

Title (en)

MANUFACTURING METHOD FOR A PREFORM FOR A TURBOMACHINE COMPONENT MADE FROM COMPOSITE MATERIAL AND CORRESPONDING COMPONENT

Title (de)

HERSTELLUNGSVERFAHREN FÜR EINE VORFORM FÜR EIN TURBOMASCHINENBAUTEIL AUS VERBUNDMATERIAL UND ZUGEHÖRIGES BAUTEIL

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PRÉFORME POUR UNE PIÈCE EN MATÉRIAU COMPOSITE DE TURBOMACHINE ET PIÈCE CORRESPONDANTE

Publication

EP 4132775 A1 20230215 (FR)

Application

EP 21726149 A 20210409

Priority

- FR 2003630 A 20200410
- FR 2021050635 W 20210409

Abstract (en)

[origin: WO2021205132A1] The invention relates to a manufacturing method for a component (12) made from composite material, in particular of a turbomachine (1), the method comprising the following steps: producing a preform (20) with a fibrous reinforcement comprising a first fibrous portion (21) and a second fibrous portion (22), injecting a pressurised matrix into an injection chamber (41) of an injection mould (40), in which the preform (20) is arranged, and polymerising the preform (20). According to the invention, the method comprises a step of positioning a flexible pocket (30) that encloses a fluid and that is arranged between the first fibrous portion (21) and the second fibrous portion (22) before the injection step, the fluid being intended to apply an additional pressure to the preform (20) of the fluid during the polymerisation step.

IPC 8 full level

B29C 70/44 (2006.01); **B29C 43/12** (2006.01); **B29D 99/00** (2010.01); **B29K 105/06** (2006.01); **B29L 31/08** (2006.01)

CPC (source: EP US)

B29B 11/00 (2013.01 - US); **B29B 11/16** (2013.01 - EP US); **B29C 43/12** (2013.01 - EP); **B29C 70/443** (2013.01 - EP US); **B29C 70/446** (2013.01 - EP US); **B29D 99/0028** (2013.01 - EP); **B29K 2105/06** (2013.01 - EP); **B29L 2031/08** (2013.01 - EP US); **Y02T 50/60** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021205132 A1 20211014; CN 115379946 A 20221122; EP 4132775 A1 20230215; FR 3109115 A1 20211015; FR 3109115 B1 20240405; US 2023166460 A1 20230601

DOCDB simple family (application)

FR 2021050635 W 20210409; CN 202180026616 A 20210409; EP 21726149 A 20210409; FR 2003630 A 20200410; US 202117995426 A 20210409