

Title (en)

METHOD FOR PRODUCING A THREE-DIMENSIONAL OBJECT BY A MULTIPHOTON PHOTOPOLYMERISATION PROCESS, AND ASSOCIATED DEVICE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES DREIDIMENSIONALEN OBJEKTS DURCH MULTIFOTONEN-FOTOPOLYMERISATION UND ZUGEHÖRIGE VORRICHTUNG

Title (fr)

PROCÉDÉ POUR LA RÉALISATION D'UN OBJET TRIDIMENSIONNEL PAR UN PROCESSUS DE PHOTOPOLYMÉRISATION MULTI-PHOTONIQUE ET DISPOSITIF ASSOCIÉ

Publication

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Application

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Abstract (en)

[origin: WO2019186070A1] The invention relates to a method for producing a three-dimensional object (3), comprising the following operations: introducing a composition (11) into a polymerisation vessel (9); and polymerising the composition (11) by multiphoton polymerisation, by means of a light source (5), in predetermined spots, in order to produce the three-dimensional object (3), the composition (11) comprising at least one monomer (12), at least one filler and at least one photoinitiator, said composition (11) having a transmittance per unit of length to the emission wavelengths of the light source (5), which is preferably higher than 75%, and the at least one filler comprises nanoparticles.

IPC 8 full level

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CPC (source: EP US)

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