(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/03/2023

(21) Application No.202311014729 A
(43) Publication Date : 12/05/2023

(54) Title of the invention : A METHOD OF REGENERATING ELECTRICITY USING REINFORCED CARBON NANO COMPOSITE IN BICYCLES

(51) International classification :A61P 031000, B82Y 300000, C04B 358300, C09J 110400, H01L 216830
(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)Radhey Shyam Meena
Address of Applicant :eMaster-PSREM, IIT Kanpur / Tech Expert, Ministry of New & Renewable Energy, New Delhi 110003 ---------- ----------
2)Vivek Sharma
3)Dr. Prakash Babu Kanakavalli
4)Shilpa Urekar
5)Prof. (Dr.) Mohammad Israr
6)Dr.Raghuram Pradhan
7)Mr. S. Siva Chandran
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Radhey Shyam Meena
Address of Applicant :eMaster-PSREM, IIT Kanpur / Tech Expert, Ministry of New & Renewable Energy, New Delhi 110003 ---------- ----------
2)Vivek Sharma
Address of Applicant :eMaster-PSREM, IIT Kanpur / JE, Rajasthan Renewable Energy Development Agency, Jaipur ---------- ----------
3)Dr. Prakash Babu Kanakavalli
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru, Andhra Pradesh, 520007 ---------- ----------
4)Shilpa Urekar
Address of Applicant :PhD Scholar, University of Petroleum & Energy Studies (UPES), Dehradun ---------- ----------
5)Prof. (Dr.) Mohammad Israr
Address of Applicant :President, Maryam Abacha American University of Nigeria, Federal Republic of Nigeria ---------- ----------
6)Dr.Raghuram Pradhan
Address of Applicant :Associate Professor, Department of Mechanical Engineering, PACE Institute of Technology & Sciences, NH-5, Near Valluramma Temple, Ongole-523272, Andhra Pradesh ---------- ----------
7)Mr. S. Siva Chandran
Address of Applicant :Assistant Professor, Mechanical Engineering Department, Sri Sai Ram Engineering College, Chennai 600044 ----------

(57) Abstract :
The present invention discloses a method of regenerating electricity using reinforced carbon nano composite in bicycles. In the present invention, comprising the steps of: supplying a material with single-wall carbon nanotubes, said material having a surface; and applying an electric field to said surface, resulting in an array of said nanotubes. Further, the reinforcement material can be any combination of the following: silicon dioxide; magnesium oxide; zinc oxide; silicon carbide; talc; calcium carbonate; kaolin; glass fibre; carbon fibre; the additive can be any combination of carbon nanosubstance; a secondary antioxidant; a thermo-stabilizer; a dispersing agent; a parting agent; a nucleator; and so on.

No. of Pages : 16 No. of Claims : 8