

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/05/2022

(21) Application No.202241029321 A

(43) Publication Date : 17/06/2022

(54) Title of the invention : SUN TRACKING SOLAR PANEL

(51) International classification :H02S0020320000, H02S0020000000, H02S0020300000, F24S0030425000, F24S0030000000
(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)MLR Institute of Technology

Address of Applicant :Laxman Reddy Avenue, Dundigal-500043, Hyderabad Hyderabad -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. M. Dilip Kumar

Address of Applicant :, Department of Electrical & Electronics Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043 Hyderabad -----

2)Ms. B.Pooja

Address of Applicant :Department of Electrical & Electronics Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043 Hyderabad -----

3)Ms. G.Sumanasri

Address of Applicant :Department of Electrical & Electronics Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043 Hyderabad -----

4)Mr. P.Yashwanth

Address of Applicant :Department of Electrical & Electronics Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043 Hyderabad -----

5)Mr. Shaik Abdul Rasheed

Address of Applicant :Department of Electrical & Electronics Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043 Hyderabad -----

6)Dr. A. Sudhakar

Address of Applicant :Department of Electrical & Electronics Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043 Hyderabad -----

7)Dr. P.Sujatha

Address of Applicant :Department of Electrical & Electronics Engineering, JNTUA Kakinada -----

8)Mr. M Sreenivasa Reddy

Address of Applicant :Department of Electrical & Electronics Engineering, MLR Institute of Technology, Laxman Reddy Avenue, Dundigal-500043 Hyderabad -----

(57) Abstract :

Maximizing power output from a solar panel is desirable to increase efficiency of a solar panel. The aim of this invention is to capture the maximum amount of energy dissipated from the sun in the form of solar rays using solar panels. The position of the Sun with respect to the solar panel is not fixed due to the rotation of the Earth. For an efficient output, solar panel should absorb energy to a maximum extent. This can be achieved only if the panels are continuously moved in the direction of the Sun. The combination of a DC motor with a Solar panel which is controlled by an ATmega328P microcontroller helps in the movement of the solar panel according to the direction of the Sun. The amount of rotation is determined by the microcontroller, based on inputs retrieved from the two LDR sensors located next to the solar panel. 3 Claims & 3 Figures

No. of Pages : 10 No. of Claims : 3