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THE PATENT OFFICE

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

क्रमांक : 044145641
SL No :



पेटेंट सं. / Patent No. : 409304
आवेदन सं. / Application No. : 202241000685
फाइल करने की तारीख / Date of Filing : 06/01/2022
पेटेंटी / Patentee : VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI
INSTITUTE OF ENGINEERING AND TECHNOLOGY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित NON-CONTACT NANOSTRUCTURE AND METHOD OF MANUFACTURING THE SAME FOR FOULING FREE SOLAR DESALINATION नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2022 के छठे 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 NON-CONTACT NANOSTRUCTURE AND METHOD OF MANUFACTURING THE SAME FOR FOULING FREE SOLAR DESALINATION as disclosed in the above mentioned application for the term of 20 years from the 6th day of January 2022 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 19/10/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2024 के छठे दिन 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 6th day of January 2024 and on the same day in every year thereafter.



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Department of Industrial Policy & Promotion,
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Government of India

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Application Details

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APPLICANT NAME	VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
TITLE OF INVENTION	NON-CONTACT NANOSTRUCTURE AND METHOD OF MANUFACTURING THE SAME FOR FOULING FREE SOLAR DESALINATION
FIELD OF INVENTION	ELECTRONICS
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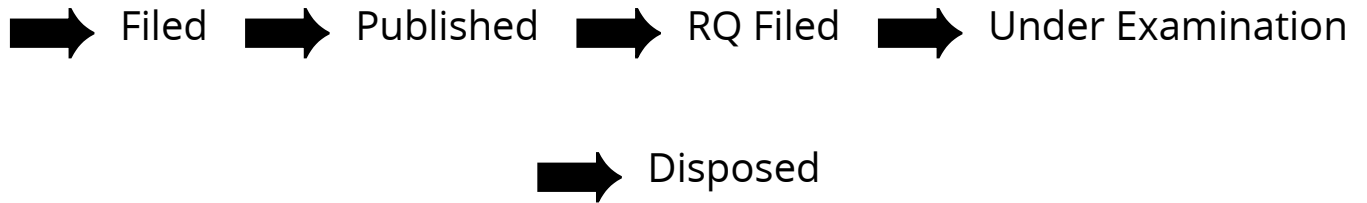
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(57) Abstract :

A non-contact nanostructure (1) and method of manufacturing the same for fouling free solar desalination comprising perforated SS202 sheet (4) with high absorptive nanocoating on the top side (2) and high emissive coating on the bottom side (3). The high absorptive thermolax nanocoating is being done on the top side of SS202 perforated sheet. The paint is being used to produce a high emissive surface on the bottom side. The method of manufacturing non-contact nanostructure (1) for fouling free solar desalination comprising the steps of: a) highly absorptive top-level/layer nanocoating is being done; b) highly emissive bottom level/layer is being done. The invention provides a solution to the fouling problem which included regular cleaning and washing, recycling of material.

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