

Title (en)

METHOD AND DEVICE FOR PRODUCING A THREE-DIMENSIONAL OBJECT

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN EINES DREIDIMENSIONALEN OBJEKTS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION D'UN OBJET TRIDIMENSIONNEL

Publication

EP 3331687 A1 20180613 (DE)

Application

EP 16763444 A 20160902

Priority

- DE 102015217469 A 20150911
- EP 2016001493 W 20160902

Abstract (en)

[origin: WO2017041882A1] A method for producing a three-dimensional object (2) by applying layers of a construction material (13) and selectively solidifying same contains the following steps: (a) applying a layer of the construction material (13) onto a construction field by means of a coating device (14); (b) selectively solidifying the applied layer on the cross-section of the object (2) at points corresponding to the respective layer and at points corresponding to the cross-section of a casing region (30); and (c) repeating the steps of applying and selectively solidifying until the object (2) and the casing region (30) are completed. The construction material (13) is solidified in such a way that the casing region (30) surrounds the object (2) at least in sections, wherein the points corresponding to the casing region (30) are less strongly solidified than the points corresponding to the three-dimensional object (2).

IPC 8 full level

B29C 67/00 (2017.01); **B22F 3/105** (2006.01); **B33Y 10/00** (2015.01)

CPC (source: EP US)

B22F 10/28 (2021.01 - EP US); **B22F 10/47** (2021.01 - EP US); **B22F 10/66** (2021.01 - EP US); **B29C 64/153** (2017.07 - EP US); **B29C 64/40** (2017.07 - EP US); **B33Y 10/00** (2014.12 - EP US); **B22F 10/36** (2021.01 - EP US); **B22F 10/366** (2021.01 - EP US); **Y02P 10/25** (2015.11 - EP US)

Citation (search report)

See references of WO 2017041882A1

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 2017041882 A1 20170316; CN 107949470 A 20180420; DE 102015217469 A1 20170316; EP 3331687 A1 20180613; US 2018243828 A1 20180830

DOCDB simple family (application)

EP 2016001493 W 20160902; CN 201680052261 A 20160902; DE 102015217469 A 20150911; EP 16763444 A 20160902; US 201615758561 A 20160902