

Title (en)

REPAIRING OR RESUMING PRODUCTION OF A COMPONENT MADE OF COMPOSITE MATERIAL

Title (de)

REPARATUR ODER WIEDERAUFNAHME DER HERSTELLUNG EINER AUS VERBUNDWERKSTOFF GEFERTIGTEN KOMPONENTE

Title (fr)

REPARATION OU REPRISE DE FABRICATION D'UNE PIECE EN MATERIAU COMPOSITE

Publication

EP 3930991 A1 20220105 (FR)

Application

EP 20713712 A 20200224

Priority

- FR 1902143 A 20190301
- FR 2020050341 W 20200224

Abstract (en)

[origin: WO2020178500A1] A gas turbine component (10) made of composite material comprises a fibrous reinforcement exhibiting a three-dimensional weave between a plurality of warp threads and a plurality of weft threads, the fibrous reinforcement being densified by a matrix. The densified fibrous reinforcement extends in width between a downstream end and an upstream end in an axial direction and in thickness between an inner surface (11) and an outer surface (12) in a radial direction. The fibrous reinforcement densified by the matrix comprises a recessed portion extending over the entire thickness of the fibrous reinforcement. A filling part made of composite material (50) is present in the free volume of the component defined by the recessed portion, the filling part (50) comprising a fibrous preform exhibiting a three-dimensional weave, the fibrous preform being densified by a matrix.

IPC 8 full level

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CPC (source: EP US)

B29C 70/24 (2013.01 - EP); **B29C 70/86** (2013.01 - EP); **B29C 73/10** (2013.01 - EP); **B29C 73/14** (2013.01 - EP); **C04B 35/80** (2013.01 - EP); **C04B 37/008** (2013.01 - EP); **F01D 5/005** (2013.01 - EP); **F01D 21/045** (2013.01 - EP); **F01D 25/005** (2013.01 - US); **B29B 11/16** (2013.01 - EP); **B29L 2031/7504** (2013.01 - EP); **C04B 2235/48** (2013.01 - EP); **C04B 2235/483** (2013.01 - EP); **C04B 2235/5252** (2013.01 - EP); **C04B 2235/616** (2013.01 - EP); **C04B 2235/94** (2013.01 - EP); **C04B 2237/38** (2013.01 - EP); **F05D 2220/323** (2013.01 - US); **F05D 2220/36** (2013.01 - EP); **F05D 2230/80** (2013.01 - US); **F05D 2300/00** (2013.01 - US); **Y02T 50/60** (2013.01 - EP)

Designated contracting state (EPC)

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FR 3093298 A1 20200904; **FR 3093298 B1 20210312**; CN 113631359 A 20211109; CN 113631359 B 20230929; CN 117183413 A 20231208; EP 3930991 A1 20220105; US 2022145775 A1 20220512; WO 2020178500 A1 20200910

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FR 1902143 A 20190301; CN 202080024415 A 20200224; CN 202311164404 A 20200224; EP 20713712 A 20200224; FR 2020050341 W 20200224; US 202017435234 A 20200224