

Title (en)
ANTIMICROBIALLY TREATED AND/OR STAIN-RESISTANT PLANAR SUBSTRATES AND METHOD FOR PRODUCING THE SAME

Title (de)
ANTIMIKROBIELL BEHANDELTE UND/ODER SCHMUTZABWEISENDE FLÄCHENSUBSTRATE SOWIE VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
SUBSTRATS PLATS AYANT REÇU UN TRAITEMENT ANTIMICROBIEN ET/OU RÉSISTANT AUX TACHES ET PROCÉDÉ DE PRODUCTION CORRESPONDANT

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Priority

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Abstract (en)
[origin: WO2010106152A2] The invention relates to a planar or shaped textile material comprising or constituted of fibers, at least part of the fibers being coated with a hydrolytically condensed inorganic/organic hybrid material having single-walled or multi-walled carbon nanotubes which are embedded therein, optionally covalently bound thereto. The carbon nanotubes are preferably functionalized, especially with carboxylic acid groups or sulfanilic acid groups. The textile material is suitable for producing protective clothing, barrier materials or the like. The invention further relates to the use of the above-defined hybrid material as a coating material which imparts stain-resistance and/or antimicrobial properties to the coated substrate.

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