we are in prosession of the above-mentioned invention
- ☐ The ~~provisional~~/complete specification relating to the invention is filed with this application.
- ☐ ~~The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.~~
- ☐ There is no lawful ground of objection to the grant of the patent to me/us.
- ☐ I am/we are the true & first inventor(s).
- ☐ I am/we are the assignee or legal representative of true & first inventor(s).
- ☐ ~~The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).~~
- ☐ ~~I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.~~
- ☐ ~~My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph 9.~~
- ☐ ~~The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.~~
- ☐ ~~The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.~~

(d) Following are the attachments with the application:

(a) Form 2

Item	Detail	Fee	Remark
Complete specification	No. of pages: 07	1, 600	
No. of Claim(s)	No. of claims: 08 No. of pages: 02		
Abstract	No. of pages: 01		
Drawings	No. of drawings: 0 No. of Pages: 0		

Priority	No. of Priorities:		
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~~In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.~~

(a) ~~Provisioanl specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).~~

(b) ~~Sequence listing in electronic form~~

(c) ~~Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).~~

(d) ~~Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.~~

(e) ~~Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.~~

(f) Statement and Undertaking on Form 3

(g) Declaration of Inventorship on Form 5

Total fee Rs. in Cash/ Banker's Cheque /Bank Draft bearing No.....
date.....on Bank

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

Dated this 27th day of February, 2023


Saurabh Kumar Jain
(IN/PA-3637)
Agent for Applicant

To,
The Controller of Patents
The Patent Office, At Delhi/Mumbai/Chennai/Kolkata, India.



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	202241005482
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/02/2022
APPLICANT NAME	1 . Dr.A.Aranganathan 2 . Mr.Megalan Leo.L 3 . Dr.V.Vedanarayanan 4 . Mrs.Poonguzhali S 5 . Mrs.T Gomathi
TITLE OF INVENTION	A Novel Highly Incorporated MIMO Antenna Unit for Mobile Phone Terminals
FIELD OF INVENTION	ELECTRONICS
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ADDITIONAL-EMAIL (As Per Record)	admin@senanip.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
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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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School of Electrical and Electronics

Department of EEE

Academic Year – 2022 – 2023

3.4.3 Number of Patents published/awarded during the year

3.4.3.1: Total number of Patents published/awarded year wise during the year

Name of the Patenter	Patent Number	Title of the patent	Year of Award of patent	Link to the Document
C.BHUVANE SWARI	202241040121	PORTABLE ELECTROMECHANICAL VENTILATOR	2022	https://drive.google.com/open?id=1eWDFEp2YIzDd98vM0_I_ReaYL6Yh9Acj
KAVITHA M	202141000213	SOIL TESTING USING VISIBLE - INFRARED RADIATION GENERATION AND DETECTION	2022	https://drive.google.com/open?id=1f0Tt0QfuYtqQFkUVDANE8Zbs1n4oPtbr
Godwin Immanuel D	120906	SOLAR POWERED SEA WATER DESALINATION APPARATUS	2022	https://drive.google.com/open?id=1HDO-xTHpgzcVcfGjrVXpdkyi4_IN5Ici
W. Abitha Memala	202241040119	INTERNET OF THINGS BASED SIGNAL PROCESSING TECHNIQUES FOR PREDICTIVE MAINTENANCE AND REMOTE CONDITION MONITORING	2022	https://drive.google.com/open?id=1UVs1Cs4bxJsqjRHd69I7t1uT8swuYyWB
Dr.D.Susitra	IPC:G16H 80/00	Portable Health Care Device	2022	https://drive.google.com/open?id=17lgkVBTNrZCaxldkj46r8a29vioY5SW1
RAMYA.D	366893-001	AI BASED SOLAR POWERED WATER DESALINATION APPARATUS	2022	https://drive.google.com/open?id=1Bf6ljcGrWvqwK_DFhyH_ziqcOHHMg_ZI
M KAVITHA	202241076156	TEXT TO BRAILLE CONVERTING COMMUNICATION DEVICE FOR THE VISUAL AND HEARING-CHALLENGED PERSONS	2022	https://drive.google.com/open?id=1zveBepurj7oK6Y9Z7SUN8e70PIM8bCmf
Dr.S.NIRMAL RAJ	368254-001	Solar Powered Sea Water Desalination Apparatus	2022	https://drive.google.com/open?id=1RnXfbwIsNDscifGhCTlrhwGID_BXa-an
RADHIKA S	202241028353	IoT based Smart Agriculture system to prevent and detect crop status, irrigation, soil preparation, insect and pest detection using WSN technology	2022	https://drive.google.com/file/d/1GX1X9Zw3L0-MODS6pj9uEAS4fc9vLci4/view?usp=sharing



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DOCKET NO:63651

Date/Time : 13/07/2022

To,
C. BHUVANESWARI

Agent Number:

NO. 25C, AALAYAMMAN NAGAR, FIRST STREET, MADIPAKKAM, CHENNAI - 600091.
bhuvaneswarichandraseker@gmail.com

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	27818	ORDINARY APPLICATION	202241040121	PORTABLE ELECTROMECHANICAL VENTILATOR	1750
2		E-2/3120/2022-CHE	202241040121	Form2	0
3		E-3/21246/2022-CHE	202241040121	Form3	0
4		E-5/2711/2022-CHE	202241040121	Form5	0
Total :					1750

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/ Draft Number	Cheque/ Draft Date	Amount in Rs
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Patent Search

Invention Title	SOIL TESTING USING VISIBLE - INFRARED RADIATION GENERATION AND DETECTION	
Publication Number	27/2022	
Publication Date	08/07/2022	
Publication Type	INA	
Application Number	202141000213	
Application Filing Date	04/01/2021	
Priority Number		
Priority Country		
Priority Date		
Field Of Invention	PHYSICS	
Classification (IPC)	G01N0021359000, G01N0021356300, G01N0033240000, A01C0021000000, G01N0021357700	

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Abstract:

SOIL TESTING USING VISIBLE-INFRARED RADIATION GENERATION AND DETECTION ABSTRACT Our population is growing, creating a much bigger need for food, while change and poor soil management has already affected large areas around the world. The techniques and instruments that allow rapid field soil monitoring has to be Generally NIR spectroscopy is used for analyzing soil composition. It provides crucial information on numerous organic and inorganic soil constituents. Near infrared spectroscopy is based on the absorption of electromagnetic (EM) radiation at wavelengths in the range 780 to 2,500 nm. The light interacts with the soil sample which quasi fluid form. This quasi fluid soil is formed by adding demineralized water to it. The detector measures its transmittance and absorbance. Soil samples should be and analyzed for various parameters viz, pH, electrical conductivity (EC), Organic Carbon, available N, P, K, S and micronutrients (Zn, Cu, Fe, Mn& B). Since the infrared following enormous applications in agriculture and in various other fields generation and detection of IR becomes more essential. This proposal aim is in developing IR radiation generator and detector, as the soil test done on laboratory using NIR spectroscopy take much time. This infrared generator can be developed as a handy pr that it can be available to the cultivators / consumers at affordable price.

Complete Specification

First the source visible near infrared light is generated by giving the 5V DC supply to the LED. Here three various LED lights are used as the source. Each LED lights h different wavelength with the range of 400-1500 nm. So the red, blue, green wavelength can absorb the major nutrients nitrogen, phosphorous, potassium, A DC 5V given to the Arduino board through laptop or battery. A coding is written in the microcontroller to control the three LED either ON or OFF. The sample is made by m water the soil. Each mineral in the soil have capability to absorb the light of particular wavelength. When the light passes through the sample, it can absorb some a light and remaining can be reflected. The remaining reflected light can be absorbed by the LDR. The LDR can convert the reflected light into the voltage. But the out is in the form of analog voltage. So the analog voltage is converted in to digital voltage by using the ADC (Analog to digital converter). The digital output send to the microcontroller. The LCD display can display the output voltage which is connected to the microcontroller. This procedure can be repeated for *n* number of sampl

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THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

ORIGINAL

मूल/No : 120906



डिजाइन सं. / Design No.	:	368254-001
तारीख / Date	:	25/07/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SOLAR POWERED SEA WATER DESALINATION APPARATUS** से संबंधित है, का पंजीकरण, श्रेणी 23-01 में 1.Dr A Santhi Mary Antony 2. Dr D Godwin Immanuel 3.Dr S.D Sundarsingh Jebaseelan 4.Dr S Nirmalraj 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 23-01 in respect of the application of such design to **SOLAR POWERED SEA WATER DESALINATION APPARATUS** in the name of 1.Dr A Santhi Mary Antony 2. Dr D Godwin Immanuel 3.Dr S.D Sundarsingh Jebaseelan 4.Dr S Nirmalraj.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्वधीन प्रावधानों के अनुसार 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 : 22/12/2022

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पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का वास्वाविशर पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निर्वाधने के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकता है। इस प्रमाण पत्र पर उपरोक्त विवरण वर्तमान में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

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INTELLECTUAL PROPERTY BUILDING

G.S.T. Road, Guindy, Chennai-600032

Tel No. (091)(044) 22502081-84 Fax No. 044 22502066

E-mail : Chennai-patent@nic.in

Web Site : www.ipindia.gov.in



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GOVERNMENT OF INDIA



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PROPERTY INDIA

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GEOGRAPHICAL INDICATIONS

CHALLAN : TR-5

DOCKET NO:63650

Date/Time : 13/07/2022

To,

Agent Number:

W. ABITHA MEMALA

197, 9TH CROSS STREET, 2ND MAIN ROAD, KAMARAJ NAGAR, PERUNGUDI, CHENNAI, TAMIL NADU, INDIA

600 096. wabithamemala@gmail.com

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	27817	ORDINARY APPLICATION	202241040119	INTERNET OF THINGS BASED SIGNAL PROCESSING TECHNIQUES FOR PREDICTIVE MAINTENANCE AND REMOTE	1750
2		E-2/3119/2022-CHE	202241040119	Form2	0
3		E-3/21245/2022-CHE	202241040119	Form3	0
4		E-5/2710/2022-CHE	202241040119	Form5	0
Total :					1750

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash	---	---	---	1750

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— Bundesrepublik Deutschland —

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 682

Bezeichnung:

Tragbares Gerät zur Gesundheitsvorsorge

IPC:

G16H 80/00

Inhaberin/Inhaber:

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, Chennai, Tamil Nadu, IN

Susitra, Dhanaraj, Dr., Chennai, Tamil Nadu, IN

Tag der Anmeldung:

01.07.2022

Tag der Eintragung:

28.09.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

Cornelia Rudloff-Schäffer

München, 28.09.2022



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Den aktuellen Rechtsstand und Schutzbereich entnehmen Sie bitte dem DPW-Register unter www.dpma.de



LETTER OF APPRECIATION

Date: -Nov 16, 2022.

To,

Dr. SUSITRA DHANARAJ

Sathyabama Institute of Science and Technology,
Jeppiaar Nagar, Rajiv Gandhi Salai,
Chennai - 600 119, Tamilnadu, INDIA.

Subject: International IP -Granted Certificate-Reg

Dear Sir/Madam,

Congratulations on receiving your International IP Certificate.

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With Application Number: 20 2022 103 682

I'm sure it was worth it all, knowing that your achievement will positively impact your career path.

Best wishes for your continued success. We look forward to future projects with you.

Regards,

Fareena

Fareena.A.
Director,
HumCen Global Pvt.Ltd.





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ORIGINAL

No. 117533

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THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 366893-001
Date 28/06/2022 16:51:10
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 23-01 in respect of the application of such design to AI BASED SOLAR POWERED SEA WATER DESALINATION APPARATUS in the name of 1.MRS. RAMYA.D, ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, TAMILNADU 600119 2. DR. R.MEENAKSHI, PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CHENNAI INSTITUTE OF TECHNOLOGY, SARATHY NAGAR, PUDUPEDU VILLAGE KUNDRATHUR SRIPERUMBUDUR, MAIN, ROAD, KUNDRATHUR, CHENNAI, TAMIL NADU 600069 3. DR. MITALI CHUGH, ASSISTANT PROFESSOR SG, CYBERNETICS CLUSTER, SCHOOL OF COMPUTER SCIENCE, UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN, UTTARAKHAND 248001 4. DR. PRIYANKA SONI, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & IT, JRN RAJASTHAN VIDYAPEETH (DEEMED-TO-BE-UNIVERSITY), UDAIPUR, RAJASTHAN 313001

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

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SAURABH KUMAR JAIN,
SENANIP, F-440, DELTA-1, GREATER NOIDA, UP
201310 INDIA.

Date of Issue 17/10/2022 12:55:20



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CHALLAN : TR-5

DOCKET NO:126683

Date/Time : 28/12/2022

To,

DR. M. KAVITHA

Agent Number:

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, RAJIV GANDHI SALAI, CHENNAI - 600119,
TAMILNADU, INDIA. kaveem@gmail.com

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	53144	ORDINARY APPLICATION	202241076156	TEXT TO BRAILLE CONVERTING COMMUNICATION DEVICE FOR THE VISUAL AND HEARING-CHALLENGED PERSONS	1750
2		E-2/5583/2022-CHE	202241076156	Form2	0
3		E-3/40569/2022-CHE	202241076156	Form3	0
4		E-5/5338/2022-CHE	202241076156	Form5	0
Total :					1750

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred & Fifty only) through

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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	368254-001
तारीख / Date	:	25/07/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SOLAR POWERED SEA WATER DESALINATION APPARATUS** से संबंधित है, का पंजीकरण, श्रेणी 23-01 में 1.Dr A Santhi Mary Antony 2. Dr D Godwin Immanuel 3.Dr S.D Sundarsingh Jebaseelan 4.Dr S Nirmalraj 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 23-01 in respect of the application of such design to **SOLAR POWERED SEA WATER DESALINATION APPARATUS** in the name of 1.Dr A Santhi Mary Antony 2. Dr D Godwin Immanuel 3.Dr S.D Sundarsingh Jebaseelan 4.Dr S Nirmalraj.

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

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निर्गम की तारीख/Date of Issue : 22/12/2022

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Application Details

APPLICATION NUMBER	202241028353
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/05/2022
APPLICANT NAME	1 . R.Venkateswara Reddy 2 . Dr. S. Radhika 3 . Dr. Sandip Halder 4 . Dr. S. Saravanan 5 . Mr. Aditya Kiran Padhiary 6 . Mr. Dwity Sundar Rout 7 . Anantharama H 8 . Ranveer singh Priyanka sankhala 9 . Dr. Sandip Debnath 10 . Dr. Brijesh Sathian 11 . Dr Sandeep Rout
TITLE OF INVENTION	IOT BASED SMART AGRICULTURE SYSTEM TO PREVENT AND DETECT CROP STATUS, IRRIGATION, SOIL PREPARATION, INSECT AND PEST DETECTION USING WSN TECHNOLOGY
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	27/05/2022



ORIGINAL

मूल/No : 127124



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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	341565-001
तारीख / Date	:	26/03/2021
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SEROLOGICAL PIPETTE** से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Sivakumar Vijayaraghavalu 2. Dr. Munish Kumar 3.Dr. Selvamurjunan 4.Dr. P. Shanmugapandiyam, 5.Dr. R. Thirumalaikumaran 6.Dr. Prashanthi R 7.Dr P. Rajarajan 8.Zainab Feroz 9.Dr. Ritambhara 10.Dr. Raj Kumar 11.Dr P Karthigeyan 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 **SEROLOGICAL PIPETTE** in the name of 1.Dr. Sivakumar Vijayaraghavalu 2. Dr. Munish Kumar 3.Dr. Selvamurjunan 4.Dr. P. Shanmugapandiyam, 5.Dr. R. Thirumalaikumaran 6.Dr. Prashanthi R 7.Dr P. Rajarajan 8.Zainab Feroz 9.Dr. Ritambhara 10.Dr. Raj Kumar 11.Dr P Karthigeyan.

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

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निर्गमन की तारीख/Date of Issue : 25/01/2023

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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



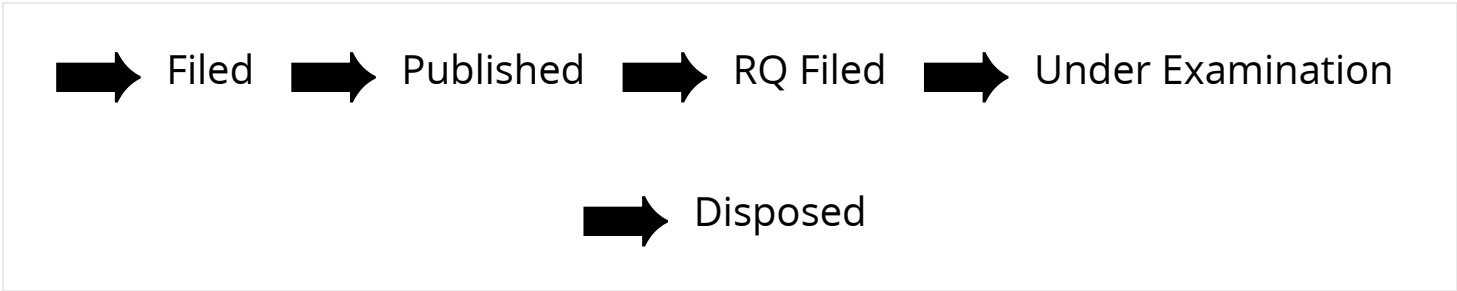
(<http://ipindia.nic.in/index.htm>)

Application Details

APPLICATION NUMBER	202241056081
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/09/2022
APPLICANT NAME	1 . Dr. Kuntal Das 2 . Dr.R.E.Ugandar 3 . Mr. Voleti Vijaya Kumar 4 . Dr. Sandhyarani Panda 5 . Dr. Omveer Singh 6 . Dr Akhilesh Patel 7 . Dr. Sonali Vinod Uppalwar 8 . Dr. Keshamma E 9 . Ms. Priyanka Jaiswal 10 . Mr. V. Ramanarayana Reddy 11 . Mr. Kiran Chanabasappa Nilugal 12 . Dr. Nagashekhara Molugulu
TITLE OF INVENTION	METHODS OF INHIBITING MICROBIAL INFECTIONS USING ZINC-CONTAINING COMPOSITIONS AND AN ANTI-MICROBIAL AGENT
FIELD OF INVENTION	BIO-CHEMISTRY
E-MAIL (As Per Record)	vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/10/2022

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

			View Documents
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शासकीय जर्नल

**OFFICIAL JOURNAL
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निर्गमन सं. 07/2023
ISSUE NO. 07/2023

शुक्रवार
FRIDAY

दिनांक: 17/02/2023
DATE: 17/02/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2023

(21) Application No.202311005902 A

(43) Publication Date : 17/02/2023

(54) Title of the invention : “METHYLPHENIDATE HYDROCHLORIDE SUSTAINED RELEASE FORMULATION, A PHARMACEUTICAL PREPARATION”

(51) International classification :A61P0025000000, A61K0031445800, C07D0211340000,
A61K0009000000, A61K0031445000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
Filing Date :NA

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2)Mr. R Niranjana Kumar
3)Mr.Voleti Vijaya Kumar
4)Dr.Y.Ganesh Kumar
5)Mr. Mukul Pratap Singh Rathore
6)Ms. Ranjeeta Verma
7)Ms. Simran
8)Ms. Nidhi Srivastava
9)Dr.Ch.TarakaRamaraao
10)Ms. Kanchan Mathur
11)Mr Darla Raju
12)Mr. Neeraj Suyal
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
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3)Mr.Voleti Vijaya Kumar
Address of Applicant :Assistant Professor, School of Pharmacy, Sathyabama Institute of Science and Technology, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119 -----
4)Dr.Y.Ganesh Kumar
Address of Applicant :Professor & HOD, Department of Pharmaceutics, KVK College of Pharmacy, Surmaiguda (V), Lashkarguda (G.P), Abdullapurmet (M), R.R Dist., Telangana, India.501512. -----
5)Mr. Mukul Pratap Singh Rathore
Address of Applicant :Assistant Professor, Department of Pharmacy, School of Medical & Allied Sciences Galgotias University, Plot No. 2, Sector-17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin Code: 201310 -----
6)Ms. Ranjeeta Verma
Address of Applicant :Research scholar, Department of Pharmacy, IFTM University, Moradabad-244102, Uttar Pradesh, India -----
7)Ms. Simran
Address of Applicant :Assistant professor,Department of Pharmacy Meerut Institute of Technology, National Highway 58, Meerut Bypass Rd, Baral, Partapur, Meerut, Uttar Pradesh 250103 -----
8)Ms. Nidhi Srivastava
Address of Applicant :Assistant Professor, Arya Group of Institution Nawabganj, Bareilly, Uttar Pradesh, India, Pin Code: 262406 -----
9)Dr.Ch.TarakaRamaraao
Address of Applicant :Associate Professor, Department of Pharmaceutical Technology, Sri Venkateswara College of Pharmacy, Etcherla532410, Srikakulam, Andhrapradesh, India -----
10)Ms. Kanchan Mathur
Address of Applicant :Research Scholar, GLA University, Mathura. Uttar Pradesh. Pin:281406 -----
11)Mr Darla Raju
Address of Applicant :Assistant Professor, Department of Pharmacognosy and Phytochemistry, Holymary Group of Institutions (College of Pharmacy), Bogaram, Keesara, Rangareddy, Telangana, India, Pin code - 500070 -----
12)Mr. Neeraj Suyal
Address of Applicant :Research Scholar/ M. Pharm (Pharmaceutics), Assistant Professor, Arya Group of Institution Nawabganj, Bareilly, Uttar Pradesh, India. Pin Code: 262406 -----

(57) Abstract :
A method for methylphenidate hydrochloride sustained release formulation, a pharmaceutical preparation. the method comprises adding a solvent in which the methylphenidate or methylphenidate salt has reduced solubility to the product mixture, converting the chiral acid-isomeric methylphenidate salt by basification with an alkali metal hydroxide solution into isomeric methylphenidate free base, reacting the (R*,R*)-enriched 7-phenyl-1-azabicyclo[4.2.0]octan-8-one with a solution of hydrogen chloride in methanol to obtain three-enriched methylphenidate hydrochloride, a ratio of ritalinic acid hydrochloride:acid catalyst is from 1:1.7 to 1:5.2 molar equivalents, converting the isomeric methylphenidate free base into isomeric methylphenidate hydrochloride having an enantiomeric excess of greater than about 90% and a yield of greater than about 35% based on racemic three-methylphenidate hydrochloride, 30g polyethylene glycol 400s (PEG-400), 11g methylphenidate hydrochlorides, are sequentially added into the solution of step (1), is surpassed Sound, makes medicine fully dissolve, and is eventually adding 0.75g microcrystalline celluloses, alcoholic hydrochloric acid to provide compound of formula I having at least 99% threeo content and methylphenidate hydrochloride gastric floating slow-release micropills is characterized by: the methylphenidate hydrochloride layer is made up of methylphenidate hydrochloride.

No. of Pages : 19 No. of Claims : 1



ORIGINAL

मूल/No : 121844



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 373213-001
तारीख / Date : 28/10/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **PATIENT INTERFACE ASSEMBLY FOR RESPIRATORY** से संबंधित है, का पंजीकरण, श्रेणी **24-01** में 1.Dr. T. Pugazhenthana 2. Dr. A. R. Vijayakumar 3.G. Sundararajan 4.Dr.N.Delhiraj के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

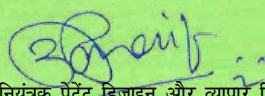
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **24-01** in respect of the application of such design to **PATIENT INTERFACE ASSEMBLY FOR RESPIRATORY** in the name of 1.Dr. T. Pugazhenthana 2. Dr. A. R. Vijayakumar 3.G. Sundararajan 4.Dr.N.Delhiraj.

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

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

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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 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.



ORIGINAL

मूल/No : 132317



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

डिजाइन सं. / Design No. : 374543-001
तारीख / Date : 23/11/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **CARTOONING MACHINE FOR PHARMACEUTICAL PURPOSE** से संबंधित है, का पंजीकरण, श्रेणी 15-10 में 1.G. Sundararajan 2. Dr.N.Delhiraj 3.Dr. A. R. Vijayakumar 4.Dr. T. Pugazhenthان 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 15-10 in respect of the application of such design to **CARTOONING MACHINE FOR PHARMACEUTICAL PURPOSE** in the name of 1.G. Sundararajan 2. Dr.N.Delhiraj 3.Dr. A. R. Vijayakumar 4.Dr. T. Pugazhenthان.

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

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

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निर्गमन की तारीख/Date of Issue : 31/03/2023

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 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।

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ORIGINAL

क्रम सं/ Serial No. : 139790



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.

373212-001

तारीख / Date

28/10/2022

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MOBILE PHASE MIXING TANKS FOR PHARMACEUTICAL PURPOSE** से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. A. R. Vijayakumar 2. G. Sundararajan 3.Dr. T. Pugazhenthnan 4.Dr.N.Delhiraj 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 **MOBILE PHASE MIXING TANKS FOR PHARMACEUTICAL PURPOSE** in the name of 1.Dr. A. R. Vijayakumar 2. G. Sundararajan 3.Dr. T. Pugazhenthnan 4.Dr.N.Delhiraj.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अधधीन 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 : 27/06/2023



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।

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Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

374982-001

Cbr Number:

209242

Cbr Date:

02/12/2022 20:09:00

Applicant Name:

1. G. Sundararajan 2. Dr. T. Pugazhenthana 3. **Dr.N.Delhiraj** 4. Dr. A. R. Vijayakumar

Design Application Status

Application Status:

Application Under Process(wating for Technical Examination)

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

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 52/2022
ISSUE NO. 52/2022

शुक्रवार
FRIDAY

दिनांक: 30/12/2022
DATE: 30/12/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/12/2022

(21) Application No.202241071288 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : A METHODOLOGY TO MONITOR THE EXHALED BREATH OF COVID 19 PATIENTS SUFFERING FROM ACUTE KIDNEY INJURY FOR DETECTION OF AMMONIA USING FABRICATED GAS SENSOR BASED ON POLYPYRROLE AND SILVER NANOPARTICLE

(51) International classification :G01N0033497000, A61B0005080000, A61P0013120000, A61B0005097000, G01N0033000000
(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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4)Dr. PRASHANT MUNDEJA
5)DARSHANAM VIJAYKUMAR
6)TARAPATLA PRADEEP SASTRY
7)Dr. ASHIS KUMAR SARKAR
8)Ms. JYOSHNA RANI DASH
9)Dr. VINOD M. THAKARE
10)KOMAL B UMARE
11)Dr. VAIBHAV PRADIP UPLANCHIWAR
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Name of Applicant : NA
Address of Applicant : NA
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12)Dr. ANSHU R. DUDHE
Address of Applicant :PROFESSOR, NAGPUR COLLEGE OF PHARMACY, WANADONGRI, HINGNA ROAD NAGPUR MAHARASHTRA 441110 NAGPUR -----

(57) Abstract :
A methodology to Monitor the Exhaled Breath of COVID 19 Patients Suffering from Acute Kidney Injury for Detection of ammonia using fabricated gas sensor based on Polypyrrole and Silver nanoparticle is the proposed invention. The invention focuses on monitoring the breath that is exhaled by covid-19 patients who are suffering from acute kidney failure. The breath is tested for presence of ammonia using fabricated gas sensor that is based on polypyrrole and silver nanoparticle.

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



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Department of Industrial Policy & Promotion,
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Government of India

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Application Details

APPLICATION NUMBER	202221048216
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/08/2022
APPLICANT NAME	1 . Dr. Indrani Das Sarma 2 . Dr.N.R. Rajagopalan 3 . Mr.Tamijeselman S 4 . Dr. Kirubanandan Shanmugam 5 . Dr. Pranjit Kumar Bhuyan 6 . Dr. Sivakumar Ponnusamy 7 . Dr. Aishwarya S
TITLE OF INVENTION	USING A FLUIDIC SENSOR WITH PLAIN RADIOGRAPHY TO TRACK BONE HEALING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	dassarmaib@jit.org.in
ADDITIONAL-EMAIL (As Per Record)	dassarmaib@jit.org.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/09/2022

Application Status



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. Pankaj Gupta; Dr. Pugazhenthana Thangaraju; Dr. Ajay Pal Singh; Dr. A. R. Vijayakumar; Dr. R. Sudhakar; Dr. Sundararajan G; Dr. N. Delhiraj; Dr. Nitin Kumar; Dr. Amit Chawla

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

2022/12257

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



REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978
REGISTER OF PATENTS

FORM P2

Official application No.		Lodging date: Provisional		Acceptance date	
21	01 2022/12257	22		47	14 February 2023
International classification		Lodging date: National phase		Granted date	
51	A61K	23	10 November 2022		29 March 2023
71 Full name(s) of applicant(s)/Patentee(s):					
(1) Dr. Pankaj Gupta; (2) Dr. Pugazhenthath Thangaraju; (3) Dr. Ajay Pal Singh; (4) Dr. A. R. Vijayakumar; (5) Dr. R. Sudhakar; (6) Dr. Sundararajan G; (7) Dr. N. Delhiraj; (8) Dr. Nitin Kumar; (9) Dr. Amit Chawla					
71 Applicant(s) substituted:				Date registered	
71 Assignee(s):				Date registered	
72 Full name(s) of inventor(s):					
(1) Dr. Pankaj Gupta; (2) Dr. Pugazhenthath Thangaraju; (3) Dr. Ajay Pal Singh; (4) Dr. A. R. Vijayakumar; (5) Dr. R. Sudhakar; (6) Dr. Sundararajan G; (7) Dr. N. Delhiraj; (8) Dr. Nitin Kumar; (9) Dr. Amit Chawla					
Priority claimed:		Country	Number	Date	
54 Title of invention					
A Pharmaceutical Herbal Formulation for the Treatment and Management of Diabetes Mellitus and Methods Thereof					
Address of applicant(s)/patentee(s):					
(1) Department of Pharmaceutical Sciences, School of Medical & Allied Sciences, K. R. Mangalam University, Sohna Road, Gurugram, HARYANA, 122103, India; (2) Department of Pharmacology, All India Institute of Medical Sciences, Raipur, Chhattisgarh, 492099, India; (3) Department of Pharmacy, Integrated Academy of Management & Technology, Ghaziabad, Uttar Pradesh, 201009, India; (4) Department of Pharmacology, Faculty of Pharmacy, Sree Balaji Medical College and Hospital, BIHER, Chromepet, Chennai, Tamil Nadu, 600044, India; (5) Department of Pathology, NRI Academy of Sciences, Guntur, Andhra Pradesh, 522503, India; (6) Department of Pharmaceutics, Faculty of Pharmacy, Sree Balaji Medical College and Hospital, BIHER, Chromepet, Chennai, Tamil Nadu, 600044, India; (7) Department of Pharmaceutical Analysis, School of Pharmacy, Sathyabama Institute of Science and Technology (Deemed to be University), Chennai, Tamil Nadu, 600119, India; (8) Sunder Deep Pharmacy College, NH-24, Delhi-Hapur Road, Dasna, Ghaziabad, Uttar Pradesh, 201015, India; (9) Maa Saraswati Institute of Pharmaceutical Sciences, Sitto Road, Abohar, Punjab, 152116, India					
74 Address for service					
Sibanda and Zantwijk, Oaktree Corner, 9 Kruger Street, Oaklands (PO Box 1615 Houghton 2041), Johannesburg, 2192, SOUTH AFRICA Reference no.: PT_CP_ZA00006250 ([InsID:])					
61 Patent of addition No.				Date of any change	
Fresh application based on.				Date of any change	

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978
COMPLETE SPECIFICATION
[Section 30(1) – Regulation 28]

FORM P7

OFFICIAL APPLICATION NO.

21	01	2022/12257
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LODGING DATE

22	10 November 2022
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INTERNATIONAL CLASSIFICATION

51	A61K
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FULL NAME(S) OF APPLICANT(S)

71	Dr. Pankaj Gupta Dr. Pugazhenthath Thangaraju Dr. Ajay Pal Singh Dr. A. R. Vijayakumar Dr. R. Sudhakar Dr. Sundararajan G Dr. N. Delhiraj Dr. Nitin Kumar Dr. Amit Chawla
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FULL NAME(S) OF INVENTORS(S)

72	Dr. Pankaj Gupta Dr. Pugazhenthath Thangaraju Dr. Ajay Pal Singh Dr. A. R. Vijayakumar Dr. R. Sudhakar Dr. Sundararajan G Dr. N. Delhiraj Dr. Nitin Kumar Dr. Amit Chawla
----	--

TITLE OF INVENTION

54	A Pharmaceutical Herbal Formulation for the Treatment and Management of Diabetes Mellitus and Methods Thereof
----	---

Title

A Pharmaceutical Herbal Formulation for the Treatment and Management of Diabetes Mellitus and Methods Thereof

Filed of the invention

This invention relates to a Pharmaceutical Herbal Formulation for the Treatment and Management of Diabetes Mellitus and Methods thereof. The present invention relates to a pharmaceutical composition and process for its preparation thereof. The composition is a combination of specific amino acids with plant extracts which is useful for controlling/reducing the blood glucose level significantly and maintains blood sugar level at normal even after withdrawal of the pharmaceutical composition. The composition is non-toxic, easy to digest and ameliorates the general health and vigor of diabetics.

Background of the Invention

EP1502596A1 HERBAL PRODUCT TO BE ADMINISTERED TO DIABETIC INDIVIDUALS AND THE PRODUCTION METHOD THEREOF discloses Herbal product, for its administration to diabetic people and process to obtain it. The product is made up of the mixture of two plants, one of them belonging to the Myrtaceae family, preferably of the Syzygium species and the other to the leguminosae - caesalpinoideae family and preferably of the Bauhinia variety. Its production process is developed by the harvesting and separation of the Syzygium seeds and the Bauhinia leaves; their cleaning by pulverizing; their drying till reaching 9 % humidity and their grinding, sterilization and homogeneous mixing in the established amounts.

WO2018167735A1 HERBAL COMPOSITION discloses an herbal composition effective in management of disorders related to metabolic syndrome. More

particularly, the invention relates to an herbal composition effective in the management of disorders related to metabolic syndrome such as Type 2 diabetes mellitus, obesity and lipid profile management and a process for the preparation of such an herbal composition. The invention further relates to the use of the herbal composition in preparation of food supplements, pharmaceuticals and nutraceuticals for the management of disorders related to metabolic syndrome. The herbal composition effective in management of metabolic syndrome related disorders comprises of herbs selected from *Curcuma longa*, *Emblica officinalis*, *Vernonia anthelmintica*, *Tinospora cordifolia*, *Trigonella foenum-graecum*, *Ixora coccinea* and *Syzygium cumini*. Also provided is the use of herbal composition for the treatment of disorders related to metabolic syndrome. Also provided is a method of treating disorders related to metabolic syndrome comprising administering to a subject in need thereof a therapeutically effective amount of the herbal composition of the present invention.

IN2578CH2015A PROCESS FOR THE PREPARATION OF SYNERGISTIC COMPOUND D5 FOR THE MANAGEMENT OF DIABETES MELLITUS AND RELATED DISORDER discloses an economical process for the preparation of a safe and efficacious synergistic compound D5 for the management of Type II Diabetes. According to the present Invention, the herbal components namely *Cassia auriculata*, *Cassia fistula*, *Syzygium cumini*, *Salada oblonga*, *Cyperus rotundus*, *Costus speciosus* and *Cinnamomum zeylanicum* are purified in prescribed process, dried in sunshade, pulverised into Micro-fine powder and made into synergistic compound D5 in the form of Capsule, Tablet, Caplet, Granules, Powder, etc. (Or) in other neutra-ceutical form for the oral application in the management of Type II Diabetes and related disorders. According to this process, hepato-protective and

safe formulation of D5 having high efficacy in the management of hyperglycaemia, and dyslipidaemia have been exemplified.

WO2021038318A1 HERBAL COMPOSITION FOR REDUCING FAT, SUGAR, ARSENIC, GLUTEN AND GLYCEMIC INDEX OF NATURAL FOOD discloses an herbal composition comprising of herbs viz. Salacia reticulate, Cyclea peltate, Acacia catechu, Emblica officinalis, Curcuma longa, Syzygium cumini, Strychnos potatorum, Aerva lanata, Pterocarpus marsupium, Tribulus terrestris and Berberis aristata. More particularly, this invention relates to an herbal composition capable of reducing fat, sugar, gluten, arsenic and glycemic index of natural foods like rice, wheat, oats, potato, sweet potato and other tubers. The present invention further relates to the process of reducing fat, sugar, gluten, arsenic and glycemic index of natural food using said herbal composition.

Syzygium cumini is traditionally used as a medicine for diabetes. The present invention is aimed to formulate and evaluate of Syzygium cumini.

Summary of the Invention

This summary is provided to introduce a selection of concepts, in a simplified format, that are further described in the detailed description of the invention.

This summary is neither intended to identify key or essential inventive concepts of the invention and nor is it intended for determining the scope of the invention.

To further clarify advantages and features of the present invention, a more particular description of the invention will be rendered by reference to specific embodiments thereof, which is illustrated in the appended drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope.

The formulation containing the herbal drug component fractionated from ethanolic extract of *Syzygium cumini* fruits were prepared by using hydroxy propyl methyl cellulose as a polymer. The films were evaluated for folding endurance, thickness, weight variation, drug contents and in vitro diffusion studies and in vivo parameters like acute and sub-acute antihyperglycemic activity in diabetic rats, biochemical studies, skin irritation in rats and stability studies. The preparation method of the effective part of the *Syzygium cumini* fruit comprises the following steps: an alcohol extraction step: taking the dried *Syzygium cumini* fruit, and extracting an ethanol extract of the *syzygium jambos* fruit with an ethanol solution; an extraction step: extracting the ethanol extract of the *Syzygium cumini* fruit with ethyl acetate to obtain an ethyl acetate extraction part; an ODS column chromatography step: extracting the ethyl acetate extract onto the ODS chromatography column, firstly eluting the material with a solvent A and performing removal of impurities; eluting the material with a solvent, and collecting the elution part of the solvent B, and performing concentration and drying to obtain the effective part of the *Syzygium cumini* fruit.

Detailed Description of the Invention

Diabetes mellitus (DM), commonly referred to as diabetes, is a group of metabolic disorders in which there are high blood sugar levels over a prolonged period. Diabetes is due to either the pancreas not producing enough insulin or the cells of the body not responding properly to the insulin produced. There are three main types of diabetes mellitus namely, Type 1 DM, Type 2 DM and Gestational diabetes. Type 1 DM, results from the pancreas's failure to produce enough insulin. This form was previously referred to as "insulin-dependent diabetes mellitus" (IDDM) or "juvenile diabetes". Type 2 DM begins with insulin resistance, a condition in which cells fail to respond to insulin properly. As the disease progresses a lack of insulin may also

develop. This form was previously referred to as "non-insulin-dependent diabetes mellitus" (NIDDM) or "adult-onset diabetes". The most common cause is excessive body weight and insufficient exercise. Gestational diabetes is the third main form, and occurs when pregnant women without a previous history of diabetes develop high blood sugar levels.

All forms of diabetes increase the risk of long-term complications. These typically develop after many years (15-25) but may be the first symptom in those who have otherwise not received a diagnosis before that time. The major long-term complications relate to damage to blood vessels. Diabetes doubles the risk of cardiovascular disease and about 85% of deaths in diabetics are due to coronary artery disease. Other "macrovascular" diseases are stroke, and peripheral artery disease. In the modern era of medicine, herbal materials and plants continue to play an important role in drug discovery and development. The demand for plant-based medicines is ever growing since crude or processed products obtained from plants are believed to have fewer or no adverse effects as compared to the drugs that are synthetic small molecules.

The term "therapeutically effective amount" as used herein means an amount of the plant extracts and amino acids or the composition containing the extract, which is sufficient to significantly induce a positive modification in the condition to be regulated or treated, but low enough to avoid side effects, if any (at a reasonable benefit/risk ratio), within the scope of sound medical judgment. The therapeutically effective amount of the extract or composition will vary with the particular condition being treated e.g. diabetes mellitus or obesity, the age and physical condition of the end user, the severity of the condition being treated/prevented, the duration of the treatment, the nature of concurrent therapy, the particular pharmaceutically

acceptable carrier utilized, and like factors. As used herein, all percentages are by weight unless otherwise specified.

The term "subject" as used herein refers to an animal, particularly a mammal, and more particularly, a human. The term "mammal" used herein refers to warm-blooded vertebrate animals of the class Mammalian, including humans, characterized by a covering of hair on the skin and, in the female, milk-producing mammary glands for nourishing the young. The term mammal includes animals such as cat, dog, rabbit, bear, fox, wolf, monkey, deer, mouse, pig and the human. In an embodiment, there is provided a synergistic pharmaceutical composition comprising of therapeutically effective amount of plant extracts, therapeutically effective amount of amino acids, elemental chromium, elemental magnesium, elemental zinc and optionally one or more pharmaceutical excipient(s).

Fourteen randomized controlled trials were found eligible for meta-analysis. Meta-analysis of findings showed a significant effect of herbal formulations on blood sugar level compared to control group.

The weight of transdermal patches of *Syzygium cumini* (4 cm (2); 20 mg/patch) and was found to be 0.05 gm. Thickness of patches of *Syzygium cumini* (4 cm(2); 20 mg/patch) was found to be satisfactory. The percentage release of active constituents from transdermal patches of *Syzygium cumini* (4 cm(2); 120 mg/patch) was found to be 68.72% in 10% hydroalcoholic phosphate buffer pH 7.1 at the end of 8 h. The transdermal route exhibited negligible skin irritation and in vivo results revealed that the patches successfully decrease the blood glucose level.

Many drugs and formula all over the world are in practice but none of them is found to be effective. This formula has ray of hope for the Diabetic community at large all

over the world. Lots of experiments were made with permutations and combinations. Amongst all this combination has proved to be most consistently effective in controlling and treating Diabetes, which is proved with blood sugar level testing before and after lunch and with smart HbA1c test.

Claims:

1. A pharmaceutical herbal formulation comprises Syzygium cumini (4 cm (2); 20 mg/patch) which is found to be 0.05 gm; wherein thickness of patches of Syzygium cumini (4 cm(2); 20 mg/patch) is found;

Wherein the percentage release of active constituents from transdermal patches of Syzygium cumini (4 cm (2); 120 mg/patch) is found to be 68.72% in 10% hydroalcoholic phosphate buffer pH 7.1 at the end of 8 h.

2. The formulation as claimed in claim 1, wherein the transdermal route exhibited negligible skin irritation and in vivo results revealed that the patches successfully decrease the blood glucose level.

ABSTRACT

A Pharmaceutical Herbal Formulation for the Treatment and Management of Diabetes Mellitus and Methods Thereof

Discloses herein a pharmaceutical herbal formulation comprises Syzygium cumini (4 cm (2); 20 mg/patch) which is found to be 0.05 gm; wherein thickness of patches of Syzygium cumini (4 cm(2); 20 mg/patch) is found; Wherein the percentage release of active constituents from transdermal patches of Syzygium cumini (4 cm (2); 120 mg/patch) is found to be 68.72% in 10% hydroalcoholic phosphate buffer pH 7.1 at the end of 8 h.



Intellectual
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Office

Certificate of Registration for a UK Design

Design number: 6286370

Grant date: 14 July 2023

Registration date: 30 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

Mrs. Segu Prathyusha, Dr. Chaya Kantha Venkata Lakshmi Siva Naga Anjana,

Dr. Arya Lakshmi Mariseti, Dr. Renzon Daniel Cosme Pecho, Dr. Namrata

Singh, Mr. Suresh Singh, Dr. Jayendra Kumar, **Mr. Voleti Vijaya Kumar**, Dr.

Abhishek Banke, Dr. Moataz Dowaidar

in respect of the application of such design to:

Medicinal Plant Extraction Machine

International Design Classification:

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 02 MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR
LABORATORY USE

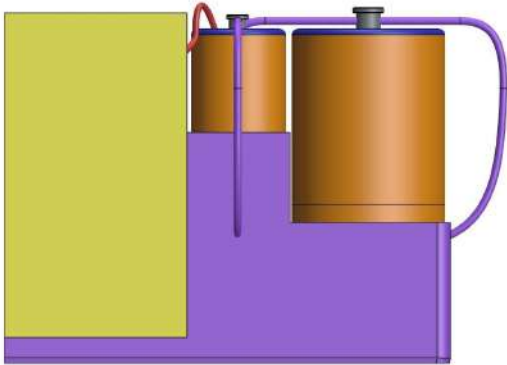
Adam Williams

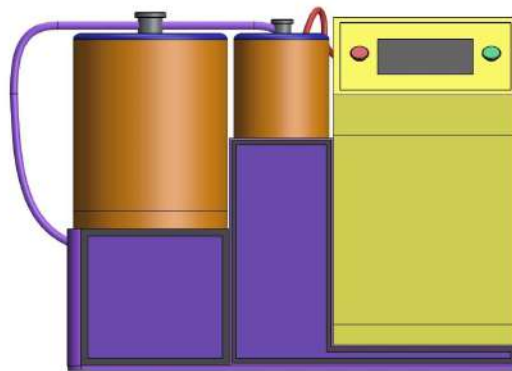
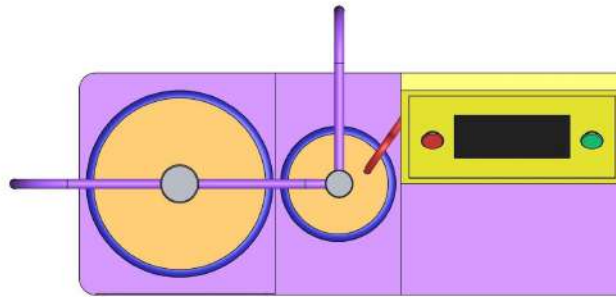
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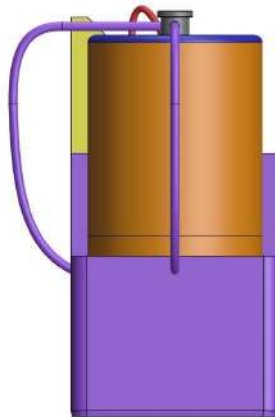
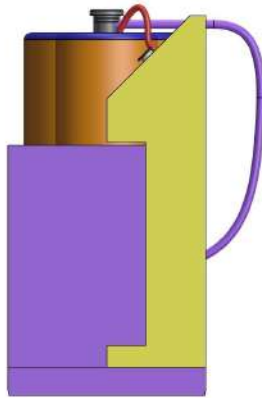
The attention of the Proprietor(s) is drawn to the important notes overleaf.



Representation of Designs







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CHALLAN : TR-5
DOCKET NO:49675

Date/Time : 18/05/2023

To,
DR. T. SASIPRABA

Agent Number:

VICE CHANCELLOR, **SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY**, JEPPIAAR NAGAR, RAJIV
GANDHI ROAD, CHENNAI-600119, TAMILNADU, INDIA. info@humcen.com

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	22503	ORDINARY APPLICATION	202341034751	METHOD ISOLATION, IDENTIFICATION AND CHARACTERIZATION OF ENDOPHYTIC BACTERIA AND ACTINOMYCETES FROM	1750
2		E-101/7745/2023-CHE	202341034751	Correspondence	0
3		E-2/2304/2023-CHE	202341034751	Form2	0
4		E-3/15139/2023-CHE	202341034751	Form3	0
5		E-5/2161/2023-CHE	202341034751	Form5	0
6	22503	E-12/4441/2023-CHE	202341034751	Form9	2750
7	22503	R20234019216	202341034751	Form18	4400
8		E-106/3690/2023-CHE	202341034751	Form28	0
9		E-101/7746/2023-CHE	202341034751	Others(EDUCATIONAL INSTITUTION ELIGIBILITY DOCUMENT)	0
Total :					8900

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FORM 1 THE PATENTS ACT 1970 (39 of 1970) & The Patent Rules, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 & 135, and rule 20(1))		(FOR OFFICE USE ONLY) Application No: Filing Date: Amount of fee paid: CBR No: Signature:			
		 710036913			
		Application No.	202341034751		
		Filing date:	18/05/2023		
		Amount of Fee Paid	1750/-		
		CBR No.	22503		
		Signature	P. V. 18/05/23		
1. APPLICANT'S REFERENCE/ IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]					
Ordinary (✓)		Convention ()		PCT - NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
NAME IN FULL		NATIONALITY	COUNTRY OF RESIDENCE	ADDRESS OF THE APPLICANT	
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY		INDIAN EDUCATIONAL INSTITUTION	INDIA	Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN- 600119 Tamil Nādu, India	
3B CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]					
Natural Person ()		Other than Natural Person			
		Small Entity ()	Startup ()	Educational Institution (✓)	
4. INVENTOR(S) [Please tick (✓) at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes ()		No (✓)	
If "No", furnish the details of the inventors(s)					
Name in Full	Nationality	Country of Residence	Address for inventor		
Gayathri Parameshwaran	INDIAN	INDIA	Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai,		

PATENT OFFICE CHENNAI

26/05/2023

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18-May-2023/49675/202341034751/Form 1

			Jeppiaar Nagar, Chennai, Tamil Nādu, India PIN- 600119
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Rajasekar Thirunavukkarasu	INDIAN	INDIA	Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nādu, India, PIN- 600119

5. TITLE OF THE INVENTION

**“METHOD ISOLATION, IDENTIFICATION AND CHARACTERIZATION OF ENDOPHYTIC
BACTERIA AND ACTINOMYCETES FROM MANGROVE, BANANA AND SUGARCANE”**

6. AUTHORISED REGISTERED PATENT AGENT(S)

IN/PA No.

Nil

Name

Nil

Mobile No.

Nil

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA

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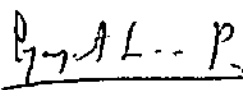
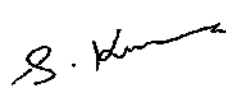
NA

E-mail:

info@humcen.com

8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application	Filing Date	Name of the	Title of the	IPC (as classified
PATENT	Number	CHENNAI	Applicant	Invention	in-the-convention

					country)
N.A.					
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)					
International application number			International filing date		
N.A.					
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION					
Original (first) application number			Date of filing of Original (first) application number		
N.A.					
8. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT					
Main application/ Patent Number			Date of Filing of main application		
N.A.					
9. DECLARATIONS:					
i) Declaration by the inventor(s):					
I, the below-named inventor am the true and the first inventor for this invention.					
(a) Date:					
(b) Signature of the inventor: 					
(c) Name: Gayathri Parameashwaran					
I, the below-named inventor am the true and the first inventor for this invention.					
(a) Date:					
(b) Signature of the inventor: 					
(c) Name : Kumaran Subramanian					
I, the below-named inventor am the true and the first inventor for this invention.					
(a) Date:					
(b) Signature of the inventor: 					
(c) Name : Rajasekar Thirunavukkarasu					
ii) Declaration by the applicant(s) in the convention country					
NIL					

iii) Declaration by the applicant(s):

I/We, the applicant(s) hereby declare(s) that:-

- ✓ I/We am in possession of the above mentioned invention.
- ✓ The Complete specification relating to the invention is filed with this application.
- ☐ The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of the patent to me/us.
- ✓ There is no lawful ground of objection to the grant of the patent to me/us.
- ✓ I/We are the true and first inventors.
- ✓ I am / we are the assignee or legal representative of ture and first inventor(s).
- ☐ The application or each of the application, particulars of which are given in Paragraph 8 was the first application in convention country/countries in respect of my/our invention.
- ☐ I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
- ☐ My/Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph 9.
- ☐ The application is divided out of my/our application particulars of which are given in Paragraph 10 and pray that this application may be treated as deemed to have been filed on.....under section 16 of the Act.
- ☐ The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph 11

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

(a) Form 2

Item	Details	Fee	Remarks
Complete Specification	14 pages	Rs. 1600/-	
No. of Claim(s)	5 Claims; 1 Page		
Abstract	1 Page		
No. of Drawings	4		

(b) Statement and Undertaking (Form 3)

(c) Declaration of inventorship (Form 5)

(d) Request for Early Publication (Form 9)

(e) Request for Early Examination (Form 18)

(f) Educational Institution Proof (Form 28)

Fee Rs. 8900/- (Eight Thousand and Nine hundred Only) in Demand Draft bearing no: "005658" dated 05/05/2023 drawn from HDFC bank, Perumbakkam Branch.

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

Dated this 18th day of May 2023

Applicant Signature



Dr.T. SASIPRABA

Vice Chancellor,

Sathyabama Institute of Science and Technology,

Chennai-600119

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

PATENT OFFICE CHENNAI 26/05/2023 15:21



710036914

FORM 2

The Patent Act 1970

(39 of 1970)

&

The Patent Rules, 2005

**COMPLETE SPECIFICATION
(SEE SECTION 10 AND RULE 13)**

TITLE OF THE INVENTION

**"METHOD ISOLATION, IDENTIFICATION AND CHARACTERIZATION OF
ENDOPHYTIC BACTERIA AND ACTINOMYCETES FROM MANGROVE,
BANANA AND SUGARCANE"**

APPLICANTS:

Name : Sathyabama Institute of Science and Technology

Nationality : Indian Educational Institution

Address : Sathyabama Institute of Science and Technology,
Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai,
Tamil Nādu, India PIN- 600119.

The following specification particularly describes and ascertains the nature of this invention and the manner in which it is to be performed: -

**“METHOD ISOLATION, IDENTIFICATION AND CHARACTERIZATION OF
ENDOPHYTIC BACTERIA AND ACTINOMYCETES FROM MANGROVE,
BANANA AND SUGARCANE”**

FIELD OF INVENTION

[0001] The present disclosure relates to a method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity.

5 BACKGROUND OF INVENTION

[0002] In recent days, the following prior-art documents disclose isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity. Endophytes – Microbes that colonize living internal tissues of
10 plants without causing any immediate, overt negative effect (Bacon and white, 2000). Natural products have been traditional path finder compounds offering an untold diversity of chemical structures. (Strobe and Daisy, 2003). In impact on modern medicine since about 40% of prescribed drugs are based on the natural products. (Strobe and Daisy, 2003). Molecules derived from natural products particularly those products
15 by plant and microbes have excellent records of providing novel chemical structural compounds for development of new pharmaceutical products. (Gayathri et al., 2010).

[0003] Since, the people have been engaged in the discovery and application of microbial metabolites with the activity against both plant and human pathogens. (Balagurunathan and Radhakrishnan, 2007). It is noteworthy that of the nearly 3, 00, 000
20 plant species that exist on the earth is individual host to the endophytes. (Strobe and Daisy, 2003). Mangroves are salt tolerant plants existing at the interface between land and sea in the tropical and subtropical latitudes. (Kathiresan et al., 2000). Extracts of mangrove have showed activity against human, animal and plant pathogens. (Bandaranayake, 2002). The presence of endophytic fungi in leaves of mangrove is
25 known. (surya narayanan et al., 1998, 2001).

[0004] Accordingly, Banana is a giant perennial herb; it is one of the main fruits cultivated in subtropical and tropical regions. (L.Cao et al., 2005). Sugarcane is an annual plant, which is primarily used to produce sugar and alcohol. (Mendes et al., 2007). Their endophytic bacteria and their Bioprospecting potential is largely unknown for the Indian mangrove, banana and sugarcane. Hence, the present attempt was made to isolate, and explore the enhancement of tomato and maize productivity by endophytic bacteria and antimicrobial activity of endophytic actinomycetes from mangrove, Banana and Sugarcane plants with the following objectives.

[0005] Thus, it is desired to address the above-mentioned disadvantages or other shortcomings or at least provide a useful alternative.

OBJECTIVE OF INVENTION

[0006] The principal object of the embodiments herein is to isolate and characterize the bacterial endophytes from different parts (leaf, stem and roots) of mangrove, banana and sugarcane plants.

[0007] Another object of the embodiments herein is to identify PGPR endophytic bacteria to improve growth and yield of the tomato and maize crops.

[0008] Another object of the embodiments herein is to isolate and characterize the endophytic actinomycetes from different parts (leaf, stem and roots) of mangrove, banana and sugarcane plants.

[0009] Still, another object of the embodiments herein is to identify the endophytic actinomycetes having better antimicrobial activity.

SUMMARY OF INVENTION

[0010] The following presents a simplified summary in order to provide a basic understanding of some aspects of the disclosed invention. This summary is not an extensive overview, and it is not intended to identify key/critical elements or to delineate the scope thereof. Its sole purpose is to present some concepts in a simplified form as a prelude to the more detailed description that is presented later.

[0011] Accordingly, there is provided to a method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity.

[0012] In accordance with an embodiment of the present subject matter relates to a method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity. The method involves obtaining a pretreatment and isolation of endophytic bacteria and endophytic actinomycetes. Followed by, characterizing and identifying the endophytic bacteria (*Gluconacetobacter diazotrophicus*, *Bacillus* and *Pseudomonas*). Further, the method may involve screening functional characteristics for PGPR activity and selection of potential strains for pot culture of tomato and maize plant; analysing statistically growth and yield of tomato and maize plant in pot culture. Further, the method may involve screening of antimicrobial activity of endophytic actinomycetes by cross streak technique and agar well diffusion technique. Furthermore, the method may involve identifying potential endophytic actinomycetes isolate for antimicrobial activity by 16s rRNA sequencing.

[0013] These and other aspects of the embodiments herein will be better appreciated and understood when considered in conjunction with the following description and the accompanying drawings. It should be understood, however, that the following descriptions, while indicating preferred embodiments and numerous specific details thereof, are given by way of illustration and not of limitation. Many changes and modifications may be made within the scope of the embodiments herein without departing from the scope thereof, and the embodiments herein include all such modifications.

BRIEF DESCRIPTION OF FIGURES

[0014] These and other features, aspects and advantages of the present invention will be better understood if the following detailed description is read with reference to the accompanying drawings, in which like characters represent like parts in the drawings, where:

[0015] Figure 1 illustrates schematic flow diagram of method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity, according to the present invention.

5 [0016] Figure 2 illustrates graphical representation of enumeration of total bacterial population from plant samples, according to the present invention.

[0017] Figure 3 illustrates graphical representation of enumeration of selected endophytic Bacterial population, according to the present invention.

10 [0018] Figure 4 illustrates graphical representation of enumeration of actinomycetes from Mangrove, Sugarcane and Banana plant samples, according to the present invention.

[0019] It will be understood by those skilled in the art that the elements in the drawings are shown for convenience and have not necessarily been drawn to scale. For example, the flowcharts illustrate the process using key steps to enhance understanding of aspects of the present invention. In addition, one or more components of the device may be represented in the drawings by conventional symbols, and the drawings may show only the specific details relevant to an understanding of embodiments of the present invention, so as not to clutter the drawings with details that are readily apparent to those skilled in the art who are familiar with the present description.

20 DETAILED DESCRIPTION OF INVENTION

[0020] The embodiments herein and the various features and advantageous details thereof are explained more fully with reference to the non-limiting embodiments that are illustrated in the accompanying drawings and detailed in the following description. Descriptions of well-known components and processing techniques are omitted so as to not unnecessarily obscure the embodiments herein. Also, the various embodiments described herein are not necessarily mutually exclusive, as some embodiments can be combined with one or more other embodiments to form new embodiments. The term "or" as used herein, refers to a non-exclusive or, unless otherwise indicated. The examples used herein are intended merely to facilitate an understanding of ways in

which the embodiments herein can be practiced and to further enable those skilled in the art to practice the embodiments herein. Accordingly, the examples should not be construed as limiting the scope of the embodiments herein.

[0021] The accompanying drawings are used to help easily understand various technical features and it should be understood that the embodiments presented herein are not limited by the accompanying drawings. As such, the present disclosure should be construed to extend to any alterations, equivalents and substitutes in addition to those which are particularly set out in the accompanying drawings. Although the terms first, second, etc. may be used herein to describe various elements, these elements should not be limited by these terms. These terms are generally only used to distinguish one element from another.

[0022] Accordingly, embodiments here are provided to a method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity.

[0023] Referring Figure 1 illustrates schematic flow diagram of method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity. The method involves obtaining a pretreatment and isolation of endophytic bacteria and endophytic actinomycetes. Followed by, characterizing and identifying the endophytic bacteria (*Gluconacetobacter diazotrophicus*, *Bacillus* and *Pseudomonas*). Further, the method may involve screening functional characteristics for PGPR activity and selection of potential strains for pot culture of tomato and maize plant; analysing statistically growth and yield of tomato and maize plant in pot culture. Further, the method may involve screening of antimicrobial activity of endophytic actinomycetes by cross streak technique and agar well diffusion technique. Furthermore, the method may involve identifying potential endophytic actinomycetes isolate for antimicrobial activity by 16s rRNA sequencing.

[0024] Referring Figure 2 illustrates graphical representation of enumeration of total bacterial population from plant samples. The enumeration of total endophytic bacterial population is studied in all the four plant samples, and wherein the highest population of endophytic bacteria is noticed in sugarcane stem (20.00×10^6 cfu g⁻¹), while root harbour highest population in banana (16.12×10^6 cfu g⁻¹) as well as in mangrove (15.60×10^6 cfu g⁻¹). For the following table 1 shows the enumeration of total bacterial population from plant samples:

S. No	Locations	Plant	Total bacterial population ($\times 10^6$ cfu g ⁻¹)		
			Root	Leaves	Stem
1	Annamalai Nagar	Sugarcane (<i>Saccharum sp</i>)	19.12	18.10	20.00
2.	Annamalai Nagar	Banana (<i>Musa acuminata</i>)	16.12	14.10	15.00
3.	Pichavaram	Mangrove (<i>Rhizophora apiculata</i>)	16.02	14.51	15.20
4.	Parangipettai	Mangrove (<i>Avicennia marina</i>)	15.60	12.63	13.06
SEd			0.89	1.20	1.60
CD (P = 0.05)			1.80	2.40	3.20

Table 1 Enumeration of total bacterial population from plant samples

[0025] Referring Figure 3 illustrates graphical representation of enumeration of selected endophytic Bacterial population. For the following table 2 shows isolation and enumeration of selected endophytic bacterial population.

S. No	Locations	Plant	Isolates	Population ($\times 10^6$ cfu ml ⁻¹)			Total no of Isolates
				Root	Leaves	Stem	
1	Annamalai Nagar	Sugarcane	<i>Gluconacetobacter diazotrophicus</i>	7.08	6.00	8.06	10
2	Annamalai Nagar	Banana	<i>Bacillus</i> spp.	8.16	5.12	7.08	7
3	Pichavaram	Mangrove	<i>Pseudomonas</i> spp.	10.20	8.25	9.18	8
4	Pichavaram	Mangrove	<i>Pseudomonas</i> spp.	10.11	8.88	9.58	5
Total							30

Table 2 Isolation and Enumeration of selected endophytic bacterial population [0026] Referring Figure 4 illustrates graphical representation of enumeration of actinomycetes from Mangrove, Sugarcane and Banana plant samples. For the following 5 table 3 shows enumeration of actinomycetes from Mangrove, Sugarcane and Banana plant samples.

S. No	Isolates Designation	Substrate mycelium	Aerial mycelium	Aerial mass colour
1	MAR1	+	+	Gy
2	MAS1	+	+	Gy (W)
3	MAL1	+	+	W
4	MAR2	+	+	Gy
5	MAS2	+	+	W
6	MAL2	+	+	Gy (W)
7	SAR1	+	+	W
8	SAS1	+	+	W
9	SAL1	+	+	D
10	BAR1	+	+	Y
11	BAS1	+	+	D
12	BAL1	+	+	W

Table 3 Enumeration of actinomycetes from Mangrove, Sugarcane and Banana plant samples

[0027] Accordingly, the endophytes with growth-promoting properties are desirable for the agronomic improvement of agricultural crops. the usage of agricultural inputs, such as fertilizers and pesticides, a favourable endophyte – host association in crop plants would minimize des, thus saving costs and reducing pollutants to the environment. The occurrence of endophytic bacteria was studied in Root, Stem and Leaf of four plants namely *Rhizophora apiculata*, *Avecenia marina*, Sugarcane (*Saccharum officinarum*) and Banana (*Musa acuminata*). Totally 30 endophytic bacterial isolates were obtained from all the samples (10 from sugarcane, 7 from banana and 13 from both mangrove). The isolates were designated based on the plant name and the sample.

[0028] Further, the characterization of endophytic bacterial isolates were performed such as., Morphological characteristics, Biochemical characteristics and Functional characteristics. Based on the characteristics, 10 isolate from sugarcane were identified as *Gluconacetobacter diazotrophicus*, 5 isolate from banana were identified as *Bacillus subtilis* 2 were *Bacillus polymyxa*, 9 isolate from mangrove were identified as *Pseudomonas fluorescens* and 4 were *P. putida*.

[0029] The PGPR activities of *Gluconacetobacter diazotrophicus* isolates were studied such as., ARA (acetylene reduction assay), IAA production and exopolysaccharide production. Among the 10 isolates subjected for screening isolate S1S4 produced 199 (n moles of C_2H_5 h⁻¹ vial⁻¹), 2.69 μ g 25 ml⁻¹ IAA, 0.78g of water soluble exopolysaccharide and 0.65 g of alkali stable exopolysaccharide.

[0030] Accordingly, the screening of *Pseudomonas fluorescens* isolates for PGPR activity such as., IAA production, GA3 production and Siderophore production. Out of the 9 isolate M1R3 isolate produced 66.4 μ g 25 ml⁻¹ IAA, 7.1 μ g 25 ml⁻¹ GA3, 8.00 μ g ml⁻¹ Catechol Type and 8.25 μ g ml⁻¹ Hydroximate type siderophore.

[0031] The growth parameters such as., germination percentage (95.15 %), vigour index(2191.87), plant height (77.45 cm in 30, 128.12 cm in 60 and 179.21 cm in 90 days), chlorophyll content of leaf (2.97), plant biomass (38.10 g in 30, 116.68 g in 60 and 264.34 g in 90 days), number of grains per cob (549.28), number of grains per row (34.33), length of cob (15.43), girth of cob (15.65), filled to unfilled ratio (27:1).

[0032] In another embodiment, the biometric observations on tomato plants study as germination percentage (98.00), vigour index (1812.67), plant height (20.70 cm in 30, 52.12 cm in 60 and 85.21 cm in 90 days), chlorophyll content (2.57), plant biomass (23.10 g in 30, 60.68 g in 60 and 149.04 g in 90 days), number of leaves per plant (12.03 in 30, 24.65 in 60 and 27.10 in 90 days), number of branches per plant (1.00 in 30, 3.65 in 60 and 4.10 in 90 days), number of flowering clusters per plant (14.67), number of fruits per plant (12.33), individual fruit weight (46.36 g), yield per plant (571.61 g) were the highest growth and yield produced by treatment T8-75% NPK + GD + PF + BS.

[0033] The highest population of endophytic actinomycetes was noticed in root of *Rhizopora apiculata* (16.94×10^4 cfu g⁻¹), while stem harboured highest population of *Avicennia marina* (14.65×10^4 cfu g⁻¹) and leaf of *Rhizopora apiculata* shows highest population (12.45×10^4 cfu g⁻¹). The isolates were designated based on the plant name and the sample part.

[0034] Further confirmation of antibacterial activity is done by agar well diffusion method, selected 6 isolates were used against 6 clinical pathogens. The zone size is measured after incubation. Upon 6 isolates only one isolate MAR1 shows good activity against all the pathogens. The zone of inhibition against six pathogens were 35mm, 39mm, 32mm, 37mm, 32mm and 33mm against *Pseudomonas aeruginosa*, *E. coli*, *Klebsiella pneumonia*, *Proteus vulgaris*, *Staphylococcus aureus* and *Salmonella typhi* respectively was shown by the potential isolate MAR1.

[0035] Further confirmation of antifungal activity was done by agar well diffusion method. The zone of inhibition against four fungal pathogens were 25mm, 22mm, 20mm and 17mm against *Aspergillus niger*, *Aspergillus flavus*, *Aspergillus fumigates* and *Penicillium* sp respectively was produced by the potential isolate MAR1. The isolate MAR1 was identified by 16s rRNA sequencing as *Streptomyces coelicolor*.

[0036] The foregoing description of the specific embodiments will so fully reveal the general nature of the embodiments herein that others can, by applying current knowledge, readily modify and/or adapt for various applications such specific embodiments without departing from the generic concept, and, therefore, such

adaptations and modifications should and are intended to be comprehended within the meaning and range of equivalents of the disclosed embodiments. It is to be understood that the phraseology or terminology employed herein is for the purpose of description and not of limitation. Therefore, while the embodiments herein have been described in
5 terms of preferred embodiments, those skilled in the art will recognize that the embodiments herein can be practiced with modification within the spirit and scope of the embodiments as described herein.

ABSTRACT

"METHOD ISOLATION, IDENTIFICATION AND CHARACTERIZATION OF ENDOPHYTIC BACTERIA AND ACTINOMYCETES FROM MANGROVE, BANANA AND SUGARCANE"

Accordingly, embodiments herein disclose a method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity. The method involves obtaining a pretreatment and isolation of endophytic bacteria and endophytic actinomycetes. Followed by, characterizing and identifying the endophytic bacteria (*Gluconacetobacter diazotrophicus*, *Bacillus* and *Pseudomonas*). Further, the method may involve screening functional characteristics for PGPR activity and selection of potential strains for pot culture of tomato and maize plant; analysing statistically growth and yield of tomato and maize plant in pot culture. Further, the method may involve screening of antimicrobial activity of endophytic actinomycetes by cross streak technique and agar well diffusion technique. Furthermore, the method may involve identifying potential endophytic actinomycetes isolate for antimicrobial activity by 16s rRNA sequencing.

Figure to be published with Abstract: Figure 1

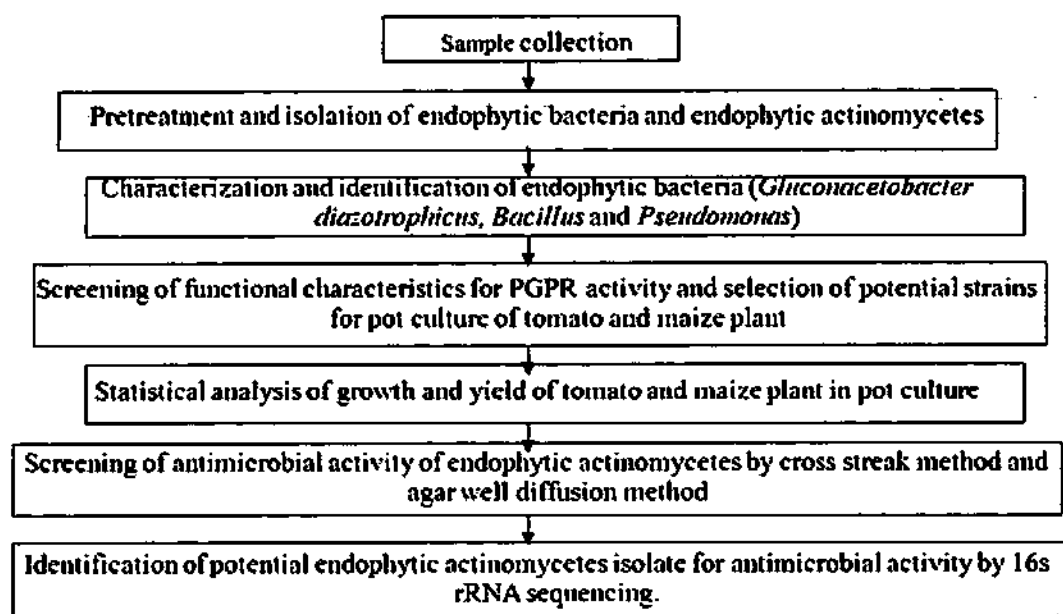


FIGURE 1

CLAIMS

We claim:

1. A method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity, comprising the steps of:
 - obtaining a pretreatment and isolation of endophytic bacteria and endophytic actinomycetes;
 - characterizing and identifying the endophytic bacteria (*Gluconacetobacter diazotrophicus*, *Bacillus* and *Pseudomonas*);
 - screening functional characteristics for PGPR activity and selection of potential strains for pot culture of tomato and maize plant;
 - analysing statistically growth and yield of tomato and maize plant in pot culture;
 - screening of antimicrobial activity of endophytic actinomycetes by cross streak technique and agar well diffusion technique; and
 - identifying potential endophytic actinomycetes isolate for antimicrobial activity by 16s rRNA sequencing.
2. The method as claimed in the claim 1, wherein the totally 30 endophytic bacterial isolates were obtained from all the samples (10 from sugarcane, 7 from banana and 13 from both mangrove).
3. The method as claimed in the claim 1, wherein the endophytes with growth-promoting properties are desirable for the agronomic improvement of agricultural crops.
4. The method as claimed in the claim 1, wherein the enumeration of total endophytic bacterial population is studied in all the four plant samples, and wherein the highest population of endophytic bacteria is noticed in sugarcane stem (20.00×10^6 cfu g⁻¹), while root harbour highest population in banana (16.12×10^6 cfu g⁻¹) as well as in mangrove (15.60×10^6 cfu g⁻¹).
5. The method as claimed in the claim 1, wherein the characterization of endophytic bacterial isolates is performed such as, Morphological characteristics, Biochemical characteristics and Functional characteristics.

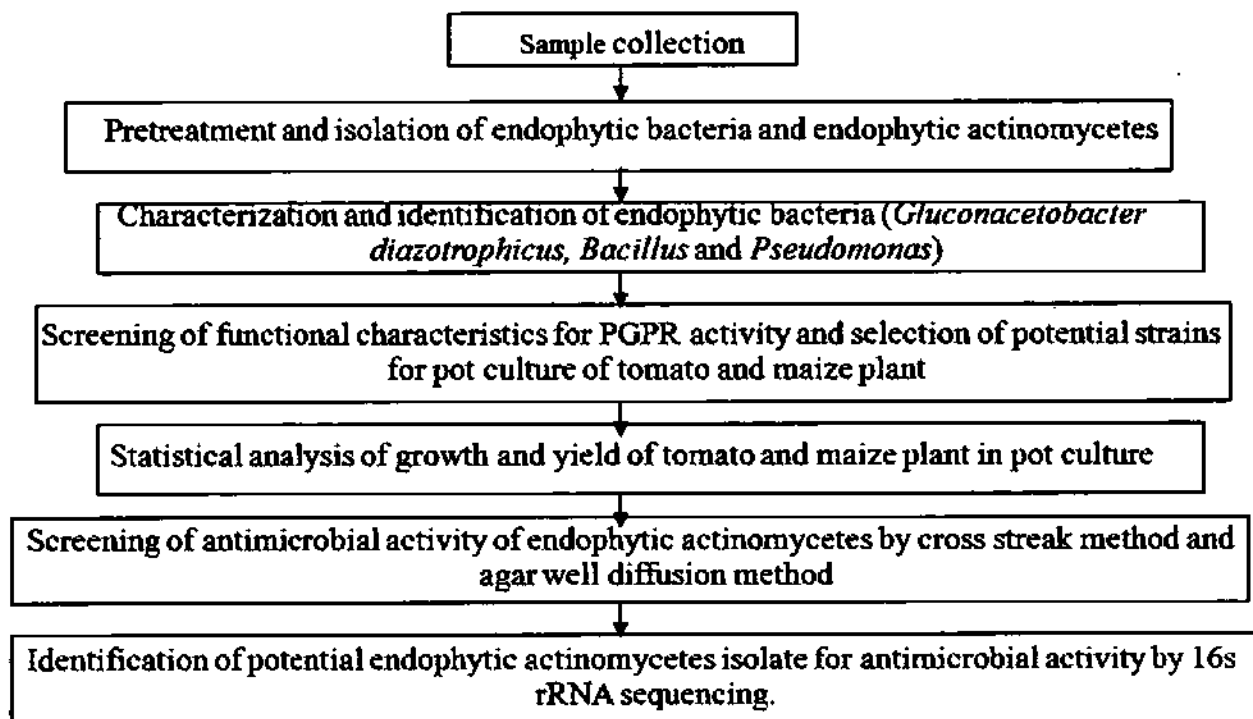


FIGURE 1

Applicant Signature

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Sathyabama Institute of Science and Technology,
Chennai-600119

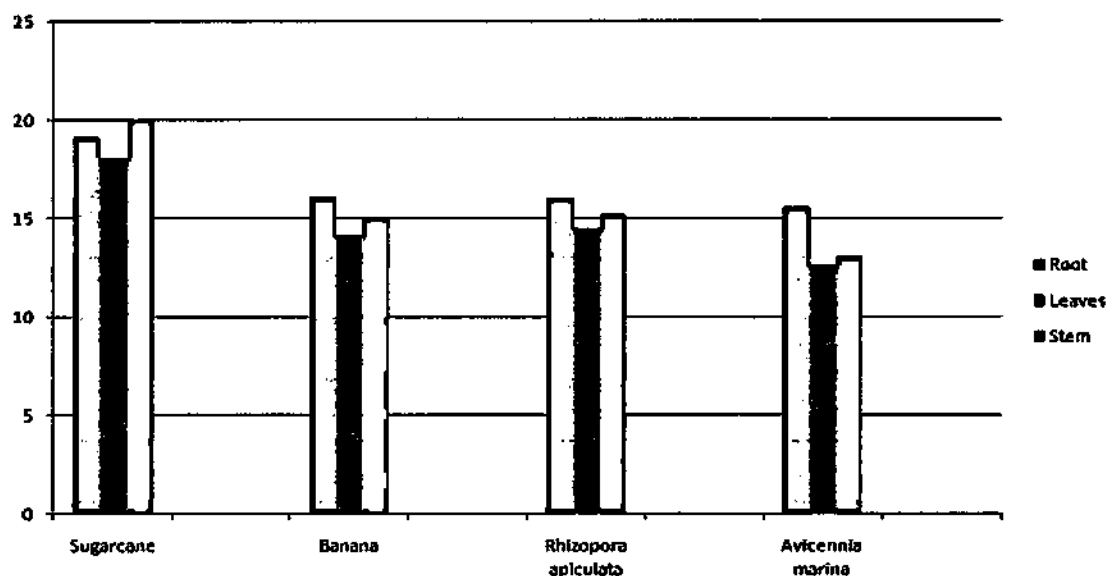


FIGURE 2

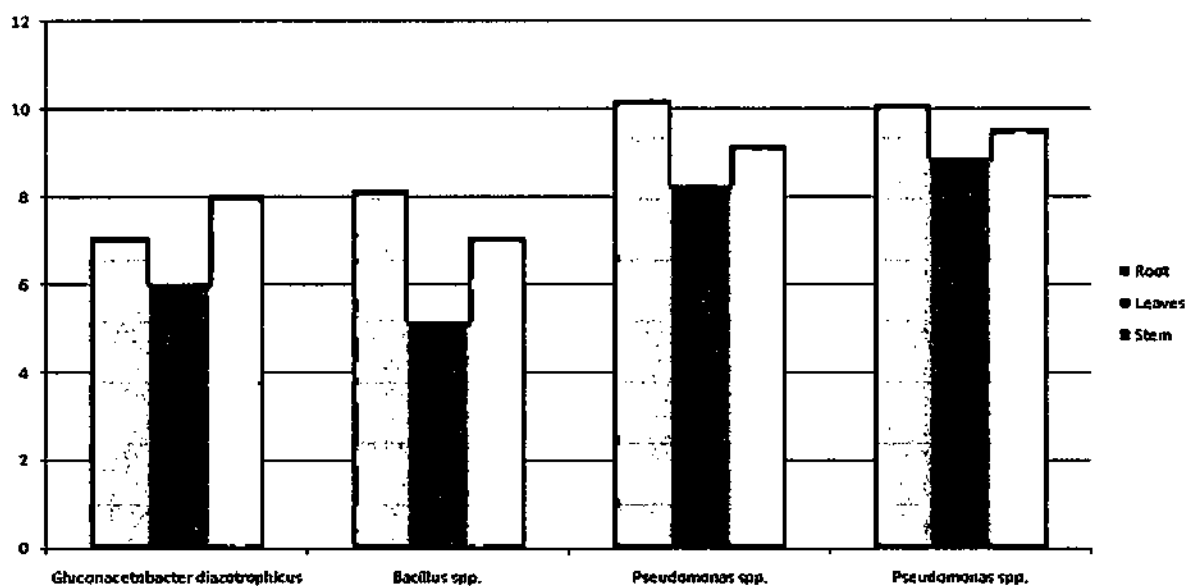


FIGURE 3

Applicant Signature

[Signature]

Dr.T. SASIPRABA
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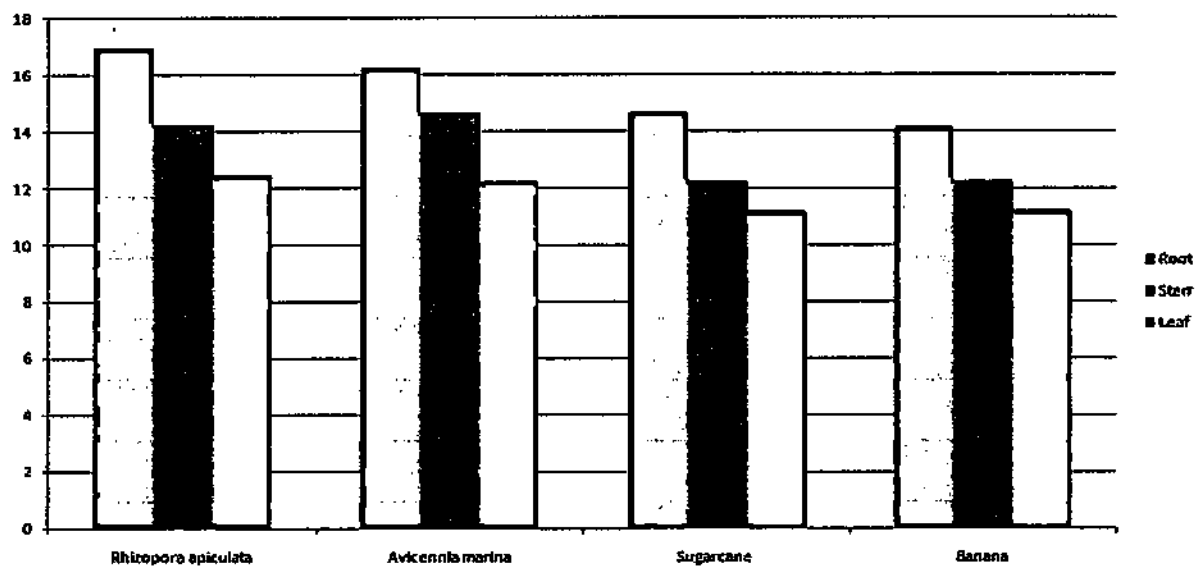


FIGURE 4

Applicant Signature

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Design Application Details



Design Number: 366815-001

Filing Date: 27/06/2022 00:00:00

Article Name: AGRICULTURAL DRONE

Class: 15-03-**AGRICULTURAL AND FORESTRY
MACHINERY**

Journal Number: 49/2022

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Design Application Details



Design Number: 366816-001

Filing Date: 27/06/2022 00:00:00

Article Name: SPIKE FEEDER-SOLID WASTE MANAGEMENT
DRONE

Class: 12-07-AIRCRAFTS AND SPACE VEHICLES

Journal Number: 02/2023

Journal Date: 13/01/2023 00:00:00



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PATENT CERTIFICATE
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क्रमांक : 044151131
SL No :



पेटेंट सं. / Patent No. : 425118
आवेदन सं. / Application No. : 202041022907
फाइल करने की तारीख / Date of Filing : 01/06/2020
पेटेंटी / Patentee : 1.Dr. A. ANDERSON, Mr. KAJA BANTHA NAVAS RAJA
MOHAMED, Dr. S. PRAKASH, Dr. T. SASIPRABA, Mr.
DANIEL S. PARMAR 2.Mr. NIVIN JOY 3.Mr. KADA SRI SAI
RAHUL 4.Mr. K. SUNDARA RAMA REDDY et al. et al. et
al. et al.

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित DEVELOPMENT OF NOISE CONTROL MUFFLER FOR FOUR WHEELED VEHICLES नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2020 के पहले 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 **DEVELOPMENT OF NOISE CONTROL MUFFLER FOR FOUR WHEELED VEHICLES** as disclosed in the above mentioned application for the term of 20 years from the 1st day of June 2020 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 14/03/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2022 के पहले 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 1st day of June 2022 and on the same day in every year thereafter.



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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	367888-001
तारीख / Date	:	18/07/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **WIND MILL OPERATED SOLAR DESALINATION SYSTEM** से संबंधित है, का पंजीकरण, श्रेणी **23-01** में 1.Dr A. Anderson 2. Mr Lokeswar Patnaik 3.Dr Nivin Joy 4.Dr A Annam Renita के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

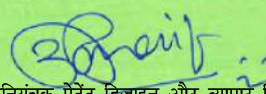
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **23-01** in respect of the application of such design to **WIND MILL OPERATED SOLAR DESALINATION SYSTEM** in the name of 1.Dr A. Anderson 2. Mr Lokeswar Patnaik 3.Dr Nivin Joy 4.Dr A Annam Renita.

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

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

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निर्गमन की तारीख/Date of Issue : 12/01/2023


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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।

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(12) PATENT APPLICATION PUBLICATION

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(19) INDIA

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(54) Title of the invention : AN ASSEMBLY WITH MECHANICAL FAILURE DETECTION OF SELECTIVELY LASER MELTED COMPONENTS CONSTRUCTED ON-SITE AND METHOD THEREOF

		(71)Name of Applicant : 1)Kaushik Rathan S Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Panimalar Engineering College, Chennai - 600123 ----- 2)Mr. Jeswin Arputhabalan 3)Dr. V Gopal 4)Mr. Itha Veeranjanyulu 5)Dr. Anish Mariadhas 6)Mr. M. Karthe 7)Dr. A. Rajendra Prasad Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Kaushik Rathan S Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Panimalar Engineering College, Chennai - 600123 ----- 2)Mr. Jeswin Arputhabalan Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sri Sairam Institute of Technology, Chennai-600044 ----- 3)Dr. V Gopal Address of Applicant :Assistant Professor, Department of Mechanical Engineering, KCG College of Technology, Karapakkam, Chennai-600097 ----- 4)Mr. Itha Veeranjanyulu Address of Applicant :Sr. Assistant Professor, Department of Mechanical Engineering, Aditya Engineering College, Surampalem, Kakinada ----- --- 5)Dr. Anish Mariadhas Address of Applicant :Assistant Professor, School of Mechanical, Sathyabama Institute of Science and Technology, Chennai, 600119 ----- 6)Mr. M. Karthe Address of Applicant :Assistant Professor, Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur - 639113 ----- 7)Dr. A. Rajendra Prasad Address of Applicant :Professor, Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai - 600044, Tamil Nadu, India ----- -
(51) International classification	:B22F0010200000, B22F0010000000, C23C0024100000, B33Y0030000000, B22F0010100000	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[029] The present invention discloses an assembly with mechanical failure detection of selectively laser melted components constructed on-site and method thereof. The assembly includes, but not limited to, a failure analysis of the thin-walled cover is performed, and the cover's surface is handled; the endoporus of the cover is fastened using a frock, which allows the cover to maintain its stress level regardless of the frock's circular adjustment; optimise processing parameter, perform laser melting coating based on failure analysis of thin-walled cover; while laser melting coating, additional positions outside of the location to be repaired are cooled off. Further, the preset powder feeding mode includes using a laser with a power output of 1500W to 1900W, an absolute height of 260mm to 275mm, a spot size of 10mm 1.8mm, a sweep velocity of 110mm/min to 130mm/min, a lap size of 6.5mm, and a powder sending quantity of 12g/min to 18g/min. Accompanied Drawing [FIG. 1-2]

No. of Pages : 16 No. of Claims : 8



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3.4.3 Number of Patents published/awarded during the year

3.4.3.1: Total number of Patents published/awarded year wise during the year

Name of the Patenter	Patent Number	Title of the patent	Year of Award of patent
Dillip Kumar sahuo , Thangzamuana, Eric John	202241036016	FOLDABLE ELECTRIC THREE WHEELER	Published 2023
Dillip Kumar sahuo , Mohamed musthakeem Basha, Kotha sathwik	202341032337	DESIGN AND FABRICATION OF CUSTOMIZED ELECTRIC TWO WHEELEDVEHICLE FOR URBAN MOBILITY	Published 2023
A.Karthikeyan , Sriram.M, Shaik Mohammed Sayer	202341032374	AUTOMATIC FIRE EXTINGUISHING SYSTEM FOR AUTOMOBILES	Published 2023
Dr. Sachin S Raj, Dr. P. Arulmozhi, Dr. M. Sudhagar, Dr.A.Jayaganthan	379554-001	AGRICULTURAL FERTILIZER SPREADER MACHINE	Granted 2023



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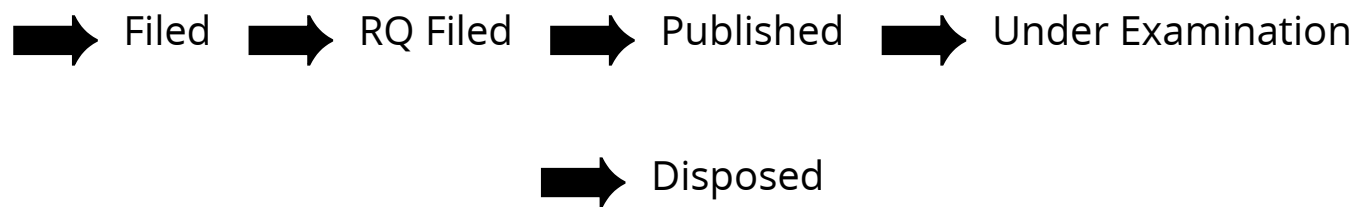
Application Details

APPLICATION NUMBER	202241036016
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/06/2022
APPLICANT NAME	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
TITLE OF INVENTION	FOLDABLE ELECTRIC THREE WHEELER
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	info@humcen.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	23/06/2022
PUBLICATION DATE (U/S 11A)	01/07/2022
REPLY TO FER DATE	09/02/2023

Application Status

APPLICATION STATUS	Reply Filed. Application in amended examination
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Ministry of Commerce & Industry,
Government of India

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

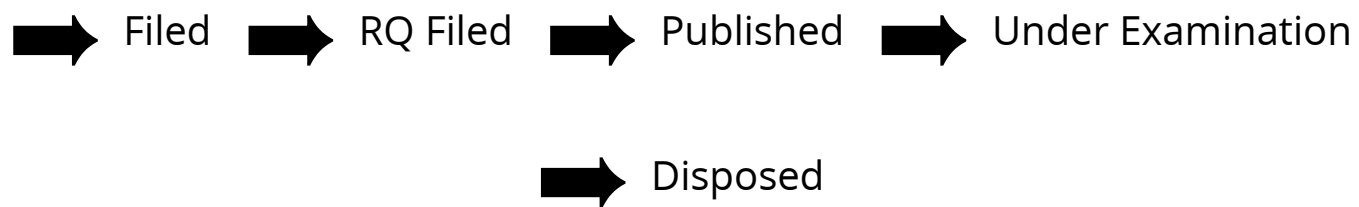


(<http://ipindia.nic.in/index.htm>)

Application Details	
APPLICATION NUMBER	202341032377
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/05/2023
APPLICANT NAME	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
TITLE OF INVENTION	DESIGN AND FABRICATION OF CUTOmIZED ELECTRIC TWO WHEELED VEHICLE FOR URBAN MOBILITY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	info@humcen.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	08/05/2023
PUBLICATION DATE (U/S 11A)	16/06/2023

Application Status	
APPLICATION STATUS	Application Awaiting Examination

			View Documents
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Government of India

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



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

Application Details

APPLICATION NUMBER	202341032374
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/05/2023
APPLICANT NAME	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
TITLE OF INVENTION	AUTOMATIC FIRE EXTINGUISHING SYSTEM FOR ELECTRIC VEHICLES
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	info@humcen.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	08/05/2023
PUBLICATION DATE (U/S 11A)	16/06/2023

Application Status

APPLICATION STATUS

Application Awaiting Examination[View Documents](#)

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

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ORIGINAL

मूल/No : 136108



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

डिजाइन सं. / Design No. : 379554-001
तारीख / Date : 17/02/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AGRICULTURAL FERTILIZER SPREADER MACHINE** से संबंधित है, का पंजीकरण, श्रेणी **15-03** में 1.Dr. Sachin S Raj 2. Dr. P. Arulmozhi 3.Dr. A. Jayaganthan 4.Dr. M. Sudhagar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

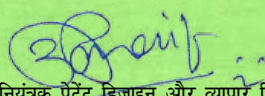
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **15-03** in respect of the application of such design to **AGRICULTURAL FERTILIZER SPREADER MACHINE** in the name of 1.Dr. Sachin S Raj 2. Dr. P. Arulmozhi 3.Dr. A. Jayaganthan 4.Dr. M. Sudhagar.

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

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

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निर्गमन की तारीख/Date of Issue : 17/05/2023


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.

School of Science and Humanities

Department of Physics

Academic Year – 2022 – 2023

3.4.3 Number of Patents published/awarded – 2022- 2023

S.No.	Name of the Patenter	Patent Number	Title of the Patent	Year of Award of Patent
1	Dr. M. Manjula, et. al	202341005697	Nanochip and biosensor-based precision farming	2023
2	Dr. C. Rameshkumar	202211024152	Detect and Prevent the Data Leaks using SQL & AI system from big data source	2022
3	Dr. M. Dakshana, et al.	202022106988	A System for Synthesizing the Morphologically Tuned Nanostructures Of Nickel Oxide for High Performance Supercapacitor	2022
4	Dr. Helen Merina Albert, et al.	202241044520	Method for manufacturing biodegradable polymeric nanoparticle drug	2022
5	Dr. D. S. Jayalakshmi et al.	202022103356	A System for Synthesizing Tin (Sn)-Decorated Ferric Oxide (Fe ₂ O ₃) Nanoparticles	2022
6	Dr. D. S. Jayalakshmi et al.	361604-001	Solar Sitting Furniture	2022



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INSTITUTE OF SCIENCE AND TECHNOLOGY

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4/1/23, 10:20 AM

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Department of Industrial Policy & Promotion,
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GEOGRAPHICAL INDICATIONS

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

Application Details

APPLICATION NUMBER	202341005697
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/01/2023
APPLICANT NAME	1 . Dr. M. Durga Bhavani 2 . Dr. B. Arunkumar 3 . Dr. M. Manjula 4 . Dr. Shaik Fakruddin Babavali 5 . Dr. M. Reddi Babu 6 . Dr. Shobha Thakur 7 . Mrs. V Rama Lakshmi 8 . Dr. Richa Sharma 9 . Mr. Adabala Kumar Sanjay 10 . Dr. K.V. Madhusudhan
TITLE OF INVENTION	Nanochip and biosensor-based precision farming
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/02/2023

Application Status

<https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

1/2



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202211024152
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/04/2022
APPLICANT NAME	1. Chinu 2. Dr.Arun B Mathews 3. Dr.S.Palanikumar 4. Dr.A.Raja 5. Dr. Syed Azahad 6. Dr. C. Rameshkumar 7. Dr. T. Mahjula
TITLE OF INVENTION	DETECT AND PREVENT THE DATA LEAKS USING SQL & AI SYSTEM FROM BIG DATA SOURCE
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	...
PUBLICATION DATE (U/S 11A)	29/04/2022

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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🇩🇪 Bundesrepublik Deutschland 🇩🇪

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 106 988

Bezeichnung:

Ein System zur Synthese von morphologisch abgestimmten Nanostrukturen aus
Nickeloxid für Hochleistungs-Superkondensatoren

IPC:

B82B 3/00

Inhaber/Inhaberin:

Kamath, Manjunath Srinivas, Dr., Chennai, Tamil Nadu, IN
Krishnan, Karthik, Dr., Sivaganga, Tamil Nadu, IN
Mani, Rajasekar, Dr., Thiruvannamalai, Tamil Nadu, IN
Mathivanan, Parthibavarman, Dr., Salem, Tamil Nadu, IN
Murugadoss, Govindhasamy, Dr., Villupuram, Tamil Nadu, IN
Murugan, Dakshana, Dr., Namakkal, Tamil Nadu, IN
Sathyabama University, Chennai, Tamil Nadu, IN
Subramani, Meyvel, Dr., Salem, Tamil Nadu, IN

Tag der Anmeldung:

14.12.2022

Tag der Eintragung:

11.01.2023

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

Cornelia Rudloff-Schäffer

München, 11.01.2023



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



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details	
APPLICATION NUMBER	202241044520
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	03/08/2022
APPLICANT NAME	1. Dr. Helen Merina Albert 2. Mrs. RuthKeziah M. 3. Dr. G. Vimala 4. Dr. M. Parthasarathy 5. Mrs. S. Lingeswari 6. Dr. N. Mujafarkani 7. Dr. Sinha Ashutosh Kumar 8. Dr. Kumara Swamy Jella 9. Mr. Sanjay Kumar Kuna 10. Mr. Shake Hussain Basha 11. Dr. D. V. Lokeswar Reddy
TITLE OF INVENTION	METHOD FOR MANUFACTURING BIODEGRADABLE POLYMERIC NANOPARTICLE DRUG

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241044520 A

(19) INDIA

(22) Date of filing of Application : 03/08/2022

(43) Publication Date : 05/08/2022

(54) Title of the invention : METHOD FOR MANUFACTURING BIODEGRADABLE POLYMERIC NANOPARTICLE DRUG

(51) International classification : A61K0045060000, A61K0031710000, A61K0009510000,
A61K0047640000, B02Y0030000000
(56) International Application No : PCT/
Filing Date : 01/01/1900
(57) 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. Helen Merina Albert
Address of Applicant : Professor, Department of Physics, Sathyabama Institute of Science & Technology, Chennai, Tamil Nadu, India, Pin code: 600119 Chennai
2) Mrs. RuthKeziah M.
3) Dr. G. Vimala
4) Dr. M. Parthasarathy
5) Mrs. S. Lingeswari
6) Dr. N. Mujafarkani
7) Dr. Sinha Ashutosh Kumar
8) Dr. Kumara Swamy Jella
9) Mr. Sanjay Kumar Kuna
10) Mr. Shake Hussain Basha
11) Dr. D. V. Lokeswar Reddy
Name of Applicant : NA
Address of Applicant : NA
(72) Name of Inventor :
1) Dr. Helen Merina Albert
Address of Applicant : Professor, Department of Physics, Sathyabama Institute of Science & Technology, Chennai, Tamil Nadu, India, Pin code: 600119 Chennai
2) Mrs. RuthKeziah M.
Address of Applicant : Assistant Professor, Department of Biotechnology, Rathnam Technical Campus, Coimbatore, Tamil Nadu, India, Pincode: 641021 Coimbatore
3) Dr. G. Vimala
Address of Applicant : Assistant Professor, Department of Chemistry, Chellammal Women's College, Guntur, Chennai, Tamil Nadu, India, Pincode: 600032 Chennai
4) Dr. M. Parthasarathy
Address of Applicant : Associate Professor and Head, Department of Physics, Vels Institute of Science, Technology & Advanced Studies (VISTAAS), Pallavaram, Chennai, Tamil Nadu, India, Pincode: 600117 Chennai
5) Mrs. S. Lingeswari
Address of Applicant : Research Scholar, Department of Physics, St. Joseph's College, Tiruchirappalli, Tamil Nadu, India, Pincode: 620002 TIRUCHIRAPPALLI
6) Dr. N. Mujafarkani
Address of Applicant : Assistant Professor, PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamil Nadu, India, Pincode: 620020 Tiruchirappalli
7) Dr. Sinha Ashutosh Kumar
Address of Applicant : Professor & Principal IV, Department of Pharmaceutical Sciences,



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Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 356

Bezeichnung:

Ein System zur Synthese von ZIN(Sn)-dekorierten Eisenstoffoxid(Fe_2O_3)-
Nanopartikeln zur elektrochemischen Bestimmung von Hydrazin

IPC:

B82B 3/00

Inhaber/Inhaberin:

Jayalakshmi, Dandu Shanmugam, Dr., Chennai, Tamil Nadu, IN
Murugadoss, Govindasamy, Dr., Villupuram District, Tamilnadu, IN
Parasuraman, Kuppusami, Dr., Kancheepuram, Tamilnadu, IN
Salla, Sunitha, Dr., Chennai, Tamil Nadu, IN
Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, IN

Tag der Anmeldung:

15.06.2022

Tag der Eintragung:

22.07.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Comelia Rudloff-Schäffer

Comelia Rudloff-Schäffer

München, 22.07.2022



Die Voraussetzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters nicht geprüft.
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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN



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CERTIFICATE OF REGISTRATION OF DESIGN

ORIGINAL

मूल/No : 132768



डिजाइन सं. / Design No.	361604-001
तारीख / Date	31/03/2022
पारस्परिकता तारीख / Reciprocity Date*	
देश / Country	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **A SOLAR POWERED PUBLIC SITTING FURNITURE** से संबंधित है, का पंजीकरण, श्रेणी **06-01** में 1.Dr.D.S.Jayalakshmi 2. Ms.M.Prasanna Jeyanthi 3.Dr.H.Girija Bai 4.Dr.D.Hemanand 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 **06-01** in respect of the application of such design to **A SOLAR POWERED PUBLIC SITTING FURNITURE** in the name of 1.Dr.D.S.Jayalakshmi 2. Ms.M.Prasanna Jeyanthi 3.Dr.H.Girija Bai 4.Dr.D.Hemanand.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अधधीन प्रावधानों के अनुरूपण 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) : 10/04/2023


 महापति महापेटेंट डिजाइन और वाणिज्य चिह्न
 Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (जदि कोई हो) किसी अनुबंधित देश के नाम पर की गई है। डिजाइन का सार्वजनिक पंजीकरण की तारीख से दस वर्षों के लिए संपन्न विचार, आविष्कार एवं विचार के निष्कर्षों के ज्ञान, प्रत्यक्ष या अप्रत्यक्ष रूप से प्राप्त किया जा सकता है। इस प्रमाण पत्र का उपयोग विधिक कार्यवाही के लिए 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.



ORIGINAL

मूल/No : 136022



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THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 378974-001
तारीख / Date : 09/02/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **BIODEGRADABLE HEXAGONAL BOX USING FOR CONTROLLED AND ROOT-TARGETED FERTILIZER DELIVERY** से संबंधित है, का पंजीकरण, श्रेणी 09-03 में 1.Dr. R. Arun Kumar 2. Dr. Sumathy Rengarajan 3.Dr. G. Rajasekhar Reddy, 4.Dr. Y. Sasikumar 5.Ms. Sowndarya K, 6.Dr. K. Ashokkumar, 7.Dr. P. Arjun 8.Dr. S. Azhagumadhavan, 9.Dr. A.Bakrudeen Ali Ahmed, 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 09-03 in respect of the application of such design to **BIODEGRADABLE HEXAGONAL BOX USING FOR CONTROLLED AND ROOT-TARGETED FERTILIZER DELIVERY** in the name of 1.Dr. R. Arun Kumar 2. Dr. Sumathy Rengarajan 3.Dr. G. Rajasekhar Reddy, 4.Dr. Y. Sasikumar 5.Ms. Sowndarya K, 6.Dr. K. Ashokkumar, 7.Dr. P. Arjun 8.Dr. S. Azhagumadhavan, 9.Dr. A.Bakrudeen Ali Ahmed,.

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

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

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निर्गमन की तारीख/Date of Issue : 17/05/2023

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.

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 529

Bezeichnung:

Eine Zusammensetzung zur Synthese von Ag-dotierten CuO- und SnO₂-
Nanopartikeln

IPC:

C01G 19/02

Inhaber/Inhaberin:

Murugadoss, Govindhasamy, Dr., Villupuram, Tamil Nadu, IN
Parasuraman, Kuppusami, Dr., Kancheepuram, Tamil Nadu, IN
Salla, Sunitha, Dr., Chennai, Tamil Nadu, IN

Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, IN

Tag der Anmeldung:

24.06.2022

Tag der Eintragung:

08.07.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

Cornelia Rudloff-Schäffer

München, 08.07.2022



Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 356

Bezeichnung:

Ein System zur Synthese von ZIN(Sn)-dekorierten Eisenstoffoxid(Fe_2O_3)-
Nanopartikeln zur elektrochemischen Bestimmung von Hydrazin

IPC:

B82B 3/00

Inhaber/Inhaberin:

Jayalakshmi, Dandu Shanmugam, Dr., Chennai, Tamil Nadu, IN
Murugadoss, Govindasamy, Dr., Villupuram District, Tamilnadu, IN
Parasuraman, Kuppusami, Dr., Kancheepuram, Tamilnadu, IN
Salla, Sunitha, Dr., Chennai, Tamil Nadu, IN

Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, IN

Tag der Anmeldung:

15.06.2022

Tag der Eintragung:

22.07.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 22.07.2022



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341032376 A

(19) INDIA

(22) Date of filing of Application :08/05/2023

(43) Publication Date : 16/06/2023

(54) Title of the invention : METHOD FOR PERFORMANCE OF FACILE ROUTE OF HETEROSTRUCTURE CEO₂-CUO NANOCOMPOSITE FOR PEROVSKITE SOLAR CELLS

(51) International classification	:G01N 335690, H01L 510000, H01L 514200, H01L 514400, H04W 280200	(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, jeppiaar Nagar, Chennai, PIN-600119 Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR. MURUGADOSS GOVINDHASAMY Address of Applicant :Scientist-E, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India PIN-600119 -----
(87) International Publication No	: NA	2)Dr.T. SASIPRABA Address of Applicant :Vice Chancellor, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India PIN-600119 -----
(61) Patent of Addition to Application Number	:NA	3)Dr. SUNITHA SALLA Address of Applicant :Assistant Professor, Department of Chemistry, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Accordingly, embodiments herein disclose a method for performance of facile route of heterostructure CeCh-CuO nanocomposite for perovskite solar cells. The method involves dissolving 0.005 mol Ce(NO)₃.6H₂O in 50 mL deionized water under stirring at room 80°C. Followed by, subsequently dropping PVP (lg) into the dissolved solution; and adding drop wise 50 mL of NaOH (2g) solution into the above solution. Further, the proposed method may involve stirring the mixture for about 1h, and adding 0.001 mol of Cu(CO₂CH₃)₂.H₂O solution into the stirred reaction solution. The resultant solution is continuously stirred for 2 hrs; and the residual is removed from the colloidal solution by repeat washing with DI water, acetone, ethanol and then dried at 120°C.

No. of Pages : 27 No. of Claims : 3

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 699

Bezeichnung:

Ein auf künstlicher Intelligenz basierendes Deep-Learning-Netzwerk-
Rahmengerät für Zielaufgaben

IPC:

G06T 1/20

Inhaber/Inhaberin:

Anand, Kumar Chauhan, Sugar Land, TX, US
Durairaj, Muruganandam, Chennai, Tamil Nadu, IN
Jayapal, Jayapriya, Chennai, Tamil Nadu, IN

Tag der Anmeldung:

04.07.2022

Tag der Eintragung:

27.07.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

Cornelia Rudloff-Schäffer

München, 27.07.2022



Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 700

Bezeichnung:

Blockkettenbasiertes Internet der Dinge bereichsübergreifendes
Verifikationssystem

IPC:

G06F 21/31

Inhaber/Inhaberin:

Anand, Kumar Chauhan, Sugar Land, TX, US
Durairaj, Muruganandam, Chennai, Tamil Nadu, IN
Jayapal, Jayapriya, Chennai, Tamil Nadu, IN

Tag der Anmeldung:

04.07.2022

Tag der Eintragung:

04.08.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer



München, 04.08.2022

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 105 378

Bezeichnung:

Eine auf dem Internet der Dinge (IoT) basierende Planverwaltungs- und
Bauvorrichtung der vierten Dimension

IPC:

G01S 17/88

Inhaber/Inhaberin:

Arvindan, Sivasuriyan, Chennai, Tamil Nadu, IN
Dhanasingh, Sivalinga Vijayan, Chennai, Tamil Nadu, IN
Jayapriya, Jayapal, Chennai, Tamil Nadu, IN
Muruganandam, Durai Raj, Chennai, Tamil Nadu, IN
Nirmala, Ramar, Chennai, Tamil Nadu, IN
Parthiban, Devarajan, Kanchipuram, Tamil Nadu, IN
Ramesh, Nagalingam, Chennai, Tamil Nadu, IN
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, Chennai, Tamil
Nadu, IN

Tag der Anmeldung:

26.09.2022

Tag der Eintragung:

07.02.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior



München, 07.02.2023

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2023 100 880

Bezeichnung:

IoT-Geräte-Management-Visualisierung

IPC:

G08C 19/00

Inhaber/Inhaberin:

Anilkumar, Sukumaran, Chennai, Tamil Nadu, IN
Anil Kumar, Thankappan, Chennai, Tamil Nadu, IN
Jayapriya, Jayapal, Chennai, Tamil Nadu, IN
Krishaant, Sathish Kumar, Chennai, Tamil Nadu, IN
Kumar, Hari, Thirukkalukundram, IN
Muruganandam, Durai Raj, Chennai, Tamil Nadu, IN
Raguraman, Dhamodaran, Chennai, Tamil Nadu, IN

Tag der Anmeldung:

24.02.2023

Tag der Eintragung:

09.03.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior
München, 09.03.2023





ORIGINAL

मूल/No : 132768



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	361604-001
तारीख / Date	:	31/03/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **A SOLAR POWERED PUBLIC SITTING FURNITURE** से संबंधित है, का पंजीकरण, श्रेणी **06-01** में 1.Dr.D.S.Jayalakshmi 2. Ms.M.Prasanna Jeyanthi 3.Dr.H.Girija Bai 4.Dr.D.Hemanand के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

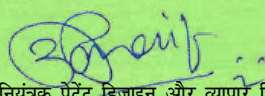
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **06-01** in respect of the application of such design to **A SOLAR POWERED PUBLIC SITTING FURNITURE** in the name of 1.Dr.D.S.Jayalakshmi 2. Ms.M.Prasanna Jeyanthi 3.Dr.H.Girija Bai 4.Dr.D.Hemanand.

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

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

INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 10/04/2023


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.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016556 A

(19) INDIA

(22) Date of filing of Application :13/03/2023

(43) Publication Date : 31/03/2023

(54) Title of the invention : MODELING AND FORECASTING USING AUTO REGRESSIVE INTEGRATED MOVING AVERAGE

(51) International classification :A61P 110800, A61P 253600, G06F 302000, G06Q 100400, G08G 010950

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

(87) International Publication No : NA

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

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

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2)Dr. VIDHYA M

3)Dr. GEETHAMALINI S

4)Dr. BHUVANESWARI K

5)Dr. VELANKANNI A

6)Dr. KIRUBHASHANKAR C K

7)Dr. IMMANUEL Y

8)Dr. MUNIAPPAN P

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. PRIYADHARSHINI E

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Address of Applicant :ASSISTANT PROFESSOR, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, TAMIL NADU, INDIA. -----

8)Dr. MUNIAPPAN P

Address of Applicant :ASSISTANT PROFESSOR, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, TAMIL NADU, INDIA. -----

(57) Abstract :

Autocorrelation (ACF) and Partial autocorrelation (PACF) functions had been envisioned to help in identifying appropriate orders of the Autoregressive model of order p (AR) and Moving Average model of order q (MA). The Bayesian Information Criteria (BIC) test was done on numerous models and it was found the model ARIMA (1, 1, 0) has the least BIC value. Ljung Q statistics data showed that there was no serial correlation across all the models. The standard error measures such as MSE, MAE, MAPE was calculated for the forecasting rates and was found to be minimal.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341006632 A

(19) INDIA

(22) Date of filing of Application :01/02/2023

(43) Publication Date : 24/02/2023

(54) Title of the invention : ELECTRICITY DEMAND FORECASTING IN INDUSTRIAL AND RESIDENTIAL FACILITIES USING ENSEMBLE MACHINE LEARNING

(51) International classification : C06Q0030020000, C06F0016953500, C06Q0050060000, C06Q0050200000, C06N0005020000
(86) International Application No PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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2)Mrs. M. I. Mary Metilda

3)SARAVANARAJ KUTTAE JAYAPRAKASH

4)Dr. T. Kamaraj

5)KEMPE GOWDA M

6)B RANJITHA

7)Dr. S. Suganya

8)Dr. Banibrata Bag

9)Dr. K RAMA

10)Dr. Avsankar Roy

11)Dr. I. ALAGARASAN

12)GANGA P

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. FRANKLIN THAMIL SELVI M. S

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY) JEPPIAAR NAGAR, RAJIV GANDHI SALAI, OMR, CHENNAI CHENGALPATTU Pin: 600 119. TAMILNADU, INDIA -----

2)Mrs. M. I. Mary Metilda

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY) JEPPIAAR NAGAR, RAJIV GANDHI SALAI, OMR, CHENNAI CHENGALPATTU Pin: 600 119. TAMILNADU, INDIA -----

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Country: OMAN -----

4)Dr. T. Kamaraj

Address of Applicant :Assistant Professor Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai Chengalpattu Pin: 600 119. Tamilnadu, India -----

5)KEMPE GOWDA M

Address of Applicant :ASSOCIATE PROFESSOR VEMANA INSTITUTE OF TECHNOLOGY, No. 1, MAHAYOGI VEMANA ROAD, 3rd BLOCK KORAMANGALA, BENGALURU Pin: 560034 BENGALURU INDIA -----

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Address of Applicant :ASSISTANT PROFESSOR SREE VIDYANIKETHAN ENGINEERING COLLEGE, MOHAN BABU UNIVERSITY, A RANGAMPETA, TIRUPATI Pin :517501 ANDHRA PRADESH INDIA -----

7)Dr. S. Suganya

Address of Applicant :Assistant Professor, Department of Statistics PSG College of Arts & Science Avinashi Road, Civil Aerodrome post, Coimbatore Pin: 641014 Tamilnadu India -----

8)Dr. Banibrata Bag

Address of Applicant :Assistant Professor Department of ECE Haldia Institute of Technology Haldia, Purba Medinipur, India Pin: 721657 West Bengal India -----

9)Dr. K RAMA

Address of Applicant :IQAC Coordinator ECT LOYOLA ACADEMY Old Alwal, Secunderabad Osmania University Medical Mallakigiri Pin: 500010 Telangana India -----

10)Dr. Avsankar Roy

Address of Applicant :Associate Professor Department of Electronics and Communication Engineering Haldia Institute of Technology ICARE Complex, HIT Campus, P.O. Hatibheria, Haldia, Purba Medinipur, Pin: 721657 West Bengal India -----

11)Dr. I. ALAGARASAN

Address of Applicant :PROFESSOR ANNAPOORANA ENGINEERING COLLEGE NH 47, SANKARI MAIN ROAD PERIA SEERACAPADI SALEM Pin: 636308 TAMILNADU INDIA -----

12)GANGA P

Address of Applicant :ASSISTANT PROFESSOR ANNAPOORANA ENGINEERING COLLEGE NH 47, SANKARI MAIN ROAD PERIA SEERACAPADI SALEM Pin:636308 TAMILNADU INDIA -----

(57) Abstract :

ELECTRICITY DEMAND FORECASTING IN INDUSTRIAL AND RESIDENTIAL FACILITIES USING ENSEMBLE MACHINE LEARNING: Abstract: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of artificial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of artificial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of artificial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Artificial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society Forecasting power demand is essential in the electric industry since it supports employees in making decisions on the operation and development of power systems. Electricity providers utilize a variety of methodologies to anticipate future electricity consumption. These may be utilized for short-term, medium-term, and long-term forecasting. However, complex interactions between weather and human lifestyle led to an increase in energy use. Traditional forecasting techniques are ineffective in such a turbulent setting. Instead, innovative methods should be implemented. It is crucial to comprehend why demand fluctuates and what factors affect it. This study demonstrates how machine learning can be applied to energy demand forecasting.



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>)



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

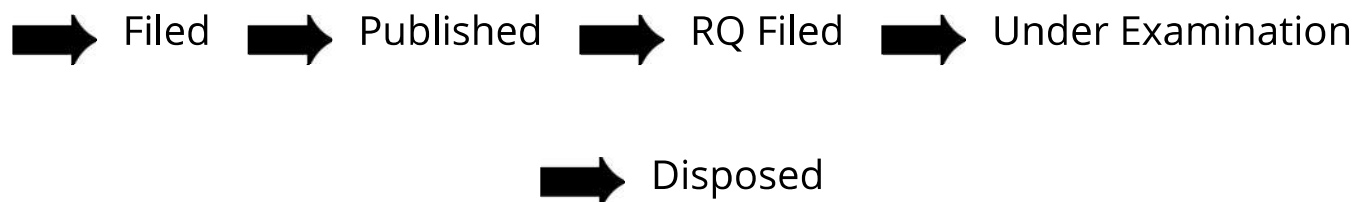
Application Details

APPLICATION NUMBER	202341001238
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/01/2023
APPLICANT NAME	1 . Dr.S.CYNTHIYA MARGARET INDRANI 2 . Dr.M.KAVITHA 3 . Ms.D.L.YAMINI LATHA 4 . Dr. N. SRINIVASAN
TITLE OF INVENTION	MACHINE LEARNING BASED APPROACHES TO COUPLE NUMERICAL SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/01/2023

Application Status

APPLICATION STATUS

Awaiting Request for Examination

[View Documents](#)

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



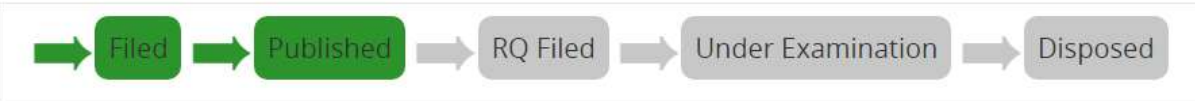
Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details	
APPLICATION NUMBER	202341016399
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/03/2023
APPLICANT NAME	1 . Dr. Kuparala Venkata Vidyasagar 2 . Dr. M. Mallika 3 . Dr. M. Nirmala 4 . Dr. Nellore Manoj Kumar 5 . Mr. Keshav Raghunath Kale
TITLE OF INVENTION	An algebraic method for solving combinatorial optimization problems
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/03/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

			View Documents
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ORIGINAL

मूल/No : 138042



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

डिजाइन सं. / Design No. : 382112-001
तारीख / Date : 22/03/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MACHINE LEARNING BASED STRESS DETECTION DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 10-05 में 1.Dr. S. Hemajothi 2. Ms. R Sakthi Prabha 3.Dr. V.W.J. Anand 4.Mr. V.Kalist 5.Dr. A. Veeramuthu 6.Dr.R. Thandaiah Prabu के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

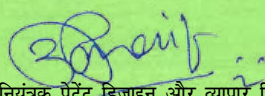
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-05 in respect of the application of such design to **MACHINE LEARNING BASED STRESS DETECTION DEVICE** in the name of 1.Dr. S. Hemajothi 2. Ms. R Sakthi Prabha 3.Dr. V.W.J. Anand 4.Mr. V.Kalist 5.Dr. A. Veeramuthu 6.Dr.R. Thandaiah Prabu.

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

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

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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 25/05/2023


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.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241071543 A

(19) INDIA

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

(43) Publication Date : 30/12/2022

(54) Title of the invention : EXPERT SYSTEM BASED MATHEMATICAL MODEL FOR HUMANOID ROBOT DESIGNING

(51) International classification :G06K009620000, G06N0003000000, G06N0005040000, G06N0003080000, G16H0030200000 (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. S. SATHEES KUMAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, INSTITUTE OF AERONAUTICAL ENGINEERING, HYDERABAD — 500 043. — 2)B. THENMOZHI 3)PROF SARANGE SHREEPAD 4)DR. V. SELVI 5)V. JAYALAKSHMI 6)DR. C. KAVITHA 7)MOHAMMAD SHAHID 8)DR. R. ANTLINE NISHA 9)GEETHAMANI R 10)DR. N. JAYA CHITRA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR. S. SATHEES KUMAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, INSTITUTE OF AERONAUTICAL ENGINEERING, HYDERABAD — 500 043. — 2)B. THENMOZHI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MATHEMATICS, SRI SAI RAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI - 44. — 3)PROF SARANGE SHREEPAD Address of Applicant :ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING, DR. D.Y.PATIL SCHOOL OF ENGINEERING AND TECHNOLOGY LOHGAON, PUNE, MAHARASHTRA. — 4)DR. V. SELVI Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, MOTHER TERESA WOMEN'S UNIVERSITY, KODAIKANAL 624101. — 5)V. JAYALAKSHMI Address of Applicant :PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI. — 6)DR. C. KAVITHA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI. — 7)MOHAMMAD SHAHID Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRICAL ENGINEERING, GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA, UTTAR PRADESH - 201310. — 8)DR. R. ANTLINE NISHA Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, ST JOSEPH'S INSTITUTE TECHNOLOGY, CHENNAI-600119. — 9)GEETHAMANI R Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT ELECTRICAL AND ELECTRONICS ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE. — 10)DR. N. JAYA CHITRA Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF CHEMICAL ENGINEERING, DR. M.G.R EDUCATIONAL AND RESEARCH INSTITUTE(UNIVERSITY), MADURAI VOYAL, CHENNAI-600 095. —
--	---

(57) Abstract :
Abstract: This invention is an Expert System based Mathematical Model for Humanoid Robot Designing employing user input and Data acquisition. Input is collected from a user via a mobile computing device. The input parameters are classified into height, width, breadth etc. The Electronic Computing Unit is at the data receiving end of both the Mobile and DAQ. All the data collected and computed is sent to the server for this application employing the IoT module integrated with the Electronic Control Unit. Here a Support Vector Machine and K Means based ensemble machine learning approach is employed. Once sufficient data has been collected and classification based profiling has been done, it is given as input to 3D Printer. According to the user defined Filling ratio and the other parameters the 3D printer prints and produces a model for Humanoid Robot.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/12/2022

(21) Application No.202211070169 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : BLEEDING RECOGNITION TECHNIQUE IN WIRELESS CAPSULE ENDOSCOPY IMAGES USING FUZZY LOGIC AND PRINCIPAL COMPONENT ANALYSIS

(51) International classification :A61B0001040000, A61B0001000000, G06T0007000000, G06K0009620000, G06N0003040000
(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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4)SAKSHI TAARESH KHANNA
5)Dr. NEERAJ KUMAR SHARMA
6)Dr. GHANSHYAM VATSA
7)Dr. C. KAVITHA
8)Dr. S. JACKSON
9)Ms. ESHWARI NAGESH MUNDAS
10)Mr. ANUPENDRA SINGH
11)Ms. K. LEELARANI
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(57) Abstract :
In recent years, the wireless capsule endoscope has emerged as the most innovative approach to examine the whole digestive tract. It can detect bleeding, ulcers, tumours, polyps, Crohn's disease, and Crohn's disease quietly. Doctors are under a lot of pressure and duty to review a lot of imaging frames, which takes a lot of time and might lead to mistakes due to human error. A robotic and computerised gadget has been developed to detect blood loss. Many images of the digestive tract are taken using wireless capsule endoscopy. This complicates the manual reading process in a variety of ways. We use convolutional neural networks to locate lesions in WCE images automatically. Even still, there hasn't been as much research on how to detect many lesions in the clinic, and it can be difficult to strike the correct combination of sensitivity and specificity when dealing with multiple lesions. Other methodologies, in addition to fuzzy logic and principal component analysis, are included in the proposed method for diagnosing numerous lesions. This approach swiftly and automatically detects inflammation and blood vessel abnormalities on capsule endoscopic images.

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

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शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 38/2022
ISSUE NO. 38/2022

शुक्रवार
FRIDAY

दिनांक: 23/09/2022
DATE: 23/09/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : Increase Productivity by using an Intelligent Human Resource Management System

(51) International classification :G06Q0010100000, G06Q0010060000, G16H0010200000, C23G0001080000, G06Q0050020000

(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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2)Dr.U.S.Aksharagovind**Name of Applicant : NA****Address of Applicant : NA**

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(57) Abstract :

This paper investigates the relationship between human resource management practices and labor productivity for the iron and steel company. This paper operationally defined human resource practices as recruitment and selection, training and development, performance appraisal, communication, compensation, teamwork and employment security. Also, productivity measured as labor productivity. The data was collected using the questionnaire that consists of questions with 5-points likert scales distributed to our samples of 386 employees. By using a stepwise multiple regression analysis, it is found that, all practices had strong positive correlate and effect on each of labor productivity. This utters the fact the enhancement and serious considerations of the above mentioned determinants of HRMP are the bases the enhancement and enrichment of company productivity in general and in iron and steel company in specific.

No. of Pages : 21 No. of Claims : 4



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341016392 A

(19) INDIA

(22) Date of filing of Application :12/03/2023

(43) Publication Date : 17/03/2023

(54) Title of the invention : WOMEN IN THE NOVELS OF MANJU KAPUR

(51) International classification :A21D 133100; A61K 361850; C07K 144700; G06N 030400; G06N 030800
 (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)Ms. A. Hezeline Mazerella

4)Ms. P. Paulsy Diana

5)Ms. M. Priscilla

6)Ms. G. Lalitha

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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4)Ms. P. Paulsy Diana

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6)Ms. G. Lalitha

Address of Applicant :Research Scholar, Department of English, Sathyabama Institute of Science and Technology, Semmancheri, Chennai - 600119, Tamilnadu, India Chennai

(57) Abstract :

Manju Kapur's fiction is an apology for feminism. Her novels revolve around certain enigmatic issues in the society. As a committed novelist, she deals with such pressing issues in order to create awareness among the reading public that feminism as a cultural concept should be practiced everywhere. Feminism is a desirable necessity in the absence of which the society loses its equilibrium in the relationship between men and women. A woman need not be always a help-mate, but she should be a checkmate, if not always, at times so that she can make her home a better one by offering timely counselling to her husband. Kapur is not a liberal humanist to remain uncommitted in dealing with such embarrassing issues as monogamous heterosexuality, equality in every sphere of life, alternative sex, sexual gratification, extra-uterine child birth, women's intellectuality, marital hindrances, women's emancipation and women's empowerment.

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

The Patent Office Journal No. 11/2023 Dated 17/03/2023



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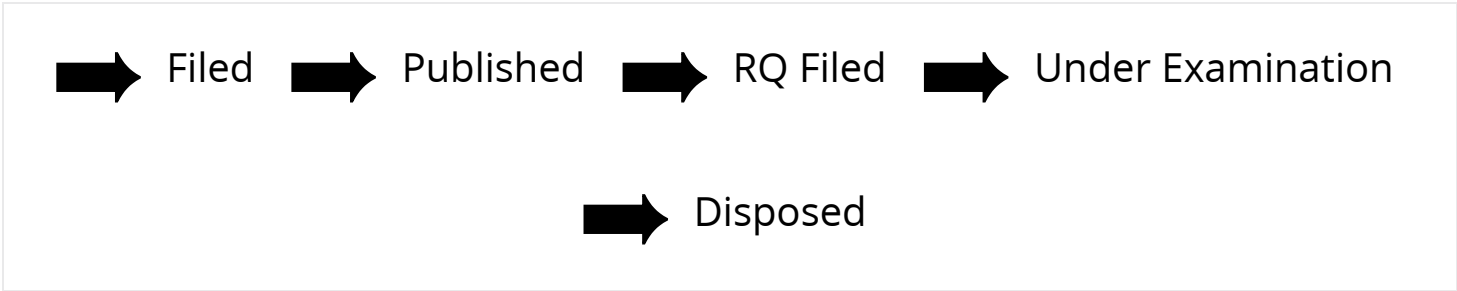
(<http://ipindia.nic.in/index.htm>)

Application Details

APPLICATION NUMBER	202241066161
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/11/2022
APPLICANT NAME	1 . Dr Jayakumar P 2 . Armaan Karim 3 . Rizwana. M 4 . Lethiya Y 5 . Sandra Chandran P S 6 . AnnsFetrica J H 7 . R. Praveena 8 . Kiruthika S 9 . Varmeka U 10 . Deepasree D 11 . Raagavi S 12 . Steffe Faith M J
TITLE OF INVENTION	IMPACT OF ENGLISH IN THE HINDU NEWSPAPER FOR INTERMEDIATE LEARNERS IN CHENNAI DISTRICT
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	cldcresearch@gmail.com
ADDITIONAL-EMAIL (As Per Record)	drkannan3012@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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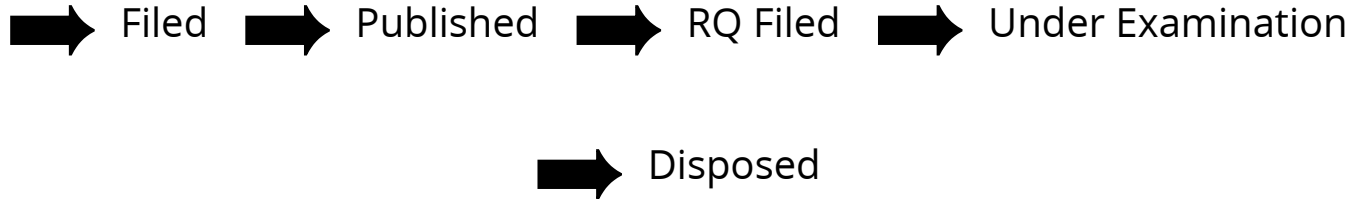
(<http://ipindia.nic.in/index.htm>)

Application Details

APPLICATION NUMBER	202341008950
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/02/2023
APPLICANT NAME	1 . Dr. Aravind B R 2 . Dr. Jayakumar P 3 . Dr. Rajesh K 4 . Dr. Godwin Raj S 5 . Dr. Murugavel S 6 . Ms. K. Pradeepa 7 . Mr. Harishraj A N 8 . Mr. N. Devadhas Prabu 9 . Dr. M. Shanmugathai 10 . Ms. Manibha M. P
TITLE OF INVENTION	AN ANALYSIS OF TECHNOLOGY ASSISTED LANGUAGE LEARNING TO IMPROVE COMMUNICATION SKILLS OF IT EMPLOYEES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	arinnapatent@gmail.com
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/02/2023

Application Status

APPLICATION STATUS

Awaiting Request for Examination[View Documents](#)

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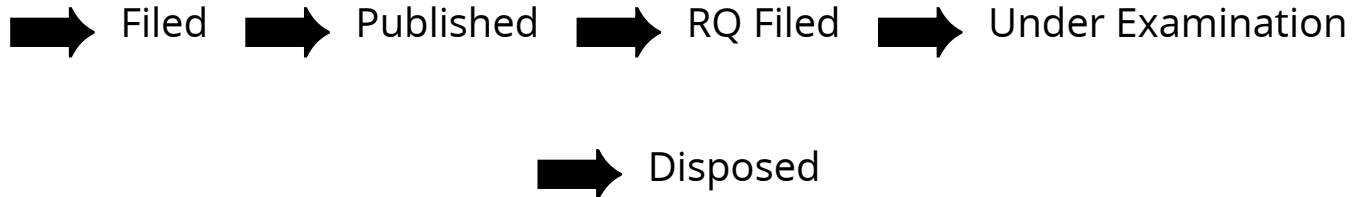
Application Details

APPLICATION NUMBER	202341020616
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/03/2023
APPLICANT NAME	1 . Dr. Ganesh Kumar J 2 . Dr. Ashifakariveliparambil Mohammed Ashraf 3 . Dr. Rupashree Brahma Kumari 4 . Dr. Madalaimuthu A 5 . Dr. Vijay M 6 . Dr. Maya Rathnasabapathy 7 . Dr. Maharishi Ranganathan 8 . Dr. Jayakumar P 9 . Mrs. Archika Johari .P
TITLE OF INVENTION	CASPER INTERVENTION MODEL TO IMPROVE THE SOCIAL SKILLS OF CHILDREN WITH DYSLEXIA
FIELD OF INVENTION	BIO-CHEMISTRY
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/04/2023

Application Status

APPLICATION STATUS

Awaiting Request for Examination

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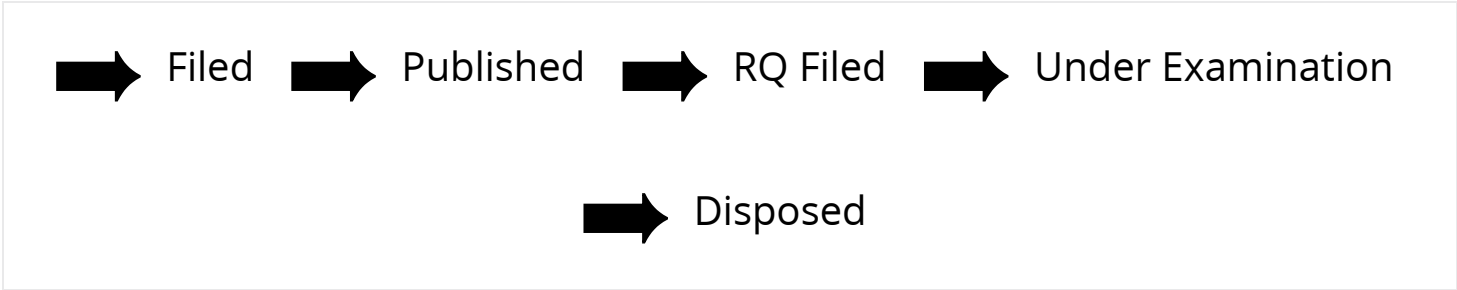
Application Details

APPLICATION NUMBER	202341003285
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/01/2023
APPLICANT NAME	1 . Dr. Aravind B R 2 . Dr. Jayakumar P 3 . Dr. Murugavel S 4 . Dr. Rajesh K 5 . Dr. Godwin Raj S 6 . Ms. K. Pradeepa 7 . Mr. Harishraj A N 8 . Dr. Godwin Raj S
TITLE OF INVENTION	IMPROVING THE ABILITY OF ESL LEARNERS IN TOFEL PREPARATION THROUGH BLENDED LEARNING
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	arinnapatent1@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/01/2023

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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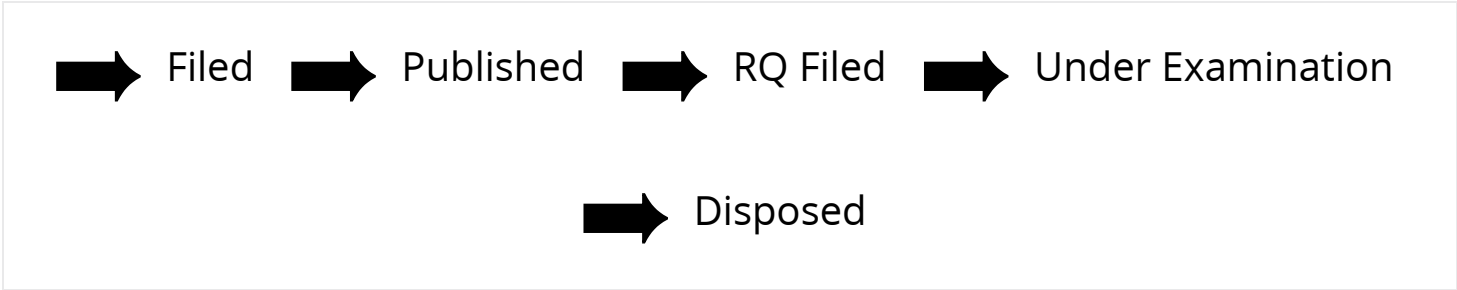
Application Details

APPLICATION NUMBER	202241075729
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/12/2022
APPLICANT NAME	1 . Dr. Jayakumar P 2 . Dr. Jeeva M 3 . Allwyn F 4 . Dr. Ruth Magdalene T 5 . Vinoth A 6 . Esther Hebrews L 7 . Nevisvanan M
TITLE OF INVENTION	A STUDY ON THE SIGNIFICANCE OF ENGLISH AS COMMUNICATION FOR THE MIGRATORY IT EMPLOYEES
FIELD OF INVENTION	ELECTRONICS
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/01/2023

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241050146 A

(19) INDIA

(22) Date of filing of Application :02/09/2022

(43) Publication Date : 09/09/2022

(54) Title of the invention : **THE IMPACT OF SOCIAL MEDIA ON STUDENT'S EDUCATION**

(51) International classification :C01F0011180000, F03D0009250000, A61P0043000000, G06K0009620000, H01L0021780000
(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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5)Dr. Rajesh K

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Address of Applicant : NA

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5)Dr. Rajesh K

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(57) Abstract :

Social media is rapidly changing the communication setting of today's social world. The emergence of social media is significantly influencing the academic life of students. Institutions and academicians use social media to encourage critical thinking, cooperation, and knowledge building. Higher institutions have welcomed social media, allowing students to engage with teachers, peers, and higher authorities. The research examined how social media has affected students' academic lives. The research recommended a qualitative method to evaluate effects. Ten people were interviewed for two weeks. After researching the phenomena of interest to the study and transcribing the participants' comments, the findings show that social media is extensively utilized by students at higher institutions and that participants believe social media contributes significantly to the development of their academic life.

No. of Pages : 10 No. of Claims : 7



Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 048

Bezeichnung:

Ein System zur Beschichtung der ZnO-Oberfläche mit winzigen Nanopartikeln auf Sulfid-Basis zur Verbesserung der photokatalytischen Entgradungseffizienz

IPC:

B82B 1/00

Inhaber/Inhaberin:

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Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, IN

Tag der Anmeldung:

31.05.2022

Tag der Eintragung:

10.06.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 10.06.2022





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GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 044149842
SL No :



पेटेंट सं. / Patent No. : 421428
आवेदन सं. / Application No. : 201841022285
फाइल करने की तारीख / Date of Filing : 14/06/2018
पेटेंटी / Patentee : GOBI SARAVANAN KALIARAJ

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A SINGLE STEP METHOD OF DEPOSITING ZIRCONIA COATING ON METALLIC SUBSTRATE FOR CORROSION PROTECTION** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2018 के चौदहवें 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 SINGLE STEP METHOD OF DEPOSITING ZIRCONIA COATING ON METALLIC SUBSTRATE FOR CORROSION PROTECTION** as disclosed in the above mentioned application for the term of 20 years from the 14th day of June 2018 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 13/02/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2020 के चौदहवें 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 14th day of June 2020 and on the same day in every year thereafter.



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THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 044153104
SL No :



पेटेंट सं. / Patent No. : 430628
आवेदन सं. / Application No. : 202241036040
फाइल करने की तारीख / Date of Filing : 23/06/2022
पेटेंटी / Patentee : SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A METHOD FOR PREPARING BIMETALLIC COATING FOR ANTIBIOFOULING AND CORROSION PROTECTION** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2022 के तेइसवें 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 METHOD FOR PREPARING BIMETALLIC COATING FOR ANTIBIOFOULING AND CORROSION PROTECTION as disclosed in the above mentioned application for the term of 20 years from the 23rd day of June 2022 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 28/04/2023
Date of Grant :

Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, जून 2024 के तेइसवें 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 23rd day of June 2024 and on the same day in every year thereafter



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GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
जी.एस.टी.रोड, गिन्डी / G.S.T.Road, Guindy,
चेन्नई / Chennai- 600032
दूरभाष / Tel. No. : (091)(044)22502081-84
फैक्स / Fax: 044 22502066

Email/ई मेल : Chennai-patent@nic.in
वेबसाइट /Website: <http://ipindia.nic.in>

सं.संख्या/Ref.No /आवेदन संख्या/Application No/ 201941013796

दिनांक/Date of Dispatch/Email: 31/03/2021

सेवा मे,/To

Dr.A.MADAN KUMAR,

Dr.A.MADAN KUMAR, SCIENTIST "C" CENTRE FOR NANOSCIENCE & NANOTECHNOLOGY,

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY), JEPPIAAR

NAGAR, RAJIV GANDHI ROAD, CHENNAI-600 119, TAMILNADU, INDIA. madankumar@sathyabama.ac.in

Email : madankumar@sathyabama.ac.in

विषय: एकस्व अधिनियम, 1970 की धारा 12 व 13 तथा एकस्व नियम, 2003 के अधीन परीक्षण रिपोर्ट

Subject: Examination report under sections 12 & 13 of the Patents Act, 1970 and the Patents Rules, 2003.

1. उपर्युक्त आवेदन के संदर्भ में परीक्षण रिपोर्ट (अर्थात्, एकस्व नियम, 2003 (यथा संशोधित) के नियम 24-ख(3) में विनिर्दिष्ट आपत्तियों का प्रथम कथन) इसके साथ संलग्न है। यह रिपोर्ट परीक्षण हेतु अनुरोध दिनांक 05/04/2019 के उत्तर में जारी की गयी है। परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि (अर्थात्, इस रिपोर्ट में लगाई गयी सभी आवश्यकताओं के अनुपालन की अवधि) आवेदक को आपत्तियों का प्रथम कथन जारी होने की तिथि से छः माह है।

Please find enclosed herewith an Examination Report (i.e. a first statement of objections as specified in Rule 24-B(3) of The Patents Rules, 2003 (as amended)) in respect of above-mentioned application. This report is issued with reference to a request for examination dated 05/04/2019. The last date for filing a response to the Examination Report (i.e. a period to comply with all the requirements raised in this examination report) is six months from the date on which the first statement of objections is issued to the Applicant.

2. यदि रिपोर्ट के अंतर्गत लगाई गयी आवश्यकताओं का अनुपालन एकस्व नियम, 2003 (यथा संशोधित) के नियम 24 ख(5) में विनिर्दिष्ट अवधि के भीतर अंदर अनुपालन नहीं किया गया तो एकस्व अधिनियम 1970 की धारा 21(1) के अधीन वर्तमान आवेदन को परित्यक्त माना जाएगा।
The instant application shall be deemed to have been abandoned under Section 21(1) of The Patents Act, 1970, unless all the requirements raised in this report are complied with in the period as specified in Rule 24-B (5) of The Patents Rules, 2003 (as amended).
3. आपका ध्यान एकस्व नियम, 2003 के नियम 24 ख(6) के प्रावधानों की ओर भी आमंत्रित किया जाता है।
Your attention is also invited to the provisions of Rule 24-B (6) of the Patents Rules 2003.
4. आपको सलाह दी जाती है कि शीघ्र निपटान हेतु अपना उत्तर शीघ्र प्रस्तुत करें।
You are advised to file the reply at the earliest for early disposal.

Parvathy S

नियंत्रक पेटेंट/ Controller of Patents

संलग्न/Enclosed: अपरोक्त अनुसार/As above

टिप्पणी: यह इलेक्ट्रॉनिक रूप से उत्पन्न रिपोर्ट है।

NOTE: This is an electronically generated report.

सभी पत्राचार नियंत्रक एकस्व को उपरोक्त लिखित पते पर भेजा जाये।

All communications should be sent to the Controller of Patents at the above mentioned address.

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 048

Bezeichnung:

Ein System zur Beschichtung der ZnO-Oberfläche mit winzigen Nanopartikeln
auf Sulfid-Basis zur Verbesserung der photokatalytischen Entgradungseffizienz

IPC:

B82B 1/00

Inhaber/Inhaberin:

Hazra, Subhenjit, Dr., Dist. Bankura, West Bengal, IN
Mani, Rajasekar, Dr., Thiruvannamalai Dist., Tamilnadu, IN
Murugadoss, Govindasamy, Dr., Villupuram District, Tamilnadu, IN
Parasuraman, Kuppusami, Dr., Kancheepuram, Tamilnadu, IN
Salammal, Shyju Thankaraj, Dr., Kollemcode, Tamilnadu, IN
Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, IN

Tag der Anmeldung:

31.05.2022

Tag der Eintragung:

10.06.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 10.06.2022



Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 103 526

Bezeichnung:

Ein System zur Entwicklung eines Symmetrischen Festkörper-
Superkondensators unter Verwendung eines von Graphen abgeleiteten Nickel-
Kupfer-Metalloxid-Nanokomposits

IPC:

H01G 11/46

Inhaber/Inhaberin:

Manavalan, Rajesh Kumar, Dr., Vandavasi, Tamil Nadu, IN
Mani, Rajasekar, Dr., Thiruvannamalai, Tamil Nadu, IN
Murugadoss, Govindhasamy, Dr., Villupuram, Tamil Nadu, IN
Narayanasamy, Anandhan, Dr., Karaikudi, IN
Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, IN

Tag der Anmeldung:

24.06.2022

Tag der Eintragung:

18.08.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 18.08.2022



Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 106 988

Bezeichnung:

Ein System zur Synthese von morphologisch abgestimmten Nanostrukturen aus
Nickeloxid für Hochleistungs-Superkondensatoren

IPC:

B82B 3/00

Inhaber/Inhaberin:

Kamath, Manjunath Srinivas, Dr., Chennai, Tamil Nadu, IN
Krishnan, Karthik, Dr., Sivaganga, Tamil Nadu, IN
Mani, Rajasekar, Dr., Thiruvannamalai, Tamil Nadu, IN
Mathivanan, Parthibavarman, Dr., Salem, Tamil Nadu, IN
Murugadoss, Govindhasamy, Dr., Villupuram, Tamil Nadu, IN
Murugan, Dakshana, Dr., Namakkal, Tamil Nadu, IN
Sathyabama University, Chennai, Tamil Nadu, IN
Subramani, Meyvel, Dr., Salem, Tamil Nadu, IN

Tag der Anmeldung:

14.12.2022

Tag der Eintragung:

11.01.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 11.01.2023



PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
G.S.T. Road, Guindy, Chennai-600032
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail : Chennai-patent@nic.in
Web Site : www.ipindia.gov.in



CHALLAN : TR-5
DOCKET NO:15342

Date/Time : 14/02/2023

To,
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY) JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI 600 119, TAMIL NADU,
INDIA. vc@sathyabama.ac.in

Agent Number:

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	6600	ORDINARY APPLICATION	202341009593	FORMULATED HEAT INACTIVATED COELOMIC FLUID BASED SERUM FREE MEDIA FOR ADHERENT PRIMARY CELLS AND CEL	1750
2		E-2/594/2023-CHE	202341009593	Form2	0
3		E-3/4094/2023-CHE	202341009593	Form3	0
4		E-5/708/2023-CHE	202341009593	Form5	0
5	6600	R20234005442	202341009593	Form18	4400
6		E-106/825/2023-CHE	202341009593	Form28	0
7		E-101/3336/2023-CHE	202341009593	Others(EDUCATIONAL INSTITUTION ELIGIBILITY DOCUMENT)	0
Total :					6150

Received a sum of Rs. 6150 (Rupees Six Thousand One Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash	---	---	---	6150

Note: This is electronically generated receipt hence no signature required.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2022

(21) Application No.202241036037 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : **A DEEP ROOT WATERING SYSTEM**

(51) International classification :A01G0029000000, A01G0025160000, C05D0009020000, A01G0027000000, C05F0011080000
(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)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Address of Applicant :RAJIV GANDHI SALAI, OMR ROAD, JEPPIAAR NAGAR, CHENNAI-600119 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. S. Jackson Durairaj

Address of Applicant :Regeneration and Stem Cell Biology Lab, Centre for Molecular and Nanomedical Sciences, International Research Centre, Sathyabama Institute of Science and Technology (Deemed to be University), Chennai-600 119, Tamil Nadu, India. -----

2)Mr. R. Kamarajan

Address of Applicant :Regeneration and Stem Cell Biology Lab, Centre for Molecular and Nanomedical Sciences, International Centre for Nano Science and Nanotechnology, International Research Centre, Sathyabama Institute of Science and Technology (Deemed to be University), Chennai - 600 119, Tamil Nadu, India -----

3)Dr. Kunal Biswas

Address of Applicant :Regeneration and Stem Cell Biology Lab, Centre for Molecular and Nanomedical Sciences, International Centre for Nano Science and Nanotechnology, International Research Centre, Sathyabama Institute of Science and Technology (Deemed to be University), Chennai - 600 119, Tamil Nadu, India -----

(57) Abstract :

The present invention relates to a deep root watering system for amelioration of water availability to the root to enhance the value of the water. The present invention consists of a 40 micron size Aluminum mesh with inlet cap (101), Water flowing cylinder (102), outside chamber (104) with 2mm in thickness, inner chamber (105) with 1.5 mm in thickness, opening nozzle (106) is used as a source for water to reach the roots. The said watering unit acts as a path to maintain the moisture condition of the soil near the root. The Mesh holding fertilizer (103) is a means to hold the fertilizer, thereby providing nutrients to • the root.

No. of Pages : 9 No. of Claims : 1



ORIGINAL

मूल/No : 118674



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THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 369011-001
तारीख / Date : 10/08/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **VOLATILE COMPOUND EXTRACTION APPARATUS** से संबंधित है, का पंजीकरण, श्रेणी **24-02** में 1.Dr. V. Vijaya Baskar 2. Mrs. K. Lakshmi Divya 3.Dr. E. Logashanmugam 4.Dr. M.S. Godwin Premi 5.Dr. Sankar Ganesh Devaraj 6.Mr. C. Kumar 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 **VOLATILE COMPOUND EXTRACTION APPARATUS** in the name of 1.Dr. V. Vijaya Baskar 2. Mrs. K. Lakshmi Divya 3.Dr. E. Logashanmugam 4.Dr. M.S. Godwin Premi 5.Dr. Sankar Ganesh Devaraj 6.Mr. C. Kumar.

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

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

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निर्गमन की तारीख/Date of Issue : 22/11/2022

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.



ORIGINAL

मूल/No : 126057



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THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 369011-002
तारीख / Date : 10/08/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **VOLATILE COMPOUND EXTRACTION APPARATUS WITH HEAT PLATE** से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr V Vijaya Baskar 2. Mrs K Lakshmi Divya 3.Dr E Logashanmugam 4.Dr M.S Godwin Premi 5.Dr Sankar Ganesh Devaraj 6.Mr C Kumar 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 **VOLATILE COMPOUND EXTRACTION APPARATUS WITH HEAT PLATE** in the name of 1.Dr V Vijaya Baskar 2. Mrs K Lakshmi Divya 3.Dr E Logashanmugam 4.Dr M.S Godwin Premi 5.Dr Sankar Ganesh Devaraj 6.Mr C Kumar.

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

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

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निर्गमन की तारीख/Date of Issue : 19/01/2023

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.



ORIGINAL

मूल/No : 122197



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

डिजाइन सं. / Design No.	:	370038-001
तारीख / Date	:	29/08/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **PORTABLE WATER FILTER WITH DUAL STORAGE TANK** से संबंधित है, का पंजीकरण, श्रेणी **23-01** में 1.M.K Vijayalakshmi 2. Dr. B Prabhu Dass Batvari, 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 **23-01** in respect of the application of such design to **PORTABLE WATER FILTER WITH DUAL STORAGE TANK** in the name of 1.M.K Vijayalakshmi 2. Dr. B Prabhu Dass Batvari,.

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

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

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निर्गमन की तारीख/Date of Issue : 29/12/2022

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.



ORIGINAL

मूल/No : 125413



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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	370037-001
तारीख / Date	:	29/08/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **WATER FILTER** से संबंधित है, का पंजीकरण, श्रेणी 23-01 में 1.Dr B Prabhu Dass Batvari 2. M.K Vijayalakshmi 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 23-01 in respect of the application of such design to **WATER FILTER** in the name of 1.Dr B Prabhu Dass Batvari 2. M.K Vijayalakshmi.

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

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

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निर्गमन की तारीख/Date of Issue : 13/01/2023

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.



ORIGINAL

मूल/No : 128070



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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	376108-001
तारीख / Date	:	24/12/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **PLANT MONITORING POT USING IOT** से संबंधित है, का पंजीकरण, श्रेणी **10-05** में 1.Dr. P. Mohana 2. Dr. B.Prabhu Dass Batvari 3.Dr. P.Anuradha 4.Dr. M.Ammaan 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 **PLANT MONITORING POT USING IOT** in the name of 1.Dr. P. Mohana 2. Dr. B.Prabhu Dass Batvari 3.Dr. P.Anuradha 4.Dr. M.Ammaan.

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

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

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

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 निबंधों 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.



ORIGINAL

मूल/No : 133896



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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	376557-001
तारीख / Date	:	02/01/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MOTOR CYCLE HEAD LIGHT ASSEMBLY WITH SOLAR POWERD MOBILE PHONE CHARGER** से संबंधित है, का पंजीकरण, श्रेणी 12-11 में 1.Dr. B. Prabhu Dass Batvari 2. Dr. P. Mohana 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 12-11 in respect of the application of such design to **MOTOR CYCLE HEAD LIGHT ASSEMBLY WITH SOLAR POWERD MOBILE PHONE CHARGER** in the name of 1.Dr. B. Prabhu Dass Batvari 2. Dr. P. Mohana.

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

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

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निर्गमन की तारीख/Date of Issue : 26/04/2023

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 निबंधों 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.



ORIGINAL

मूल/No : 134285



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CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	376559-001
तारीख / Date	:	02/01/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MOTOR CYCLE HEAD LIGHT ASSEMBLY WITH DUAL CONVENTIONAL POWERED MOBILE PHONE CHARGER** से संबंधित है, का पंजीकरण, श्रेणी 12-11 में 1.Dr. P. Mohana 2. Dr. B. Prabhu Dass Batvari 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 12-11 in respect of the application of such design to **MOTOR CYCLE HEAD LIGHT ASSEMBLY WITH DUAL CONVENTIONAL POWERED MOBILE PHONE CHARGER** in the name of 1.Dr. P. Mohana 2. Dr. B. Prabhu Dass Batvari.

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

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

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निर्गमन की तारीख/Date of Issue : 03/05/2023

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 निबंधों 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.



ORIGINAL

मूल/No : 128087



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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	372283-001
तारीख / Date	:	10/10/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AEROSOL PARTICLE MEASURING DEVICE** से संबंधित है, का पंजीकरण, श्रेणी **10-04** में Dr M Roja Raman, Scientist, 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 **AEROSOL PARTICLE MEASURING DEVICE** in the name of Dr M Roja Raman, Scientist,.

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

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

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

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.



ORIGINAL

मूल/No : 128070



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CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 376108-001
तारीख / Date : 24/12/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **PLANT MONITORING POT USING IOT** से संबंधित है, का पंजीकरण, श्रेणी **10-05** में 1.Dr. P. Mohana 2. Dr. B.Prabhu Dass Batvari 3.Dr. P.Anuradha 4.Dr. M.Ammaan 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 **PLANT MONITORING POT USING IOT** in the name of 1.Dr. P. Mohana 2. Dr. B.Prabhu Dass Batvari 3.Dr. P.Anuradha 4.Dr. M.Ammaan.

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

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

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

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

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



ORIGINAL

मूल/No : 134285



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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	376559-001
तारीख / Date	:	02/01/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MOTOR CYCLE HEAD LIGHT ASSEMBLY WITH DUAL CONVENTIONAL POWERED MOBILE PHONE CHARGER** से संबंधित है, का पंजीकरण, श्रेणी 12-11 में 1.Dr. P. Mohana 2. Dr. B. Prabhu Dass Batvari 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 12-11 in respect of the application of such design to **MOTOR CYCLE HEAD LIGHT ASSEMBLY WITH DUAL CONVENTIONAL POWERED MOBILE PHONE CHARGER** in the name of 1.Dr. P. Mohana 2. Dr. B. Prabhu Dass Batvari.

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

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

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निर्गमन की तारीख/Date of Issue : 03/05/2023

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.



ORIGINAL

मूल/No : 133896



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

डिजाइन सं. / Design No. : 376557-001
तारीख / Date : 02/01/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MOTOR CYCLE HEAD LIGHT ASSEMBLY WITH SOLAR POWERD MOBILE PHONE CHARGER** से संबंधित है, का पंजीकरण, श्रेणी 12-11 में 1.Dr. B. Prabhu Dass Batvari 2. Dr. P. Mohana के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

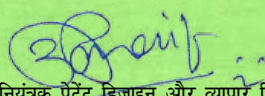
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 12-11 in respect of the application of such design to **MOTOR CYCLE HEAD LIGHT ASSEMBLY WITH SOLAR POWERD MOBILE PHONE CHARGER** in the name of 1.Dr. B. Prabhu Dass Batvari 2. Dr. P. Mohana.

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

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

INTELLECTUAL
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निर्गमन की तारीख/Date of Issue : 26/04/2023


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.



ORIGINAL

मूल/No : 118674



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 369011-001
तारीख / Date : 10/08/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **VOLATILE COMPOUND EXTRACTION APPARATUS** से संबंधित है, का पंजीकरण, श्रेणी **24-02** में 1.Dr. V. Vijaya Baskar 2. Mrs. K. Lakshmi Divya 3.Dr. E. Logashanmugam 4.Dr. M.S. Godwin Premi 5.Dr. Sankar Ganesh Devaraj 6.Mr. C. Kumar 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 **VOLATILE COMPOUND EXTRACTION APPARATUS** in the name of 1.Dr. V. Vijaya Baskar 2. Mrs. K. Lakshmi Divya 3.Dr. E. Logashanmugam 4.Dr. M.S. Godwin Premi 5.Dr. Sankar Ganesh Devaraj 6.Mr. C. Kumar.

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

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

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निर्गमन की तारीख/Date of Issue : 22/11/2022

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.



ORIGINAL

मूल/No : 126057



भारत सरकार
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डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 369011-002
तारीख / Date : 10/08/2022
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **VOLATILE COMPOUND EXTRACTION APPARATUS WITH HEAT PLATE** से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr V Vijaya Baskar 2. Mrs K Lakshmi Divya 3.Dr E Logashanmugam 4.Dr M.S Godwin Premi 5.Dr Sankar Ganesh Devaraj 6.Mr C Kumar 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 **VOLATILE COMPOUND EXTRACTION APPARATUS WITH HEAT PLATE** in the name of 1.Dr V Vijaya Baskar 2. Mrs K Lakshmi Divya 3.Dr E Logashanmugam 4.Dr M.S Godwin Premi 5.Dr Sankar Ganesh Devaraj 6.Mr C Kumar.

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

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

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निर्गमन की तारीख/Date of Issue : 19/01/2023

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

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



ORIGINAL

मूल/No : 136278



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THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	376553-001
तारीख / Date	:	02/01/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **LED LIGHT SHIELD FOR FISH BREEDING CONTAINER** से संबंधित है, का पंजीकरण, श्रेणी 30-02 में 1.Dr. Ramachandran Srinivasan 2. Dr. Meivelu Moovendhan 3.Dr. Sivaraj Sigamani के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

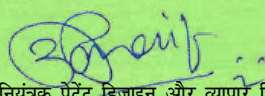
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 30-02 in respect of the application of such design to **LED LIGHT SHIELD FOR FISH BREEDING CONTAINER** in the name of 1.Dr. Ramachandran Srinivasan 2. Dr. Meivelu Moovendhan 3.Dr. Sivaraj Sigamani.

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

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

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निर्गमन की तारीख/Date of Issue : 17/05/2023


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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.



Application Details

APPLICATION NUMBER	202321015802
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/03/2023
APPLICANT NAME	1 . Dr. Namit Pathak 2 . Dr. V. Kalaimani 3 . Anusha P 4 . Dr. Sanjogta Meshram 5 . M Revathy Meenal 6 . Dr. N. Mathan 7 . Dr. M. John Paul 8 . R Krishna Kumar 9 . Dr. Palani A 10 . Dr. Sankar. K
TITLE OF INVENTION	ROBUST AND EFFICIENT DETECTION OF CANCER DETECTION USING MACHINE LEARNING AND DEEP LEARNING TECHNIQUES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	editorsippublisher@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S	24/03/2023



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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



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

Application Details	
APPLICATION NUMBER	202341013963
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/03/2023
APPLICANT NAME	1 . Dr. E. Mubarak Ali 2 . Dr. Rajesh Tiwari 3 . Mrs. Sonali A Sathe 4 . Dr. M. Sindhu 5 . Dr. P. Anitha 6 . Ms. M. Jayaseely 7 . Dr. L. Jalaja 8 . Dr. Rajendra Subhash Jarad 9 . Dr. Shikha Singh 10 . Ms. Madhuri Tiwari 11 . Ms. Chetna 12 . Ms. Rajbeer Kaur 13 . Dr. V. Kannan 14 . Mr. J Logeshwaran
TITLE OF INVENTION	IMPACT OF 'MAKE IN INDIA' INTERNATIONAL MARKETING CAMPAIGN TOWARDS INDIAN ECONOMY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/03/2023

Application Status

APPLICATION STATUS

**Awaiting Request for
Examination**

[View Documents](#)

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

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202321026420
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/04/2023
APPLICANT NAME	1. Sidharth Rajendra Pati 2. Dr.R.Thamilselvan 3. Dr. D. Velumoni 4. Dr.K.Baranidharan 5. Dr. S.Meenakshi 6. R.Vaiamathi 7. Dr. K. Maran
TITLE OF INVENTION	SUSTAINABLE BUSINESS MODELS ACROSS THE CONSUMER-INTERNET STARTUPS IN INDIA
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	agimmsidharthpati@gmail.com
ADDITIONAL EMAIL (As Per Record)	agimmsidharthpati@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (S/5.11A)	12/05/2023

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202341028537
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/04/2023
APPLICANT NAME	1. Dr.R.Thamiselvan 2. Dr. D. Velumoni 3. Dr. A. Govindarajan 4. Dr. K. Baranidharan 5. Dr. Simanchala Das 6. Sivastanikar G A 7. Dr. K. Maran
TITLE OF INVENTION	SUPPORTING TOOL IN THE MICROFINANCE INDUSTRY TO SUPPORT DECISION MAKING FOR PLANNING AND CUSTOMER SATISFACTION STRATEGIES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	drms2007@gmail.com
ADDITIONAL EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (U/S 11A)	05/05/2023

Application Status

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

[View Documents](#)

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

(54) Title of the invention : FINANCIAL DATA MANAGING DEVICE IN BANK

(51) International classification :G06Q 400000, G06Q 400200, G06Q 400600, G07F 071000, G07F 190000

(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. R. Blessie Pathmu

Address of Applicant :Assistant Professor, Department of Management Studies, Sathyabama Institute of Science and Technology, (Deemed to Be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119, Tamil Nadu, India Chennai -----

2)Dr. b. Bhavya**3)Dr. A.S. Princy****4)Dr. K. Santhanalaxmi**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. R. Blessie Pathmu

Address of Applicant :Assistant Professor, Department of Management Studies, Sathyabama Institute of Science and Technology, (Deemed to Be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119, Tamil Nadu, India Chennai -----

2)Dr. b. Bhavya

Address of Applicant :Assistant Professor, Department of Management Studies, Sathyabama Institute of Science and Technology, (Deemed to Be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119, Tamil Nadu, India Chennai -----

3)Dr. A.S. Princy

Address of Applicant :Assistant Professor, Department of Management Studies, Sathyabama Institute of Science and Technology, (Deemed to Be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119, Tamil Nadu, India Chennai -----

4)Dr. K. Santhanalaxmi

Address of Applicant :Assistant Professor Department of Management Studies, Sathyabama Institute of Science and Technology, (Deemed to Be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600119, Tamil Nadu, India Chennai -----

(57) Abstract :

With digital transformation being a must for banks wishing to stay in business over the long haul, banks must address a variety of challenges. e.g., rising data volumes, data pervasiveness and user demands for data in order to become the data-driven enterprises they need to be. Massive volumes of data are pouring in from mobile apps and devices in a variety of formats, including images, audio and video. And data is everywhere. Banks are swamped with data on customers, from financial transactions, customer purchase histories, marketing campaigns, social media streams, third-party sources, text messages and more. Users themselves i.e., bank employees are potential analytics users who need trustworthy, secure data they can use for decision support and analysis, with self-service access to both data and easy-to-use analytics.

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



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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



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

Application Details

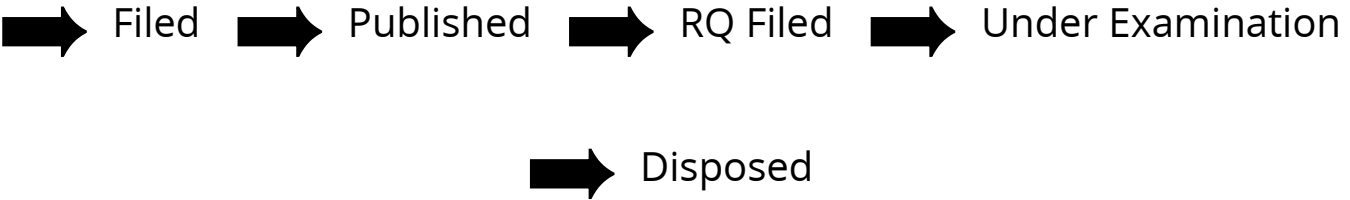
APPLICATION NUMBER	202311006402
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/02/2023
APPLICANT NAME	1 . Dr. Mukul Gupta 2 . Dr. R. Maheswari 3 . Dr. V. Kannan 4 . Mr. J Logeshwaran 5 . Dr. Joyce S 6 . Mrs. Milka Vijayan 7 . Dr. S. Umamaheswari 8 . Dr. Nasa Dhanraj 9 . Dr. Manoj AS 10 . Dr. V. Sangeetha 11 . Dr. C. Ganesan 12 . Dr. Vimla
TITLE OF INVENTION	CUSTOMER SATISFACTION TOWARDS RECEIVING THE PRODUCTS FROM E-COMMERCE LOGISTICS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/02/2023

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents



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

(54) Title of the invention : **CUSTOMER'S EARNINGS, SAVINGS, AND FINANCIAL HISTORY-CLASSIFICATION USING MACHINE LEARNING TECHNOLOGY**

(51) International classification :G06Q0030020000, G06N0020000000, G06Q0030060000, G06Q0010040000, G06N0020200000

(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 :

The application of consumer transaction data to predictive models associated with merchant segments, which are derived from the consumer transaction data based on co-occurrences of merchants in sequences of transactions, is what provides predictive modelling of consumer financial behaviour, including determination of likely responses to particular marketing efforts. This is accomplished by providing consumer transaction data to predictive models associated with merchant segments. Merchant vectors are used to represent individual merchants, and they are arranged in a vector space according to the extent to which the merchants share occurrences with one another. The formation of merchant segments requires the use of supervised segmentation on merchant vectors. Based on the customer's prior purchases, merchant segment predictive models make projections of a consumer's future spending in each merchant segment. These predictions are made for the consumer as a whole. The spending habits of individual customers are broken down into merchant categories and compared with those of other customers in the same merchant category in consumer profiles. Consumer profiles sometimes contain customer vectors, which are essentially summary vectors that are produced from the businesses that the consumer shops at most often. When applied to customer vectors, nearest-neighbour analysis allows for the generation of predictions on consumer behaviour.

No. of Pages : 24 No. of Claims : 3

(54) Title of the invention : **FINANCIAL ANALYSIS IMPACT ON MANAGEMENT PERFORMANCE IN THE LEADING LOGISTICS INDUSTRY**

(51) International classification :G06Q 100400, G06Q 100600, G06Q 100800, G06Q 400000, G06Q 400400 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr. S. BHARATHI VASU Address of Applicant :PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD,, KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 --- 2)Dr. YAMUNA.D 3)Mr. D. DIVAKAR 4)Dr. B. SAMBATH KUMAR 5)Dr. S. KRISHNAKUMARI 6)Mr. S. PRAVEEN 7)D. BHAVANI 8)Dr. D.YUVARAJ Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. S. BHARATHI VASU Address of Applicant :PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD,, KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 ----- 2)Dr. YAMUNA.D Address of Applicant :ASSISTANT PROFESSOR SCHOOL OF MANAGEMENT STUDIES SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY) JEPPIAAR NAGAR, RAJIV GANDHI SALAI, SATHYABAMA COLLEGE ROAD, SEMMANCHERI, KANCHIPURAM DISTRICT CHENNAI - 600 119. TAMILNADU, INDIA. ----- 3)Mr. D. DIVAKAR Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD,, KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 --- 4)Dr. B. SAMBATH KUMAR Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES cum HEAD TRAINING & PLACEMENT ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD,, KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 ----- 5)Dr. S. KRISHNAKUMARI Address of Applicant :ASSISTANT PROFESSOR SCHOOL OF MANAGEMENT STUDIES SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY) JEPPIAAR NAGAR, RAJIV GANDHI SALAI, SATHYABAMA COLLEGE ROAD, SEMMANCHERI, KANCHIPURAM DISTRICT CHENNAI - 600 119. TAMILNADU, INDIA. ----- 6)Mr. S. PRAVEEN Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD,, KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 --- 7)D. BHAVANI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD,, KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 --- 8)Dr. D.YUVARAJ Address of Applicant :PROFESSOR & HEAD DEPARTMENT OF MANAGEMENT STUDIES ANAND INSTITUTE OF HIGHER TECHNOLOGY KALASALINGAM NAGAR IT CORRIDOR, OLD MAHABALIPURAM ROAD,, KAZHIPATTUR, CHENGALPATTU DISTRICT, TAMIL NADU 603103 ---
--	---

(57) Abstract :
ABSTRACT FINANCIAL ANALYSIS IMPACT ON MANAGEMENT PERFORMANCE IN THE LEADING LOGISTICS INDUSTRY The development of global trade relies upon the operations business to move items, data, funds, innovation and HR along the inventory network. The ongoing circumstance during the pandemic depends on the coordinated factors industry especially in the messenger, package and expedited specialist organizations to convey day-to-day fundamentals. Item customization, client interest, mechanical complexity, danger of new contestants, line conclusion, consistence to Coronavirus guidelines and worldwide financial emergency have taken the coordinated factors industry by storm. For the sustainment and development of these organizations, key direction will happen. A gigantic determinant of these choices is the monetary effectiveness of the organizations. Consequently, this paper plans to decide the effectiveness of the strategies organizations in Malaysia by dissecting their monetary exhibitions utilizing current proportion, obligation to resources proportion, obligation to value proportion, profit per share, return on resources and return on value with information envelopment examination model. The aftereffects of this investigation discovered that five organizations, COMPLET, GDEX, MISC, SURIA and WPRTS are effective. This study fills the exploration hole by deciding the effectiveness scores of these organizations and proposing likely upgrades for wasteful organizations to improve and advance their monetary positions.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311004286 A

(19) INDIA

(22) Date of filing of Application :21/01/2023

(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 : NA

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(87) International Publication No : NA

(61) Patent of Addition to : NA

Application Number : NA

Filing Date : NA

(62) Divisional to : NA

Application Number : NA

Filing Date : NA

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4) Renukadevi. B

5) Mr. Divesh Dutt

6) Dr. Lalitha B S

7) Dr. Kirti Khanna

8) Dr. Prabhakar Gopichand Motghare

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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



ORIGINAL

सूचक/No : 123750



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No. : 353069-001
तारीख / Date : 13/11/2021
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में दर्जित डिजाइन को **AN AIR PURIFIER** से संबंधित है, का पंजीकरण, श्रेणी 23-04 में 1.Dr. Shahanaaz Ayub 2. Dr. Hrituparna Paul 3.Mr. Harshwardhan Chandrakant Pandit 4.Dr. S. Jainab Zareena के नाम में उपर्युक्त संख्या और तारीख में कर दिया 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 23-04 in respect of the application of such design to **AN AIR PURIFIER** in the name of 1.Dr. Shahanaaz Ayub 2. Dr. Hrituparna Paul 3.Mr. Harshwardhan Chandrakant Pandit 4.Dr. S. Jainab Zareena.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन शब्दावली के अनुसार 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

प्रतिम की तारीख/Date of issue : 04/01/2023

नियंत्रक जनरल ऑफ पेटेंट्स, डिजाइन्स और ट्रेड मार्क्स
Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (यदि कोई हो) किसी अनुबंधित देश के साथ या की नहीं है। डिजाइन का पारस्परिकता प्रदीपन की तारीख से या कोई भी दिन होने डिजाइन दिवार, अधिनियम एवं नियम के विवरणों के अंतर्गत, यदि कोई भी अधिनियम अधिनियम से डिजाइन या अन्यथा, इस अंतर्गत या या उपर्युक्त डिजाइन पारस्परिकता अंतर्गत डिजाइन से प्रदीपन 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.



Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

387322-001

Cbr Number:

206742

Cbr Date:

30/05/2023 22:12:17

Applicant Name:

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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

FORM 1

Application for Registration of Design

[See section 5 and 44]

You are requested to register the accompanying design in:

Sr	Class	Sub Class	Articles
1	14-00-Recording, telecommunication or data processing equipment	14-02-DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL APPARATUS AND DEVICES	CUSTOMER FINANCE ANALYSING DEVICE

In the name of :

Sr	Name	Nationality	Address
1	Dr. Yasmeen Bano	India	School of management studies, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu - 600119, India
2	Dr. Shetty Deepa Thangam Geeta	India	Assistant Professor, School of Management Studies, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu - 600119, India
3	Dr. Sheeba T	India	Assistant Professor, School of Management studies, Sathyabama institute of science and technology, Chennai, Tamil Nadu - 600119, India

who claim(s) to be the proprietor(s) thereof.

Four exactly similar representations of the design accompanying this request.

The design is to be applied to **CUSTOMER FINANCE ANALYSING DEVICE**,

Address for Service in India is:

Dr. Yasmeen Bano, School of management studies,

Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu - 600119, India

Email ID: yasmeenbano.soms@sathyabama.ac.in Declaration:

The applicant(s) claims to be the proprietor(s) of the design and that to the best of his knowledge and belief the design is new or original.

Dated this 30 day of May 2023



SIGNATURE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331013048 A

(19) INDIA

(22) Date of filing of Application :27/02/2023

(43) Publication Date : 10/03/2023

(54) Title of the invention : **An Artificial Intelligence and Deep Learning with IoT based Prevention of road accidents by detecting driver drowsiness**

(51) International classification :G06N 3/08
(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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8)Dr. Nandini G Devarmani
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(57) Abstract :
An Artificial Intelligence and Deep Learning with IoT based Prevention of road accidents by detecting driver drowsiness ABSTRACT Identification of drowsy drivers has been the single most critical step in preventing traffic accidents around the world in recent years. The purpose of the project was to develop a system of intelligent warnings that might be installed in intelligent vehicles to prevent drivers from falling asleep at the wheel. In contrast, weariness is a normal aspect of life that can result from a variety of factors. In order to avoid the issues that contributed to the disaster, it is essential to establish an effective early warning system. In this study, we propose analysing VSP with an EAR to detect driver drowsiness. Here is how the technology to prevent driver drowsiness at the wheel was developed. The approach of facial landmarks can be utilised to precisely pinpoint the eyes. If the IoT module detects that the driver is too sleepy to operate the vehicle safely, a distress signal is broadcast together with information on the severity of the accident and the vehicle's location. If an error occurs, the Raspberry Pi's speaker system will alert the driver. This paper discusses the design and implementation of a computer vision and Internet of Things-based system for tiredness detection. The goal is to create a flexible system capable of identifying driver fatigue based on a predetermined threshold by observing the driver's face. The algorithms were constructed using the OpenCV and Dlib libraries and then executed using Python. With the help of a Raspberry Pi, this was made possible. In its current setup, it was discovered that the system can identify drowsiness in the actual world 90% of the time.

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



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6308564

Grant date: 15 September 2023

Registration date: 07 September 2023

This is to certify that,

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

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

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

in respect of the application of such design to:

SYSTEM FOR RECYCLING PLASTIC

International Design Classification:

Version: 14-2023

Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED

Subclass: 99 MISCELLANEOUS

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

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

Representation of Designs

