

Title (en)

METHOD FOR PRODUCING MOLDED PARTS FROM FIBER MATERIAL, WHICH FIBER MATERIAL IS DEGRADABLE IN AN ENVIRONMENTALLY FRIENDLY WAY

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FORMTEILEN AUS UMWELTVERTRÄGLICH ABBAUBAREM FASERMATERIAL

Title (fr)

PROCÉDÉ DE PRODUCTION DE PIÈCES MOULÉES EN MATÉRIAU FIBREUX, LEDIT MATÉRIAU FIBREUX ÉTANT DÉGRADABLE D'UNE MANIÈRE RESPECTUEUSE DE L'ENVIRONNEMENT

Publication

**EP 4045712 A1 20220824 (DE)**

Application

**EP 20803081 A 20201001**

Priority

- DE 102019127557 A 20191014
- DE 2020000227 W 20201001

Abstract (en)

[origin: WO2021073671A1] The invention relates to a method (100) for producing molded parts (10) from fiber material (11) by means of a fiber molding process in a fiber molding system (20), which fiber material is degradable in an environmentally friendly way, the method comprising the following steps: providing (110) a pulp (1) as a liquid solution having fiber material that is degradable in an environmentally friendly way; bringing (120) a suction tool (2) into contact with the pulp by placing the suction tool onto the pulp or at least partially dipping the suction tool into the pulp, the suction tool comprising a suction head (21) having a three-dimensionally shaped suction head suction side (21i), the shape of which is adapted to the contour of the later molded part; molding (130) the molded part onto the suction head suction side (21i) by suctioning the fiber material by means of negative pressure in the suction tool; pre-pressing (140) the molded-on molded part in a pre-pressing station (3) with a pre-pressing pressure (VD) in order to reduce the proportion of the liquid solution in the molded part; hot pressing (150) the pre-pressed molded part with a hot-pressing pressure (HD) in a hot-pressing station (4) in order to finally mold the molded part and to further reduce the proportion of the liquid solution in the molded part; and outputting (160) the molded part (10) that has been finally molded. The invention further relates to such a fiber molding system for carrying out the method above and to a molded part produced by means of such a fiber molding system or by means of such a method.

IPC 8 full level

**D21J 3/00** (2006.01)

CPC (source: CN EP)

**D21J 3/00** (2013.01 - CN EP)

Citation (search report)

See references of WO 2021073671A1

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)

**DE 102019127557 A1 20210415**; CN 114585780 A 20220603; EP 4045712 A1 20220824; WO 2021073671 A1 20210422

DOCDB simple family (application)

**DE 102019127557 A 20191014**; CN 202080071765 A 20201001; DE 2020000227 W 20201001; EP 20803081 A 20201001