

Title (en)

METHOD FOR PRODUCING A WORK PIECE THROUGH GENERATIVE MANUFACTURING, AND CORRESPONDING WORK PIECE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WERKSTÜCKS DURCH GENERATIVES HERSTELLEN; ENTSPRECHENDES WERKSTÜCK

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE PAR FABRICATION ADDITIVE ; PIÈCE CORRESPONDANTE

Publication

EP 3349937 A1 20180725 (DE)

Application

EP 16775624 A 20160927

Priority

- EP 15189765 A 20151014
- EP 2016072894 W 20160927

Abstract (en)

[origin: CA3001754A1] The invention relates to a method for producing a work piece (100). The method comprises the providing of a substrate (1) having a predetermined surface structure (2) and the generative manufacturing of a material (5) for the work piece (100) on the surface structure (2), such that the surface structure (2) defines a base surface (3) of the work piece (100) to be manufactured, wherein the generative manufacturing is carried out by means of deposition welding and wherein the base surface (3) is an at least partially interior surface of the work piece (100) in respect of a contour (4) of the work piece (100) that is to be manufactured. The method furthermore comprises the detaching of the substrate (1).

IPC 8 full level

B23K 15/08 (2006.01); **B22F 3/105** (2006.01); **B23K 15/00** (2006.01); **B23K 26/34** (2014.01); **B23K 26/362** (2014.01); **B23K 26/60** (2014.01); **B29C 67/00** (2017.01); **B23K 101/00** (2006.01); **B23K 103/10** (2006.01); **B23K 103/12** (2006.01); **B23K 103/18** (2006.01)

CPC (source: EP US)

B22F 3/24 (2013.01 - EP US); **B22F 7/08** (2013.01 - EP US); **B22F 10/28** (2021.01 - EP US); **B23K 15/0033** (2013.01 - EP US); **B23K 15/0086** (2013.01 - EP US); **B23K 15/08** (2013.01 - EP US); **B23K 26/34** (2013.01 - EP US); **B23K 26/342** (2015.10 - US); **B23K 26/361** (2015.10 - EP US); **B23K 26/60** (2015.10 - EP US); **B33Y 10/00** (2014.12 - EP US); **B33Y 70/00** (2014.12 - EP US); **B33Y 80/00** (2014.12 - EP US); **B22F 10/25** (2021.01 - EP US); **B22F 10/38** (2021.01 - EP US); **B22F 10/64** (2021.01 - EP US); **B23K 2101/001** (2018.07 - EP US); **B23K 2101/18** (2018.07 - EP US); **B23K 2101/34** (2018.07 - EP US); **B23K 2103/08** (2018.07 - EP US); **B23K 2103/10** (2018.07 - EP US); **B23K 2103/12** (2018.07 - EP US); **B23K 2103/26** (2018.07 - EP US); **Y02P 10/25** (2015.11 - EP US)

Citation (search report)

See references of WO 2017063861A1

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)

EP 3156164 A1 20170419; CA 3001754 A1 20170420; CA 3001754 C 20201201; CN 108260348 A 20180706; EP 3349937 A1 20180725; JP 2018532051 A 20181101; US 2019061057 A1 20190228; WO 2017063861 A1 20170420

DOCDB simple family (application)

EP 15189765 A 20151014; CA 3001754 A 20160927; CN 201680059802 A 20160927; EP 16775624 A 20160927; EP 2016072894 W 20160927; JP 2018519288 A 20160927; US 201615766913 A 20160927