

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 40/2023
ISSUE NO. 40/2023

शुक्रवार
FRIDAY

दिनांक: 06/10/2023
DATE: 06/10/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341065072 A

(19) INDIA

(22) Date of filing of Application :27/09/2023

(43) Publication Date : 06/10/2023

(54) Title of the invention : SELF-CHARGING ELECTRIC BICYCLE

<p>(51) International classification :B60L50/20, B60L50/50, B60L50/53, B60L8/00, B62M6/40, B62M6/85, B62M6/90, H02J7/00</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CMR College of Engineering & Technology, Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- --- 2)ADDULA SAI SIDDARTHA REDDY 3)B.Kavya 4)K.Pallavi 5)V.Vamshi krishna 6)Ch.Srujana Sri 7)Archana Bathula 8)B.Balakrishna 9)B.Suresh Ram 10)Kayyam Sathish 11)Md.Asma Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)ADDULA SAI SIDDARTHA REDDY Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 2)B.Kavya Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 3)K.Pallavi Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 4)V.Vamshi krishna Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 5)Ch.Srujana Sri Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 6)Archana Bathula Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 7)B.Balakrishna Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 8)B.Suresh Ram Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 9)Kayyam Sathish Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India ----- 10)Md.Asma Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401, India -----</p>
--	---

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a self-charging electric bicycle. A self-charging electric bicycle comprises of four power sources comprising, a Solar panel or solar plate, a small windmill, a dynamo and a piezo sensor configured to generate electricity and store the electricity in a Lithium ion Battery. Further, the Lithium ion battery situated in the form of a rod between the two tyres is configured to store the electricity and further, pass on the electricity to a hub motor. Further, the hub motor situated on the rear wheel is configured to rotate with the help of the electrical energy received from the Lithium ion battery. Finally, a controller situated in the screen panel, configured to control the speed of the hub motor and bicycle with the help of an accelerator. FIG. 1

No. of Pages : 21 No. of Claims : 10