

# Patent Awarded for “The Embedded security framework for the industrial internet of things (IIOT) and cybersecurity 2022-23

(12) PATENT APPLICATION PUBLICATION (21) Application No.202211030237 A  
 (19) INDIA  
 (22) Date of filing of Application :26/05/2022 (43) Publication Date : 03/06/2022




(54) Title of the invention : THE EMBEDDED SECURITY FRAMEWORK FOR THE INDUSTRIAL INTERNET OF THINGS (IIOT) AND CYBERSECURITY

<p>(51) International classification : H04L0029060000, H04L0029080000, G06N0020000000, G06F0021570000, H04L0012240000</p> <p>(86) International Application No : NA                  Filing Date : NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number : NA                  Filing Date : NA</p> <p>(62) Divisional to Application Number : NA                  Filing Date : NA</p>	<p>(71) Name of Applicant :                  1) <b>Dr. RAVIRANJAN KUMAR SINGH</b>                  Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF ECEN, KASHI INSTITUTE OF TECHNOLOGY VARANASI-221307, Varanasi -----                  2) <b>DR. K. KAMALI</b>                  3) <b>DR.R.MANIKANDAN</b>                  4) <b>DR. APARNA MADHUKAR PAWAR</b>                  5) <b>G.MAHALAKSHMI</b>                  6) <b>APIRAJITHA P. S</b>                  7) <b>DR PUNAM RATTAN</b>                  8) <b>R. RENUKA DEVI</b>                  9) <b>DR.P.ARULPRAKASH</b>                  10) <b>KARTHIKAYANI</b>                  11) <b>DR. VIKAS TRIPATHI</b>                  12) <b>DR P JOEL JOSEPHSON</b>                  Name of Applicant : NA                  Address of Applicant : NA</p> <p>(72) Name of Inventor :                  1) <b>Dr. RAVIRANJAN KUMAR SINGH</b>                  Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF ECEN, KASHI INSTITUTE OF TECHNOLOGY VARANASI-221307, Varanasi -----                  2) <b>DR. K. KAMALI</b>                  Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE Cuddalore -----                  3) <b>DR.R.MANIKANDAN</b>                  Address of Applicant : DR. R.MANIKANDAN, ASSOCIATE PROFESSOR IN CSE GCE TEANJAVUR Cuddalore -----                  4) <b>DR. APARNA MADHUKAR PAWAR</b>                  Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS, TULJARAM CHATURCHAND COLLEGE OF ARTS SCIENCE AND COMMERCE BARAMATI Pune -----                  5) <b>G.MAHALAKSHMI</b>                  Address of Applicant : TEACHING FELLOW, DEPARTMENT OF INFORMATION SCIENCE AND TECHNOLOGY, COLLEGE OF ENGINEERING GUINDY, ANNA UNIVERSITY CHENNAI, 600025 Chennai -----                  6) <b>APIRAJITHA P. S</b>                  Address of Applicant : TEACHING FELLOW, DIST, ANNA UNIVERSITY Chennai -----                  7) <b>DR PUNAM RATTAN</b>                  Address of Applicant : SCHOOL OF COMPUTER APPLICATIONS LOVELY PROFESSIONAL UNIVERSITY PHAGWARA Jalandhar -----                  8) <b>R. RENUKA DEVI</b>                  Address of Applicant : ASSOCIATE PROFESSOR, SCHOOL OF COMPUTING, SRMIST Chennai -----                  9) <b>DR.P.ARULPRAKASH</b>                  Address of Applicant : RATHINAM TECHNICAL CAMPUS, EACHANARI Coimbatore -----                  10) <b>KARTHIKAYANI</b>                  Address of Applicant : ASSISTANT PROFESSOR, COMPUTER SCIENCE, SRM INSTITUTE OF ENGINEERING AND TECHNOLOGY CHENNAI Chennai -----                  11) <b>DR. VIKAS TRIPATHI</b>                  Address of Applicant : ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE &amp; ENGINEERING, GRAPHIC ERA DEEMED TO BE UNIVERSITY, DEHRADUN, UTTARAKHAND, INDIA Dehradun -----                  12) <b>DR P JOEL JOSEPHSON</b>                  Address of Applicant : PROFESSOR/ DEPT OF ECE, ST MARTIN'S ENGINEERING COLLEGE, SECUNDERABAD, 500100 Secunderbad -----</p>
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(57) Abstract :  
 The Embedded Security Framework for the Industrial Internet of Things (IIOT) and Cybersecurity is the proposed invention. The invention aims at achieving the aspect of cyber security across the industrial security and its related attributes.  
 No. of Pages : 11 No. of Claims : 4



Patent Awarded for Device for Testing Moisture Content in Soil.  
2022-23

  ORIGINAL  
मूल/No : 123694  


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

डिजाइन सं. / Design No. : 373554-001  
तारीख / Date : 03/11/2022  
पारस्परिकता तारीख / Reciprocity Date\* :  
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **DEVICE FOR TESTING MOISTURE CONTENT IN SOIL** से संबंधित है, का पंजीकरण, श्रेणी **10-05** में 1.Dr.Aniket Siddhaling Kothawale 2. Dr.Jagdish Dattatraya Deshpande 3.Dr.Ashok Ekanath Kalange 4.Prof. Dr.Avinash Jagtap के नाम में उपयुक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **10-05** in respect of the application of such design to **DEVICE FOR TESTING MOISTURE CONTENT IN SOIL** in the name of 1.Dr.Aniket Siddhaling Kothawale 2. Dr.Jagdish Dattatraya Deshpande 3.Dr.Ashok Ekanath Kalange 4.Prof. Dr.Avinash Jagtap.

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 : 04/01/2023  
महानिरीक्षक 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 सन्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के विधियों 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.



Patent Awarded for A Method for Remediation of Saline Soil  
2022-23

  
**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 : 022122040  
SL No :



पेटेंट सं. / Patent No. : 418717  
आवेदन सं. / Application No. : 4221/MUM/2014  
फाइल करने की तारीख / Date of Filing : 30/12/2014  
पेटेंटी / Patentee : DR. BHAGAWAN SHANKAR MALI

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A METHOD FOR REMEDIATION OF SALINE SOIL नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2014 के तीसरे 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 REMEDIATION OF SALINE SOIL as disclosed in the above mentioned application for the term of 20 years from the 30<sup>th</sup> day of December 2014 in accordance with the provisions of the Patents Act, 1970.

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

  
अनुदान की तारीख : 20/01/2023  
Date of Grant : 20/01/2023

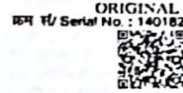
  
Controller of Patent

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2016 के तीसरे दिन को और उसके परवर्ती प्रत्येक वर्ष में उसी दिन देव होगी।  
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 30<sup>th</sup> day of December 2016 and on the same day in every year thereafter.





Patent Awarded for "Stress Anxiety Detection Band"  
2023-24



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. : 383694-001  
तारीख / Date : 11/04/2023  
पारस्परिकता तारीख / Reciprocity Date\* :  
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **STRESS AND ANXIETY DETECTION BAND** से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Gautam Shahuraje Jadhav 2. Dr. Ashish Madhav Talekar 3.Dr. Amey Vinayak Kale के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to **STRESS AND ANXIETY DETECTION BAND** in the name of 1.Dr. Gautam Shahuraje Jadhav 2. Dr. Ashish Madhav Talekar 3.Dr. Amey Vinayak Kale.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अर्थात् प्रावधानों के अनुसार।  
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 : 06/07/2023



  
सहायक पेटेंट डिजाइन और ट्रेडमार्क विभाग  
Controller General of Patents, Designs and Trade Marks

\*पारस्परिकता तारीख (यदि कोई हो), जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का अन्तर्गत पंजीकरण की तारीख से दस वर्षों के लिए होगा डिजाइन विभाग, अधिनियम एवं नियम के प्रावधानों के अर्थात्, दस वर्षों की अधिकतम अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाही में 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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**Patent for “ Process for Extractions of Coir”  
2023-24**

(17)



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. Mahesh Vijay Gokhale; Dr. Niranjana Sunil Chavan; Dr. Santosh Vasant Madhale; Dr. Ajit B. Telave; Dr. Priya Digambar Patil; Gayatri Umesh Gokhale

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

**2023/03303**

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 28<sup>th</sup> day of June 2023

  
Registrar of Patents



Patent Awarded for “Artificial Intelligence based Cybersecurity device for Military Networks.”  
2023-24

1



**Certificate of Registration for a UK Design**

Design number: 6308358  
Grant date: 14 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.DEVIDAS VIJAY BHOSALE, PROF.Dr.ASHOK EKNATH KALANGE,  
Dr.ANIKET SIDDHALING KOTHAWALE, PROF.Dr.JAGDISH DATTATRAYA  
DESHPANDE, Dr.SHASHIKANT CHANDRAKANT NAKATE,  
PROF.Dr.AVINASH SHRIRANGRAO JAGTAP

in respect of the application of such design to:

Artificial Intelligence based Cybersecurity device for Military Networks

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

Version: 14-2023  
Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT  
Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL APPARATUS AND DEVICES

A handwritten signature in black ink that reads 'Adam Williams'.

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

Intellectual Property Office is an operating name of the Patent Office [www.gov.uk/ipa](http://www.gov.uk/ipa)



# Patent Awarded for "IOT Based Soil Moisture Level Indicator" 2023-24



समयमै जयते

ORIGINAL  
क्रम सं/ Serial No.: 1456930

**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. **394908-001**

तारीख / Date **30/08/2023**

पारस्परिकता तारीख / Reciprocity Date \* **12/10/2023**

देश / Country **भारत**

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **IOT BASED SOIL MOISTURE LEVEL INDICATOR** से संबंधित है, का पंजीकरण, श्रेणी **10-04** में **1.Dr. Suhas Namadev Patil 2. Dr. Aparna Madhukar Pawar 3.Mr. Sawapnil Jadhav Deelip 4.Dr. Ghansham Bhagat** 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 **IOT BASED SOIL MOISTURE LEVEL INDICATOR** in the name of **1.Dr. Suhas Namadev Patil 2. Dr. Aparna Madhukar Pawar 3.Mr. Sawapnil Jadhav Deelip 4.Dr. Ghansham Bhagat**.

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.



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

\*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम नियम के निबंधनों के अधीन, पांच 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.





**Patent Awarded for “AI Enhanced Garment for Optimal Health Management”  
2023-24**



**Certificate of Registration for a UK Design**

Design number: 6343601

Grant date: 08 February 2024

Registration date: 01 February 2024

**This is to certify that,**

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

Dr.Aniket Siddhaling Kothawale, Dr. Neeta Kishor Dhane, Dr.Yogini Ramkrishna  
Mulay, Prof.Dr.Jagdish Dattatraya Deshpande

in respect of the application of such design to:

AI enhanced garment for optimal health management

International Design Classification:  
Version: 14-2023  
Class: 02 ARTICLES OF CLOTHING AND HABERDASHERY  
Subclass: 02 GARMENTS

A handwritten signature in black ink that reads 'Adam Williams'.

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

Intellectual Property Office is an operating name of the Patent Office

[www.gov.uk/ipo](http://www.gov.uk/ipo)



**Patent Awarded for “Analysis Computer for Evaluating Effect of Social Media on Social Harmony”  
2023-24**

1



**Certificate of Registration for a UK Design**

Design number: 6343600

Grant date: 15 February 2024

Registration date: 01 February 2024

**This is to certify that,**

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

Dr. Devidas Vijay Bhosale, Pooja Sujit Gaikwad, Dr. Shashikant Chandrakant

Nakate

in respect of the application of such design to:

Analysis Computer for evaluating effect of social media on social harmony

International Design Classification:

Version: 14-2023

Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT

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

A handwritten signature in black ink that reads 'Adam Williams'.

**Adam Williams**

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

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

Intellectual Property Office is an operating name of the Patent Office

[www.gov.uk/ipo](http://www.gov.uk/ipo)



# Patent Awarded for "Photocatalytic Water Purification Device" 2023-24



समस्तो जगते



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

ORIGINAL  
क्रम सं/ Serial No. - 161676



**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.** 405549-001

**तारीख / Date** 24/01/2024

**पारस्परिकता तारीख / Reciprocity Date** भारत सरकार, भारत सरकार, Intellectual Property Office, Government of India.

**देश / Country** India, वैश्विक सम्पत्ति कार्यालय, भारत सरकार, वैश्विक सम्पत्ति कार्यालय, भारत सरकार, Intellectual Property Office, Government of India.

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **PHOTOCATALYTIC WATER PURIFICATION DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 23-01 में 1. Dr. Vijay Sampat Mohite 2. Dr. Ramchnadra Tukaram Sapkal 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 **PHOTOCATALYTIC WATER PURIFICATION DEVICE** in the name of 1. Dr. Vijay Sampat Mohite 2. Dr. Ramchnadra Tukaram Sapkal.

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.



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

**जारी करने की तिथि / Date of Issue** 27/03/2024

\*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकता है। 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.



**Patent Awarded for “Data Analytics Device for Investigation of Menstrual Irregularities Among Adolescent Girls”  
2023-24**



**Certificate of Registration for a UK Design**

Design number: 6355494

Grant date: 05 April 2024

Registration date: 27 March 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

Priti Sandeep Malusare, Pooja Sujit Gaikwad, Dr. Neeta Kishor Dhane, Dr.

Vaishali Vilas Patil, Dr. Aniket Siddhaling Kothawale

in respect of the application of such design to:

Data Analytics Device for Investigation of Menstrual Irregularities Among

Adolescent Girls

International Design Classification:

Version: 14-2023

Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT

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

Version: 14-2023

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

Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND DEVICES

*Adam Williams*

**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](http://www.gov.uk/ipo)



# Patent Awarded for “Pot for Colling Water of Water” 2023-24

ORIGINAL  
क्रम सं/Serial No. : 165296

**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.	: 407844-001
तारीख / Date	: 17/02/2024
पारस्परिकता तारीख / Reciprocity Date*	:
देश / Country	:

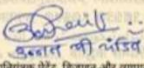
प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **POT FOR COOLING OF WATER** से संबंधित है, का पंजीकरण, श्रेणी 07-10 में 1.Prof. Dr. Bhagawan Shankar Mali 2. Dr. Rupali Dinesh Chitale 3.Dr. Madhuri Pravin Patil 4.Prof. Vaishali Bhagawan Mali 5.Mr. Sharad Shriram Gore के नाम में उपर्युक्त संख्या 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 07-10 in respect of the application of such design to **POT FOR COOLING OF WATER** in the name of 1.Prof. Dr. Bhagawan Shankar Mali 2. Dr. Rupali Dinesh Chitale 3.Dr. Madhuri Pravin Patil 4.Prof. Vaishali Bhagawan Mali 5.Mr. Sharad Shriram Gore.

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



जारी करने की तिथि /  
Date of Issue : 19/04/2024



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

\*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वतःपिकर 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.



# Patent Awarded for “Photoelectrochemical Water Spitting Reactor” 2023-24



## Certificate of Registration for a UK Design

Design number: 6354209

Grant date: 29 March 2024

Registration date: 21 March 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. KALANGE ASHOK EKANATH, Dr. KULKARNI SACHIN BABASAHEB, Mr.

THORAT SOPAN MURALIDHAR

in respect of the application of such design to:

Photoelectrochemical Water Splitting Reactor

International Design Classification:

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

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

**Adam Williams**

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

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

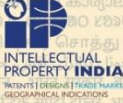




Intellectual Property Office is an operating name of the Patent Office

[www.gov.uk/ipo](http://www.gov.uk/ipo)



# Patent Awarded for "Petri Plate Holder" 2023-24

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


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

<b>डिजाइन सं. / Design No.</b>	411100-001
<b>तारीख / Date</b>	20/03/2024
<b>पारस्परिकता तारीख / Reciprocity Date*</b>	
<b>देश / Country</b>	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **PETRI PLATE HOLDER** से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Yogini Ramkrishna Mulay 2. Komal Ramchandra Jagtap 3.Kajal Mahadev Gaikwad 4.Manas Chetan Shah 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 **PETRI PLATE HOLDER** in the name of 1.Yogini Ramkrishna Mulay 2. Komal Ramchandra Jagtap 3.Kajal Mahadev Gaikwad 4.Manas Chetan Shah.

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



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

\*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वतःाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पांच वर्षों की अतिरिक्त अवधि के लिए किया जा सकता है। 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.



# Patent Awarded for Fan for Personal Use 2023-24





**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.**      **4106400-01**

**तारीख / Date**      **15/03/2024**

**पारस्परिकता तारीख / Reciprocity Date**      **15/03/2024**

**देश / Country**      **भारत**

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **FAN FOR PERSONAL USE** से संबंधित है, का पंजीकरण, श्रेणी 03-04 में 1.Prof. Dr. Bhagawan Shankar Mali 2. Mr. Vinayak Arun Bhatgal 3.Mr. Vikram Sanjay Patil 4.Mr. Dattatray Balu Shinde के नाम में उपयुक्त 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 03-04 in respect of the application of such design to **FAN FOR PERSONAL USE** in the name of 1.Prof. Dr. Bhagawan Shankar Mali 2. Mr. Vinayak Arun Bhatgal 3.Mr. Vikram Sanjay Patil 4.Mr. Dattatray Balu Shinde.

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




Date of Issue: **10/05/2024**      Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देय का नाम। डिजाइन का स्वाम्यधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के अधीन, पांच वर्षों की अवधि के लिए किया जा सकता है। 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.





# Patent Awarded for “Smart Real Time Electronic System for Monitoring Food Grain Storage in Warehouse Application.”



## Certificate of Registration for a UK Design

Design number: 6357894

Grant date: 16 April 2024

Registration date: 08 April 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. Suhas Namadev Patil

in respect of the application of such design to:

Smart Real Time Electronic System For Monitoring Food Grain Storage in

Warehouse Application

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.




Intellectual Property Office is an operating name of the Patent Office

[www.gov.uk/ipo](http://www.gov.uk/ipo)



## Patent Awarded for "Petri Plate"



ORIGINAL  
क्रम सं/ Serial No. - 168689

**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.**      **409615-001**

**तारीख / Date**      **07/03/2024**

**पारस्परिकता तारीख / Reciprocity Date**      **07/03/2024**


**देश / Country**      **भारत**

**प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो PETRI PLATE से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dhawal Vidyachandra Doshi 2. Manas Chetan Shah 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 PETRI PLATE in the name of 1.Dhawal Vidyachandra Doshi 2. Manas Chetan Shah.**

**डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यायीन 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 : **10/05/2024**  
Date of Issue


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

**पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अर्थान, पांच 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.**



# Patent Awarded for "Wire Loop"



ब्रम् सं / Serial No. : 170624

**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.** : 411099-001

**तारीख / Date** : 20/03/2024

**पारस्परिकता तारीख / Reciprocity Date** : 20/03/2024


**देश / Country** : भारत

**प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो WIRE LOOP से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Yogini Ramkrishna Mulay 2. Kajal Mahadev Gaikwad 3.Komal Ramchandra Jagtap 4.Manas Chetan Shah के नाम में उपयुक्त 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 WIRE LOOP in the name of 1.Yogini Ramkrishna Mulay 2. Kajal Mahadev Gaikwad 3.Komal Ramchandra Jagtap 4.Manas Chetan Shah.**

**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.**



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

**जारी करने की तिथि : 22/05/2024**

**Date of Issue : 22/05/2024**

\*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वतःवाचिक पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबन्धनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकता। 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.





**Patent Awarded for “An Integrated IoT and artificial intelligence system for improved Plant production in greenhouse applications”**

27/08/2024, 13:26

IMG-20240827-WA0004.jpg

25

 Federal Republic of Germany 

# Certificate

on the registration of utility  
model No. 20 2024 102 147

Designation:

An integrated IoT and artificial intelligence system for improved  
Plant production in greenhouse applications

IPC:

A01G 9/24

Owner:

Doshpande, Jagdish Dattatraya, Prof. Dr., Pune, Maharashtra, IN  
Kulkarni, Sachin Babasaheb, Dr., Solapur, Maharashtra, IN  
Patil, Suhas Namadev, Dr., Kolhapur, Maharashtra, IN  
Pawar, Apama Machukar, Dr., Pune, Maharashtra, IN

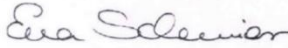
Registration date:

26.04.2024

Date of registration:

24.05.2024

The President of the German Patent and Trademark Office



Eva Schewior



Munich, 24.05.2024

The conditions 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).

<https://mail.google.com/mail/u/0/#inbox/FMfQzQVzNwdzQfgwpmVJfQRgbfZrQSH?projector=1&messagePartId=0.1>

1/1

