

Title (en)

METHOD FOR PREPARING A THERMOPLASTIC COMPOSITE MATERIAL CONTAINING NANOTUBES, PARTICULARLY CARBON NANOTUBES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES NANORÖHREN, INSBESONDERE KOHLENSTOFFNANORÖHREN, ENTHALTENDEN THERMOPLASTISCHEN VERBUNDWERKSTOFFS

Title (fr)

PROCÉDÉ DE PRÉPARATION D'UN MATÉRIAU COMPOSITE THERMOPLASTIQUE À BASE DE NANOTUBES, NOTAMMENT DE CARBONE

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Application

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Abstract (en)

[origin: WO2010046606A1] The present invention relates to a method for preparing a composite material, preferably containing 10 to 50 wt % of nanotubes, said method including: (a) inserting nanotubes and at least one thermoplastic polymer, such as a homo- or copolyamide, a polycarbonate, an SBM or a PEG, in a mixer (b) melting the thermoplastic polymer, and (c) mixing the melted thermoplastic polymer with the nanotubes, with the proviso that a plasticizer is introduced upstream from, or inside, the polymer melting area. The invention also relates to the resulting composite material, as well as to the use thereof for manufacturing a composite product.

IPC 8 full level

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