



MARATHWADA MITRA MANDAL'S  
**COLLEGE OF ENGINEERING**

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- 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.
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### Granted 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	<a href="#">3</a>
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	<a href="#">4</a>
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	<a href="#">5</a>
4	6338963	Granted	Ms. Pranoti D Vaidya	Sleek and Stylish Electric Scooter	Marathwada Mitra Mandal's College of Engineering	<a href="#">6</a>
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	<a href="#">7</a>

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	<a href="#">8</a>
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	<a href="#">9</a>
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	<a href="#">10</a>
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	<a href="#">12</a>
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	<a href="#">13</a>



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## 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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## 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*

**Adam Williams**

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

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## 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

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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

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INTELLECTUAL  
PROPERTY INDIA  
ISSN 0973-1383  
Volume 10 Number 10  
October 2006

## पेटेंट प्रमाणपत्र के लिए अनलग्गेनक/Annexure to Patent Certificate

पेटेंट नं. / Patent No. 496599

सार्वेन ए / Application No. 20211041199

मानव संस्कृति की तारीख / Date of Filing : 14/09/2021

प्रैटी : Pratice (तारीख/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](http://www.dpma.de).

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# 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

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Intellectual Property Office

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## 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

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