

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054486 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : EXPERIMENTAL INVESTIGATION ON HYBRID DOUBLE SLOPE SOLAR STILL INTEGRATED WITH PV/T SYSTEM

<p>(51) International classification :C02F0001140000, C02F0103080000, C02F0001000000, C02F0001040000, B01D0001000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. M. SUDHAKAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SRI SAIRAM ENGINEERING COLLEGE, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI - 600044. ----- 2)Dr. RAVISHANKAR SATHYAMURTHY 3)Dr. A. RAJENDRA PRASAD 4)Dr. G. PUTHILIBAI 5)Mr. C. JEEVA 6)Mr. S. MADHAVARAO 7)Ms. V. DEVATARIKA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1) Mr. M. SUDHAKAR Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, SRI SAIRAM ENGINEERING COLLEGE, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI - 600044. ----- 2)Dr. RAVISHANKAR SATHYAMURTHY Address of Applicant :KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, KPR INSTITUTIONS, AVINASHI ROAD, ARASUR, INDIA, 641407 ----- 3)Dr. A. RAJENDRA PRASAD Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SRI SAIRAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI, TAMIL NADU, INDIA - 600044. ----- 4)Dr. G. PUTHILIBAI Address of Applicant :PROFESSOR, DEPARTMENT OF CHEMISTRY, SRI SAIRAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI, TAMIL NADU, INDIA - 600044. ----- 5)Mr. C. JEEVA Address of Applicant :ASSISTANT PROFESSOR ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT, SRI SAIRAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI, TAMIL NADU, INDIA - 600044. ----- 6)Mr. S. MADHAVARAO Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SAGI RAMA KRISHNAMRAJU ENGINEERING COLLEGE(A), BHIMAVARAM, ANDHRA PRADESH, INDIA, 534204 ----- 7)Ms. V. DEVATARIKA Address of Applicant :PLOT NO:89, 4TH CROSS ST, MADAMBAKKAM, CHENNAI, TAMIL NADU, INDIA, 600126 -----</p>
---	---

(57) Abstract :

Present investigation discloses the efficient system to produce clean drinkable water from solar energy conversion. Distillation is one of many processes that can be used for water purification. This requires an energy input as heat, electricity and solar radiation can be the source of energy. When Solar energy is used for this purpose is known as Solar water Distillation. Solar Distillation is an attractive process to produce portable water using free of cost solar energy. This energy is used directly for evaporating water inside a device usually termed a Solar Still. Solar stills are used in cases where rain, piped, or well water is impractical, such as in remote homes or during power outages. The use of solar thermal energy in seawater desalination applications has so far been restricted to small-scale systems in rural areas with economic significance.

No. of Pages : 19 No. of Claims : 6