

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341007203 A

(19) INDIA

(22) Date of filing of Application :04/02/2023

(43) Publication Date : 24/02/2023

(54) Title of the invention : A Machine Learning Based Solar Photovoltaic Panel Cleaning with Heat reduction system

(51) International classification :H02S0040100000, B08B0001000000, F24S0040200000, A47K0010360000, B08B0001040000

(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

(71)Name of Applicant :

1)Dr.C.Sailaja

Address of Applicant :Professor, Department of Mechanical Engineering, Bangalore College of Engineering and Technology, Chandapura, Bangalore-560099 -----

2)Dr. Rajasekaran Shanmugam

3)Dr. Kunduru Srinivasulu Reddy

4)Dr. M.Saravanan

5)Dr. S. Meenakshi

6)Dr. V.G.Umale

7)Dr. B. Vijaya Ramnath

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.C.Sailaja

Address of Applicant :Professor, Department of Mechanical Engineering, Bangalore College of Engineering and Technology, Chandapura, Bangalore-560099 -----

2)Dr. Rajasekaran Shanmugam

Address of Applicant :Dean-Research, Ajeenkya D Y Patil University, The Innovation University, DC Building, Dr. DY Patil Knowledge City, Charholi Budruk, Via Lohegaon, Pune, 412105, Maharashtra, India -----

3)Dr. Kunduru Srinivasulu Reddy

Address of Applicant :Professor, Department of Mechanical Engineering, Sreenidhi Institute of Science and Technology, Yamnampet Village, Hyderabad-501301 -----

4)Dr. M.Saravanan

Address of Applicant :Associate Professor, Department of Mechanical Engineering, Annamalai University, Annamalai Nagar, Chidambaram-608002 -----

5)Dr. S. Meenakshi

Address of Applicant :Associate Professor, Department of Science & Humanities (General Engineering), R.M.K.Engineering College, Kavrapettai-601206 -----

6)Dr. V.G.Umale

Address of Applicant :Assistant Professor, Department of Electrical Engineering, Priyadarshini College of Engineering, Nagpur-440019 -----

7)Dr. B. Vijaya Ramnath

Address of Applicant :Professor and Head, Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai - 600044, Tamil Nadu, India -----

(57) Abstract :

[06] The work is about the design and development of a solar panel cleaning system. The main object of this design prototype is to clean the solar panel using an electrical mechanism, such that efficiency or quality of solar panel is not compromised. As a matter of fact, the solar panels need to be cleaned frequently. If task is performed manually, it will be very costly and time consuming. Water sprinklers and a special wiping material shall be used in the conceived mechanism design to insure quality of cleaning. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7]

No. of Pages : 18 No. of Claims : 4