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(54) Title of the invention : GRAPHENE OXIDE AND CARBON FIBER REINFORCED NANOCOMPOSITE MATERIAL

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(57) Abstract :

The present disclosure relates generally to nanocomposite materials. More specifically, the disclosure is directed to a graphene oxide and carbon fiber reinforced nanocomposite material comprising one or a plurality of layer(s) of carbon fibers and one or a plurality of layer(s) of epoxy matrix; wherein the carbon fibers are bidirectional carbon fibers and wherein the epoxy matrix comprises an epoxy resin dispersed with graphene oxide in a weight percentage range of 1-3% with respect to the epoxy resin. The disclosure also provides a process of preparing the graphene oxide and carbon fiber reinforced nanocomposite material.

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