

Title (en)

METHOD, SYSTEM AND RESIN SHEET FOR PRODUCING FIBER-REINFORCED MOLDED PARTS IN A MOLDING PRESS

Title (de)

VERFAHREN, ANLAGE UND HARZMATTE ZUR HERSTELLUNG VON FASERVERSTÄRKTEN FORMTEILEN IN EINER FORMPRESSE

Title (fr)

PROCÉDÉ, APPAREIL ET TAPIS EN RÉSINE POUR FABRIQUER DES PIÈCES MOULÉES RENFORCÉES DE FIBRES DANS UNE PRESSE DE MOULAGE

Publication

EP 2547513 A1 20130123 (DE)

Application

EP 11713983 A 20110313

Priority

- DE 102010002844 A 20100313
- EP 2011001234 W 20110313

Abstract (en)

[origin: CA2790263A1] The invention relates to a method, a system and a resin sheet for producing fiber-reinforced molded parts (SMC) by means of extrusion in a molding press (20) from a fiber-reinforced resin sheet (10) which is continuously produced in a flat web installation (16). According to the invention, at least one resin base layer (5, 8) is combined with fibers (6) in a mixing device (1), is subsequently mixed in a fulling and saturating device (14) and is finally matured in a thickening device (25) to form a continuous resin sheet (10), wherein said continuous resin sheet (10) is cut to form cut sheets (18) and is then transferred, either directly or joined in a structure (36) with other cut sheets (18), by means of a transfer device (19) to a tool (35) of a molding press (20) in which it is then pressed to form a fiber-reinforced molded part (21). The invention is in particular characterized in that means for reinforcement are applied on at least one resin base layer (5, 8) for forming a reinforcement zone (39) which is delimited in length and/or width relative to at least one resin base layer (5, 8) before joining the resin base layers (5, 8).

IPC 8 full level

B29C 48/305 (2019.01); **B29C 70/50** (2006.01)

CPC (source: EP KR US)

B29B 7/603 (2013.01 - EP KR); **B29B 15/122** (2013.01 - KR); **B29C 70/18** (2013.01 - EP KR US); **B29C 70/30** (2013.01 - KR); **B29C 70/46** (2013.01 - KR); **B29C 70/50** (2013.01 - EP KR US); **B29B 15/122** (2013.01 - EP US); **B29C 70/46** (2013.01 - EP US); **B29K 2995/0097** (2013.01 - EP KR US); **Y10T 428/24479** (2015.01 - EP US)

Citation (examination)

DE 19624912 A1 19970123 - LIBA MASCHF [DE]

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

DOCDB simple family (publication)

DE 102010002844 A1 20110915; CA 2790263 A1 20110922; CN 102892573 A 20130123; CN 102892573 B 20160120; EP 2547513 A1 20130123; KR 20130050289 A 20130515; US 2013037986 A1 20130214; WO 2011113559 A1 20110922

DOCDB simple family (application)

DE 102010002844 A 20110313; CA 2790263 A 20110313; CN 201180013667 A 20110313; EP 11713983 A 20110313; EP 2011001234 W 20110313; KR 20127026592 A 20110313; US 201113582602 A 20110313