

Title (en)
METHOD FOR PRODUCING A COMPOSITE MOLDED PART, COMPOSITE MOLDED PART, SANDWICH COMPONENT, ROTOR BLADE ELEMENT, AND WIND TURBINE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES VERBUNDFORMTEILS, VERBUNDFORMTEIL, SANDWICHBAUTEIL UND ROTORBLATTELEMENT UND WINDENERGIEANLAGE

Title (fr)
PROCÉDÉ PERMETTANT DE PRODUIRE UNE PIÈCE MOULÉE COMPOSITE, PIÈCE MOULÉE COMPOSITE, ÉLÉMENT DE CONSTRUCTION SANDWICH ET ÉLÉMENT DE PALE DE ROTOR ET ÉOLIENNE

Publication
EP 3030405 A2 20160615 (DE)

Application
EP 14739411 A 20140711

Priority
• DE 102013215384 A 20130805
• EP 2014064955 W 20140711

Abstract (en)
[origin: WO2015018598A2] The invention relates to a composite molded part, in particular produced in accordance with a method according to the invention, in particular for a wind turbine, comprising: a thermoplastic plastic and a fiber composite semi-finished product. Furthermore, according to the invention, the fiber composite semi-finished product comprises a flexible, braided-structure-like fiber system, and the thermoplastic plastic is distributed as a shaping core material in the flexible, braided-structure-like fiber system of the fiber composite semi-finished product and is connected to the braided-structure-like fiber system, wherein the braided-structure-like fiber system, in the composite with the shaping core material, has fibers oriented with respect to each other in such a way that the fibers cross each other, said fibers having a fiber angle at a crossing point which is between 10° and 90°, in particular between 30° and 60°, the fibers preferably being oriented with respect to each other at a fiber angle of about 45° with a variance range of +/-5°, and wherein in the composite the braided-structure-like fiber system forms the outer functional layer of the composite molded part.

IPC 8 full level
B29C 70/46 (2006.01); **B29C 48/05** (2019.01); **B29C 48/152** (2019.01); **B29C 70/08** (2006.01); **B29C 70/22** (2006.01); **F03D 1/06** (2006.01)

CPC (source: EP US)
B29C 48/05 (2019.01 - EP US); **B29C 48/152** (2019.01 - EP US); **B29C 70/086** (2013.01 - EP US); **B29C 70/22** (2013.01 - EP US); **B29C 70/222** (2013.01 - US); **B29C 70/462** (2013.01 - EP US); **F03D 1/0675** (2013.01 - EP US); **B29K 2101/12** (2013.01 - US); **B29K 2105/0827** (2013.01 - US); **B29K 2307/04** (2013.01 - US); **B29K 2309/08** (2013.01 - US); **B29L 2031/085** (2013.01 - US); **Y02E 10/72** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US)

Citation (search report)
See references of WO 2015018598A2

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 2015018598 A2 20150212; WO 2015018598 A3 20150402; AR 097184 A1 20160224; AU 2014304815 A1 20160211; AU 2014304815 B2 20170511; BR 112016002428 A2 20170801; CA 2917579 A1 20150212; CA 2917579 C 20180828; CL 2016000225 A1 20160805; CN 105451973 A 20160330; CN 105451973 B 20180807; DE 102013215384 A1 20150226; EP 3030405 A2 20160615; EP 3150363 A2 20170405; EP 3150363 A3 20170809; EP 3150363 B1 20230906; EP 3150363 C0 20230906; JP 2016527112 A 20160908; JP 6190064 B2 20170830; KR 101861936 B1 20180528; KR 20160034390 A 20160329; MX 2016000896 A 20160505; NZ 716259 A 20170224; RU 2016107713 A 20170908; RU 2640760 C2 20180111; TW 201522021 A 20150616; TW I633996 B 20180901; US 2016195063 A1 20160707; ZA 201600063 B 20170329

DOCDB simple family (application)
EP 2014064955 W 20140711; AR P140102887 A 20140801; AU 2014304815 A 20140711; BR 112016002428 A 20140711; CA 2917579 A 20140711; CL 2016000225 A 20160128; CN 201480044075 A 20140711; DE 102013215384 A 20130805; EP 14739411 A 20140711; EP 16190320 A 20140711; JP 2016532284 A 20140711; KR 20167004647 A 20140711; MX 2016000896 A 20140711; NZ 71625914 A 20140711; RU 2016107713 A 20140711; TW 103125888 A 20140729; US 201414909880 A 20140711; ZA 201600063 A 20160105