

Title (en)

METHOD AND ARRANGEMENT FOR BUILDING METALLIC OBJECTS BY SOLID FREEFORM FABRICATION WITH TWO WELDING GUNS

Title (de)

VERFAHREN UND ANORDNUNG ZUR HERSTELLUNG VON METALLISCHEN GEGENSTÄNDEN DURCH  
FESTKÖRPERFREIFORMHERSTELLUNG MIT ZWEI WIDERSTANDSSCHWEISSPISTOLEN

Title (fr)

PROCÉDÉ ET AGENCEMENT POUR LA CONSTRUCTION D'OBJETS MÉTALLIQUES PAR FABRICATION DE FORMES LIBRES SOLIDES À  
L'AIDE DE DEUX CANONS DE SOUDAGE

Publication

**EP 3481579 A1 20190515 (EN)**

Application

**EP 17721163 A 20170504**

Priority

- US 201615206154 A 20160708
- EP 2017060668 W 20170504

Abstract (en)

[origin: WO2018007042A1] Provided are a systems and methods for manufacturing objects by solid freeform fabrication, especially titanium and titanium alloy objects, wherein the deposition rate is increased by using two separate heat sources, one heat source for heating the deposition area on the base material and one heat source for heating and melting a metallic material, such as a metal wire or a powdered metallic material.

IPC 8 full level

**B23K 9/04** (2006.01); **B23K 10/02** (2006.01); **B23K 15/00** (2006.01); **B23K 26/08** (2014.01); **B23K 26/342** (2014.01); **B33Y 10/00** (2015.01); **B33Y 30/00** (2015.01)

CPC (source: EP US)

**B22F 10/22** (2021.01 - EP US); **B22F 12/13** (2021.01 - EP US); **B23K 9/04** (2013.01 - EP); **B23K 10/027** (2013.01 - EP); **B23K 15/0086** (2013.01 - EP); **B23K 26/08** (2013.01 - EP); **B23K 26/342** (2015.10 - EP US); **B33Y 10/00** (2014.12 - EP); **B33Y 30/00** (2014.12 - EP); **B22F 12/33** (2021.01 - EP US); **B22F 12/46** (2021.01 - EP US); **Y02P 10/25** (2015.11 - EP)

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 2018007042 A1 20180111**; CN 109689267 A 20190426; CN 109689267 B 20220225; EP 3481579 A1 20190515

DOCDB simple family (application)

**EP 2017060668 W 20170504**; CN 201780042296 A 20170504; EP 17721163 A 20170504