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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : THE EFFECT OF FIBER CONTENT ON PHYSICAL, CHEMICAL PROPERTIES OF FIBER AND DUST POWDER COMPOSITE

<p>(51) International classification :C08J0005040000, C08K0003220000, B29C0070080000, B29C0048395000, C08K0007140000</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)Mr. Arvind Chaudhary Address of Applicant :Assistant Professor, Mechanical Engineering Department, IFTM University, Moradabad, Uttar Pradesh - 244102 ----- 2)Dr. Vaibhav Trivedi 3)Mr. Mayank Bharadwaj 4)Mr. Shashank Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. Ayush Saxena Address of Applicant :Assistant Professor, Mechanical Engineering Department, IFTM University, Moradabad, Uttar Pradesh - 244102 ----- 2)Mrs. Bhavana Singh Address of Applicant :Assistant Professor, Mechanical Engineering Department, IFTM University, Moradabad, Uttar Pradesh - 244102 ----- 3)Mr. Vivek Shankhdhar Address of Applicant :Assistant Professor, Mechanical Engineering Department, IFTM University, Moradabad, Uttar Pradesh - 244102 ----- 4)Mr. Mohammad Javed Address of Applicant :Assistant Professor, Mechanical Engineering Department, IFTM University, Moradabad, Uttar Pradesh - 244102 ----- 5)Mr. Kuldeep Dubey Address of Applicant :Assistant Professor, Mechanical Engineering Department, IFTM University, Moradabad, Uttar Pradesh - 244102 ----- 6)Mr. Naveen Kumar Address of Applicant :House Number- 28, Street number-03, Village - Machkhera, Post Sambhal, Uttar Pradesh - 244410 ----- -----</p>
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(57) Abstract :

The present invention relates to that Basalt fiber and marble dust powder reinforced polymers composites have been investigated with different fiber length the following conclusion were drawn. The characterization of the composites reveals that the fiber length is having a significant effect on the mechanical properties of composites and also fiber content. The optimum fiber weight percentage of 8-12 % of fiber and optimum length of the fiber of 13 mm were investigated. The length of reinforced basalt fiber plays a significant impact on some mechanical properties, Impact strength of basalt fiber reinforced composite of 13 mm length shows the maximum impact energy absorption in all the percentage of fiber.

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