

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

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Application
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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.

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