Title (en)

DEVICE AND METHOD FOR THE PRODUCTION OF THREE-DIMENSIONAL OBJECTS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM HERSTELLEN VON DREIDIMENSIONALEN OBJEKTEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR PRODUIRE DES OBJETS TRIDIMENSIONNELS

Publication

EP 3183109 A1 20170628 (DE)

Application

EP 15753673 A 20150818

Priority

- DE 102014012286 A 20140822
- EP 2015068939 W 20150818

Abstract (en)

[origin: WO2016026853A1] The invention relates to a device (1) for the production of three-dimensional objects (9) by successive solidification of layers of a construction material (7) which can be solidified by means of radiation at the points corresponding to the respective cross section of the object (9), comprising a construction chamber (4) in which a support device (8) is arranged for supporting the object (9), the support device comprising a height adjustable carrier (22), a radiation device (13) for irradiating layers of the construction material (7) at the points corresponding to the respective cross section of the object (9), and an image acquisition device (17) for acquiring at least one image data set imaging the construction chamber (4), wherein at least one position mark (20, 24) is present in the construction chamber (4) for calibrating the image acquisition device (17). The invention further relates to a method for executing a calibration.

IPC 8 full level

B29C 67/00 (2017.01)

CPC (source: CN EP US)

B29C 64/153 (2017.07 - EP US); **B29C 64/245** (2017.07 - EP US); **B29C 64/255** (2017.07 - EP US); **B29C 64/393** (2017.07 - EP); **B33Y 10/00** (2014.12 - CN EP US); **B33Y 30/00** (2014.12 - CN EP US); **B33Y 50/02** (2014.12 - CN EP US)

Citation (search report)

See references of WO 2016026853A1

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)

DE 102014012286 A1 20160225; **DE 102014012286 B4 20160721**; CN 107073838 A 20170818; CN 107073838 B 20190614; CN 110239091 A 20190917; EP 3183109 A1 20170628; US 2017274592 A1 20170928; WO 2016026853 A1 20160225

DOCDB simple family (application)

DE 102014012286 A 20140822; CN 201580057352 A 20150818; CN 201910396915 A 20150818; EP 15753673 A 20150818; EP 2015068939 W 20150818; US 201515505823 A 20150818