

Title (en)

METHOD AND DEVICE FOR PRODUCING MOLDED PARTS FROM A CONTINUOUS FIBER-MATERIAL SHEET

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON FORMTEILEN AUS EINER FASERWERKSTOFFBAHN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION DE PIÈCES MOULÉES À PARTIR D'UNE BANDE DE MATIÈRE FIBREUSE

Publication

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Application

EP 15726515 A 20150430

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Abstract (en)

[origin: WO2015169280A1] The invention relates to a method and to a device for producing three-dimensional molded parts from a continuous sheet (1) of a planar, plastically deformable fiber material by deep drawing by means of a punch (8) and an associated die (7), wherein the fiber material can be deformed between the punch and the die by means of a relative motion. The problem addressed by the invention is providing a method and a device for producing three-dimensional molded parts, wherein the deformation occurs by deep drawing from a blank located in the continuous sheet and leads to a high deformation ratio. This problem is solved in that the round, rectangular, oval, or irregular blank for the molded part is connected to the continuous sheet of fiber material by at least one web during the deep drawing and, in addition, is detached from the continuous sheet by at least one relief step (4), wherein a deformation ratio, as a ratio of diameter and depth, greater than 0.2 can be realized.

IPC 8 full level

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