

Title (en)
PROCESS FOR MANUFACTURING A FIBROUS MATERIAL PREIMPREGNATED WITH THERMOPLASTIC POLYMER IN DRY POWDER FORM

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES FASRIGEN, MIT THERMOPLASTISCHEM POLYMER IN TROCKENPULVERFORM IMPRÄGNIERTEN MATERIALS

Title (fr)
PROCÉDÉ DE FABRICATION D'UN MATÉRIAU FIBREUX PRÉ-IMPRÉGNÉ DE POLYMÈRE THERMOPLASTIQUE SOUS FORME DE POUDRE SÈCHE

Publication
EP 3558613 A1 20191030 (FR)

Application
EP 17829262 A 20171220

Priority
• FR 1663209 A 20161222
• FR 2017053730 W 20171220

Abstract (en)
[origin: WO2018115738A1] Process for manufacturing a preimpregnated fibrous material having continuous fibers and thermoplastic polymer matrix, said preimpregnated fibrous material being produced as a unidirectional tape or a plurality of parallel unidirectional tapes. The process comprises a step of impregnating said fibrous material that is in the form of a roving or of several parallel rovings with said thermoplastic polymer in powder form. The D90/D10 volume ratio of the thermoplastic polymer particles is from 1.5 to 50 and the ratio of the volume mean diameter (D50) of the thermoplastic polymer particles to the mean diameter of the individual fibers of said fibrous material is from 3 to 40.

IPC 8 full level
B29B 15/12 (2006.01); **B29K 101/12** (2006.01)

CPC (source: EP KR US)
B29B 13/00 (2013.01 - KR); **B29B 15/12** (2013.01 - EP KR); **B29B 15/14** (2013.01 - US); **B29C 43/24** (2013.01 - US); **B29K 2071/00** (2013.01 - US); **B29K 2077/00** (2013.01 - US); **B29K 2101/12** (2013.01 - EP KR US); **B33Y 70/10** (2020.01 - US); **B33Y 80/00** (2014.12 - US); **C08K 3/041** (2017.04 - US); **C08K 3/40** (2013.01 - US); **C08K 7/14** (2013.01 - US)

Citation (search report)
See references of WO 2018115738A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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DOCDB simple family (application)
FR 2017053730 W 20171220; CN 201780078449 A 20171220; EP 17829262 A 20171220; FR 1663209 A 20161222; JP 2019534175 A 20171220; KR 20197016931 A 20171220; US 201716471876 A 20171220