

Title (en)

METHOD FOR PRODUCING A TREATED, 3D PRINTED OBJECT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES BEHANDELTEN, 3D-GEDRUCKTEN GEGENSTANDS

Title (fr)

PROCÉDÉ POUR FABRIQUER UN OBJET IMPRIMÉ EN 3D TRAITÉ

Publication

**EP 3727801 A1 20201028 (DE)**

Application

**EP 18816133 A 20181218**

Priority

- EP 17208280 A 20171219
- EP 2018085547 W 20181218

Abstract (en)

[origin: WO2019121718A1] The present invention relates to a method for producing a treated object, comprising the steps of: applying a layer of particles to a target area; applying a liquid binder to a selected portion of the layer in accordance with a cross-section of the object, so that the particles in the selected portion are bonded; repeating the steps of applying a layer of particles and applying a binder for a plurality of layers so that the bonded portions of the adjacent layers are bonded to form an object, wherein at least a part of the particles comprises a meltable polymer. A binder which cures by cross-linking is preferably selected as the binder. The obtained object is at least partially contacted with a liquid heated to  $\geq T$  or with a powder bed heated to  $\geq T$  in order to obtain the treated object.  $T$  represents a temperature of  $\geq 25^\circ\text{C}$ , the liquid does not represent a solvent or a reaction partner for the binder present in the object and the meltable polymer, and the powder bed is different from the particles of the meltable polymer. The invention also relates to a treated object that can be obtained by the method according to the invention.

IPC 8 full level

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Citation (search report)

See references of WO 2019121718A1

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