

Title (en)  
METHOD FOR PRODUCING A WORKPIECE BY MEANS OF AN ADDITIVE PRODUCTION METHOD, AND DEVICE WHICH IS SUITABLE FOR CARRYING OUT THE METHOD

Title (de)  
VERFAHREN ZUM ERZEUGEN EINES WERKSTÜCKS DURCH EIN ADDITIVES HERSTELLUNGSVERFAHREN UND VORRICHTUNG, DIE ZUR DURCHFÜHRUNG DES VERFAHRENS GEEIGNET IST

Title (fr)  
PROCÉDÉ DE FABRICATION D'UNE PIÈCE AU MOYEN D'UN PROCÉDÉ DE FABRICATION ADDITIVE ET DISPOSITIF ADAPTÉ À LA MISE EN UVRE DU PROCÉDÉ

Publication  
**EP 3490744 A1 20190605 (DE)**

Application  
**EP 17772006 A 20170913**

Priority  
• DE 102016218249 A 20160922  
• EP 2017072955 W 20170913

Abstract (en)  
[origin: WO2018054727A1] The invention relates to a method for producing a workpiece by means of a powder bed-based additive production method. The workpiece (11) is produced in the powder bed (12) in that the powder bed is smoothed out to a target level (14) by means of a slide (13). If obstacles (17) (such as spatter for example) prevent the smoothing of the powder bed by means of the slide, the slide is deflected into a deflection position. According to the invention, the remaining powder (30) is removed by a tracked brush (23). The bristles are advantageously adapted precisely to the contour of the obstacle (17), whereby the removal of the remaining powder is achieved. The invention also relates to a system for the additive production of workpieces, wherein a slide and a brush are used simultaneously to smooth out the powder bed.

IPC 8 full level  
**B22F 3/105** (2006.01); **B29C 41/12** (2006.01); **B33Y 10/00** (2015.01); **B33Y 30/00** (2015.01)

CPC (source: EP US)  
**B22F 10/28** (2021.01 - EP US); **B22F 12/90** (2021.01 - EP US); **B29C 64/153** (2017.07 - EP US); **B29C 64/214** (2017.07 - EP US); **B33Y 10/00** (2014.12 - EP US); **B33Y 30/00** (2014.12 - EP); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US); **B33Y 30/00** (2014.12 - US); **Y02P 10/25** (2015.11 - EP)

C-Set (source: EP US)  
1. **B22F 2998/10 + B22F 3/004 + B22F 10/28 + B22F 12/90**  
2. **B22F 2999/00 + B22F 3/004 + B22F 12/90**

Citation (search report)  
See references of WO 2018054727A1

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 102016218249 A1 20180322**; CN 109789485 A 20190521; EP 3490744 A1 20190605; US 2019366433 A1 20191205; WO 2018054727 A1 20180329

DOCDB simple family (application)  
**DE 102016218249 A 20160922**; CN 201780058273 A 20170913; EP 17772006 A 20170913; EP 2017072955 W 20170913; US 201716334096 A 20170913