

Title (en)

METHOD FOR MANUFACTURING A COMPRESSOR IMPELLER FOR A TURBOMACHINE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES VERDICHTERRADES FÜR EINE TURBOMASCHINE

Title (fr)

PROCEDE DE FABRICATION D'UN ROUET DE COMPRESSEUR DE TURBOMACHINE

Publication

EP 3911839 A1 20211124 (FR)

Application

EP 20710240 A 20200218

Priority

- FR 1901794 A 20190222
- FR 2020050295 W 20200218

Abstract (en)

[origin: WO2020169918A1] The invention relates to a method for manufacturing a compressor impeller or rotor comprising a hub (21) that carries blades (26), involving a step of manufacturing a hub (21) which comprises all or some of the blades (22), and a step of additive manufacture by adding localised material using a method such as the LMD process to form or finish each blade (26).

IPC 8 full level

F01D 5/04 (2006.01); **B22F 3/105** (2006.01); **B22F 5/00** (2006.01); **B22F 5/04** (2006.01); **B22F 7/06** (2006.01); **B22F 7/08** (2006.01); **B23K 11/00** (2006.01); **B33Y 10/00** (2015.01); **B33Y 80/00** (2015.01); **F01D 5/28** (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP US)

B22F 5/009 (2013.01 - EP); **B22F 5/04** (2013.01 - US); **B22F 7/08** (2013.01 - EP US); **B22F 10/25** (2021.01 - EP US); **B22F 10/50** (2021.01 - EP US); **B22F 12/53** (2021.01 - EP US); **B23K 26/342** (2015.10 - EP US); **B33Y 10/00** (2014.12 - EP); **B33Y 80/00** (2014.12 - EP); **F01D 5/28** (2013.01 - EP); **F04D 29/284** (2013.01 - EP US); **B22F 5/04** (2013.01 - EP); **B22F 2007/068** (2013.01 - EP); **B23K 2101/001** (2018.07 - EP US); **B33Y 10/00** (2014.12 - US); **B33Y 80/00** (2014.12 - US); **F01D 5/048** (2013.01 - EP); **F05D 2230/14** (2013.01 - EP); **F05D 2230/22** (2013.01 - EP US); **F05D 2230/31** (2013.01 - EP US); **Y02P 10/25** (2015.11 - EP)

Citation (search report)

See references of WO 2020169918A1

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

DOCDB simple family (publication)

WO 2020169918 A1 20200827; CN 113454312 A 20210928; EP 3911839 A1 20211124; FR 3093015 A1 20200828; FR 3093015 B1 20211112; US 2022134426 A1 20220505

DOCDB simple family (application)

FR 2020050295 W 20200218; CN 202080015336 A 20200218; EP 20710240 A 20200218; FR 1901794 A 20190222; US 202017432382 A 20200218