

Title (en)

METHOD, DEVICE AND PREFORM FOR THE MULTI-STAGE PRODUCTION OF A THREE-DIMENSIONAL PREFORM DURING THE PRODUCTION OF FIBRE-REINFORCED SHAPED PARTS

Title (de)

VERFAHREN, VORRICHTUNG UND VORFORMLING ZUR MEHRSTUFIGEN HERSTELLUNG EINES DREIDIMENSIONALEN VORFORMLINGS IM ZUGE DER HERSTELLUNG VON FASERVERSTÄRKTEN FORMTEILEN

Title (fr)

PROCÉDÉ, DISPOSITIF ET PRÉFORME POUR LA FABRICATION MULTIÉTAGÉE D'UNE PRÉFORME TRIDIMENSIONNELLE AU COURS DE LA FABRICATION DE PIÈCES MOULÉES RENFORCÉES PAR DES FIBRES

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Application

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Abstract (en)

[origin: WO2014154720A1] The invention relates to a device and a method for the multi-stage production of a three-dimensional preform (17) made of at least two layer structures (A, B, ...) and/or partial preforms (9) during the production of fibre-reinforced shaped parts (19), comprising at least one draping device (3) and a transport device (21) for the layered structures (A, B, ...) and/or partial preforms (9), wherein the draping device (3) comprises at least one draping mould (18) for the fibre structures (3) and draping stamps (5), which can be moved towards the draping mould (18) in order to reshape and/or secure the layered structures (A, B, ...) and/or the partial preforms (9) according to the contour of the draping mould (18). The problem to be solved is that of achieving an improvement in the transitions between the layered structures of the partial preforms inside the preform during the multi-stage production of a preform. The inventive step in the method resides in that at least one layered structure (A, B, ...) and/or a partial preform (9) are inserted into a draping mould (18) by means of the transport device (21), in that the layered structure(s) (A, B, ...) are reshaped along the contour of the draping mould (18) by means of draping stamps (5), and in that the preceding method steps are repeated until a preform (17) is assembled from the unshaped layered structures (A, B, ...) and/or from the partial preforms (9).

IPC 8 full level

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Citation (search report)

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