

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321042501 A

(19) INDIA

(22) Date of filing of Application :25/06/2023

(43) Publication Date : 15/09/2023

(54) Title of the invention : NATURAL FIBER COMPOSITES WITH IMPROVED IMPACT RESISTANCE AND PREPARATION METHOD THEREOF

<p>(51) International classification :C08J0005040000, B32B0005260000, C08L0027060000, C08L0051040000, C08K0007220000</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)Sivasubramanian Palanisamy Address of Applicant :Associate Professor, Department of Mechanical Engineering, Dilkap Research Institute of Engineering and Management Studies, Neral, Karjat- 410101, Maharashtra, India -----</p> <p>2)Dr. S. Thiruchitrabalam 3)Dr. Syed Azeem Pasha 4)Dr. Karaka VVNR Chandra Mouli 5)Dr. Vemu Vara Prasad 6)Dr. P. Suresh Kumar 7)Mr. V. Prabhu Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Sivasubramanian Palanisamy Address of Applicant :Associate Professor, Department of Mechanical Engineering, Dilkap Research Institute of Engineering and Management Studies, Neral, Karjat- 410101, Maharashtra, India -----</p> <p>2)Dr. S. Thiruchitrabalam Address of Applicant :Assistant Professor, Department of Mechanical and Materials Engineering, University of Jeddah, Jeddah, Kingdom of Saudi Arabia (KSA) -----</p> <p>3)Dr. Syed Azeem Pasha Address of Applicant :Associate Professor, Mechanical Engineering Department, Deccan College of Engineering & Technology, Darussalam, Hyderabad - 500001, Telangana, India -----</p> <p>4)Dr. Karaka VVNR Chandra Mouli Address of Applicant :Technology Transfer Officer, Department of Mechanical Engineering, GITAM School of Technology, GITAM Deemed to be University, Visakhapatnam- 530045, Andhra Pradesh, India -----</p> <p>5)Dr. Vemu Vara Prasad Address of Applicant :Assistant Professor, Department of Mechanical Engineering, University College of Engineering Kakinada, JNTUK, Kakinada -533003 -----</p> <p>6)Dr. P. Suresh Kumar Address of Applicant :Associate Professor, Mechanical Engineering Department, RVR & JC College of Engineering, Chowdavaram, Guntur -----</p> <p>7)Mr. V. Prabhu Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai -600044 -----</p>
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(57) Abstract :

[028] The present invention provides natural fiber composites with improved impact resistance and preparation method thereof. In the present invention, a method for improving the impact resistance of natural fiber composites. By utilizing innovative reinforcement techniques and compatible matrix materials, the resulting composites exhibit enhanced impact resistance while retaining their eco-friendly properties. The invention enables the use of natural fiber composites in industries where impact resistance is crucial, such as automotive, aerospace, and construction. Accompanied Drawings [FIG 1-3]

No. of Pages : 18 No. of Claims : 7