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सत्यमेव जयते

**भारत सरकार
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**पेटेंट कार्यालय
THE PATENT OFFICE**

**पेटेंट प्रमाणपत्र
PATENT CERTIFICATE**
(Rule 74 Of The Patents Rules)

क्रमांक : 044134406
SL No :



पेटेंट सं. / Patent No. : 378512
आवेदन सं. / Application No. : 201741043884
फाइल करने की तारीख / Date of Filing : 07/06/2018
पेटेंटी / Patentee : Dr.V.KAVITHA

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित SUSTAINABLE AND ENVIRONMENTAL BENIGN BIODIESEL-DAIRY WASTE SCUM AND EGG SHELL/SEA SHELL नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 7th day of June 2018 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 SUSTAINABLE AND ENVIRONMENTAL BENIGN BIODIESEL-DAIRY WASTE SCUM AND EGG SHELL/SEA SHELL as disclosed in the above mentioned application for the term of 20 years from the 7th day of June 2018 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 01/10/2021
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 7th day of June 2020 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 7th day of June 2020 and on the same day in every year thereafter.



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CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 352549-001
Date 02/11/2021
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 23-01 in respect of the application of such design to WATER FILTER in the name of 1. DR. V. KAVITHA, PROFESSOR, DEPARTMENT OF CHEMISTRY, SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI 600 119, TAMILNADU, INDIA 2. DR. M. SANGEETHA, ASSOCIATE PROFESSOR, DEPARTMENT OF MECHATRONICS, SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119, TAMILNADU, INDIA

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



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(54) Title of the invention : SYNTHESIS METHOD OF NANOCOMPOSITES FOR THE REMOVAL OF PHENANTHRENE

(51) International classification :A61K0038000000, H04B0007080000, C02F0001700000, G06F0030332300, C01B0032192000

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(57) Abstract :

The present invention relates to methods and composition of nanocomposites. The present invention relates to calcium oxide associated carbon nanocomposite is synthesized by co-precipitation method via monotonic green synthesis and it is well exercised for phenanthrene removal from effluents. The synthesized composite can be suggested to prove its eco-friendly adaptability and also claimed its maximum utilization for the tested industrial samples. Complete exclusion of phenanthrene and other toxic contaminants present in real effluent samples and toxic contaminant removal as a determined model to sustainable environment is also well proven through biocompatibility studies.

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