(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(51) International

(86) International

(87) International

Publication No.

Filing Date

Application Number

Filing Date

Application Number

Filing Date

(62) Divisional to

(61) Patent of Addition to :NA

Application No

classification

(22) Date of filing of Application :30/11/2021

:C02F0001140000, C02F0001280000,

F03G0006060000, C02F0001720000,

B01D0001000000

:NA

: NA

:NA

:NA

:NA

(21) Application No.202141055392 A

(43) Publication Date: 10/12/2021

(54) Title of the invention: DEVELOPMENT OF AN INTELLIGENTLY CONNECTED DISTILLATION DEVICE FOR WATER

(71)Name of Applicant:

DRAJESH S

Address of Applicant :No - 6/7, Pavendhar Street, NGO Nagar,

Ponneri - 601204 -----

2)Mrs. M. Bhuvaneswari Name of Applicant: NA Address of Applicant : NA (72)Name of Inventor: 1)Mrs. M. Bhuvaneswari

Address of Applicant : Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology.

Kuniamuthur, Coimbatore - 641008. -----

2)Mr. R. SENTHIL KUMAR

Address of Applicant : Assistant Professor. Department of Electronics and Communication Engineering, SSM Institute of Engineering and

Technology, Dindigul, Tamil Nadu – 624002, ----

3)Mr. R. CAROL PRAVEEN

Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, SSM Institute of Engineering and

Technology, Dindigul, Tamil Nadu – 624002. -----

4)Mr. P. SIVA SUBRAMANIAN

Address of Applicant : Assistant Professor, Department of Electronics and Communication Engineering, SSM Institute of Engineering and

Technology, Dindigul, Tamil Nadu – 624002. -

5)Dr. DAMANAPETA NARSIMHACHARY

Address of Applicant : Assistant Professor, Department of Mechanical Engineering, School of Engineering and Technology, G H Raisoni University, Village Dhode Borgaon, Chhindwara, Madhya Pradesh -

6)Ms. K. Durgalakshmi

Address of Applicant : Assistant Professor, Department of Electrical and Electronics Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi - 642003. -----

7)Mr. D. Gnanaprakasam

Address of Applicant : Assistant Professor, Department of Electrical and Electronics Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi - 642003. ------

8)Mr. S. Rajesh

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, R.M.K. Engineering College, Kavaraipettai - 601206. -----

(57) Abstract:

Water is an essential requirement for human living all throughout the world. Polluted water produces a variety of illnesses and, as a result, reduces human life expectancy. As a result, filtration is required; yet, despite the availability of numerous water filters, there will be a shortage of rational decision-making during water treatment. Our goal is to create a conversationally smart distilling device that can cleanse water from every source. Owing to the use of solar energy, this device is comparatively cheap, transportable, and energy effective. As a result, our purpose is to turn solar energy into clean drinking water as effectively as possible. Sun distilling is a cost-effective method for producing portable water using energy from the sun. This energy is primarily used to evaporate water in a device known as a solar still. Solar stills are utilised in situations when rainfall, pipeline water, or even well water is unavailable, like in isolated houses or even during power cuts. Filtration is one of many methods for purifying water, and solar is one of many sources of thermal energy. Maintaining standardized pH levels for cleansed water necessitates a high level of smart decisions and communications network cooperation. The technological developments, like IoT and AI, are used in this technology. Created the IoT processing unit, which is used to track and manage pH levels. The loT pH module is in charge of overseeing the pH levels, while the smart pH device is in charge of balancing the pH levels in order to have filtered water at any moment.

No. of Pages: 8 No. of Claims: 3

The Patent Office Journal No. 50/2021 Dated 10/12/2021

Engineering and

60111

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (RUS) Principal SSM Institute of Engineering and Technology

Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.