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(54) Title: DISPERSIBLE EDGE FUNCTIONALISED GRAPHENE PLATELETS

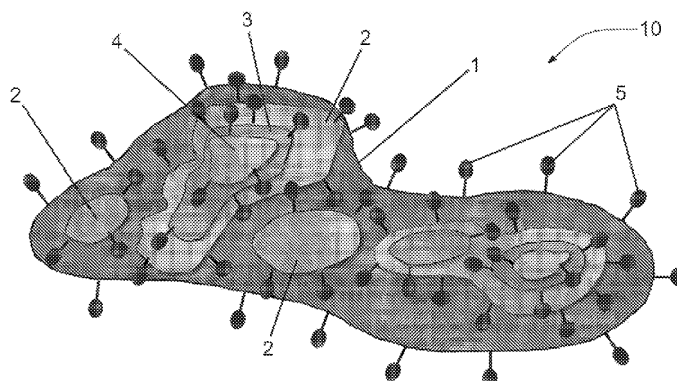


FIGURE 1

(57) Abstract: The present disclosure provides a dispersible graphene platelet and a method of making same. The structure of the graphene platelet 10 comprises a base layer 1 of graphene on which at least one discontinuous layer 2, 3, 4 of graphene is stacked, with each layer of graphene above the base layer having a smaller surface area than the layer it is stacked upon. The edges of the base layer and the discontinuous layers stacked upon it are all at least partially functionalised 5, providing a structure with graphene-like properties owing to the base layer and relatively high dispersibility owing to the increased amount of functionalised groups on each platelet. The platelets may be used for a number of applications, for example in the production of electrodes or composite materials.

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WO 2020/073081 A1

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