

Title (en)

METHOD FOR GRAFTING INTO A LAYER LOCATED DEEP INSIDE AN ORGANIC MATERIAL BY MEANS OF AN ION BEAM

Title (de)

VERFAHREN ZUR PFROPFUNG IN EINE SCHICHT TIEF IM INNEREN EINES ORGANISCHEN MATERIALS ANHAND EINES IONENSTRAHLS

Title (fr)

PROCEDE DE GREFFAGE EN COUCHE PROFONDE DANS UN MATERIAU ORGANIQUE PAR UN FAISCEAU D'IONS

Publication

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Application

**EP 11741630 A 20110701**

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Abstract (en)

[origin: WO2012007671A1] The invention relates to a method for grafting monomers (M) into a layer located deep inside an organic material by means of an ion beam (X), wherein: the dose of ions per unit of area is selected from a range of 1012 ions/cm<sup>2</sup> to 1018 ions/cm<sup>2</sup> so as to create a store of free radicals (1) in a large layer of between 0 and 3000 nm; and free radicals (1) of hydrophilic and/or hydrophobic and/or antibacterial monomers (M) are grafted into said store. Organic materials having water-repellant, hydrophilic, and/or antibacterial properties that are effective over a long period of time can thus be obtained.

IPC 8 full level

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Citation (search report)

See references of WO 2012007671A1

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