

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341009150 A

(19) INDIA

(22) Date of filing of Application :11/02/2023

(43) Publication Date : 17/02/2023

(54) Title of the invention : Fiber Reinforced Composites (FRC) for Electric Vehicles

<p>(51) International classification :B32B0003260000, B32B0005240000, B29L0031300000, B29D0099000000, C08K0007060000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.M.Saravanan Address of Applicant :Associate Professor, Department of Mechanical Engineering, Annamalai University, Annamalai Nagar-608002. ----- 2)Mr.S.Arul Selvan 3)Dr. K. Ramachandran 4)Mr.S.Karthikeyan 5)Y.Sravani 6)M.Subramanian 7)Mr.V.Velmurugan Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.M.Saravanan Address of Applicant :Associate Professor, Department of Mechanical Engineering, Annamalai University, Annamalai Nagar-608002. ----- 2)Mr.S.Arul Selvan Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Annamalai University, Annamalai Nagar-608002. ----- 3)Dr. K. Ramachandran Address of Applicant :Associate Professor, Department of Mechanical Engineering, Study World College of Engineering, 1/2a-1, Alagu Nachiamman Kovil Road, Palathurai, Madukkarai Post, Coimbatore- 641105. ----- 4)Mr.S.Karthikeyan Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Agni College of Technology, Thalambur, OMR, Chennai-600130. --- ----- 5)Y.Sravani Address of Applicant :Research Scholar, Department of Mechanical Engineering, Anna University, Chennai, Tamil Nadu -600025. ----- 6)M.Subramanian Address of Applicant :Assistant Professor, Department of Mechanical Engineering, St.Joseph's College of Engineering, Old Mamallapuram Road, Chennai- 600119. -- ----- 7)Mr.V.Velmurugan Address of Applicant :Associate Professor, Department of Mechanical Engineering, Sri Sairam Engineering College, Chennai, Tamil Nadu 602109. ----- -----</p>
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(57) Abstract :

[06] Composite materials having better strength to weight ratio are one of the finest options for planning, designing and manufacturing of the lightweight components. In automobile sector, employment of composite materials would reduce the weight of electric vehicles as well as influence their aerodynamic properties. Therefore, it would decrease the consumption of fuel as well by cutting down harmful emissions and particulate matter. Numerous developments in such technologies are studied over the last decade by automobile establishments and academic researchers. Fiber-reinforced polymers, particularly those established on glass and carbon fibers, have attracted attention of the automobile sector due to their high performance and lesser weight. In addition An improved metal, alloy, or intermetallic matrix composite containing carbon reinforcing fibers is formed. Accompanied Drawing [FIG. 1][FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5]

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