Title (en)

METHOD FOR IMPREGNATING CONTINUOUS FIBRES WITH A COMPOSITE POLYMER MATRIX CONTAINING A THERMOPLASTIC POLYMER

Title (de)

VERFAHREN ZUR IMPRÄGNIERUNG DURCHGEHENDER FASERN MIT EINER VERBUNDPOLYMERMATRIX MIT EINEM THERMOPLASTISCHEN POLYMER

Title (fr)

PROCEDE D'IMPREGNATION DE FIBRES CONTINUES PAR UNE MATRICE POLYMERIQUE COMPOSITE RENFERMANT UN POLYMERE THERMOPLASTIQUE

Publication

EP 2158256 A2 20100303 (FR)

Application

EP 08806115 A 20080627

Priority

- FR 2008051187 W 20080627
- FR 0704620 A 20070627

Abstract (en)

[origin: WO2009007617A2] The invention relates to a method for the impregnation of continuous fibres, that comprises coating said fibres with a polymer matrix containing at least one thermoplastic semi-crystalline polymer having a glass transition temperature (Tg) lower than or equal to 130°C, and nanotubes of at least one chemical element selected from the elements of the columns IIIa, IVa and Va of the periodic table. The invention also relates to the composite fibres that can be obtained by said method, and to the use thereof.

IPC 8 full level

B29B 15/10 (2006.01); **B29B 15/12** (2006.01); **C08J 5/04** (2006.01); **C08J 5/10** (2006.01)

CPC (source: EP KR US)

B29B 15/10 (2013.01 - KR); **B82Y 30/00** (2013.01 - EP US); **C08J 5/005** (2013.01 - EP US); **C08J 5/04** (2013.01 - KR); **C08J 5/047** (2013.01 - EP US); **C08J 5/10** (2013.01 - EP KR US); **C08J 5/243** (2021.05 - EP KR US); **C08J 5/249** (2021.05 - EP KR US); B29B 15/12 (2013.01 - EP US); B29K 2105/162 (2013.01 - EP US); B82Y 30/00 (2013.01 - KR); Y10T 428/292 (2015.01 - EP US); Y10T 428/2933 (2015.01 - EP US)

Citation (search report)

See references of WO 2009007617A2

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2918081 A1 20090102; **FR 2918081 B1 20090918**; CN 101790559 A 20100728; CN 101790559 B 20130417; EP 2158256 A2 20100303; JP 2010531397 A 20100924; KR 20100023902 A 20100304; US 2010203328 A1 20100812; WO 2009007617 A2 20090115; WO 2009007617 A3 20090305

DOCDB simple family (application)

FR 0704620 A 20070627; CN 200880104864 A 20080627; EP 08806115 A 20080627; FR 2008051187 W 20080627; JP 2010514071 A 20080627; KR 20097027048 A 20080627; US 66653608 A 20080627