

Title (en)

METHOD FOR PRODUCING FINISHED PARTS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FERTIGTEILEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE PIÈCES FINIES

Publication

EP 3218429 A1 20170920 (DE)

Application

EP 15797883 A 20151104

Priority

- EP 14193212 A 20141114
- EP 2015075707 W 20151104

Abstract (en)

[origin: WO2016075010A1] The invention relates to a method for producing finished parts from at least one multi-layer, fiber-reinforced, flat semi-finished product structure, comprising the following steps: a) heating the at least one multi-layer, fiber-reinforced, flat semi-finished product structure to a first temperature Ta at ambient pressure, wherein the at least one multi-layer, fiber-reinforced, flat semi-finished product structure comprises at least two polymer layers arranged one over the other and the individual polymer layers are each fiber-reinforced and are not integrally bonded to each other or are only partially integrally bonded to each other and, for the case that at least one of the polymer layers contains a semicrystalline polymer, the first temperature Ta is higher than a melting temperature Ts of the crystalline polymer as per DIN EN ISO 11357-3:2013-04, and, for the case that the at least two polymer layers do not contain a semicrystalline polymer, the first temperature Ta is higher than a glass transition temperature Tg as per DIN EN ISO 11357-2:2013-09 of a polymer that is contained in at least one of the at least two polymer layers, b) pressing the heated at least one multi-layer, fiber-reinforced, flat semi-finished product structure into a finished part at a second temperature Tb and a pressure pb of at least 3 bar.

IPC 8 full level

C08J 5/18 (2006.01)

CPC (source: CN EP KR US)

B29C 37/0028 (2013.01 - US); **B29C 45/14** (2013.01 - US); **B29C 70/06** (2013.01 - KR); **B29C 70/34** (2013.01 - KR US); **B32B 27/08** (2013.01 - KR); **B32B 37/06** (2013.01 - CN KR); **B32B 37/10** (2013.01 - CN KR); **B32B 37/12** (2013.01 - CN); **C08J 5/04** (2013.01 - KR); **C08J 5/12** (2013.01 - KR); **C08J 5/18** (2013.01 - EP US); **B29K 2677/00** (2013.01 - US); **B29L 2031/30** (2013.01 - US); **B32B 2309/02** (2013.01 - KR); **B32B 2309/04** (2013.01 - KR); **B32B 2309/12** (2013.01 - KR); **C08J 2377/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2016075010A1

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

DOCDB simple family (publication)

WO 2016075010 A1 20160519; CN 107107599 A 20170829; EP 3218429 A1 20170920; JP 2017537005 A 20171214; KR 20170084276 A 20170719; US 10632692 B2 20200428; US 2018290401 A1 20181011

DOCDB simple family (application)

EP 2015075707 W 20151104; CN 201580061932 A 20151104; EP 15797883 A 20151104; JP 2017526094 A 20151104; KR 20177016380 A 20151104; US 201515526393 A 20151104