

Title (en)

METHOD FOR PRODUCING 3D PRINTING MATERIAL AND COMPONENTS MADE THEREFROM, AND 3D PRINTING MATERIAL AND COMPONENT PRODUCED BY THE METHOD

Title (de)

VERFAHREN ZUR HERSTELLUNG VON 3D-DRUCK-MATERIAL UND VON BAUTEILEN DARAUS SOWIE 3D-DRUCK-MATERIAL UND MIT DEM VERFAHREN HERGESTELLTES BAUTEIL

Title (fr)

PROCÉDÉ DE FABRICATION DE MATÉRIAU D'IMPRESSION 3D ET DE PIÈCES À PARTIR DUDIT MATÉRIAU, MATÉRIAU D'IMPRESSION 3D ET PIÈCE FABRIQUÉE SELON LEDIT PROCÉDÉ

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Application

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Abstract (en)

[origin: WO2022233798A1] The present invention relates to a method for producing 3D printing material. In the method, a photocatalyst-sheet silicate composite is first produced from at least one photocatalyst and at least one sheet silicate. A photocatalyst-sheet silicate-polymer composite is then produced from the photocatalyst-sheet silicate composite and at least one thermoplastic polymer. The photocatalyst-sheet silicate-polymer composite is lastly subjected to a shaping process to obtain a 3D printing material. The present invention additionally relates to a 3D printing material comprising a thermoplastic matrix and a composite material which is embedded in the matrix and contains at least one photocatalyst and at least one sheet silicate. The present invention further relates to a method for producing components from the 3D printing material and to a component produced thereby.

IPC 8 full level

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