



Intellectual  
Property  
Office

## Certificate of Registration for a UK Design

Design number: 6304727

Grant date: 01 September 2023

Registration date: 22 August 2023

### This is to certify that,

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

Dr. Rangnath Ravi, Dr. Abhijeet Mishra, Prof. Dr. Biplab Kumar Sarkar, Dr.

Shamla Mantri, Prof. Dr. Reena Singh, Mr. Pawan Kumar Singh

in respect of the application of such design to:

INTELLIGENT SURGICAL MICROSCOPE

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.



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

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

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निर्गमन सं. 25/2023  
ISSUE NO. 25/2023

शुक्रवार  
**FRIDAY**

दिनांक: 23/06/2023  
DATE: 23/06/2023

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : TRANS-DIFFERENTIATION OF A SUBPOPULATION OF WHARTON JELLY DERIVED MESENCHYMAL STEM CELLS (WJ-MSCS) IN HUMAN ASTROCYTES FOR POSSIBLE TREATMENT OF NEURODEGENERATIVE DISORDERS

<p>(51) International classification :A61K 352800, A61P 252800, C12N 050775, C12N 050790, G06T 050000</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 :</p> <p><b>1)Dr. Sanjeev Gautam</b> Address of Applicant :Associate Professor and Head, Department of Biotechnology, Institute of Integrated and Honors Studies, Kurukshetra University Kurukshetra -----</p> <p><b>2)Dr. Anal Kant Jha</b> <b>3)Dr. Shiv Kumar Giri</b> <b>4)Dr. Sunil Kumar Rai</b> <b>5)Dr. Abhijeet Mishra</b> <b>6)Dr VIKASH KUMAR</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p><b>1)Dr. Sanjeev Gautam</b> Address of Applicant :Associate Professor and Head, Department of Biotechnology, Institute of Integrated and Honors Studies, Kurukshetra University Kurukshetra -----</p> <p><b>2)Dr. Anal Kant Jha</b> Address of Applicant :Associate Professor, Department of Biotechnology, O P Jindal University, Punjipathra, Raigarh, Chhattisgarh Raigarh -----</p> <p><b>3)Dr. Shiv Kumar Giri</b> Address of Applicant :Associate Professor, Department of Biotechnology, School of Basic and Applied Sciences, Maharaja Agrasen University, Baddi Baddi -----</p> <p><b>4)Dr. Sunil Kumar Rai</b> Address of Applicant :Assistant Professor, Department of Cell and Molecular Biology -----</p> <p><b>5)Dr. Abhijeet Mishra</b> Address of Applicant :Assistant professor, Department of Biochemistry, Shivaji college , University of Delhi Delhi -----</p> <p><b>6)Dr VIKASH KUMAR</b> Address of Applicant :GENERAL MANAGER, GREEN LAXMI FOODS, VELLAMADAI, 641110 COIMBATORE -----</p>
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## (57) Abstract :

Trans-differentiation of a subpopulation of Wharton Jelly derived mesenchymal stem cells (WJ-MSCs) in human astrocytes for possible treatment of neurodegenerative disorders is the proposed invention. The proposed invention focuses on trans-differentiation of a sub-population of Wharton Jelly derived mesenchymal stem cells (WJ-MSC's) in human astrocytes. The present invention aims at achieving the possible treatment of neurodegenerative disorders.

No. of Pages : 14 No. of Claims : 5

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शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : SYNTHESIS OF CLAY-BASED NANOSCALE PIGMENTS

(51) International classification :C02F0001280000, B82Y0005000000, B01J0020120000, A61K0008490000, A61K0008290000

(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 :

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**2)Dr. Neeraj Kumari****3)Dr. Mozghan Afshari****4)Dr. Lata Vodwal****5)Dr. Priyanka Dhaka****6)Ms. Jenifer Robinson**

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Address of Applicant : NA

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Address of Applicant :Research Scholar, School of Basic &amp; Applied Sciences, K R Mangalam University, Gurugram 122103, Haryana, India -----

## (57) Abstract :

ABSTRACT Synthesis of clay-based nanoscale pigments comprising adding 5 g of clay/clay minerals (Mt/Vt) in 400 mL of double distilled water, wherein clay is pristine clay; stirring the mixture for 24 hrs; adding 100 mL of 2% cetylpyridinium chloride (CPC) in clay suspension, after stirring of 5-6 hrs; stirring the mixture for 2 hrs and keeping the dispersion for settling down; centrifugating the dispersion at 8000 rpm for 20 min for separating residue from the supernatant; obtaining dust by air-drying the remnants and crushing them using a pestle and mortar; designating modified clay as organo clays Montmorillonite and Vermiculite (OMt and OVt); performing adsorption efficiencies of pristine and organo clays; interacting with cationic and anionic dyes; and drying at 80 DEG C for obtaining clay nanopigments. FIG.1

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411051315 A

(19) INDIA

(22) Date of filing of Application :04/07/2024

(43) Publication Date : 12/07/2024

(54) Title of the invention : A SEED COATING BIOFILM COMPOSITION, PROCESS FOR PREPARING THEREOF AND USES THEREOF

(51) International classification :A01C0001060000, A61K0008490000, A01C0001020000, C02F0003100000, A61Q0017000000

(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 :

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**3)Dr. Chandra Mohan**

**4)Dr. Anoop Yadav**

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**3)Dr. Chandra Mohan**

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(57) Abstract :

The present invention discloses a seed coating biofilm composition comprising starch, clay having a weight percentage in a range of 15-25% with respect to the starch, glycerol having a weight percentage of 30% with respect to the composition, and zinc sulphate having a weight percentage in a range of 1-10% with respect to the clay. The invention also discloses a process of preparing the seed coating biofilm and method of its application on seeds to optimize nutrient usage and facilitating better germination, and yield growth by providing nutrients directly in the immediate vicinity of the germinating seed, and wherein the biofilm swells by absorbing water and disintegrates, thereby boosting the growth of seedling during its critical early stages of development.

No. of Pages : 18 No. of Claims : 6

# Urkunde

über die Eintragung des  
Gebrauchsmusters Nr. 20 2023 100 675

**Bezeichnung:**

Ein H-förmiges einheitliches lineares Array-basiertes  
Mehrfachsignalklassifizierungssystem für die Schätzung der Ankunftsrichtung

**IPC:**

G01S 3/00

**Inhaber/Inhaberin:**

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Chandraiah, Sateesh Kumar Halugona, Bengaluru, IN  
Gautam, Krishan Kant Singh, Delhi, IN  
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Kumar, Pardeep, Bhiwani, Haryana, IN  
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Shivarudraswamy, Shashidhara Kothalavadi, Alanahalli, Mysore, IN  
Veerendra, Dakulagi, Bidar, Karnataka, IN

**Tag der Anmeldung:**

13.02.2023

**Tag der Eintragung:**

21.03.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior



München, 21.03.2023



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

सत्यमेव जयते



Application Details	
APPLICATION NUMBER	202141061667
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/12/2021
APPLICANT NAME	1 . Mrs.Chinthada Devisupraja 2 . Mr.Krishan Kant Singh Gautam 3 . Dr.Rajendra Kumar 4 . Mr.Rakesh Yadav 5 . Dr.Vemuri Sailaja 6 . Dr.P.Sunitha 7 . Mrs.B.Vasanth Lakshmi 8 . Mr.G.S.Sivakumar 9 . Prof.Bibhuti Bhusan Dash 10 . Dr.Sunil Kumar Dhal
TITLE OF INVENTION	A SYSTEM FOR DETECTING THREATS IN IOT NETWORKS AND METHOD THEREOF
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	tumula.githam@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/02/2022





Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

सत्यमेव जयते



Application Details	
APPLICATION NUMBER	202041038731
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/09/2020
APPLICANT NAME	1 . Dr. Karthikeyan C 2 . Dr.Vanmathi C 3 . Ms. Harika Devi Kotha 4 . Mr.KanagarajVenusamy 5 . Dr. Navaneethan C 6 . Dr. Giriraj Mannayee 7 . Dr.Pandivelan Chinnaiyan 8 . Dr.Siva Shankar S 9 . Mr. Yogesh Kumar 10 . Mr. Krishan Kant Singh Gautam 11 . Mr. S. Sivakumar 12 . Dr.K. Parthiban Krishnamoorthy
TITLE OF INVENTION	VIRTUAL VISION SYSTEM FOR VISUALLY IMPAIRED PEOPLE AND METHOD THEREOF
FIELD OF INVENTION	ELECTRONICS
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PRIORITY DATE	
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