

(54) Title of the invention : AN IMPROVISED DESIGN AND DEVELOPMENT OF SOLAR CHARGING STATION FOR EV

(51) International classification :H02J0007350000, H02J0007000000, C11B0009000000, B60L0053300000, G06Q0030060000

(86) International Application No :NA
 Filing Date :NA

(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. Piyush Raja
 Address of Applicant :Assistant Professor, CSE, College of Engineering Roorkee, Roorkee - 247667, Uttarakhand, India Roorkee -----

2)Dr. K. Premalatha
3)Mrs. Sharmitha D
4)Dr. T. Senthilnathan
5)Mr. I Rama Satya Nageswara Rao
6)Dr. S. Boobalan
7)Vasupalli Manoj
8)Mr. Thoram Saran Kumar
9)Dr. Jyoti Prasad Patra
10)Mr. Ketan Kishore Tonpe
11)Mr. Ram R Wayzode
12)Mr. Kalyani K Sengar

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Piyush Raja
 Address of Applicant :Assistant Professor, CSE, College of Engineering Roorkee, Roorkee - 247667, Uttarakhand, India Roorkee -----

2)Dr. K. Premalatha
 Address of Applicant :Associate Professor, Electrical And Electronics Engineering, Kumaraguru College of Technology, Coimbatore - 641049, Tamilnadu, India Coimbatore -----

3)Mrs. Sharmitha D
 Address of Applicant :Assistant Professor II, EEE, Kumaraguru College of Technology, Coimbatore – 641049, Tamilnadu, India Coimbatore -----

4)Dr. T. Senthilnathan
 Address of Applicant :Assistant Professor, Applied Physics, Sri Venkateswara College of Engineering, Sripurumpudhur, Kanchipuram District - 602117, Tamil Nadu, India Kanchipuram -----

5)Mr. I Rama Satya Nageswara Rao
 Address of Applicant :Assistant Professor, ECE Department, Bonam Venkata Chalamayya Engineering College(A), Odalarevu – 533210, Andhra Pradesh, India Odalarevu -----

6)Dr. S. Boobalan
 Address of Applicant :Professor & Head, EEE, Mohamad Sathak Engineering College, Kilakarai – 623806, Tamilnadu, India Kilakarai -----

7)Vasupalli Manoj
 Address of Applicant :Assistant Professor, Electrical And Electronics Engineering, GMR Institute of Technology, Gmr Nagar, Rajam, Vizianagaram District – 532127, Andhra Pradesh, India Vizianagaram -----

8)Mr. Thoram Saran Kumar
 Address of Applicant :Assistant Professor, ECE, Bonam Venkata Chalamayya Engineering College (A), Odalarevu - 533210, Andhra Pradesh, india Odalarevu -----

9)Dr. Jyoti Prasad Patra
 Address of Applicant :Faculty Electrical, Odisha University Of Technology And Research (Outr), Bhubaneswar., Govt of Odisha India, Odisha -751029, India Odisha -----

10)Mr. Ketan Kishore Tonpe
 Address of Applicant :Assistant Professor, Mechanical Engineering, Suryodaya College of Engineering And Technology, Nagpur – 4401204, Maharashtra, India Nagpur -----

11)Mr. Ram R Wayzode
 Address of Applicant :Assistant Professor, Mechanical Engineering, Suryodaya College of Engineering And Technology, Nagpur – 4401204, Maharashtra, India Nagpur -----

12)Mr. Kalyani K Sengar
 Address of Applicant :Assistant Professor, Mechanical Engineering, Suryodaya College of Engineering And Technology, Nagpur – 4401204, Maharashtra, India Nagpur -----

(57) Abstract :
 The price of petrol and diesel is increasing day by day. Amidst this price hike, the world is focusing on the production of electric vehicles. Until the charging infrastructure needed for electric vehicles is well developed, there are many challenges in driving electric cars. With this in mind, some electric car manufacturers are now adding solar charging features to electric cars. While electric vehicles are making inroads in the Indian car market, solarpowered electric cars are now being introduced in the international market. Preparations are underway to launch solar-powered electric cars in the international market. Charging stations are needed to charge electric cars. These are not readily available everywhere. If the charging infrastructure is not fully developed, driving electric cars will face many challenges. Some electric car manufacturers are now adding solar charging features to their electric cars. Due to this, car drivers do not have to depend on charging stations to charge their cars. In this post you will find about two solar powered electric cars in the world. Work on these is going on very fast. It can see them on the roads in a few days. The car is charged by sunlight. The car is equipped with solar panels. On a single charge, they can run up to 1,000 miles or about 1,600 kilometers. The Humble One features a solar roof, power-generating side lights, peerto-peer charging, and regenerative braking and fold-out solar array wings. With the help of these, the battery of the SUV can be easily charged. Humble Motors has designed the SUV Humble One. This car is also solar powered. Solar panels are installed in various areas of this car including the roof. Using these, the car charges the battery.

No. of Pages : 9 No. of Claims : 10