

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 11/2021
ISSUE NO. 11/2021

शुक्रवार
FRIDAY

दिनांक: 12/03/2021
DATE: 12/03/2021

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141008703 A

(19) INDIA

(22) Date of filing of Application :02/03/2021

(43) Publication Date : 12/03/2021

(54) Title of the invention : DESIGN AND DEVELOPMENT OF TWO WHEELER MUD GUARD USING GLASS AND JUTE FIBER

(51) International classification	:C08J0005060000, B29K0105060000, C08J0005040000, G01N0003200000, G01N0003040000	(71)Name of Applicant : 1)Dr. A. RAVEENDRA Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS), MAISAMMAGUDA (H), GUNDLAPOCHAMPALLY VILLAGE, MEDCHAL MANDAL, MEDCHAL-MALKAJGIRI DISTRICT, HYDERABAD, TELANGANA STATE - 500100. Telangana India 2)Dr. P. BADARI NARAYANA 3)Dr. S. NARASIMHA KUMAR 4)Mr. B. GOVINDA REDDY
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(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	

(57) Abstract :

This invention is based on utilization of synthetic and natural fibers in polymer composites. In this research work mechanical testing and methods are used to study the material properties of mud guard fibre - reinforced polyester composites with varying fibre contents. The overall objective of this paper is to find out and compare the difference of two material which have different properties and conditions, namely the first one acrylonitrile butadiene styrene and the composite material glass fiber and Jute fiber with epoxy resin. These composites are subjected to give high strength and light weight fiber composite material. In this project a mechanical testing like tensile flexural and impact test conducted on a mud guard, composite material and Acrylonitrile Butadiene Styrene. In this research a prototype model of mud guard was prepared by our team by using the composite material and the different tests are conducted on it to know the different properties and Values and it is compared with the existing material, then the results are concluded.

No. of Pages : 22 No. of Claims : 6



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Patent Search

Invention Title	DESIGN AND DEVELOPMENT OF TWO WHEELER MUD GUARD USING GLASS AND JUTE FIBER
Publication Number	11/2021
Publication Date	12/03/2021
Publication Type	INA
Application Number	202141008703
Application Filing Date	02/03/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	POLYMER TECHNOLOGY
Classification (IPC)	C08J0005060000, B29K0105060000, C08J0005040000, G01N0003200000, G01N0003040000

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Abstract:

This invention is based on utilization of synthetic and natural fibers in polymer composites. In this research work mechanical testing and methods are used to study properties of mud guard fibre - reinforced polyester composites with varying fibre contents. The overall objective of this paper is to find out and compare the different material which have different properties and conditions, namely the first one acrylonitrile butadiene styrene and the composite material glass fiber and jute fiber with resin. These composites are subjected to give high strength and light weight fiber composite material. In this project a mechanical testing like tensile flexural and impact conducted on a mud guard, composite material and Acrylonitrile Butadiene Styrene. In this research a prototype model of mud guard was prepared by our team by composite material and the different tests are conducted on it to know the different properties and Values and it is compared with the existing material, then the results concluded.

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