

Title (en)
SYSTEMS AND METHODS FOR ADDITIVE MANUFACTURING OF THREE DIMENSIONAL STRUCTURES

Title (de)
SYSTEME UND VERFAHREN ZUR ZUSATZSTOFFHERSTELLUNG DREIDIMENSIONALER STRUKTUREN

Title (fr)
SYSTÈMES ET PROCÉDÉS DE FABRICATION ADDITIVE DE STRUCTURES TRIDIMENSIONNELLES

Publication
EP 3038774 A4 20170510 (EN)

Application
EP 14840525 A 20140827

Priority
• US 201314012889 A 20130828
• US 2014052871 W 20140827

Abstract (en)
[origin: US2015064047A1] A method of fabricating a three dimensional structure includes delivering a metal material to a printing site; and defining a microstructure of the metal material at the printing site by controlling the delivery of heating energy to the printing site and controlling the delivery of ultrasonic vibrations to the printing site.

IPC 8 full level
B22F 3/10 (2006.01); **B22F 3/105** (2006.01); **B22F 7/02** (2006.01); **B23K 26/144** (2014.01); **B23K 26/342** (2014.01); **B29C 67/00** (2017.01)

CPC (source: EP US)
B22F 3/1028 (2013.01 - EP US); **B22F 10/25** (2021.01 - EP US); **B22F 10/28** (2021.01 - EP US); **B22F 10/38** (2021.01 - EP US); **B22F 10/50** (2021.01 - EP US); **B23K 26/144** (2015.10 - EP US); **B22F 10/22** (2021.01 - EP US); **B22F 10/36** (2021.01 - EP US); **B22F 12/20** (2021.01 - EP US); **B22F 12/90** (2021.01 - EP US); **B22F 2999/00** (2013.01 - EP US); **Y02P 10/25** (2015.11 - EP US)

Citation (search report)
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• [XI] DE 102011086889 A1 20130523 - MTU AERO ENGINES GMBH [DE]
• [XI] US 2009047439 A1 20090219 - WITHERS JAMES C [US], et al
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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

DOCDB simple family (publication)
US 2015064047 A1 20150305; EP 3038774 A1 20160706; EP 3038774 A4 20170510; JP 2016535170 A 20161110;
WO 2015031453 A1 20150305

DOCDB simple family (application)
US 201314012889 A 20130828; EP 14840525 A 20140827; JP 2016537805 A 20140827; US 2014052871 W 20140827