



MARATHWADA MITRA MANDAL'S
COLLEGE OF ENGINEERING

An Autonomous Institute | Approved by AICTE New Delhi
Recognised by Directorate of Technical Education Mumbai
Affiliated to Savitribai Phule Pune University

- NAAC Accredited with A++ Grade
- NBA Accredited
- 'Best College Award 2019' by SPPU

Patent Details for Verification_NIRF2026

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Assignee/s Name (Institute Affiliation/s at time of Application)	Page No.
Grated Patent for 2023- 2024						
1	6332714	Granted	Dr. Swapnil Sonajirao Lahane	Smart Fish Health Monitoring Device in Aquaculture	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	3
2	6327952	Granted	Dr. Swapnil Sonajirao Lahane	Smart Emotion Sensing Device	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	4
3	6327951	Granted	Dr. Swapnil Sonajirao Lahane	Smart Automobile Health Diagnostic Device	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	5
4	6338963	Granted	Ms. Pranoti D Vaidya	Sleek and Stylish Electric Scooter	Marathwada Mitra Mandals College of Engineering	6
5	6306753	Granted	Ms. Pallavi Dnyaneshwar Wadkar	Smart plastic waste management device	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	7

6	524470	Granted	Dr. A. B. Kanwade	Method and system of chronic obstructive pulmonary disease grade determination using surface electromyography	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	<u>8</u>
7	202121041199	Granted	Dr. Shobha A. Waghmode	CARBON DIOXIDE INTO FUEL MOLECULES BY VISIBLE LIGHT DRIVEN PHOTOCATALYSIS OVER MOF SUPPORTED BIMETALLIC NANOPARTICLES	MES Abasaheb Garware College of Arts & Science, Pune	<u>9</u>
8	432600-001	Granted	Dr. Kalpana Thakre Dr. Smita Chaudhari Dr. Girija G. Chiddarwar	Machine learning based robot for predictive analytics	MARATHWADA MITRAMANDAL'S COLLEGE OF ENGINEERING	<u>10</u>
9	6304598	Granted	Dr. Geetha Rajkumar Chillarge, Ms,Sarita Sapkal, Ms.Vandana Rupnar	Weather Forecasting Cultivation Device ,UK Patent	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	<u>12</u>
10	6327994	Granted	Dr. Swapnil Sonajirao Lahane, Dr. Manoj Dattopant Joshi	Intelligent Tea Leaves Disease Detecting Device	Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune, Maharashtra, India, 411052, India	<u>13</u>

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Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6332714

Grant date: 19 December 2023

Registration date: 12 December 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. Yuvaraj Kunnathur Periyasamy, Saravana Prakash Dhanabal, Dr. Swapnil

Sonajirao Lahane, Shobana Alagarsamy

in respect of the application of such design to:

Smart Fish Health Monitoring Device in Aquaculture

International Design Classification:

Version: 14-2023

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

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

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office

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



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Intellectual
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Certificate of Registration for a UK Design

Design number: 6327952

Grant date: 29 November 2023

Registration date: 22 November 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. Yuvaraj Kunnathur Periyasamy , Dr. Swapnil Sonajirao Lahane, Shobana

Alagarsamy, Komal Kumar Napa, Sampathkumar Karthikeyan, Dr. Anandkumar

Ramasamy , Gayathri Ulaganathan

in respect of the application of such design to:

Smart Emotion Sensing Device

International Design Classification:

Version: 14-2023

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

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

Adam Williams

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Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6327951

Grant date: 29 November 2023

Registration date: 22 November 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. Yuvaraj Kunnathur Periyasamy, Dr. Swapnil Sonajirao Lahane, Dr.

Anandakumar Subbaiyan, Dr. Kusuma Sreenivasa, Dr. Leena Bojaraj, Shobana

Alagarsamy, Haribabu Loganathan

in respect of the application of such design to:

Smart Automobile Health Diagnostic Device

International Design Classification:

Version: 14-2023

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

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

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Certificate of Registration for a UK Design

Design number: 6338963

Grant date: 23 January 2024

Registration date: 12 January 2024

This is to certify that,

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

Dr. Shaik Rafi Kiran, Mr. Prashant Mahadev Patane, Dr. Anuradha Thangavelu,

Mr. Mahavir Kantilal Beldar, Ms. Pranoti D Vaidya, Dr. Nandkumar Popatrao

Dharmadhikari

in respect of the application of such design to:

Sleek and Stylish Electric Scooter

International Design Classification:

Version: 14-2023

Class: 12 MEANS OF TRANSPORT OR HOISTING

Subclass: 11 CYCLES AND MOTORCYCLES

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

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Certificate of Registration for a UK Design

Design number: 6306753

Grant date: 09 September 2023

Registration date: 01 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

Shashikant Vishwasrso Athawale, Makarand Yashavant Naniwadekar, Kavita

Moholkar, Archana Pritam Kale, Revati Machhindra Wahul, Pallavi Dnyaneshwar

Wadkar, Amol Mahadev Jagtap, Swamiraj Shahajirao Jadhav

in respect of the application of such design to:

Smart plastic waste management device

International Design Classification:

Version: 14-2023

Class: 09 PACKAGING AND CONTAINERS FOR THE TRANSPORT OR
HANDLING OF GOODS

Subclass: 09 REFUSE AND TRASH CONTAINERS AND STANDS THEREFOR

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.



No. 022141459

The Patent Office, Government Of India
Patent Certificate

(Rule 74 of The Patents Rules)

524470

201921016526

25/04/2019

1.KANWADE, Archana Bajirao 2.BAIRAGI, Vinayak Kachardas
3.MAGAR, Pankaj Kondiram

प्रमाणित किया जाता है कि पेटेटी को, उपरोक्त आवेदन में यथाप्रकटित *METHOD AND SYSTEM OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE GRADE DETERMINATION USING SURFACE ELECTROMYOGRAPHY* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2019 के पच्चीसवें 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 *METHOD AND SYSTEM OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE GRADE DETERMINATION USING SURFACE ELECTROMYOGRAPHY* as disclosed in the above mentioned application for the term of 20 years from the 25th day of April 2019 in accordance with the provisions of the Patents Act, 1970.

from the 25th day of April 2019 in accordance with the provisions of the Patents Act, 1970.

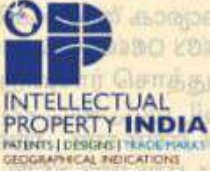
ॐ नमो भगवते वासुदेवाय. भारत सरकार, नई दिल्ली, २०२०।
 ॐ नमो भगवते वासुदेवाय. भारत सरकार, नई दिल्ली, २०२०।

अनुदान की तारीख : 13/03/2024
Date of Grant :

इन्क्यूबेटर की पंजीयन
पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फॉस, यदि इसे बनाए रखा जाना है, अप्रैल 2021 के पच्चीसवें 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 25th day of April 2021 and on the same day in every year thereafter.



क्रम सं/SL No :022135824



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

496599

आवेदन सं. / Application No.

202121041199

फाइल करने की तारीख / Date of Filing

14/09/2021

पेटेंटी / Patentee

1.SHOBHA AJEET WAGHMODE 2.DR. SHARDA R. GADALE
3.HEENA MEROLIYA 4.DR. VIDYA K. KALYANKAR

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **CONVERSION OF CARBON DIOXIDE INTO FUEL MOLECULES BY VISIBLE LIGHT DRIVEN PHOTOCATALYSIS OVER MOF SUPPORTED BIMETALLIC NANOPARTICLES**. नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2021 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 **CONVERSION OF CARBON DIOXIDE INTO FUEL MOLECULES BY VISIBLE LIGHT DRIVEN PHOTOCATALYSIS OVER MOF SUPPORTED BIMETALLIC NANOPARTICLES**. as disclosed in the above mentioned application for the term of 20 years from the 14th day of September 2021 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 09/01/2024
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2023 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 September 2023 and on the same day in every year thereafter.

*यदि पेटेंटी व आविष्कारकों की संख्या अधिक है, पेटेंटी व आविष्कारकों के नाम पृष्ठ संख्या 2 पर जारी हैं।

*Since the Number of Patentees / Inventors is more, the name of Patentees / Inventors are continued on Page



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PROPERTY INDIA**
PATENT JOURNAL/TELEGRAPHIC
HIGHLIGHTS/RESOLUTION

पेटेंट प्रमाणपत्र के लिए अनुलम्बक/Annexure to Patent Certificate

पेटेंट सं. / Patent No.

496599

आवेदन सं. / Application No.

202121041199

फाइल करने की तारीख / Date of Filing

14/09/2021

पेटेंटी / Patentee (जारी/Continued)

5.VAISHALI NILKANTH PATIL



Certificate

on the registration of
utility model No. 20 2023 107 184

Designation:
Communication efficient federated learning system with data protection and
Data security

IPC:
G06F 21/60

Owner:
Narule, Yogita Sachin, Kolhapur, Maharashtra, IN
Thakare, Kalpana Sunil, Dr., Pune, Maharashtra, IN
Upreti, Kamal, Dr., Delhi, IN

Day of registration:
04.12.2023

Date of registration:
11.01.2024

Priority:
21.10.2023 IN 202321072013

The President of the German Patent and Trademark Office

Eva Slavery

Eva Schewior

Munich, January 11, 2024



The requirements for protectability are not checked when registering a utility model. The current legal status and scope of protection can be found in the DPMA register at www.dpma.de.

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Intellectual
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Office

Certificate of Registration for a UK Design

Design number: 6304598

Grant date: 31 August 2023

Registration date: 20 August 2023

This is to certify that,

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

Mrs. Pradnya Samit Mehta, Mrs. Ila Shridhar Savant, Dr. Geetha Rajkumar

Chillarge, Dr. Snehal Rahul Rathi, Ms. Sarita Dnyaneshwar Sapkal, Mr. Vikas

Balasaheb Maral, Mrs. Vandana Rupnar, Mr. Nagaraju Bogiri, Mrs. Pranali

Kshirsagar, Mrs. Amruta Mankawade

in respect of the application of such design to:

Weather Forecasting Cultivation Device

International Design Classification:

Version: 14-2023

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

Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND
DEVICES

Version: 14-2023

Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED

Subclass: 99 MISCELLANEOUS

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office

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



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Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6327994

Grant date: 29 November 2023

Registration date: 23 November 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. Yuvaraj Kunnathur Periyasamy, Dr. Swapnil Sonajirao Lahane, Dr. Manoj

Dattopant Joshi, Rajkumar Govindarajan, Sivaprakash Kandasamy, Dr. Ramesh

Babu Subramaniam, Shobana Alagarsamy

in respect of the application of such design to:

Intelligent Tea Leaves Disease Detecting Device

International Design Classification:

Version: 14-2023

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

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

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office

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