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(71)Name of Applicant :

1)Brainware University, Kolkata

Address of Applicant :398, Ramkrishnapur Rd, Near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Gourab Chakraborty

Address of Applicant :HoD (ME), Brainware University, 398 Ramkrishnapur Road, Barasat, North 24 Pgs, Kolkata 700125, West Bengal, India -----

2)Mr. Nityanando Mahato

Address of Applicant :AsP (ME), 398 Ramkrishnapur Road, Barasat, North 24 Pgs, Kolkata 700125, West Bengal, India -----

3)Mr. Sayon Dey

Address of Applicant :AsP (ME), 398 Ramkrishnapur Road, Barasat, North 24 Pgs, Kolkata 700125, West Bengal, India -----

4)Sourya Dey

Address of Applicant :Student, Diploma in Mechanical Engineering, Brainware University, 398 Ramkrishnapur Road, Barasat, North 24 Pgs, Kolkata 700125, West Bengal, India -----

5)Suratna Jyoti Pal

Address of Applicant :Student, Diploma in Mechanical Engineering, Brainware University, 398 Ramkrishnapur Road, Barasat, North 24 Pgs, Kolkata 700125, West Bengal, India -----

6)Syed Alisan Hossain

Address of Applicant :Student, Diploma in Mechanical Engineering, Brainware University, 398 Ramkrishnapur Road, Barasat, North 24 Pgs, Kolkata 700125, West Bengal, India -----

(57) Abstract :

[027] The solar e-bike is an electric bicycle that comes equipped with a rechargeable battery and a solar panel to aid the rider when pedalling. The bike has a manual pedalling system that can be used in case of any malfunction with the electric system. This eco-friendly vehicle has several smart features, including a digital speedometer, navigation system, anti-theft alarm, tracking system, and centre locking system. The solar e-bike is lightweight compared to other electric bikes, making it an easy-to-maintain mode of transportation. The bike can be used in both urban traffic and rural areas, and mass production can bring forth economically affordable price ranges. Solar technology such as solar panels, battery packs, and nano solar technology (solar cells) keep the motor running. These cells convert sunlight to energy needed to power up the battery of the vehicle. Accompanied Drawing [FIG. 1]

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