

AICTE ID: 1-3548321

College Code: 231

# R. D. ENGINEERING COLLEGE

Approved by AICTE New Delhi & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow under the aegis of IQAC

S.No	Date	Name of teacher	Name of Patent	Name of the professional body
1	18/08/2023	Dr. Gaurav Bansal	BUILDING AN EFFECTIVE E COMMERCE FRAUD DETECTION MODEL USING COMPUTER AI AND DATA MINING TECHNIQUES	THE PATENT OFFICE, GOVERNMENT O INDIA
2	25/07/2023	Dr. Pankaj Kumar Singh	MULTICHAMBERED DEVICE TO PERFORM PHYTOCHEMICAL ANALYSIS	THE PATENT OFFICE, GOVERNMENT O INDIA
3	21/07/2023	Dr. Dharamveer Singh	HYBRID SOLAR SYSTEM WITH N- IDENTICAL PARTLY COVERED PHOTOVOLTAIC COMPOUND PARABOLIC CONCENTRATOR COLLECTORS	OFFICAIL JOURNAL OF PATENT OFFICE
4	21/07/2023	Dr. Dharamveer Singh	HYBRID ACTIVE SOLAR DESALINATIONSYSTEM WITH PARABOLIC CONCENTRATOR COLLECTOR USING HELICALLY COILED HEAT EXCHANGER	OFFICAIL JOURNAL OF PATENT OFFICE
5	21/03/2023	Dr. Pankaj Kumar Singh	ENVIRONMENTAL MONITORING DEVICE	THE PATENT CFFICE, GOVERNMENT OF INDIA
6	8/2/2023	Dr. Pankaj Kumar Singh	CASTABLE AND CURABLE MAGNETIC CEMENT COMPOSITION AND METHOD	SOUTH AFRICAN STANDARD PATENT
7 13/01/2023 Sarthak Tyagi		Sarthak Tyagi	A NOVEL TECHNIQUE BASED ON SUPPORT VECTOR MACHINES FOR PREDICTING THE DAILY CLOSING PRICES OF SELECTED SHARES IN THE STOCK MARKET	OFFICAIL JOURNAL OF PATENT OFFICE
8	2/12/2022 Dr. Pankaj Kumar Singh		CURCUMIN COMPOSITION WITH ENHANCED BIOAVAILABILITY, ANTI- DIABETIC, ANTI-CANCER ACTIVITY	OFFICAIL JOURNAL OF PATENT OFFICE
9 21/12/2022 Dr. Gaurav Rastogi		Dr. Gaurav Rastogi	A NOVEL PROCESS FOR PREPARATION OF POLYSACCHARIDE OR ITS DERIVATIVE FROM CASSIA SEEDS	THE PATENT OFFICE, GOVERNMENT OF INDIA
10	14/10/2022	Dr. Pankaj Kumar Singh	Intelligenter Inhalator für Asthmatiker	Die Präsidentin des Deutschen Patent- und Markenamts

Director R.D. Engineering College Duhai, Ghaziabad

11	17/08/2021	Sanjay Paliwal	NOVEL CROP RECOGNITION TECHNIQUE FOR WEED CONTROL OF SELF LIFE OF CROPS AND HUMANS	COMMON WEALTH OF AUSTRALIA, PATENT OFFICE
12	4/7/2021	Sanjay Paliwal	A METHYL Hg CONTAMINATED WASTEWATER TREATMENT	COMMON WEALTH OF AUSTRALIA, PATENT OFFICE
13	26/06/2021	Dr. Vishal Upmanu	A SYSTEM FOR EXCHANGING MEDIA BETWEEN ENTITIES	COMMON WEALTH OF AUSTRALIA, PATENT OFFICE
14	21/06/2021	Dr. Pankaj Kumar Singh	AN AUTOMATED PLANTATION HEALTH MONITORING SYSTEM AND A METHOD THEREOF	COMMON WEALTH OF AUSTRALIA, PATENT OFFICE
15	30/04/2021	Dr. Pankaj Kumar Singh	A METHOD FOR TREATMENT OF METHYL Hg CONTAMINATED WATER	OFFICAIL JOURNAL OF PATENT OFFICE
16	2/4/2021	Sanjay Paliwal	A MICROBIAL CONSORTIUM FOR TREATMENT OF INDUSTRIAL WASTEWATER AND A METHOF THEREFOR	OFFICAIL JOURNAL OF PATENT OFFICE
17	23/10/2020	Dr. Pankaj Kumar Singh	A COMPUTER NETWORK SYSTEM FOR TRANSFERRING FILE USING NETWORK SOCKETS	OFFICAIL JOURNAL OF PATENT OFFICE
18	2/10/2020	Dr. Pankaj Kumar Singh	DECISION SUPPORT SYSTEM FOR ENERGY AND ENVIRONMENT SAVING	OFFICAIL JOURNAL OF PATENT OFFICE
19	28/08/2020	Dr. Pankaj Kumar Singh	HIGHLY EFFICIENT ACTIVE CARBON, THE PROCESS FOR PREPERATION AND USES THEREOF	OFFICAIL JOURNAL OF PATENT OFFICE
20	28/08/2020	Sanjay Paliwal	METHOD FOR TREATING WASTEWATER USING FLY ASH AS ADSORBENT	OFFICAIL JOURNAL OF PATENT OFFICE
21	28/08/2020	Dr. Pankaj Kumar Singh	METHOD FOR EXTRACTING GALACTOMANNAN FROM PLANT LEUCAENA LEUCOCEPHALA	OFFICAIL JOURNAL OF PATENT OFFICE
22	20/12/2019	Dr. Pankaj Kumar Singh	PEST DETECTION AND CONTROL SYSTEM IN SMART FARMING USING IOT	OFFICAIL JOURNAL OF PATENT OFFICE



# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 33/2023 ISSUE NO. 33/2023

शुक्रवार FRIDAY दिनांक: 18/08/2023 DATE: 18/08/2023

# पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 33/2023 Dated 18/08/2023

53839

Director
R.D. Engineering College
Duhai, Grazishind

(51) Specialized Specific store

Filing Date

(SE) International Application No.
Filing Date
(SE) International Particures No.
(SE) International Particures No.
(SE) International Particures in Application
Number
Filing Date
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NA NA

(22) Date of filing of Application:02/06/2023

(21) Application No.202341037908 A

(43) Publication Date: 18/08/2023

(54) Title of the invention: BUILDING AN EFFECTIVE E-COMMERCE FRAUD DETECTION MODEL USING COMPUTER AL AND DATA MINING TECHNIQUES

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De Malacington College of Engineering and Technology, Pollacta, Communicat. Translands. India Pollacta

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Akhima of Applicate: Associate Professor. Esterminus Technology. Oxfords University of Technology and

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11/Antilener Satist Hermitis de Profusie Formunde

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EliPerithra B

Address in Applicate Associate Processor, Dept of Mt.A. Departments Sugar College of Engineering,
Bangainer, Karustohn, Enths Bangainer.

(57) Abstract:

The integration rising to a system and couloid of building as a communication system with Al and Data Mining Technoques. The first comp as building as a distance of the integration of the

No. of Pages: 14 No. of Claims: 10

The Patent Office Journal No. 33/2023 Dated 18/08/2023

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# 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.

391065-001

तारीख / Date

25/07/2023

पारस्परिकता तारीख / Reciprocity Date\*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो MULTICHAMBERED DEVICE TO PERFORM PHYTOCHEMICAL ANALYSIS से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Prof Rajinder Kumar Uppal 2. Dr. K. Sarojini Chakravarthy 3.Dr. Pankaj Kumar Singh 4.Dr. Chandran Masi 5.Patrik Viktor 6.Albert Molnar 7.Monika Fodor के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया

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 MULTICHAMBERED DEVICE TO PERFORM PHYTOCHEMICAL ANALYSIS in the name of 1. Prof Rajinder Kumar Uppal 2. Dr. K. Sarojini Chakravarthy 3. Dr. Pankaj Kumar Singh 4.Dr. Chandran Masi 5.Patrik Viktor 6.Albert Molnar 7.Monika Fodor.

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

Date of Issue

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 जिसक विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियाँ अधवा 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.

# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 29/2023 ISSUE NO. 29/2023

शुक्रवार FRIDAY दिनांकः 21/07/2023 DATE: 21/07/2023

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

Director college

(19) INDIA

(51) International

(86) International

(87) International

Publication No.

Filing Date

Application Number

Filing Date (62) Divisional to

Application Number

Filing Date

(61) Patent of Addition to

Application No.

classification

(22) Date of filing of Application :29/06/2023

(21) Application No.202311043598 A

(43) Publication Date: 21/07/2023

(54) Title of the invention: HYBRID SOLAR SYSTEM WITH N-IDENTICAL PARTLY COVERED PHOTOVOLTAIC COMPOUND PARABOLIC CONCENTRATOR COLLECTORS

:F24S 237000, H01L 310540, H01L

NA

:NA

: NA

:NA

:NA

:NA

:NA

510000, H01L 514200, H02S 404400

(71)Name of Applicant:

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2)Satyaveer Singh

3)Aakersh Chauhan

4)Samsher

5) Anil Kumar

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3) Aakersh Chauhan

4)Samsher

Address of Applicant :Department of mechanical engineering. Delhi Technological University, New Delhi-110042 New Delhi ---

5)Anil Kumar

Address of Applicant :Department of mechanical engineering.

Delhi Technological University, New Delhi-110042 New Delhi ---

(57) Abstract:

The solar distillation system includes N-identical 25% partly covered photovoltaic thermal compound parabolic concentrator collectors (N-PVT-CPC), each collector having a reflective surface and a receiver area, a helically coiled heat exchanger integrated with a single slope solar distiller unit, collectors connected in series and positioned at an angle of 45° facing south, a basin fluid containing CuO nanoparticles, wherein the fluid is circulated through the heat exchange, a glass cover positioned at an inclination angle of 30° to the horizontal, covering the basin, a DC motor driven by electricity generated by the photovoltaic modules, wherein the motor operates a pump for fluid circulation, nanoparticles, specifically CuO nanoparticles, utilized for heat exchange with the basin fluid, and vapor condensation mechanism collecting condensed water at the lower ends of the inclined glass cover.

No. of Pages: 19 No. of Claims: 10

RT College



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

# (http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

## Application Details

APPLICATION NUMBER

202311043598

APPLICATION TYPE

ORDINARY APPLICATION

DATE OF FILING

29/06/2023

APPLICANT NAME

1 . Dharamveer Singh

2 . Satyaveer Singh

3. Aakersh Chauhan

4 . Samsher 5 . Anil Kumar

TITLE OF INVENTION

"HYBRID SOLAR SYSTEM WITH N-IDENTICAL PARTLY COVERED

PHOTOVOLTAIC COMPOUND PARABOLIC CONCENTRATOR

COLLECTORS"

FIELD OF INVENTION

ELECTRICAL

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PRIORITY DATE

REQUEST FOR EXAMINATION DATE

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PUBLICATION DATE (U/S 11A)

21/07/2023

Director

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Duhai, Ghaziabad

Application Status

# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 29/2023 ISSUE NO. 29/2023

शुक्रवार FRIDAY दिनांकः 21/07/2023 DATE: 21/07/2023

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

Director College

(21) Application No.202311042006 A

(19) INDIA

(22) Date of filing of Application :23/06/2023

(43) Publication Date: 21/07/2023

# (54) Title of the invention: HYBRID ACTIVE SOLAR DESALINATION SYSTEM WITH PARABOLIC CONCENTRATOR COLLECTOR USING HELICALLY COILED HEAT EXCHANGER

(51) International classification	:C02F 014400, C02F 030800, F28D 070200, H01M 040400, H01M 100568
(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:

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2)Dr. Samsher
3)Satyaveer Singh
4)Aakersh Chauhan
Name of Applicant: NA
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#### 2)Dr. Samsher

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Address of Applicant :Department of Maths, Vallabh Ashram, School Valsad, Gujarat, India Valsad ------

#### 4) Aakersh Chauhan

Address of Applicant :Department of Electronics, NIT Hamirpur, Himachal Pradesh, India- 177005 Hamirpur -------

## (57) Abstract:

The present invention relates to the field of w solar desalination system. More specifically, a hybrid active solar desalination system using a combination of photovoltaic thermal compound parabolic concentrator collectors (PVT-CPC), a double tilted solar distillation unit, and a helically coiled heat exchanger. The hybrid active solar desalination system includes a double tilted solar distillation unit with an n-identical partially covered photovoltaic thermal compound parabolic concentrator collector (N-PVT-CPC-DS), a helically coiled heat exchanger integrated into the solar distillation unit, nanoparticles added to the basin of the solar distillation unit for enhanced heat absorption, a condenser section for vapor condensation and collection of distilled water, a glass cover angled at 30 degrees to the horizontal and facing south, and a DC motor and pump powered by energy generated by the PV module.

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

R.D. Engineering College Duhai, Ghaziabad



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

# (http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

## Application Details

APPLICATION NUMBER

202311042006

APPLICATION TYPE

ORDINARY APPLICATION

DATE OF FILING

23/06/2023

APPLICANT NAME

1. Dr. Dharamveer Singh

2 . Dr. Samsher 3 . Satyaveer Singh

4. Aakersh Chauhan

TITLE OF INVENTION

"HYBRID ACTIVE SOLAR DESALINATION SYSTEM WITH PARABOLIC

CONCENTRATOR COLLECTOR USING HELICALLY COILED HEAT

EXCHANGER"

FIELD OF INVENTION

CHEMICAL

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ADDITIONAL-EMAIL (As Per Record)

contact@elpisanalytix.com

E-MAIL (UPDATED Online)

PRIORITY DATE

REQUEST FOR EXAMINATION DATE

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PUBLICATION DATE (U/S 11A)

21/07/2023

Application Status

Director R.D. Engineering College Duhai, Ghaziabad CONTOF MON



# ORIGINAL

मूल/No : 137739



## भारत सरकार GOVERNMENT OF INDIA

पेटेंट कार्यालय THE PATENT OFFICE

डिजाइन के पंजीकरण का प्रमाणपत्र CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.

381939-001

तारीख / Date

21/03/2023

पारस्परिकता तारीख / Reciprocity Date\*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो ENVIRONMENTAL MONITORING DEVICE से संबंधित है, का पंजीकरण, श्रेणी 10-05 में 1.Dr Mohammed Asef Iqbal 2. Dr Pankaj Kumar Singh 3.Dr Shilpi Singh 4.Dr.S.Boobalan 5.Dr .B Senthil Rathi 6.Dr .Sujatha.Sadana 7.Ms . Lavanya R 8.Dr. V.Kannan 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 10-05 in respect of the application of such design to ENVIRONMENTAL MONITORING DEVICE in the name of 1.Dr Mohammed Asef Iqbal 2. Dr Pankaj Kumar Singh 3.Dr Shilpi Singh 4.Dr.S.Boobalan 5.Dr .B Senthil Rathi 6.Dr .Sujatha.Sadana 7.Ms . Lavanya R 8.Dr. V.Kannan.

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

PARAMETERS OF THE PROPERTY OF

Spring of militardate of Issue : 24/05/2023

वस्तिवंतर देट रिकाम और नागर विक Controller General of Patents, Designs and Trade Marks

पारन्यिकता तारीक (परि कोई हो) विस्त्री अनुपति देश के नाम पा की गई है। डिजाइन का सत्वविकार पंतीकरण की तारीक से दस वर्षों के लिए होगा निश्चन विस्तार, अंधनियम एवं नियम के निर्धमणों के अधीन, पीच वर्षों की अतिरिक्त अविष के लिए किया जा सकेगा। इस प्रमाण एवं का उपयोग विधिक कार्यवाहियों अथवा विरेश में पंतीकरण प्राप्त करने के लिए नहीं हो स्वक्ता है।

"The reciprocity date (if any) which has been allowed and the name of the country Copyright in the design will subsist for sen years from the difference of the sentence of th

# South African Standard Patent

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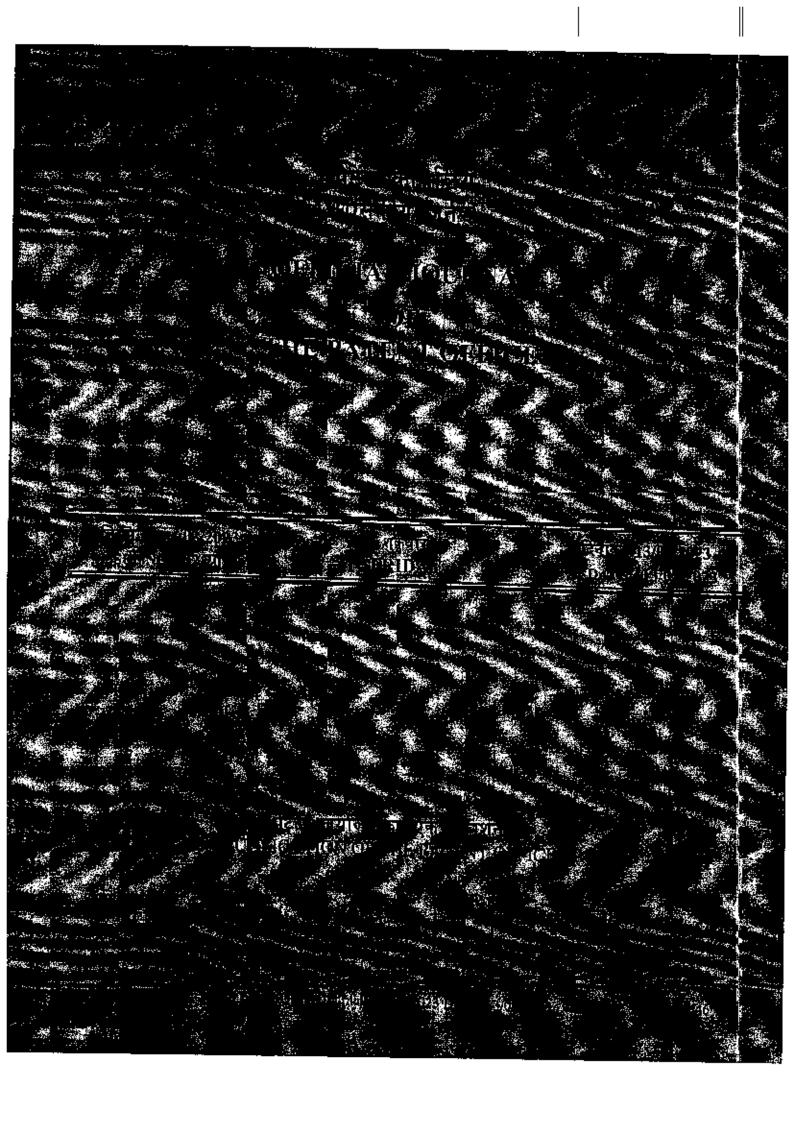
IPOnline - CIPC Intellectual Property Online

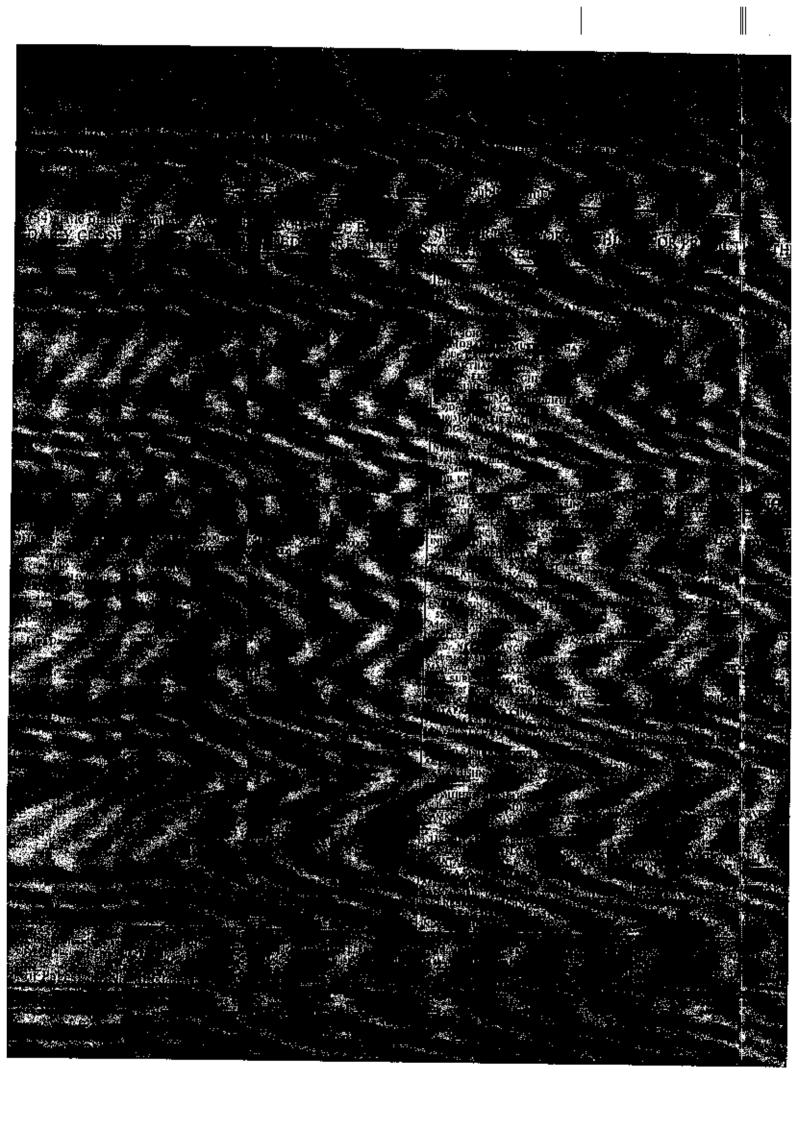


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Patent Register - [2022/13139]			
Patent number 20/2/13139	Title of invention CASTABLE AND GURABLE MAGNETIC GEMENT GOMPOSITION AND METHOD FOR		
Date of application 2022-12-05	Date of acceptance		
Date of expiry 2042-12-09	Date of grant		
Type of patent Complete	Status Accepted		
IPC Class C04B	Patent abstract A castable and carable magnetic cement compositio composing. It magnetic or magnetizable particle in the range of 0.0027-2 cm, ill, sumfocultions particle in the range.		
	of 12 Hills, by a birding modifier in the range of an via surface active dispersions agent in the range of the 4% by saright. The method for preparing the cernain composition comprises the following steps, in misons the particles with dispersing agent to obtain a bomogeneous mixture, and it blanding the mixture with silica-bearing additive, followed by addition of possible water to obtain the coment composition		
	Patent number 2002/13139  Date of application 2022-12-05  Date of expiry 2042-12-09  Type of patent Complete		

R.D. Engineering College Duhal, Ghaziabad





# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 48/2022 ISSUE NO. 48/2022 शुक्रवार FRIDAY दिनांकः 02/12/2022 DATE: 02/12/2022

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

> Director R.D. Engineering College Duhai, Ghaziabad

(19) INDIA

(22) Date of filing of Application :25/11/2022

(21) Application No.202211067986 A

(43) Publication Date: 02/12/2022

### (54) Title of the invention; CURCUMIN COMPOSITION WITH ENHANCED BIOAVAILABILITY, ANTI-DIABETIC, ANTI-CANCER ACTIVITY

A61K0036670000, A61K0031120000, A23L0033105900. A61 P00350100000, A61 P0039060000 (8b) International Application Filing Data (\$7) International Publication INA (94) Panent of Addition to Application Number Ulting Date (62) Decimonal to Application Filing Date

71)Name of Applicant: 1)Mobil Vusuf Addition of Applicant Department of Natural and Applied Sciences, School of Technology The Glocal University, Saharanpur, Uttas Pradesh, India-247 (21 – 2)Prof. ( Dr.) Satish Kumar Sharma

3)Sonam Khan

4)Dr. Paul Richards Mooni

5)Subham Biswal

6)Shruti Singh 7)Dr/Bgen Adrien R Quidlat

N)Dr Shilpi Singh 9)Dr Pankaj Kumar Singh

Name of Applicant : NA Address of Applicant : NA

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Address of Applicant 35 anshik gali near post office. Kaulagasti. Debradun, Uttarakhand.

4)Dr. Paul Richards Mooni

Address of Applicant: Professor Aditya Banglore Institute of Phormacy education and research Velahurka, Banglore.

5;Subbam Biswal

SISBIBIAN DOWN!

Applicant Student DOCTORATE OF MEDICINE Suf-Yair UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA , Phillipines , PIN - 1700

63Shruti Singh

Address of Applicant Student DOCTOR ATE OF MEDICINE UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA Phillipines : PIN - 1700

7)Dr/flgen Adrien R Quidlat
Address of Applicant Executive Medical Director - Orthopedic Surgeon UNIVERSITY OF
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Address of Applicant : Associate Professor Management Noida International University I. P. India-203201 8)Dr Shilpi Singh

9)Dr Pankaj Kumar Singh

Address of Applicant Professor & Director R D Engineering College -Ghazishad , U.P., India

10Me, Ravinder Singh Mann Address of Applicant APO Khojala Tehvil Butala Dist! Gurdaspur Gurdaspur

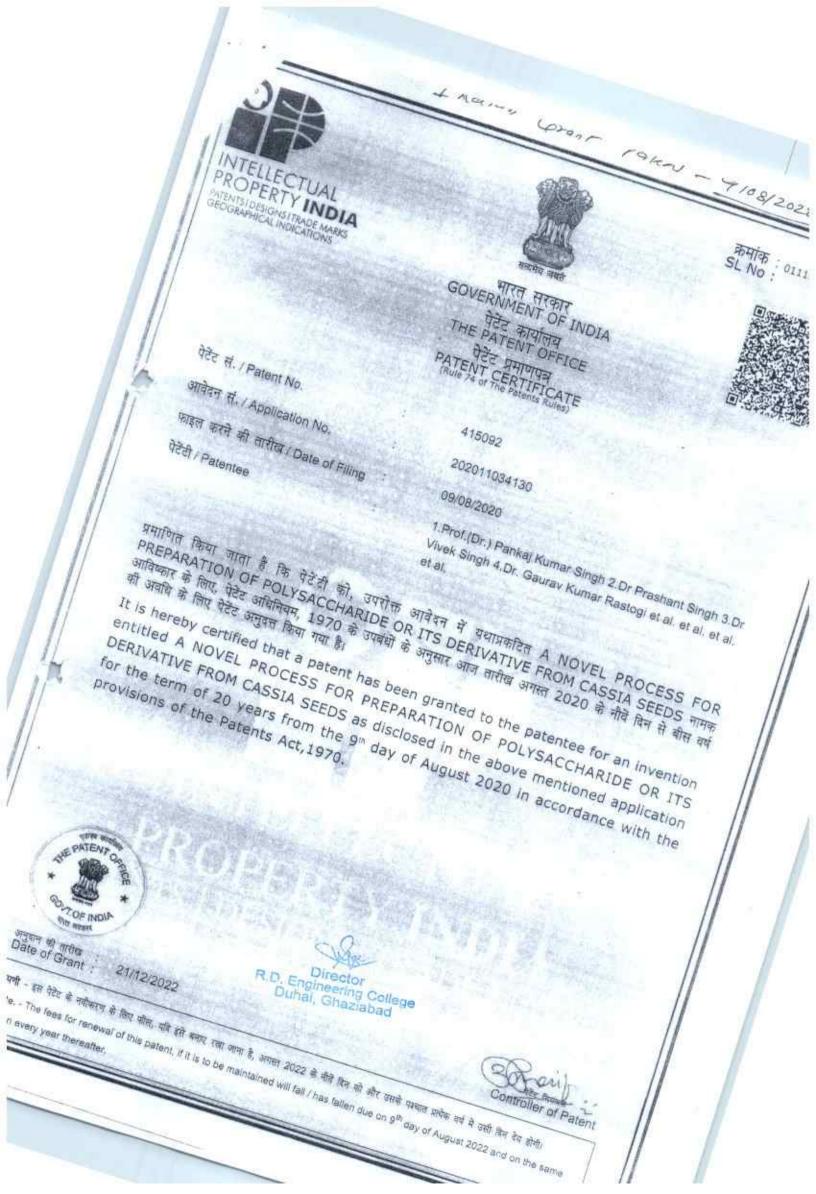
11)Shipra Kanwar Address of Applicant (Dewalchor Kham Haldwari), Manpur Paschim, Nanital, Uttarakhand-263139, Nanital

(57) Abstract

A currentum composition with enhanced bioavailability, inti-diabetic, antiscancer acts/ray, comprising: i) cure time in the range of 35 - 45 %; iii currentin derivative in the range of 35 - 45 %; on green lea in the range of 5 - 10%. A swelloof for preparing the composition comprises of following steps: (i) extracting the curcumin and derivatives from plant material with dichloromethane; followed by evaporation in a vacuum to obtain dichloromethane extract; (i) isolating the declaration extract using sides get chaomatography, subsequently chared from a solvent to obtain cureation current; and in mixing the curcumin extract with the desiratives, followed by addition of the green tea, extract of soya bean and long pepper to obtain composition.

No. of Pages: 16 No. of Claims: 5

R.D. Engineering College Duhai, Ghaziabad



German Patent

# Bundesrepublik Deutschland

# Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2022 105 565

Bezeichnung:

Intelligenter Inhalator für Asthmatiker

IPC:

A61M 15/00

Inhaber/Inhaberin:

Ali, Kunwar Babar, Noida, Uttar Pradesh, IN
Das, Saswat Kumar, Greater Noida, Uttar Pradesh, IN
Keshari, Jaishanker Prasad, Dr., Sheikhpura, Bihar, IN
Khan, Imran Ahmed, Dr., New Delhi, IN
Krishan, Gopal, Dr., Greater Noida, Uttar Pradesh, IN
Kumar, Sandeep, Greater Noida, Uttar Pradesh, IN
Rathee, Naveen, Dr., Greater Noida, Uttar Pradesh, IN
Singh, Pankaj Kumar, Dr., Ghaziabad, Uttar Pradesh, IN
Singh, Shilpi, Dr., Ghaziabad, Uttar Pradesh, IN

Tag der Anmeldung: 30.09.2022

Tag der Eintragung: 14.10.2022

Director College Fingineering College Ghaziabad

Die Präsidentin des Deutschen Patent- und Markenamts

Comedia R. dwg. Saaper

Cornelia Rudloff-Schäffer

München, 14.10.2022





# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021105625

The Commissioner of Patents has granted the above patent on 17 November 2021, and certifies that the below particulars have been registered in the Register of Patents.

### Name and address of patentee(s):

R D Engineering College of NH No.58, Delhi - Meerut Expy, Duhai Ghaziabad Uttar Pradesh 201206 India University of Saskatchewan of Saskatoon Saskatoon Saskatchewan S7N 5E5 Canada Fortis Escorts Heart Institute of Okhla New Delhi Delhi 110025 India

#### Title of invention:

NOVEL CROP RECOGNITION TECHNIQUES FOR WEED CONTROL OF SELF LIFE OF CROPS AND HUMANS

## Name of inventor(s):

Singh, Pankaj Kumar; Singh, Ravi Shankar, Bhadoriya, Shailendra S.; Sharma, Shaaswat; Singh, Manoj Kumar; Singh, Sanjeev; Paliwal, Sanjay; Upmanu, Vishal and Sharma, Sanjeev

## Term of Patent:

Eight years from 17 August 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

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T

R.D. Engineering College Duhal, Ghazlabad

Dated this 17th day of November 2021

Commissioner of Patents



PATENTS ACT 1990



# CERTIFICATE OF GRANT

# INNOVATION PATENT

Patent number: 2021103856

The Commissioner of Patents has granted the above patent on 25 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

## Name and address of patentee(s):

Pankaj Kumar Singh of Director-Research, Department of Civil, R D Engineering College Ghaziabad Uttar Pradesh 201206 India

Ravi Shankar Singh of Dept. of Biochemistry, Microbiology & Immunology, University of Saskatchewan Saskatchewan S7N 5E5 Canada

Sanjeev Singh of Professor, Dept. Of Civil Engineering, KIET Group of Institution Ghaziabad Uttar Pradesh 201206 India

Abhishek Singh of Assistant Professor, Dept. of Chemistry, Udai Pratap College Varanasi Uttar Pradesh 221002 India

Sanjay Paliwal of Associate Professor, Dept. of Mechanical, Engineering, R D Engineering College Ghaziabad Uttar Pradesh 201206 India

Ashutosh Singh of Associate Professor, Dept. of Chemistry, K.S. Saket PG College Ayodhya Uttar Pradesh 224001 India

Shilpi Singh of Professor, R D Engineering College Ghaziabad Uttar Pradesh 201206 India

## Title of invention:

A METHYL Hg CONTAMINATED WASTEWATER TREATMENT

## Name of inventor(s):

Singh, Pankaj Kumar; Singh, Ravi Shankar; Singh, Sanjeev; Singh, Abhishek; Paliwal, Sanjay; Singh, Ashutosh and Singh, Shilpi

### Term of Patent:

Eight years from 4 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

with contidion Scientist & Got Protitute Professore.



Director College

Dated this 25th day of August 2021

Commissioner of Patents

PATENTS ACT 1990



# CERTIFICATE OF GRANT

# INNOVATION PATENT

Patent number: 2021103643

The Commissioner of Patents has granted the above patent on 4 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

### Name and address of patentee(s):

Pankaj Singh of Director-Research, Department of Civil, R D Engineering College Ghaziabad Uttar Pradesh 201206 India

Abhishek Shukla of Associate Professor-CSE, R D Engineering College Ghaziabad Uttar Pradesh 201206 India

Pradeep Mishra of Asst. Professor, College of Agriculture, Powarkheda, J.N.K.V.V. Powarkheda Madhya Pradesh 461110 India

Ritesh Pandey of Associate Professor, Department of Applied Sciences, SIET Prayagraj Uttar Pradesh 211015 India

Kunwar Babar Ali of Asst. Prof., Dept. of Computer Science & Engg., Noida International University Greater Noida Uttar Pradesh 203201 India

Prabhat Kumar Srivastava of Professor, Dept. of Computer Science & Engineering, Babu Banarasi Das University Lucknow Uttar Pradesh 226028 India

Vishal Upmanu of Head & Associate Professor, ECE department, R D Engineering College Ghaziabad Uttar Pradesh 201206 India

Avinash Dwivedi of Professor, Dept. of Computer Science & Engineering, JEMTEC Greater Noida Uttar Pradesh 201308 India

Sanjeev Kumar Pippal of Professor, Department of CSE, GL Bajaj Institute of Tech. & Management Greater Noida Uttar Pradesh 201306 India

Ganesh Gupta of Associate Professor, Department of CSE, GL Bajaj Institute of Tech. & Management Greater Noida Uttar Pradesh 201306 India

Shivani Joshi of Professor, Department of CSE, GL Bajaj Institute of Tech. & Management Greater Noida Uttar Pradesh 201306 India

#### Title of invention:

A SYSTEM FOR EXCHANGING MEDIA BETWEEN ENTITIES

## Name of inventor(s):

Singh, Pankaj; Shukla, Abhishek; Mishra, Pradeep; Pandey, Ritesh; Ali, Kunwar Babar, Srivastava, Prabhat Kumar; Upmanu, Vishal; Dwivedi, Avinash; Pippal, Sanjiv Kumar; Gupta, Ganesh and Joshi, Shivani

Ennine ring College

Dul.

#### Term of Patent:

Eight years from 26 June 2021



Dated this 4th day of August 2021

Commissioner of Patents



# CERTIFICATE OF GRANT

# INNOVATION PATENT

Patent number: 2021103499

The Commissioner of Patents has granted the above patent on 4 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

## Name and address of patentee(s):

Pankaj Kumar Singh of Dean-Research Department of Civil, R D Engineering College Ghaziabad Uttar Pradesh 201206 India

Ravi Shankar Singh of Dept. of Biochemistry, Microbiology &, Immunology, University of Saskatchewan Saskatoon, Canada S7N 5E5 Canada

D.R. Somashekar of Director -RKGIT, Ghaziabad Ghaziabad Uttar Pradesh 201003 India

Sanjeev Singh of Professor, Dept. Of Civil Engineering, KIET Group of Institution Ghaziabad Uttar Pradesh 201206 India

Prema Gaur of Professor, Instr. & Control Enggg., East Campus NSUT, Sec -3, Dwarka Delhi Delhi 110075 India

Abhishek Singh of Asst. Professor, Dept. of Chemistry, Udai Pratap College Varanasi Uttar Pradesh 221002 India

Sanjay Paliwal of Associate Professor, Dept. of Mechanical, Engg., R D Engineering College Ghaziabad Uttar Pradesh 201206 India

Vivek Singh of Asst. Professor Botany, U.P. College Varanasi Uttar Pradesh 221002 India

Shaaswat Sharma of Vice President, R D Engineering College, 20 Newport Parkway, Apt # 603 New Jersey Jersey City, 07310 United States of America

### Title of invention:

AN AUTOMATED PLANTATION HEALTH MONITORING SYSTEM AND A METHOD THEREOF

## Name of inventor(s):

Singh, Pankaj; Singh, Ravi; Somashekar, D. R.; Singh, Sanjeev; Gaur, Prema; Singh, Abhishek; Paliwal, Sanjay; Singh, Vivek and Sharma, Shaaswat

## Term of Patent:

Eight years from 21 June 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

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R.D. Engineering College Duhal, Ghazlabad Dated this 4th day of August 2021

Commissioner of Patents

PATENTS ACT 1890

# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 18/2021 ISSUE NO. 18/2021

शुक्रवार FRIDAY दिनांकः 30/04/2021 DATE: 30/04/2021

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

> Director R.D. Engineering College Duhai, Ghaziabad

(21) Application No.202111019114 A

(19) INDIA

(22) Date of filing of Application :26/04/2021

(43) Publication Date: 30/04/2021

(71) Name of Applicant:

4)Sanjay Paliwal

5)Jamal Mohammed 6) Abhishek Singh 7)Supriya

## (54) Title of the invention: A METHOD FOR TREATMENT OF METHYL HG CONTAMINATED WATER

(51) International classification	:C02F0003320000, A61K0035620000, C12N0001120000, C02F01030000000,	1)Pankaj Kumar Singh Address of Applicant: R.D. Engineering College 8th KM Mile Stone from Ghaziabad National Highway(NH) No.58, Delhi - Mecrut Expy, Duhai, Ghaziabad, Uttar Pradesh 201206 Uttar Pradesh India  2)Ravi Shanker Singh
(31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Num	A01K0067033000 :NA :NA :NA :NA :NA :NA :NA ber:NA	3)Shivesh Pratap Singh 4)Sanjay Paliwal 5)Jamal Mohammed 6)Abhishek Singh 7)Supriya (72)Name of Inventor: 1)Pankaj Kumar Singh
Filing Date (62) Divisional to Application Number	:NA :NA	2)Ravi Shanker Singh 3)Shivesh Pratap Singh 4)Sanjay Paliwal

NA

#### (57) Abstract

Filing Date

The present disclosure relates to a composition for remediating methyl mercury contaminated water is disclosed. The composition includes an earthworm Eisenia fetida, algae consortia, and an adsorbent. The earthworm can feed on the algae consortia to survive in the water undergoing contamination therethrough. The algae consortium includes red algae, brown algae, and green algae. The treated water has COD in the range of 80-90%. The treated water has BOD>90%.

No. of Pages 11 No. of Claims 7

Engineering College

# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 14/2021

ISSUE NO. 14/2021

शुक्रवार FRIDAY दिनांक: 02/04/2021

DATE: 02/04/2021



पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

(21) Application No.202111013581 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date: 02/04/2021

(54) Title of the invention: A MICROBIAL CONSORTIUM FOR TREATMENT OF INDUSTRIAL WASTEWATER AND A METHOD THEREFOR

## (71)Name of Applicant:

### 1)Pankaj Kumar Singh

Address of Applicant: R.D Engineering College 8th km milestone from Ghaziabad National Highway(NH) no. 58, Delhi-Meerut Expressway, Duhai Ghaziabad Uttar Pradesh INDIA 201206 Uttar Pradesh India

	:C12N0001120000,	2)Sanjeev S
	C02F0003320000,	3)Avinash I
(51) International classification	C12N00012000000,	4)Ravi Shar
	C12N0001140000,	5)Sanjay Pa
	C12P0039000000	6)Vrunda b
+ ) Priority Document No	:NA	7)Rajdev T
(32) Priority Date	:NA	8)Reema K
(33) Name of priority country	:NA	9)Jyoti Sha
(86) International Application No	:NA	10)Rashmi
Filing Date	:NA	11)G.L Tiw
(87) International Publication No	:NA	(72)Name of
(61) Patent of Addition to Application	87.7	1)Pankaj K
Number	:NA	2)Sanjeev S
Filing Date	:NA	3)Avinash I
(62) Divisional to Application Number	:NA	4)Ravi Shar
Filing Date	:NA	5)Sanjay Pa
DECICE CONTRACTOR		6)Vrunda F
		7)Rajdev T
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

2)Sanjeev Singh
3)Avinash Dwivedi
4)Ravi Shankar Singh
5)Sanjay Paliwal
6)Vrunda Karve
7)Rajdev Tiwari
8)Reema Kohli
9)Jyoti Sharma
10)Rashmi singh
11)G.L Tiwari
(72)Name of Inventor:

1)Pankaj Kumar Singh 2)Sanjeev Singh 3)Avinash Dwivedi 4)Ravi Shankar Singh 5)Sanjay Paliwal

6)Vrunda Karve 7)Rajdev Tiwari 8)Reema Kohli 9)Jyoti Sharma 10)Rashmi singh 11)G.L Tiwari

(57) Abstract

The present disclosure relates to a microbial consortium for treatment of industrial wastewater, and a method therefor. The consortium includes an inoculation of a filamentous fungus, and at least one green microalga deployed into industrial wastewater. The filamentous fungus is Aspergillus niger and the microalgae is Chiorella vuglaris. Spores of each of the consortium are of size in the range of 1.0E5/L to 1.2E9/L. The consortium further includes nanoparticles/nanomaterials, and/or combinations thereof. The consortium is deployed into industrial wastewater in forms selected from a group consisting of a sachet, a powder, a liquid, a spray: fumes, a gas, and so on.

No. of Pages: 20 No. of Claims: 8

Director College

# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 43/2020 ISSUE NO. 43/2020 शुक्रवार FRIDAY दिनांक: 23/10/2020 DATE: 23/10/2020

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

> Director R.D. Engineering College Duhar, Ghaziahad

> > 54246

(21) Application No.202011043301 A

(19) INDIA

(22) Date of filing of Application :05/10/2020

(43) Publication Date: 23/10/2020

# (54) Title of the invention: A COMPUTER NETWORK SYSTEM FOR TRANSFERRING FILE USING NETWORK SOCKETS

(51) International classification  (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:H04L 29/06 H04L 29/08 H04N 21/4147 :NA :NA :NA :NA :NA :NA	(71)Name of Applicant: 1)Prof.(Dr.) Pankaj Kumar Singh Address of Applicant :R.D. Engineering College 8 th KM Mile Stone from Ghaziabad National Highway(NH) No.58, Delhi - Meerut Expy, Duhai, Ghaziabad, Uttar Pradesh 201206 Uttar Pradesh India 2)Prabhakar Dubey 3)Dr Abhishek Shukla 4)Dr Pradeep Mishra 5)Kunwar Babar Ali 6)Dr. Prabhat Kr Srivastava 7)Dr. Ritesh Pandey (72)Name of Inventor: 1)Prof.(Dr.) Pankaj Kumar Singh 2)Prabhakar Dubey 3)Dr Abhishek Shukla 4)Dr Pradeep Mishra 5)Kunwar Babar Ali 6)Dr. Prabhat Kr Srivastava 7)Dr. Ritesh Pandey
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#### (57) Abstract:

A system of computer processing devices connected over a computer network, and adapted to transfer file transfer using network sockets. The system includes a first computer receiving device connected to a first input device, which receives a first user input for enabling 5 receiving of one or more files from the first input device, processes the first user input and creates one or more network socket for receiving the one or more files. The system further includes a second computer sending device connected to a second input device, which receives a second user input for enabling sending of one or more files from the second input device, processes the second user input and creates one or more network socket for sending the one or 10 more files. The second computer sending device further receives a file and a socket identification to which the file is to be sent, and the second computer device further processes the file and the socket identification, and generates a byte stream, and further establish connection to a network socket with the socket identification, and thereafter sends the byte stream to the network socket of the first computer receiving device. The first computer 15 receiving device receives and processes the byte stream, and generates the file. The socket is defined as a communication mechanism bound by the socket identification which is combination of IP address of computer processing device on which the socket is created, and a port number.

No. of Pages: 19 No. of Claims: 7



# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 40/2020

ISSUE NO. 40/2020

शुक्रवार FRIDAY दिनांकः 02/10/2020

DATE: 02/10/2020

# पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

R.D. Engineering College Duhal, Ghaziabad

The Patent Office Journal No. 40/2020 Dated 02/10/2020

44471

(21) Application No.202041040604 A

(19) INDIA

(22) Date of filing of Application :18/09/2020

(43) Publication Date: 02/10/2020

# (54) Title of the invention: DECISION SUPPORT SYSTEM FOR ENERGY AND ENVIRONMENT SAVING

(51) International classification (31) Priority Document No (NA (32) Priority Date (NA (33) Name of priority country (NA (86) International Application No (NA Filing Date (NA (87) International Publication No (NA (61) Patent of Addition to Application Number (NA Filing Date (NA (52) Divisional to Application Number (NA Filing Date (NA (53) Divisional to Application Number (NA (54) Divisional to Application Number (NA (55) Divisional to Applicatio	(71)Name of Applicant: 1)Prof.(Dr.) Pankaj Kumar Singh Address of Applicant: R.D. Engineering College 8 th KM Mile Stone from Ghaziabad National Highway(NH) No.58, Delhi - Mecrut Expy. Duhai, Ghaziabad, Uttar Pradesh 201206 Uttar Pradesh India 2)Dr Sanjeev Singh 3)Dr. Avinash Dwivedi 4)Dr Ravi Shankar Singh (Ph.D) 5)Dr. Neha Sharma 6)Shaaswat Sharma (72)Name of Inventor: 1)Prof.(Dr.) Pankaj Kumar Singh 2)Dr Sanjeev Singh 3)Dr. Avinash Dwivedi 4)Dr Ravi Shankar Singh (Ph.D) 5)Dr. Neha Sharma 6)Shaaswat Sharma
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### (57) Abstract:

ABSTRACT: A decision support system for hydrological assessment for a hydrological system of a facility. The system includes a memory unit adapted to store at least a social data, a financial data, a technical data, or an environmental data, or combination thereof, a rule 5 engine adapted to store a set of rules, an input unit adapted to receive a facility input related to a facility for a hydrological assessment is to be carried out, and a processing unit adapted to receive and process the facility input, and to fetch at least the social data, the financial data, the technical data, or the environmental data, or combination thereof based on the set of rules, and to generate a hydrological assessment for the facility. 10 Figure: Fig. 1 is the representative figure.

No. of Pages: 27 No. of Claims: 3

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OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 35/2020 ISSUE NO. 35/2020

शुक्रवार FRIDAY दिनांकः 28/08/2020 DATE: 28/08/2020

Director R.D. Engineering College Duhal, Ghaziabad

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE Grant of Endian Political

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011031876 A

(19) INDIA

(22) Date of filing of Application :24/07/2020

(43) Publication Date: 28/08/2020

(54) Title of the invention : HIGHLY EFFICIENT ACTIVE CARBON, THE PROCESS FOR PREPARATION AND USES THEREOF

(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (81) ant of Addition to Application Number (82) Divisional to Application Number Filing Date	(71)Name of Applicant: 1)Aatif Khan Address of Applicant: R.D. Engineering College 8 th KM Mile  20/12 Stone from Ghaziabad National Highway(NH) No.58, Delhi - Meerut Expy, Duhai, Ghaziabad, Uttar Pradesh 201206 Uttar Pradesh India 2)Rekha Sharma 3)Shashi Bhushan Suman 4)Samshul 5)Prof.(Dr.) Pankaj Kumar Singh 6)Anjali Singh NA 2)Rekha Sharma 1)Aatif Khan NA 2)Rekha Sharma 3)Anjali Singh 4)Prof.(Dr.) Pankaj Kumar Singh 5)Samshul 6)Shashi Bhushan Suman
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57) Abstract

The present invention provides highly effectient active carbon which is obtained 5 from natural resources and landfill composites and the process for preparation thereof. The presen invention further relaes to a method of removing toxic substances from waste water.

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

Director R.D. Engineering College Duhal, Ghazlabad Patent Grost order -> Potent NO:-3

## 52BEFORE THE CONTROLLER OF PATENTS PATENT OFFICE, MUMBAI,

#### PATENTS ACT 1970

(SECTION 15)

In the matter of Patent Act, 1970 and as amended Patent (Amendment) Act 2005 in the matter of Patents Rule, 2003 and as amended Patent (Amendment) Rule 2006

In the matter of Patent Application No 202011031876

### **ORDER UNDER SECTION. 15**

The applicant's agent appeared for a hearing on 07/04/2022 at 11:30 HRS(IST) for (30 Mins) and the objections were discussed as raised in the hearing Notice. Based on the discussion during the hearing, the applicant's agent was inclined to file the amended claims with hearing submission as soon as possible (within time limit) from the date of hearing which was allowed. The amended claims 01-02 are filed after the hearing.

In view of the amendments and also from the elaborative hearing submissions (oral as well as written), a written submission clearly clarified. Therefore, the present invention is inventive to cited prior arts, therefore Novelty and Inventive steps are acknowledged. All the other requirements raised in the hearing notice, are further submitted & all objections are met. The said objections are therefore rendered moot. The submission as submitted was found to be satisfactory and convincing and therefore accepted.

However, the NBA objection is still outstanding which is raised in FER & SER. Therefore it is mandatory for the applicant to take permission from the NBA (National Biodiversity Authority) as per section 6(1) of the NBA Act.

Having considered all the circumstances, the submission made by the agent for the applicant during the hearing including all the documents on record and also in view of my above findings, and there is no pre-grant opposition filed. I hereby proceed for a grant with respect to the application 202011031876 entitled "HIGHLY EFFICIENT ACTIVE CARBON, THE PROCESS FOR PREPARATION AND USES THEREOF" under The Patents Act 1970. Granted with 01-02 claims (amended claims) as submitted 23/05/2022.

The final set of amended granted claims:

Director R.D. Engineering College Duhal, Ghazlabad

#### We Claim:

- 1. A process for preparation of activated carbon comprising;
- a) Washing of rice husk with water or organic solvent or a mixture thereof,
- b) Drying the washed rice husk obtained in step (a),
- c) Grinding the dried rice husk obtained in step (b),
- d) Sieving the ground rice husk obtained in step (c),
- e) Carbonizing the sieved rice husk obtained in step (d),
- f) Treating the carbonized rice obtained in step (e) with alkali base and
- g) drying the reaction mass at higher temperature in the range of 100-900°C, characterized in that: wherein carbonization is carried out in the temperature range between 300 and 450°C under inert gas atmosphere for 60-120 minutes, and wherein the Activated carbon obtained is having surface area of 80 to1345 m²/g, porosity of 0.007-420 µm and methylene blue adsorption capacity of 190 mg/g.
- The process according to claim 1, wherein drying is carried out in the temperature range of 650-800°C.

However, the subject matter of the present application is waiting for NBA approval.

Dated this 09-01-2023

PATENTS DESIGNS TRADE Patent Office Mumbai

GEOGRAPHICALIND CATIONS



Grant of Jadion /st.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011030466 A

(22) Date of filing of Application :16/07/2020

(43) Publication Date: 28/08/2020

# (54) Title of the invention: METHOD FOR TREATING WASTEWATER USING FLY ASH AS ADSORBENT

(51) International classification  (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date (57) Abstract:	2)Jyoti Sharma 3)Dr Vivek Singh 4)Dr Prashant Singh 5)Shashi Bhushan Suman 6)Sanjay Paliwal (72)Name of Inventor: 1)Prof.(Dr.) Pankaj Kumar Singh 2)Jyoti Sharma
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The present disclosure relates to a cost-effective wastewater treatment method. More specifically the present disclosure focuses on effect of parameters such as combination ratio of fly ash and wood ash, contact time, adsorbent dosage and particle size of adsorbent along with 5 microalgae for treatment of wastewater. The present disclosure focuses on the use of fly ash alone and optionally in combination with microalgae as an effective method for wastewater treatment.

No. of Pages: 25 No. of Claims: 10

R.D. Engineering College Duhal, Ghaziabad

Groot Order + Patent No:-2

## PATENT OFFICE DELHI

### THE PATENTS ACT, 1970

## Section 15

In the matter of the Patents Act, 1970 (as amended) and the Patents Rules, 2003 (as amended) In the Matter of Patent Application no. 202011030466 Dated: 16/07/2020

## DECISION

In view of the observation and submissions made by the Ld. Applicant/agent/authority concern and Ld. Examiner view, the raised objections are met and the application complies with the requirements of the Patents Act, 1970 (as amended) except NBA permission. So, I withdraw the said objection and the application is in order of grant amended claims 1-7 filed dated 14/04/2022.

The Application stands disposed off. This is to be noted that the aforesaid observations, and decision thereof, are based solely on the electronically uploaded documents to date.

Dated this 29th day of July 2022

(Dr. Rajiv Kumar Singh)

Assit. Controller of Patents & Designs.

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Director
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(21) Application No.202011029806 A

(19) INDIA

(22) Date of filing of Application 13/07/2020

(43) Publication Date: 28/08/2020

# (54) Title of the invention: METHOD FOR EXTRACTING GALACTOMANNAN FROM PLANT LEUCAENA LEUCOCEPHALA

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	65/00 Stone from Ghaziabad Nati	C.D. Engineering College 8 th KM Mile onal Highway(NH) No.58, Deihi - abad, Uttar Pradesh 201206 Uttar astogi ivedi nar Singh
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(57) Abstract:

The present invention provides a method for extracting a Leucaena leucocephala plant seed extract galactomannan. A method for extracting a Leucaena leucocephala plant seed extract, which includes crushing seeds, followed by extraction with a solvent.

No. of Pages: 22 No. of Claims: 10

Director

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# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 51/2019 ISSUE NO. 51/2019 शुक्रवार FRIDAY दिनांकः 20/12/2019 DATE: 20/12/2019

# पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

Director
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60963

(21) Application No.201911051419 A

(19) INDIA

(22) Date of filing of Application :12/12/2019

(43) Publication Date: 20/12/2019

### (54) Title of the invention: PEST DETECTION AND CONTROL SYSTEM IN SMART FARMING USING IOT

classificatio  (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing	:NA :NA :PCT// :01/01/1900	(71)Name of Applicant: 1)Dr. Shivani Joshi Address of Applicant: Department of Computer Science & Engineering,GLBITM , Greater Noida Uttar Pradesh India 2)Dr. Avinash Dwivedi 3)Dr. Vikas Chaudhary 4)Dr. Pankaj Singh (72)Name of Inventor: 1)Dr. Shivani Joshi 2)Dr. Avinash Dwivedi 3)Dr. Vikas Chaudhary 4)Dr. Pankaj Singh (74)Dr. Pankaj Singh (75)Dr. Avinash Dwivedi 3)Dr. Vikas Chaudhary 4)Dr. Pankaj Singh
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(57) Abstract:

The disclosure relates to an agricultural system, which comprises a plurality of IoT based crop monitoring and pest control system for growing plants in large fields, wherein, the invention discloses a modern agricultural automatic insect and pest monitoring and early warning system based on IoT, sensor devices and cloud computing. The method combines a cloud server, a smart interactive device/phone, and a plurality of sensors and LED trap lamps. The trap lamps consist of rainproof covers, LED lamp bodies, insect and pest receiving devices, and dual-layer dense high-voltage wire network fences; the rainproof covers are arranged above the LED lamp bodies; the insect and rodent capturing devices are arranged below the LED lamp bodies; and the dual-layer dense high-voltage fences are arranged at peripheries of the LED lamp bodies. Furthermore, the monitoring and control of the whole farmland can be processed monitored precisely through devices such as personal computer and smart phones.

No. of Pages: 16 No. of Claims: 6

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