

Title (en)
METHOD FOR PRODUCING A TURBOMACHINE IMPELLER

Title (de)
VERFAHREN ZUM HERSTELLEN EINES STRÖMUNGSMASCHINENLAUFRADS

Title (fr)
PROCÉDÉ DE FABRICATION D'UN ROTOR DE TURBOMACHINE

Publication
EP 3532239 A1 20190904 (DE)

Application
EP 17790784 A 20171026

Priority
• DE 102016120480 A 20161027
• EP 2017077510 W 20171026

Abstract (en)
[origin: WO2018078048A1] Method for producing a turbomachine impeller (14), which has a radially inner hub body (14a), a radially outer shroud body (14b) and blades (14c) extending between the hub body (14a) and the shroud body (14b), wherein the blades (14c), the hub body (14a) and the shroud body (14b) are designed as an integral, monolithic assembly, comprising at least the following steps: providing a blank (10); milling the blank (10) to form a basic contour (11a, 11b, 11c) of the hub body, the shroud body and the blades; performing build-up welding or additive manufacturing at least once on the main contour that is formed and subsequently performing milling at least once on portions (15n) that are formed by the build-up welding.

IPC 8 full level
B23P 15/00 (2006.01); **B22F 3/105** (2006.01); **B22F 5/00** (2006.01); **B23K 26/00** (2014.01); **B23K 26/342** (2014.01); **F04D 29/02** (2006.01); **F04D 29/22** (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP KR US)
B22F 5/009 (2013.01 - EP KR); **B22F 7/08** (2013.01 - EP KR); **B22F 10/00** (2021.01 - US); **B23K 26/34** (2013.01 - EP KR); **B23K 26/60** (2015.10 - EP KR); **B23P 15/006** (2013.01 - EP KR US); **F04D 29/023** (2013.01 - EP KR); **F04D 29/2222** (2013.01 - EP KR); **F04D 29/284** (2013.01 - EP KR); **B22F 5/009** (2013.01 - US); **B22F 7/08** (2013.01 - US); **B22F 10/28** (2021.01 - EP KR US); **B22F 2998/10** (2013.01 - EP KR US); **B23K 26/34** (2013.01 - US); **B23K 26/60** (2015.10 - US); **B23K 2101/001** (2018.07 - EP KR US); **F04D 29/023** (2013.01 - US); **F04D 29/2222** (2013.01 - US); **F04D 29/284** (2013.01 - US); **F05D 2230/10** (2013.01 - EP KR); **F05D 2230/22** (2013.01 - EP KR US); **F05D 2230/31** (2013.01 - EP KR US); **Y02P 10/25** (2015.11 - EP KR)

Citation (search report)
See references of WO 2018078048A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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