

(12) PATENT APPLICATION PUBLICATION

(21) Application No 202411027350 A

(19) INDIA

(22) Date of filing of Application 02/04/2024

(43) Publication Date 26/07/2024

(54) Title of the invention A SYSTEM AND METHOD FOR DYNAMIC PROGRAMMING-BASED INSERTION SORT (DPIS)

(51) International classification G06Q0010060000, G10L0015120000, G06F0009148000, G01N0033680000, G06F0007240000

(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) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) SAURABH SINGH

Address of Applicant Department of Information Technology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

2) SARVPAL SINGH

Address of Applicant Department of Information Technology and Computer Applications, Madan Mohan Malviya University of Technology, Gorakhpur, Uttar Pradesh- 273016 Gorakhpur -----

(57) Abstract :

ABSTRACT The present invention relates to a system and method for dynamic programming-based insertion sort (DPIS). The invention provides a system and method that combines dynamic programming with branch and bound ideas in order to enhance the performance of insertion sort. Dynamic programming breaks down a problem into smaller, overlapping sub-problems and solves each sub-problem only once.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411034959 A

(19) INDIA

(22) Date of filing of Application :02/05/2024

(43) Publication Date : 09/08/2024

(54) Title of the invention : A GREEN SHIELD BIOFUNGICIDE COMPOSITION AND ITS METHOD OF PREPARATIONS FOR PROLONGING THE QUALITY AND SHELF LIFE OF STRAWBERRY

(51) International classification :A23B0007155000, A23B0007154000, A01N0031080000, A61P0017000000, A61K0031045000

(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)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MS. MANSI

Address of Applicant :Department of Botany, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

2)PROF. POOJA SINGH

Address of Applicant :Department of Botany, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

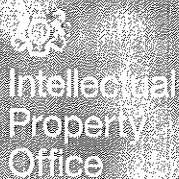
3)MR. RITESH KUMAR RAI

Address of Applicant :Department of Botany, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

(57) Abstract :

ABSTRACT The present invention relates to the green shield biofungicide composition and its method of preparations for prolonging the quality and shelf life of strawberry after postharvest. The fungicides, with plant essential oils (EOs) provides no toxicity to humans and are biodegradable, non-persistent in nature, and cost-effective, EOs are the complex mixtures of volatile compounds synthesized by plants, have efficacy in combating various pathogens, including those affecting strawberries mainly, Botrytis cinerea and Colletotrichum spp causing severe fruit losses in this industry.

No. of Pages : 29 No. of Claims : 3



Certificate of Registration for a UK Design

Design number: 6357927

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. S. Anuradha, Dr. Tejaswini Prasad Babar, Dr. Tulika Mishra, Mrs. Shivali

Rathore, Usha Devi, Dr. Madhu ., Dr. Sima Mandal, Dr. Alka Rajput, Mr Mukul

Machhindra Barwant, Dr. Ruchita Shrivastava

in respect of the application of such design to:

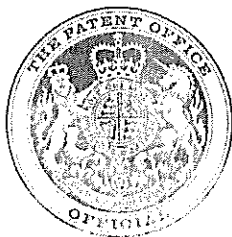
BIOSENSOR DEVICE FOR TARGETED DRUG DELIVERY

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.



ORIGINAL

क्रम सं/ Serial No.: 1720015

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. : 413528-001
 तारीख / Date : 15/04/2024
 पारस्परिकता तारीख / Reciprocity Date* :
 देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AGRICULTURE APPARATUS FOR PREVENTING PESTS IN GREENHOUSE** से संबंधित है, का पंजीकरण, श्रेणी 15-03 में 1.Dr. Ragini Sikarwar 2. Dr. Roopa S. 3.Dr Farzana Tasneem Mi 4.Dr. Ruchita Shrivastava 5.Dr Tulika Mishra 6.Dr. Sanjeeb Kumar Nath 7.Dr. Parinitha Mahishi 8.Dr. Prashant G.P. 9.Dr. Pavithra Kumari H. G. 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 **AGRICULTURE APPARATUS FOR PREVENTING PESTS IN GREENHOUSE** in the name of 1.Dr. Ragini Sikarwar 2. Dr. Roopa S. 3.Dr Farzana Tasneem Mi 4.Dr. Ruchita Shrivastava 5.Dr Tulika Mishra 6.Dr. Sanjeeb Kumar Nath 7.Dr. Parinitha Mahishi 8.Dr. Prashant G.P. 9.Dr. Pavithra Kumari H. G..

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 : 06/06/2024
 Date of Issue :



(Signature)
 कुलत पी तंडित

महानिर्णयक 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 नियमों 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.202411031593 A

(19) INDIA

(22) Date of filing of Application :20/04/2024

(43) Publication Date : 26/07/2024

(54) Title of the invention : AN ENZYME COCKTAIL AND AN ENZYME COCKTAIL BASED DEINKING METHOD FOR PRINTED SHEETS

(51) International classification
D21C0005020000, D21C0009100000,
D21C0005000000, C12N0009240000,
A61K0031700000

(86) International Application No
Filing Date
NA
NA

(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

(71)Name of Applicant :

1)Deen Dayal Upadhyaya Gorakhpur University

Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh- 273009 273009 -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)AIMAN TANVEER

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

2)SUPRIYA GUPTA

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

3)DINESH YADAV

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

(57) Abstract :

ABSTRACT The present invention relates to the enzyme cocktail and an *Aspergillus assiutensis* enzyme cocktail based deinking method for printed sheets. The pulp composition and the deinking performed with the fungus isolated from the soil sample. The deinking qualities of both chemical and enzymatic deinking are evaluated and compared. The physiochemical parameter of the effluent like TDS was reduced (397 ppm) significantly in comparison to chemical deinking and it was within the permissible limit. While BOD and alkalinity were reduced when the enzymes and chemical dosage were used in combination. A 26% decrease in the kappa number and a maximum reduction was observed in Hex A of the pulp was observed on the treatment of the pulp with enzyme as compared to the control pulp without any treatment.

No. of Pages : 34 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411031591 A

(19) INDIA

(22) Date of filing of Application :20/04/2024

(43) Publication Date : 05/07/2024

(54) Title of the invention : A METHOD OF ENHANCED BIO-RETTING OF NATURAL FIBERS USING PECTINASES

(51) International classification :D01C0001020000, D06M0016000000, D01C0001040000, D06M0101060000, C08L0097020000

(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)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHRUTI DWIVEDI

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

2)DINESH YADAV

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

(57) Abstract :

ABSTRACT The present invention relates to a method of enhanced bio-retting of natural fibers using pectinases produced by an indigenous soil fungi. The process of retting was performed in a pH buffer characterized by the pectinase of the isolate. The optimal buffer and stems were compared with untreated stems and stems treated with EDTA (chelating agent to trap pectin-like molecules). The stems with enzyme treatment showed better retting and the enzyme was stable through the process.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No 202411031592 A

(19) INDIA

(22) Date of filing of Application 20/04/2024

(13) Publication Date 26/07/2024

(54) Title of the invention : AN ENHANCED METHOD OF RETTING AND CLARIFICATION OF FRUIT JUICE USING PECTINASE FROM AN INDIGENOUS SOIL FUNGI

(51) International classification C12N1/14, A23L2/02, A23L2/06, A23L2/70, A23L2/84

(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) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant : Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) SHIRUTI DWIVEDI

Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 273009 -----

2) DINESH YADAV

Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 273009 -----

(57) Abstract :

ABSTRACT The present invention relates to the process of retting of Hemp fibers, and fruit juice clarification for apple and tangerine juice. The invention provides isolating crude pectinases from indigenous soil fungi *Diaporthe tectonae* and using pectinases for retting of Hemp fibers, and fruit juice clarification for apple and tangerine juice is enhanced and better in comparison to untreated products. Published with Figures 1 and 2

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411033369 A

(19) INDIA

(22) Date of filing of Application :26/04/2024

(43) Publication Date : 05/07/2024

(54) Title of the invention : A MULTI-ENZYME COCKTAIL MEDIATED PREPARATION OF HANDMADE SEED PAPER USING AGRICULTURAL WASTE

(51) International classification :C12R0001125000, C11D0003386000, C12N0009420000, A23K0020189000, C12P0019020000

(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)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)AIMAN TANVEER

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

2)SUPRIYA GUPTA

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

3)DINESH YADAV

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

(57) Abstract :

ABSTRACT The present invention relates to a method of preparing eco-friendly seed paper using bacterial enzymes (cellulase, amylase, pectinase, and protease). All the enzymes exhibited pH optima in the acidic range except proteases. The bacterial strain has been identified by morphological, biochemical, and molecular sequencing as *Bacillus subtilis*. This process reuses agro-waste such as sugarcane bagasse and wheat straw for the preparation of handmade paper using enzyme cocktail from *B. subtilis*. Plant seeds have been incorporated into the prepared hand sheets that will serve as sustainable stationery.

No. of Pages : 29 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411033370 A

(19) INDIA

(22) Date of filing of Application : 26/04/2024

(43) Publication Date : 26/07/2024

(54) Title of the invention : A METHOD FOR CALCIUM-PECTATE GEL SHEETS FORMATION USING PECTINASE

(51) International classification : A61K9/70, A61K36/062, A61K31/732, A61K47/36, B65D65/00

(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

(71)Name of Applicant :

1)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHRUTI DWIVEDI

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

2)DINESH YADAV

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

(57) Abstract :

ABSTRACT The present invention relates to the method for calcium-pectate gel sheet formation using pectinase from indigenous soil fungi as an aid to sustainable packaging material. This sustainable process of calcium pectate gel sheet formation was deduced and used indigenous soil fungi *Aspergillus foetidus* and *Fusarium falciforme* to make calcium divalent ions mixed sheets. The crude enzyme is used directly for application, and sturdy sheets are obtained which can be an aid for packaging materials.

No. of Pages : 22 No. of Claims : 6



ORIGINAL

क्रम-सं/Serial No.: 1743365

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. : 416425-001

तारीख / Date : 10/05/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **GEL ELECTROPHORESIS APPARATUS FOR ANALYSING PLANT GENETIC MATERIAL** से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Ruchita Shrivastava 2. Mr. Mukul Machhindra Barwant 3.Dr. Tulika Mishra 4.Dr. Tejaswini Prasad Babar 5.Dr. Harshal V. Poojari 6.Usha Devi 7.Dr. Shilpa Shitole 8.Dr. Sima Mandal 9.Dr. Sanjeeb Kumar Nath 10.Dr. Bhupeshkumar Keshorao Mendhe 11.Dr. S. Senthil Kumar 12.Ms. Varuna Kumaravel, और अन्य 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 **GEL ELECTROPHORESIS APPARATUS FOR ANALYSING PLANT GENETIC MATERIAL** in the name of 1.Dr. Ruchita Shrivastava 2. Mr. Mukul Machhindra Barwant 3.Dr. Tulika Mishra 4.Dr. Tejaswini Prasad Babar 5.Dr. Harshal V. Poojari 6.Usha Devi 7.Dr. Shilpa Shitole 8.Dr. Sima Mandal 9.Dr. Sanjeeb Kumar Nath 10.Dr. Bhupeshkumar Keshorao Mendhe 11.Dr. S. Senthil Kumar 12.Ms. Varuna Kumaravel, et al.

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 : 04/07/2024
Date of Issue



[Signature]
इन्सॉल्वेन्सी ऑफिस

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 निर्बन्धनों 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.202411037656 A

(19) INDIA

(22) Date of filing of Application :13/05/2024

(43) Publication Date : 09/08/2024

(54) Title of the invention : POTATO STARCH BASED COMPOSITE ELECTROLYTE FOR ENERGY APPLICATION

(51) International classification C08K0005134000, A23N0012020000, C04B0035320000, I101M0008125300, H01M0008102300

(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)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KM. JYOTI RAI

Address of Applicant :Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

2)MANINDRA KUMAR

Address of Applicant :Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

3)DEEPASHI SHEKHAR SAINI

Address of Applicant :Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

4)PRASHANT SHAHI

Address of Applicant :Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

(57) Abstract :

ABSTRACT The present invention relates to the potato starch based composite electrolyte for energy application. Solid biopolymer electrolytes based on potato starch (PS), sodium iodide (NaI), and dispersed with Ce substituted cobalt ferrite (CoFe_{1.95}Ce_{0.05}O₄) as ceramic nanofillers were synthesized via a solution casting technique

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411039116 A

(19) INDIA

(22) Date of filing of Application :18/05/2024

(43) Publication Date : 09/08/2024

(54) Title of the invention : MULTIPLE ENZYME PRODUCTION BY ASPERGILLUS FLAVUS ISOLATED FROM ENRICHMENT CULTURE USING VEGETABLE WASTE

(51) International classification	C12R0001670000, C22B0007000000, C02F0103320000, C12N0015800000, C12N0009300000	(71)Name of Applicant : 1)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----
(86) International Application No	NA	Name of Applicant : NA
Filing Date	NA	Address of Applicant : NA
(87) International Publication No	NA	(72)Name of Inventor : 1)AIMAN TANVEER Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -
(61) Patent of Addition to Application Number	NA	2)SUPRIYA GUPTA Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -
Filing Date	NA	3)DINESH YADAV Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -
(62) Divisional to Application Number	NA	
Filing Date	NA	

(57) Abstract :

ABSTRACT The present invention relates to the enzyme production by *Aspergillus flavus* and the method of isolating enzymes by this strain isolated from enrichment culture. The invention provides a waste valorization method to produce multi-enzymes from fungi isolated from an enrichment culture. An enrichment culture was used for the isolation of fungus and multienzyme production through the valorization of vegetable waste. The process of valorization is an efficient method for degrading waste to produce industrially important enzymes. The strain can: (i) grow and metabolize the substrate, and (ii) produce a variety of enzymes on waste vegetables.

No. of Pages : 33 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411039115 A

(19) INDIA

(22) Date of filing of Application : 18/05/2024

(43) Publication Date : 26/07/2024

(54) Title of the invention : A METHOD OF ISOLATING RHIZOSPHERIC BACTERIAL STRAINS

(51) International classification : C05F0011080000, C12N0015820000, C05G0003000000, A01N0063200000, C12N0005040000

(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) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant : Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) PROF. RAJARSHI KUMAR GAUR

Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

2) MS. NEETU SINGH YADAV

Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

(57) Abstract :

ABSTRACT The present invention relates to the method of isolating Nine Rhizospheric bacterial strains that have the capability to enhance the root and shoot length of Plants and increase crop productivity

No. of Pages : 23 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No 202411039803 A

(19) IN DIA

(22) Date of filing of Application : 22/05/2024

(43) Publication Date : 26/07/2024

(54) Title of the invention : A RADIAL CHROMATOGRAPHIC CUM MOLECULE FRACTIONATOR THAT CAN BE FITTED ON ROTOR

(51) International classification : G01N0030380000, B04B0005040000, G01N0030600000, A61H0007000000, G01N0030000000

(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) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant : Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) PROF. RAJARSIII KUMAR GAUR

Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

2) MR. SANDEEP MISHRA

Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

(57) Abstract :

ABSTRACT The present invention relates to a radial chromatographic cum molecule fractionator that can be fitted on rotor. This is a cost-effective apparatus/ rotor-head that reduces the time of radial centrifugation (of paper chromatography) increasing/introducing centrifugal force on the paper. The rotor head differentiates the fraction of any solution quickly and, increases the amount of centrifugal force. The apparatus is a head that can be fitted on any rotor shaft that can perform radial chromatography in seconds, and there can be separate head for the centrifugation by chromatographic head to perform enrichment, molecular fractionation, and chromatography itself.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411028451 A

(19) INDIA

(22) Date of filing of Application :06/04/2024

(43) Publication Date : 26/07/2024

(54) Title of the invention : A PROCESS OF BIOREMEDIATION AND PLANT GROWTH PROMOTION USING BACTERIUM STRAIN HAVING RESISTANCE TO ARSENIC

(51) International classification		C02F3/34, C12N1/20, A01N63/20, C05F11/08	(71) Name of Applicant :
(86) International Application No		NA	1) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY
Filing Date		NA	Address of Applicant : Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----
(87) International Publication No		NA	Name of Applicant : NA
(61) Patent of Addition to Application Number		NA	Address of Applicant : NA
Filing Date		NA	(72) Name of Inventor :
(62) Divisional to Application Number		NA	1) PRIYANKA BHARTI
Filing Date		NA	Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -
			2) SARAD KUMAR MISHRA
			Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

(57) Abstract

ABSTRACT The present invention relates to the process of bioremediation and plant growth promotion using bacterium strain having resistance to arsenic. The invention provides bacterium strain having resistance to and its method of isolation

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No 202411043742 A

(19) INDIA

(22) Date of filing of Application : 06/06/2024

(43) Publication Date : 27/09/2024

(54) Title of the invention : A METHOD OF PRODUCTION OF PECTINASE USING CO-CULTURE BASED SOLID-STATE FERMENTATION FOR FRUIT JUICE CLARIFICATION

<p>(51) International classification C12N0009880000, F21Y0115100000, C12M0001160000, C12M0001000000, F21V0025040000</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) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY Address of Applicant : Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72) Name of Inventor : 1) SHIRUTI DWIVEDI Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -</p> <p>2) KM. ARATI Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -</p> <p>3) DINESH YADAV Address of Applicant : Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -</p>
--	--	---

(57) Abstract :

ABSTRACT The present invention relates to the method of production of pectinase using co-culture based solid-state fermentation for fruit juice clarification. Two fungal pectinases with the highest potential for clarification of multiple fruit juices were observed without showing any fungal inhibitions when grown together. These were used for co-culture solid-state fermentation. Published with Figure 1

No. of Pages : 23 No. of Claims : 5



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. : 419638-001
तारीख / Date : 11/06/2024
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

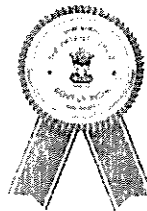
प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *ELECTRIC ASPIRATOR* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr.Neelam Kumari 2. Dr Kumari Sunita 3.Dr.Mahesh Kumar Yadav 4.Dr.Achint Verma 5.Dr. Brijesh Kumar Verma 6.Dr. Dijendra Kumar 7.Dr. Divya Sharma 8.Dr.Suyash Kumar Srivastav 9.Anshu Chauhan के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

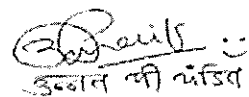
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *ELECTRIC ASPIRATOR* in the name of 1.Dr.Neelam Kumari 2. Dr Kumari Sunita 3.Dr.Mahesh Kumar Yadav 4.Dr.Achint Verma 5.Dr. Brijesh Kumar Verma 6.Dr. Dijendra Kumar 7.Dr. Divya Sharma 8.Dr.Suyash Kumar Srivastav 9.Anshu Chauhan.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्वधीन 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 : 22/08/2024




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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No 202411049875 A

(19) INDIA

(22) Date of filing of Application : 28/06/2024

(43) Publication Date : 16/08/2024

(54) Title of the invention : AN ADAPTIVE BAR MEASUREMENT DEVICE FOR PHYSICALLY DISABLED PERSON

(51) International classification G09B0021000000, G06F0003010000, A61B0034100000, A63B0071000000, G01B0011020000

(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)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. ANSHU GUPTA

Address of Applicant Department of Commerce, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -

2)MR. ASHISH RANJAN

Address of Applicant Hotel Management & Catering Technology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

3)MR. KURESH KHAN

Address of Applicant Hotel Management & Catering Technology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

(57) Abstract :

ABSTRACT The present invention relates to the adaptive bar measurement device for physically disabled person. This is an accessible, user-friendly device for people with physical disabilities to measure various objects in a bar or other location. The device is adjustable handle, have tactile measurement capacity, and liquid sensor motion to suit a variety of impairments while also ensuring simplicity of use. Published with Figure 1

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202411056750 A

(19) INDIA

(22) Date of filing of Application : 25/07/2024

(43) Publication Date : 15/11/2024

(54) Title of the invention : AN INSECT REARING CHAMBER

(51) International classification A01K67/033
(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) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY
Address of Applicant : Civil Lines, Gorakhpur, Uttar Pradesh- 273009
Gorakhpur -----
Name of Applicant : NA
Address of Applicant : NA
(72) Name of Inventor :
1) MS. TAHEERA ANSARI
Address of Applicant : Department of Zoology, Deen Dayal Upadhyaya Gorakhpur
University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

2) ASST. PROF. (DR.) SUSHIL KUMAR
Address of Applicant : Department of Zoology, Deen Dayal Upadhyaya Gorakhpur
University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

(57) Abstract :

ABSTRACT The present invention relates to an insect rearing chamber which provides reproductive habitat and rearing of insect to emerge, mate and lay eggs. The chamber comprises a wooden pillar, a base made up of wood, an airy white cloth like mesh made up of plastic and muslin cloth have been used to prepare the front part or mouth part. Glue and stapler pins have been used to stick the fabric to the four pillars and base white thread and needle have been used to make the mouth part. This oviposition chamber can be used in different ways in almost every field, sometimes to raise insects, for their maintenance and it is also used in other field experiments. It is very useful because it is very airy and transparent.

No. of Pages : 30 No. of Claims : 5



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



Application Details

APPLICATION NUMBER	202411079384
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/10/2024
APPLICANT NAME	DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY
TITLE OF INVENTION	A SYNERGISTIC BACTERIAL FORMULATION AND ITS METHOD OF PREPARATION
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	srmsvsrr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	23/11/2024
PUBLICATION DATE (U/S 11A)	06/12/2024

3) Filed National Patent for the invention entitled "Synergistic bacterial formulation for plant growth promotion in arsenic stressed soil." (Patent filed)- Patent Application number- 202411064059 dated 24/08/2024 -Inventor(s)- Priyanka Bharti and Sarad Kumar Mishra.



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



Application Status

APPLICATION STATUS

Awaiting Complete Specification



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

4) International Patent (UK- Design) for the invention entitled " Electromagnetic sieve shaker for herbal drug particle separation" (Granted)- Design number -

Priority NA

Design Number

430633-001

Class

15-03

1. Dr. Kumari Samita Assistant Professor, Department of Botany, Deen Dayal Upadhyaya Gorakhpur University Gorakhpur Pin-273009, Uttar Pradesh 2. Prof. (Dr.) B.K Sarkar Research Complex -Geh Research, T "A" 1104,Chembur -400071, M West, Mumbai, MH, India. 3. Prof.(Dr.) Reena Singh Co-Founder, Research Unit -Geh Research LLP, Office T "A" 1104,Chembur -400071, M West, Mumbai, MH, India. 4. Mr. Pawan Kumar Singh Founder -Geh Press, Research Complex 2nd F, Rajeev Nagar, Lucknow I.P, India-226002

Date of Registration

16/09/2024

Title

AI BASED PLANT STRESS DETECTING
DEVICE

Priority NA

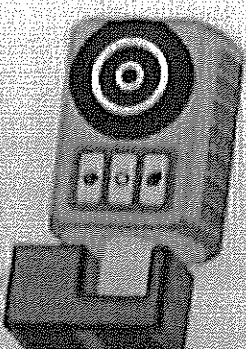
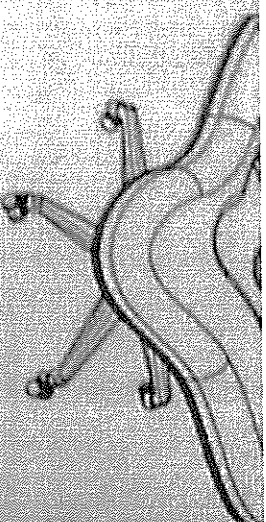
Design Number

430657-001

Class

15-01

Dr. Arundhati Rahul Sonawane Assistant Professor in Botany, Bhonsala Mahars College, Gangapur Road, Nashik, Pin- 422005, Maharashtra, India 2. Dr. Ayees John Kharwal Assistant Professor in Zoology, MCA V's Jalantak



(12) PATENT APPLICATION PUBLICATION

(21) Application No 202411073027 A

(19) INDIA

(22) Date of filing of Application : 27/09/2024

(43) Publication Date : 15/11/2024

(54) Title of the invention : A METHOD OF PREPARING ANTIBACTERIAL SPRAY BOTANICAL EXTRACT FROM LANTANA CAMER

(51) International classification : A01N65/00, A01N65/08,
A61K36/85
(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) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY
Address of Applicant : Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA
Address of Applicant : NA
(72) Name of Inventor :
1) DR. SMRITI MALL
Address of Applicant : Asst. Prof., Molecular Plant Pathology Laboratory,
Department of Botany, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines,
Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

(57) Abstract :

ABSTRACT The present invention relates to the method of preparing antibacterial spray botanical extract from Lantana Camara unripe green berries actively suppresses phytoplasma symptoms in symptomatic Chilli plants. The present invention provides an approach to manage the symptoms of phytoplasma diseases in significant agricultural and economically valuable crops. This method is straightforward, environmentally friendly, and easily recommended to farmers.

No. of Pages : 21 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411052612 A

(19) INDIA

(22) Date of filing of Application :10/07/2024

(43) Publication Date : 27/09/2024

(54) Title of the invention : A HETEROEPITAXIAL BETA-PHASE GALLIUM OXIDE ON 4H-SILICON CARBIDE SUBSTRATE BASED DEVICE AND ITS METHOD OF FABRICATION

(51) International classification	H01L0029660000, H01L0029780000, H01L0021020000, H01L0029510000, H01L0021280000	(71)Name of Applicant : 1)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----
(86) International Application No	NA	Name of Applicant : NA
Filing Date	NA	Address of Applicant : NA
(87) International Publication No	NA	(72)Name of Inventor : 1)NARENDRA YADAVA
(61) Patent of Addition to Application Number	NA	Address of Applicant :Department of Electronics and Communication Engineering, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----
Filing Date	NA	2)RAJEEV KUMAR CHAUHAN
(62) Divisional to Application Number	NA	Address of Applicant :Department of Electronics and Communication Engineering, Madan Mohan Malviya University of Technology, Gorakhpur, Uttar Pradesh- 273016 Gorakhpur -----
Filing Date	NA	

(57) Abstract :

ABSTRACT The present invention relates to a heteroepitaxial beta-phase gallium oxide on 4H-silicon carbide substrate based device for negative capacitance field effect transistor (NCFET) in RF applications and its method of fabrication. The device has a stacked structure of ferroelectric HfO₂ with Al₂O₃ for gate insulator, which is used to obtain negative capacitance behaviour in the device. Published with Figure 1 (a,b)

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No 202411078833 A

(19) INDIA

(22) Date of filing of Application : 17/10/2024

(43) Publication Date : 29/11/2024

(54) Title of the invention : A MANGANESE BASED WATER SPLITTING/ OXYGEN EVOLVING COMPOSITION AND ITS METHOD OF PREPARATION

(51) International classification C05D9/02, C01G45/10
(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) DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY
Address of Applicant : Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA
Address of Applicant : NA
(72) Name of Inventor :
1) DR. RAMWANT GUPTA
Address of Applicant : Department of Botany, Deen Dayal Upadhyaya Gorakhpur
University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009 Gorakhpur -----

(57) Abstract :

ABSTRACT The present invention relates to the manganese sulphate based composition which repairs water splitting complex/ oxygen-evolving complex in crop plants damaged during abiotic stresses and its method of preparation. This complex is useful to determine of the optimum level of cellular manganese concentration for healthy crop performance under abiotic stresses. Published with Figure 1

No. of Pages : 19 No. of Claims : 5



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



Application Details

APPLICATION NUMBER	202411079384
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/10/2024
APPLICANT NAME	DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY
TITLE OF INVENTION	A SYNERGISTIC BACTERIAL FORMULATION AND ITS METHOD OF PREPARATION
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	srmsvsrr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	23/11/2024
PUBLICATION DATE (U/S 11A)	06/12/2024

6400151 {Grant Date - 31/10/2024}. Sarad Kumar Mishra.



Certificate of Registration for a UK Design

Design number: 6400151

Grant date: 31 October 2024

Registration date: 25 October 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

DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY, QUANTA

CALCULUS PRIVATE LIMITED, Prof SARAD KUMAR MISHRA, Mr VIVEK

DHAR DWIVEDI, D NOOPUR SINGH, D NIKHIL RAGHUVANSHI

in respect of the application of such design to:

ELECTROMAGNETIC SIEVE SHAKER FOR HERBAL DRUG PARTICLE

SEPARATION

International Design Classification:

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411034404 A

(19) INDIA

(22) Date of filing of Application :30/04/2024

(43) Publication Date : 09/08/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR DETECTING OF BEGOMOVIRUS (PLANT VIRUS) USING AUNP-SILICON WAFER

(51) International classification :C12N0015820000, C12Q0001682500, C12Q0001700000, G01N0033487000, C12Q0001683400

(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)DEEN DAYAL UPADHYAYA GORAKHPUR UNIVERSITY

Address of Applicant :Civil Lines, Gorakhpur, Uttar Pradesh Gorakhpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PROF. RAJARSHI KUMAR GAUR

Address of Applicant :Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Civil Lines, Gorakhpur, Uttar Pradesh- 273009, Gorakhpur

2)MR. RAKESH KUMAR VERMA

Address of Applicant :Department of Biological Sciences, Mody University of Science and Technology, Lakshmangarh, Dist. Sikar, Rajasthan- 332311
Lakshmangarh -----

(57) Abstract :

ABSTRACT The present invention relates to a system and method for detecting of Begomovirus (plant virus) using AuNP-Silicon wafer. An early detection biosensor is provided using gold nano particle-silicon wafer on which the ssDNA probe (begomovirus specific primer) is immobilized. The hybridization with the complementary target ssDNA at room temperature for 30 minutes. CV and EIS will be used to characterize the hybridization.

No. of Pages : 15 No. of Claims : 5



Register information Utility model

DE file number : 20 2023 107 712.9 (Status: pending/in force, Query started:
March 14, 2024)

Please note: This English version is a non-binding translation of the German
register excerpt. Only the German version of the register excerpt is legally
binding.

Entry 1/1

[Search](#) [Result list](#)

MASTER DATA

INID	Criterion	Field	Content
	Type of IP right	SART	Utility model
	Status	ST	Pending/in force
21	DE file number	DAKZ	20 2023 107 712.9
54	Designation/title	TI	Ein System zur Isolierung und Strukturbestimm Arctigenin aus Ipomoea Cairica-Blättern
51	IPC main class	ICM (ICMV)	A61K 36/39 (2006.01)
51	IPC secondary class(es)	ICS (ICSV)	A61K 31/365 (2006.01) , A61P 31/12 (2006.01) , A61P 25/00 (2006.01) , A61P 29/00 (2006.01) , A61P 35/00 (2006.01) , G01N 30/02 (2006.01)
22	DE application date	DAT	Dec 30, 2023
47	Date of registration	ET	Feb 1, 2024
45	Date of publication of the registration in the patent gazette	PET	Mar 14, 2024
71/73	Applicant/owner	INH	Srivastava, Deepa, Gorakhpur, Uttar Pradesh, IN
74	Representative	VTR	LIPPERT STACHOW Patentanwälte Rechtsanw. Partnerschaft mbB, 46117 Oberhausen, DE
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PROCEDURAL DATA

No.	Kind of procedure	Legal status	Date of legal/procedural status ▲	Date of first publication	Displ
1	Pre-registration procedure	The application is under preliminary examination	Dec 30, 2023		Displ
2	New representative details	New representative details	Jan 9, 2024		Displ
3	Utility model procedure	Registration of utility model	Feb 1, 2024		Displ
4	Publications	Utility model specification	Mar 14, 2024	Mar 14, 2024	Displ

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Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2023 107 712

Bezeichnung:

Ein System zur Isolierung und Strukturbestimmung von Arctigenin aus Ipomoea
Cairica-Blättern

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Inhaber/Inhaberin:

Srivastava, Deepa, Gorakhpur, Uttar Pradesh, IN

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Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior

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