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Application Details

APPLICATION NUMBER	202241051769
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/09/2022
APPLICANT NAME	VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
TITLE OF INVENTION	Solar Powered Desalination System
FIELD OF INVENTION	PHYSICS
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	26/10/2022
PUBLICATION DATE (U/S 11A)	16/09/2022
REPLY TO FER DATE	09/06/2023

Application Status

APPLICATION STATUS	Reply Filed. Application in amended examination
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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(54) Title of the invention : Solar Powered Desalination System

(51) International classification :C02F0001140000, C02F0103080000, B01D0001000000, C02F0001480000, C02F0001040000

(86) International Application No :PCT//
Filing Date :01/01/1900

(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

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(57) Abstract :

A solar powered desalination system (1) comprising glass cover (2), collection tube (3), plastic cover (4), measuring jar (5), wooden insulation (6), ferrite ring magnets (7), aluminum still (coated black) (8), and slot with rubber gasket (9). The invention includes a permanent magnet, which helps in improving the evaporation rates by magnetizing the salt water via breaking the hydrogen bonds. The micro charcoal powder helps in improving the performance of the system by receiving the maximum solar energy. Moreover, the depth of water for getting the maximum distillate yield output by varying the different depths of water such as 1 cm, 2 cm, and 3 cm. The maximum distillate yield output is obtained as 900 ml for the 2 cm depth which is optimum.

No. of Pages : 24 No. of Claims : 7