

Title (en)  
METHOD FOR PROVIDING A PRINTABLE MELT IN ORDER TO OPERATE A PRINthead FOR A 3D PRINTER, AND PRINthead FOR A 3D PRINTER FOR CARRYING OUT THE METHOD

Title (de)  
VERFAHREN ZUM BEREITSTELLEN DRUCKFÄHIGER SCHMELZE ZUM BETREIBEN EINES DRUCKKOPFES FÜR EINEN 3D-DRUCKER UND DRUCKKOPF FÜR EINEN 3D-DRUCKER ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)  
PROCÉDÉ DE FOURNITURE DE MATIÈRE FONDUE IMPRIMABLE POUR FAIRE FONCTIONNER UNE TÊTE D'IMPRESSION POUR IMPRIMANTE 3D ET TÊTE D'IMPRESSION POUR IMPRIMANTE 3D POUR LA MISE EN OEUVRE DU PROCÉDÉ

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Abstract (en)  
[origin: WO2022195027A1] The invention relates to a method (200) for providing a printable melt (12) for operating a printhead (100) for a 3D printer. According to the invention, the method (200) has the following steps: - filling (210) a cavity (40) with printable material (10) using a supply device (2), - closing (220) an opening cross-section (21) of a piston bushing (4) by advancing a piston (3) from a starting position (3a) in the direction of a nozzle (8) of the printhead (100), - converting (230) the material from a solid phase (10) to a liquid phase (12) via a plastic phase (11), - solidifying (240) the material (10, 11, 12), - ascertaining (250) a spring constant of the liquid phase (12), and - preparing (260) the liquid phase (12) for a printing process. The invention also relates to a printhead (100) for a 3D printer for carrying out the method (200) according to the invention.

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