Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021104582

The Commissioner of Patents has granted the above patent on 30 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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Himani Tiwari of Research scholar, Rajendra Singh Nanoscience and, Nanotechnology Centre Department of Chemistry Kumaun University, Nainital India

Anirban Dandapat of Inspire faculty, department of chemistry DSB campus Kumaun University Nainital India

Title of invention:

Graphene based nanomaterials derived from Drepanostachyum falcatum for water purification

Name of inventor(s):

Sahoo, Nanda Gopal; Tewari, Chetna; Pandey, Sandeep; Tatrari, Gaurav; Rana, Anita; Tiwari, Himani and Dandapat, Anirban

Term of Patent:

Eight years from 26 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.

Priority details:

Number	*Date*	*Filed with*
202111031289	12 July 2021	IN

Dated this 30th day of March 2022

Commissioner of Patents

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 011147920
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	400474
आवेदन सं. / Application No.	:	202011018342
फाइल करने की तारीख / Date of Filing	:	29/09/2020
पेटेंटी / Patentee	:	1.Manoj Karakoti 2.Sandeep Pandey 3.Sunil Dhali 4.Chetna Tewari et al. et al. et al.

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित HIGHLY EFFICIENT GRAPHENE-SOAP BASED SPRAY PAINTS FOR THE EFFICIENT KILLING OF CORONA VIRUSES AND PREPARATION PROCESS THEREOF नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2020 के उन्नतीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled HIGHLY EFFICIENT GRAPHENE-SOAP BASED SPRAY PAINTS FOR THE EFFICIENT KILLING OF CORONA VIRUSES AND PREPARATION PROCESS THEREOF as disclosed in the above mentioned application for the term of 20 years from the 29th day of September 2020 in accordance with the provisions of the Patents Act,1970.

एकस्य कार्यालय THE PATENT OFFICE GOVT.OF INDIA भारत सरकार

अनुदान की तारीख : 30/06/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2022 के उन्नतीसवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 29th day of September 2022 and on the same day in every year thereafter.

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

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202011017973
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/09/2020
APPLICANT NAME	1 . Sandeep Pandey 2 . Manoj Karakoti 3 . Sunil Dhali 4 . Chetna Tewari 5 . Nanda Gopal Sahoo
TITLE OF INVENTION	PROCESS OF PREPARATION OF NATURALLY DOPED SILICON, MAGNESIUM AND CALCIUM GRAPHENE NANOSHEETS FROM PAPER WASTE FOR ENERGY APPLICATIONS
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	mail@ideas2ipr.com
ADDITIONAL-EMAIL (As Per Record)	mail@ideas2ipr.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/01/2022
PUBLICATION DATE (U/S 11A)	31/12/2021

Application Details	
APPLICATION NUMBER	202011019296
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/07/2020
APPLICANT NAME	1 . Nanda Gopal Sahoo 2 . Gaurav Tatrari 3 . Chetna Tewari 4 . Sandeep Pandey 5 . Himani Tiwari 6 . Manoj Karakoti 7 . Anand B. Melkani
TITLE OF INVENTION	A PROCESS OF MANUFACTURING HIGHLY POROUS 3D GRAPHENE NANO-FLAKES (HP3DGNFS) DOPED WITH ALKALI AND TRANSITION METALS
FIELD OF INVENTION	ELECTRICAL
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ADDITIONAL-EMAIL (As Per Record)	mail@ideas2ipr.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/01/2022
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(54) Title of the invention : MULTI-CRITERIA DECISION MAKING BASED ON INTUITIONISTIC FUZZY SETS

(51) International classification	:G06Q0010060000, G06N0005040000, G06Q0030020000, G06T0005000000, G06F0017160000
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(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Over the past few decades, several researchers and professionals have focused on the development and application of multi-criteria group decision making (MCGDM) methods under a fuzzy environment in different areas and disciplines. Intuitionistic fuzzy multiple criteria decision making (MCDM) method which is based on an exponential-related function, adopted in the Technique for order preference by similarity to ideal solution (TOPSIS) has been proposed in this study. The exponential-related function which is used for comparing intuitionistic-fuzzy-sets (IFS), and as a replacement for the traditional exponential score function which is only effective for determining priority weights that involve pairwise-comparison, has been applied, for computing the separation measure from the fuzzy positive and negative ideal solution to determine the relative closeness-coefficients of alternatives. The main advantage of this method includes (1) its ability to account for Decision-makers (DMs) attitudinal-character in the decision-making process as-well-as to represent the aggregated effect of the positive/negative evaluations in the performance ratings of the alternatives based on the IFS-data and (2) The simplicity of the method both in its concept and computational procedures.

No. of Pages : 19 No. of Claims : 4