

Title (en)

PROCESS FOR SCRATCH- AND ABRASION-RESISTANT COATING AND PHYSICAL MATTING OF PLASTICS SUBSTRATES, MORE PARTICULARLY POLYMETHYL METHACRYLATE, WITH NANOCOMPOSITE COATING MATERIAL

Title (de)

VERFAHREN ZUR KRATZ- UND ABRASIONSBESTÄNDIGEN BESCHICHTUNG UND PHYSIKALISCHEN MATTIERUNG VON KUNSTSTOFFSUBSTRATEN, INSBESONDERE POLYMETHYLMETHACRYLAT, MIT NANOKOMPOSITLACK

Title (fr)

PROCÉDÉ POUR LE REVÊTEMENT RÉSISTANT AUX GRIFFES ET À L'ABRASION ET LE MATAGE PHYSIQUE DE SUBSTRATS PLASTIQUES, EN PARTICULIER EN POLY(MÉTHACRYLATE DE MÉTHYLE), PAR UNE LAQUE NANOCOMPOSITE

Publication

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Application

**EP 11712805 A 20110328**

Priority

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Abstract (en)

[origin: WO2012013364A1] The invention relates to a process for the surface-finishing of plastics substrates, preferably polymethyl methacrylate (abbreviated hereinafter to PMMA), by coating with a clear coating material comprising nanoparticles (hereinafter nanocomposite coating material) and irradiating the same with vacuum UV light of wavelength 172 nm from an Xe\* excimer lamp. This process leads to excellent adhesion of the coating substance on the substrate. It is moreover possible to give the coating surface a topography. The mechanical and chemical properties and performance characteristics of uncoated substrate are substantially exceeded when a substrate is coated in this way.

IPC 8 full level

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Citation (search report)

See references of WO 2012013364A1

Cited by

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DOCDB simple family (application)

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