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(54) Title: COMPOSITE MATERIAL AND METHODS OF OBTAINING THE SAME

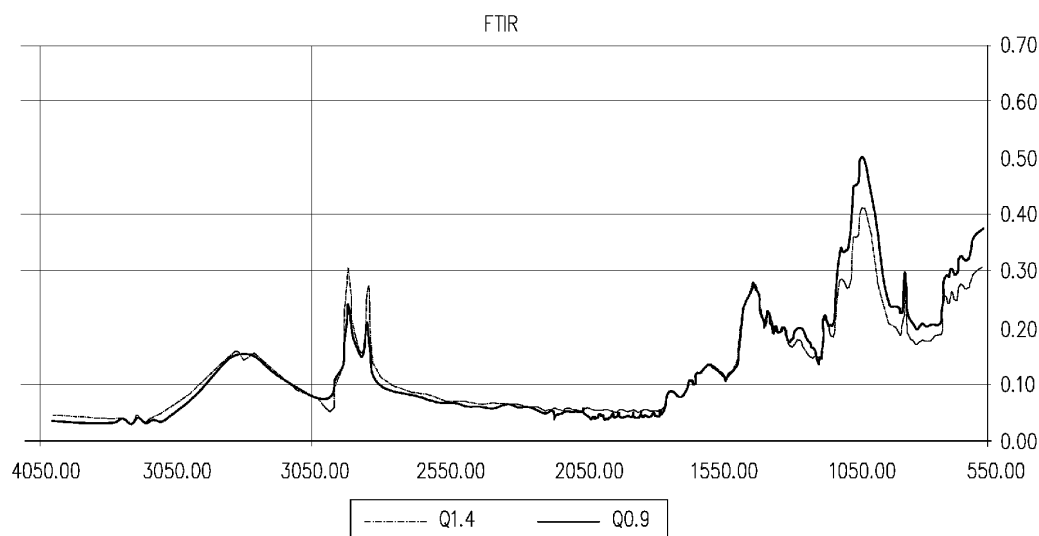


FIG. 2

(57) Abstract: The present disclosure provides a composite material comprising a homogenous blend of (a) at least about 40%w/w of non-plastic organic matter out of a total weight of the composite material, said non-plastic organic matter comprising at least cellulose; (b) between about 5%w/w and about 60%w/w plastic matter out of a total weight of said composite material, said plastic matter comprising a plurality of synthetic thermoplastic polymers; and (c) up to 15%w/w inorganic matter; wherein said composite material comprises aryl containing synthetic polymers in an amount of less than 10% out of the total weight of said composite material; and wherein said composite material is characterized by at least one of the following properties: (i) it has a notched izod impact of at least 15J/m; and (ii) a sample of said composite material that has been subjected to injection molding has at least one of tensile strength of at least 8MPa; and flexural strength of at least 15MPa. Also provided is a method of preparing the composite material, the method

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involving use of heterogenous intake material that comprises aryl- containing synthetic polymers in an amount of less than 10% out of the total weight of said composite material; and to methods of producing articles of manufacture from the composite material.