

Title (en)
METHOD FOR MANUFACTURING AN ALUMINIUM ALLOY PART BY ADDITIVE MANUFACTURING AND ALUMINIUM ALLOY PART OBTAINED ACCORDING TO THE METHOD

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES ALUMINIUMLEGIERUNGSTEILS DURCH GENERATIVE FERTIGUNG UND GEMÄSS DEM VERFAHREN HERGESTELLTES ALUMINIUMLEGIERUNGSTEIL

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE PIÈCE EN ALLIAGE D'ALUMINIUM PAR FABRICATION ADDITIVE ET PIÈCE EN ALLIAGE D'ALUMINIUM OBTENUE SELON LEDIT PROCÉDÉ

Publication
EP 3941715 A1 20220126 (FR)

Application
EP 20721629 A 20200430

Priority
• FR 1904930 A 20190513
• EP 2020062126 W 20200430

Abstract (en)
[origin: WO2020229197A1] Disclosed is a method for manufacturing an aluminium alloy part by additive manufacturing comprising a step during which a layer of a mixture of powders is melted locally and then solidified, characterised in that the mixture of powders comprises: - first particles (10) comprising at least 80 wt% of aluminium and up to 20 wt% of one or more additional elements, and - second particles (20) of yttria, the volume percentage of second particles (20) in the mixture of powders preferably ranging from 0.5% to 5%.

IPC 8 full level
B29C 64/141 (2017.01); **B22F 3/105** (2006.01); **B29C 64/153** (2017.01); **B33Y 70/00** (2020.01)

CPC (source: EP US)
B22F 10/28 (2021.01 - EP US); **B22F 10/34** (2021.01 - EP US); **B33Y 10/00** (2014.12 - US); **B33Y 70/00** (2014.12 - EP US); **C22C 32/0036** (2013.01 - EP); **B22F 10/36** (2021.01 - EP US); **B22F 10/64** (2021.01 - EP US); **B22F 2301/052** (2013.01 - US); **B22F 2302/25** (2013.01 - US); **B22F 2304/10** (2013.01 - US); **B23K 15/0086** (2013.01 - US); **B23K 26/342** (2015.10 - US); **B23K 2103/10** (2018.07 - US); **B33Y 80/00** (2014.12 - US); **C22C 1/0416** (2013.01 - EP); **Y02P 10/25** (2015.11 - EP)

Citation (search report)
See references of WO 2020229197A1

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 2020229197 A1 20201119; EP 3941715 A1 20220126; FR 3096057 A1 20201120; FR 3096057 B1 20210611; JP 2022532349 A 20220714; US 2022212258 A1 20220707

DOCDB simple family (application)
EP 2020062126 W 20200430; EP 20721629 A 20200430; FR 1904930 A 20190513; JP 2021567866 A 20200430; US 202017595164 A 20200430