

Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India



(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

Application No

classification

(22) Date of filing of Application: 28/03/2023

:PCT//

: NA

NA

:NA

:NA

:NA

:01/01/1900

(21) Application No.202331022706 A

(43) Publication Date: 07/04/2023

(54) Title of the invention : Fabrication and Design of the Solar Powered 360-degree rotating vehicle

:B60N 020200, B60N 021400, F21S

090300, F25B 270000, H02J 073500

(71)Name of Applicant:

I)SWAMI VIVEKANANDA UNIVERSITY

Address of Applicant :Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal - 700121, India. Bara Kanthalia -----

Name of Applicant: NA Address of Applicant: NA (72)Name of Inventor: 1)DR. MD ERSHAD

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal - 700121, India. Bara Kanthalia --------

2)DR. RANJAN KUMAR

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia --------

3)MR. SAURABH ADHIKARI

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia -------

4)MR. ABHISHEK DHAR

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia ------

5)DR. SAIKAT MAJUMDAR

Address of Applicant:SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India, Bara Kanthalia

6)MR. SOUMYA GHOSH

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal - 700121, India. Bara Kanthalia

7)DR. SAMRAT BISWAS

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal - 700121, India. Bara Kanthalia

(57) Abstract:

The design and fabrication of a 360-degree wheel rotation vehicle using a DC motor and steering are done to reduce the time to turn from one direction to another direction. The battery is powered using both PV panels, and battery. During day-time battery is powered using PV panels, and during night-time car is operated using power from the battery. This vehicle can move in all directions at the same position with the use of steering, sprocket, DC motor, bearing, and chaindrive. The

mainfunction of this vehicle is easy to move from one direction to another direction. Modern development and economical progression of Indianso cicty resulted in an increase of people on railway platforms, and an increase of vehicles on the road, due to space constraints, the hospital is a major problem in the country. The present study aims to development of a system to reduce the turning radius of vehicles. In this system at first, a vehicle isstopped and the wheels are the negligible length of the vehicle is used to carry goods in various areas such as railway platforms, hospitals, industries, and markets.

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