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Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya,

Ramanandnagar (Burli) Tal. Palus Dist. Sangli 416 308 (Maharashtra)

Affiliated Shivaji University, Kolhapur

Founder: Padmabhushan Dr. Karmaveer Bhaurao Patil (P.Litt)

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Index no. junior J 22 07 001, MCVC J 22 07 901, Udise-27350604007



Estd
1968
ISO
9001:2015




PATENT PUBLISHED & GRANT 2023-2024

Sr. No.	Name of the Teacher	Name of the Patent	Status	Photo
1	Ms. Madavi A. B.	Agricultural Drone for Pesticide Spraying	Grant	
2	Ms. Madavi A. B.	Sargassum Illicifolium Mediated Portable Nanoparticle Cytotoxicity Tester for Cancer Treatment	Grant	
3	Ms. Madavi A. B.	Nanocoated Solar Water Heater System And Method For Enhancing Heat Transfer Efficiency	Published	
4	Miss Kamble N. J.	A Method of preparation of Lanthanum strontium manganite Doped Ammonium Zinc Phosphate Based Electrode for Super capacitor Application	Published	
5	Miss Kamble N. J.	A Method of preparation of Terminalia Catappa Doped Lanthanum Strontium Magnetite materials Electrode For Supercapacitor Application	Published	
6	Ms. Mamlayya A.B.	Solar Powered Hand Lense And Torch	Grant	
7	Ms. Momin A. M.	"Nomuraea Rileyi Exhibited Notable Bioefficacy Against Helicoverpa Armigera (Hubner) Larvae, Leading To Alterations In Protein Profile: A Promising Strategy For Pest Management"	Published	


Research Promotion Committee




Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli.



Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6348974

Grant date: 13 March 2024

Registration date: 23 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

MR. MUKUL MACHINDRA BARWANT, DR. PARIJAT SAURABH, KRISHNA

MURTHY SELVARAJ, VINOD RAMCHANDRA MALKAR, MS. EKASHINGE

MADHURI RAJENDRA, DR. GABRIEL PRABHU, MS. ASHA BUDHARAM

MADAVI, NIRALI GOVINDBHAI PATEL, DR. VASUDHA KURIKALA, JAYESH

TARACHAND SALVE

in respect of the application of such design to:

AGRICULTURAL DRONE FOR PESTICIDE SPRAYING

International Design Classification:

Version: 14-2023

Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED

Subclass: 03 AGRICULTURAL AND FORESTRY MACHINERY

Adam Williams

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

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





Intellectual
Property
Office

Certificate of Registration for a UK Design

Design number: 6338589

Grant date: 26 January 2024

Registration date: 11 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. BHADRAM VENKATA SURYANARAYAN ACHARYULU, DR ASHOK

PUNJAJI SALAVE, JAYESH TARACHAND SALVE, DR. POOJA BHATT, DR.

DHANDAPANI MAHALAKSHMI, DR. VELAMMAL MUTHIAH, MR. MUKUL

MACHINDRA BARWANT, DR. PRIYANKA Surajan, MS. ASHA BUDHARAM

MADAVI, DR. HARKAL DEVENDRA BALASAHEB

in respect of the application of such design to:

SARGASSUM ILLICIFOLIUM MEDIATED PORTABLE NANOPARTICLE

CYTOTOXICITY TESTER FOR CANCER TREATMENT

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.



(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/08/2023

(21) Application No.202341058289 A

(43) Publication Date : 08/09/2023

(54) Title of the invention : NANOCOATED SOLAR WATER HEATER SYSTEM AND METHOD FOR ENHANCING HEAT TRANSFER EFFICIENCY

		(71)Name of Applicant : 1)Dr. S. Selvakumar Address of Applicant :Associate Professor of Physics, Department of Science and Humanities, Thamirabharani Engineering College, Thachanallur, Tirunelveli, Tamilnadu, India, Pincode: 627358 ----- 2)Dr. V. B. Sreedhar 3)Mr. R. Ram Kumar 4)Dr. Guddappa Halligudra 5)Mrs. Asha Budhram Madavi 6)Dr. M.S.N.A. Prasad 7)Dr. Pooja 8)Dr. L. Jino 9)Mr. Amancha Thirupathi 10)Dr. Sumanta Bhattacharya Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. S. Selvakumar Address of Applicant :Associate Professor of Physics, Department of Science and Humanities, Thamirabharani Engineering College, Thachanallur, Tirunelveli, Tamilnadu, India, Pincode: 627358 ----- 2)Dr. V. B. Sreedhar Address of Applicant :Assistant Professor, Department of Physics, RGM College of Engineering and Technology, Nandyal, Andhra Pradesh, India, Pincode: 518501 ----- 3)Mr. R. Ram Kumar Address of Applicant :Research Scholar, Department of Chemistry, Jamal Mohamed College (Autonomous), (Affiliated to Bharathidasan University), Tiruchirappalli, Tamilnadu, India, Pincode: 620020 ----- 4)Dr. Guddappa Halligudra Address of Applicant :Assistant Professor and Researcher, Department of Chemistry, ATME College of Engineering, Mysuru, Karnataka, India, Pincode: 570028 ----- 5)Mrs. Asha Budhram Madavi Address of Applicant :Assistant Professor in Geography, Department of Geography, Patangrao Kadam Mahavidyalaya Ramanandnagar, Palus, Sangli, Maharashtra, India, Pincode: 416308 ----- 6)Dr. M.S.N.A. Prasad Address of Applicant :Assistant Professor, Department of Chemistry, Institute of Aeronautical Engineering (IARE), Dundigal, Hyderabad, Telangana, India, Pincode: 500043 ----- 7)Dr. Pooja Address of Applicant :Research Associate, Department of Animal Biotechnology, LUVAS, Hisar, Haryana, India, Pincode 125004 ----- 8)Dr. L. Jino Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, India, Pincode: 600119 ----- 9)Mr. Amancha Thirupathi Address of Applicant :Assistant Professor, Department of Physics, Malla Reddy Engineering College (Autonomous), Maisamaguda, Secunderabad, Hyderabad, Telangana, India, Pincode: 500100 ----- 10)Dr. Sumanta Bhattacharya Address of Applicant :Research Scholar, Department of Textile Technology, MAKAUT, Kolkata, West Bengal, India, Pincode: 700064 -----
(51) International classification	:F24S0060300000, F24S0010400000, C09D0005080000, F24S00550000000, F24H0009200000	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention pertains to a nanocoated solar water heater system designed to elevate the efficiency and durability of traditional solar water heating. By utilizing a specially-engineered nanocoating on the solar collector surface, the system maximizes sunlight absorption and reduces heat losses, leading to enhanced performance. In addition, the nanocoating offers inherent anti-corrosive properties and the potential for aesthetic customizations. Embedded micro-sensors enable real-time monitoring, providing users with valuable feedback and predictive insights. This holistic approach amalgamates efficiency, durability, aesthetics, and smart features, setting a new benchmark in solar water heating solutions.

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



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

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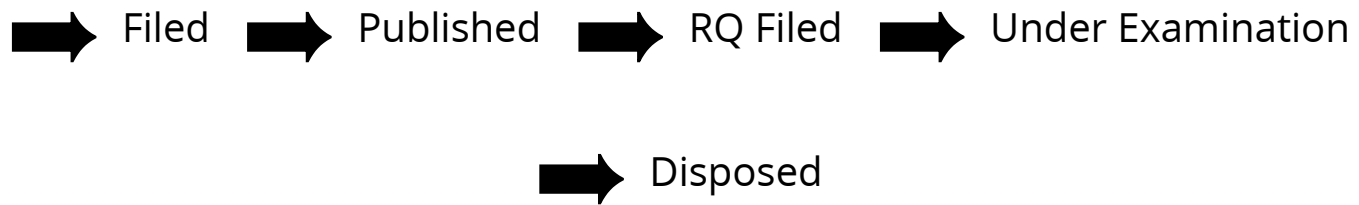
Application Details

APPLICATION NUMBER	202221069654
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/12/2022
APPLICANT NAME	MISS MINAJ MAKABUL FARAS
TITLE OF INVENTION	"A METHOD OF PREPARATION OF LANTHANUM STRONTIUM MANGANITE DOPED AMMONIUM ZINC PHOSPHATE-BASED ELECTRODE FOR SUPERCAPACITOR APPLICATION."
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	minajfaras96@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	02/02/2024
PUBLICATION DATE (U/S 11A)	27/01/2023

Application Status

APPLICATION STATUS	Application referred u/s 12 for examination.
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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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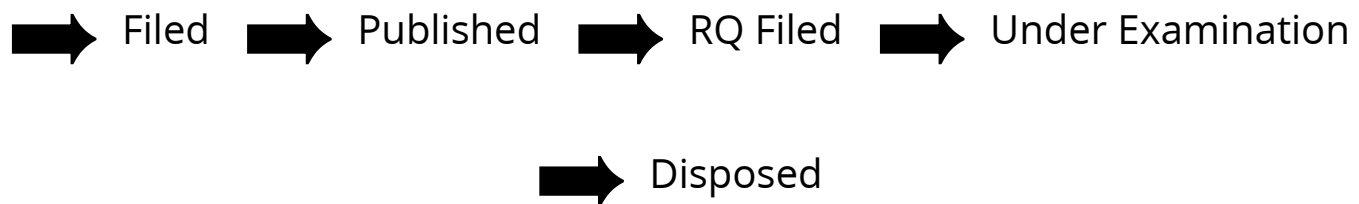
Application Details

APPLICATION NUMBER	202321026489
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/04/2023
APPLICANT NAME	MR.KIRAN VINAYAK MADHALE
TITLE OF INVENTION	A METHOD OF PREPARATION OF TERMINALIA CATAPPA DOPED LANTHANUM STRONTIUM MAGNETITE MATERIAL ELECTRODE FOR SUPERCAPACITOR APPLICATION
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	kiranmadhale807@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	05/02/2024
PUBLICATION DATE (U/S 11A)	27/10/2023

Application Status

APPLICATION STATUS	Application Awaiting Examination
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ORIGINAL

क्रम सं/ Serial No.: 153355



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.

400871-001

तारीख / Date

29/11/2023

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **SOLAR POWERED HAND LENSE AND TORCH** से संबंधित है, का पंजीकरण, श्रेणी 26-02 में 1.Miss. Anita Balbhim Mamlayya 2. Dr. Vijayalaxmi Balbhim Mamlayya 3.Dr. Amol Balbhim Mamlayya 4.Dr. Vishwajeet Mahadev Lagade 5.Dr. Shital Shantaram Taware 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 26-02 in respect of the application of such design to **SOLAR POWERED HAND LENSE AND TORCH** in the name of 1.Miss. Anita Balbhim Mamlayya 2. Dr. Vijayalaxmi Balbhim Mamlayya 3.Dr. Amol Balbhim Mamlayya 4.Dr. Vishwajeet Mahadev Lagade 5.Dr. Shital Shantaram Taware.

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.

जारी करने की तिथि : 11/01/2024
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 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.

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 38/2023
ISSUE NO. 38/2023

शुक्रवार
FRIDAY

दिनांक: 22/09/2023
DATE: 22/09/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : “NOMURAEA RILEYI EXHIBITED NOTABLE BIOEFFICACY AGAINST HELICOVERPA ARMIGERA (HUBNER) LARVAE, LEADING TO ALTERATIONS IN PROTEIN PROFILE: A PROMISING STRATEGY FOR PEST MANAGEMENT”

(51) International classification :C12N0001140000, G01N0033680000, C12Q0001370000, A23L0002660000, C07K0016400000

(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)Miss. Ashiya Munir Momin

Address of Applicant :Arts, Science and Commerce College, Ramanandnagar (Burli) Kirloskarwadi, Tal. Palus, Dist. Sangli, Maharashtra- 416308 -----

2)Dr. Savita Pravin Nalawade

3)Dr. Abhaykumar Sadashivrao Bagde

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Miss. Ashiya Munir Momin

Address of Applicant :Arts, Science and Commerce College, Ramanandnagar (Burli) Kirloskarwadi, Tal. Palus, Dist. Sangli, Maharashtra- 416308 -----

2)Dr. Savita Pravin Nalawade

Address of Applicant :D. P. Bhosale College, Koregaon Rahimatpur Road, Tal- Koregaon, Dist.- Satara Maharashtra 415 501. -----

3)Dr. Abhaykumar Sadashivrao Bagde

Address of Applicant :Department of Entomology, RSCM College Of Agriculture, Kolhapur, Maharashtra-416004 -----

(57) Abstract :

The present invention relates to *Nomuraea rileyi* exhibited notable bioefficacy against *Helicoverpa armigera* (Hubner) larvae, leading to alterations in protein profile in pest management. The *Helicoverpa armigera* is one of the most serious polyphagous pests of many economically important crops. *Nomuraea rileyi*, an effective entomopathogenic fungus for controlling *H. armigera*, offers several advantages over other synthetic insecticides. In this study, an *N. rileyi* LC50 concentration of 1.97×10^6 spores/ml is applied to the 4th larval instar of *H. armigera* to investigate its impact on the total protein and protease activity of the larval body homogenate. Additionally, qualitative analysis of proteins in healthy developmental stages of *H. armigera* larvae and in *N. rileyi*-treated larvae is conducted using SDS-PAGE. The present investigation reported differences in SDS-protein bands between the control untreated and treated groups. SDS-PAGE analysis of the total body homogenate demonstrated that some proteins are down regulated upon treatment with *N. rileyi*. Quantitative analysis of total protein content and proteolytic activity revealed a significant decrease ($p < 0.05$) in the total protein content of larval bodies and a significant increase ($p < 0.05$) in protease activity in *N. rileyi*-treated larvae compared to the control larvae. The data from this study help in understanding how *N. rileyi* can effectively control *H. armigera*.

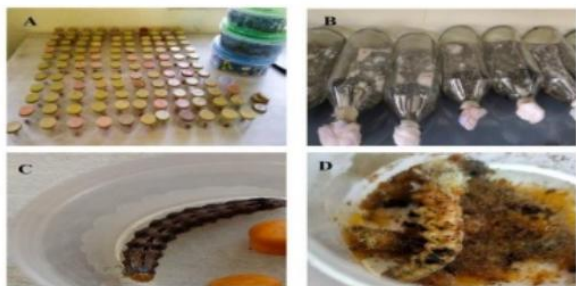


Fig.1 Photographs showing A.Rearing of *H.armigera* B. Maintenance of *N. rileyi* fungal culture C. *H. armigera* larvae without treatmentD. *H. armigera* larvae after treatment with *N.rileyi*.

No. of Pages : 18 No. of Claims : 2