

Title (en)

USE OF CARBON NANOTUBES THAT CONTROL VISCOSITY IN BINDING AGENT SYSTEMS AND SOLVENT-FREE COATING MATERIAL COMPRISING CARBON NANOTUBES ON THE BASIS OF FUNCTIONAL REACTION PARTNERS FOR IN-MOULD COATING (IMC) AND TOP COATING PROCESSES AND METHOD FOR PRODUCING SAID MATERIAL

Title (de)

VERWENDUNG VON DIE VISKOSITÄT STEUERNDEN CARBONNANOTUBES IN BINDEMITTELSYSTEMEN UND LÖSUNGSMITTELFREIER BESCHICHTUNGSSTOFF MIT CARBONNANOTUBES AUF DER BASIS FUNKTIONELLER REAKTIONSPARTNER FÜR IN-MOULD-COATING (IMC) UND TOP-COATING SOWIE VERFAHREN ZUR HERSTELLUNG DESSELBEN

Title (fr)

UTILISATION DE NANOTUBES DE CARBONE POUR RÉGULER LA VISCOSITÉ DE SYSTÈMES DE LIANTS ET SUBSTANCE DE REVÊTEMENT EXEMPT DE SOLVANT ET CONTENANT DES NANOTUBES DE CARBONE À BASE DE RÉACTIFS FONCTIONNELS POUR ENDUCTION DANS LE MOULE (IMC) ET COUCHE DE FINITION, ET PROCÉDÉ DE PRODUCTION DE CETT

Publication

**EP 2134796 A2 20091223 (DE)**

Application

**EP 08715808 A 20080216**

Priority

- EP 2008001207 W 20080216
- DE 102007008670 A 20070220

Abstract (en)

[origin: WO2008101639A2] The aim of the invention is to provide a solvent-free, light- and weather-resistant coating material with final characteristics according to the invention, on the basis of a curable polymerisation product comprising hydroxyl and/or amino-functional groups that can be cross-linked with an isocyanate. To achieve this, according to the invention, carbon nanotubes are incorporated into the binding agent to reduce the viscosity within a range of less than 0.1% and to increase the viscosity within a range of greater than 0.1 % and homogenisation takes place by supplying energy at a power of greater than 500 Ws /ml.

IPC 8 full level

**C08K 7/24** (2006.01); **C09D 7/48** (2018.01); **C09D 7/61** (2018.01); **C09D 7/62** (2018.01)

CPC (source: EP US)

**C09D 7/48** (2017.12 - EP US); **C09D 7/61** (2017.12 - EP US); **C09D 7/62** (2017.12 - EP US); **C09D 7/70** (2017.12 - EP US); **C09D 175/04** (2013.01 - EP); **C08K 3/041** (2017.04 - EP)

C-Set (source: EP)

**C09D 175/04 + C08K 3/041**

Citation (search report)

See references of WO 2008101639A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102007008670 A1 20080821**; EP 2134796 A2 20091223; WO 2008101639 A2 20080828; WO 2008101639 A3 20081009

DOCDB simple family (application)

**DE 102007008670 A 20070220**; EP 08715808 A 20080216; EP 2008001207 W 20080216