Title (en)

DEVICE FOR PRODUCING THREE-DIMENSIONAL OBJECTS AND A CORRESPONDING METHOD

Title (de)

VORRICHTUNG ZUM HERSTELLEN VON DREIDIMENSIONALEN OBJEKTEN SOWIE EIN ZUGEHÖRIGES VERFAHREN

Title (fr)

DISPOSITIF DE PRODUCTION D'OBJETS TRIDIMENSIONNELS ET PROCÉDÉ ASSOCIÉ

Publication

EP 3307523 A1 20180418 (DE)

Application

EP 16730270 A 20160530

Priority

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- EP 2016062182 W 20160530

Abstract (en)

[origin: WO2016202566A1] A device (1) for producing three-dimensional objects (2) by successive solidifying of layers of a structural material (3) that can be solidified by means of radiation at the locations corresponding to the respective cross-section of the object (2), comprising a housing (4) surrounding a process chamber (5), a structure holder (6) arranged therein, an applicator device (7) for applying layers of the structural material (3) onto a supporting device (8) in the structure holder (6) or a previously formed layer, comprising a coating element (9) guided in a coating application direction over a structure surface of the structure holder (6), a metering unit for feeding the structure material (3) to the application device (7), an irradiation device (12) for irradiating layers of structural material (3) at the locations corresponding to the respective cross-section of the object (2) with a focused energy beam, in particular a laser beam, wherein the structure holder (6) can be removed from the device (1) either as a separate removable holder or as a component of an exchange module, wherein structure holders (6) adapted to the object shape and of different sizes and/or cross-sectional shapes can be introduced into the device, wherein in the assembled end position, the structural dimension thereof is shorter in the coating application direction "S" than in a direction "L" at a right angle thereto.

IPC 8 full level

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Citation (search report)

See references of WO 2016202566A1

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