

Title (en)

DEVICE AND METHOD FOR CALIBRATING AN IRRADIATION SYSTEM USED TO PRODUCE A THREE-DIMENSIONAL WORKPIECE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM KALIBRIEREN EINES BESTRAHLUNGSSYSTEMS, DAS ZUM HERSTELLEN EINES DREIDIMENSIONALEN WERKSTÜCKS VERWENDET WIRD

Title (fr)

DISPOSITIF ET PROCÉDÉ D'ÉTALONNAGE D'UN SYSTÈME D'IRRADIATION DESTINÉ À FABRIQUER UNE PIÈCE TRIDIMENSIONNELLE

Publication

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Application

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Abstract (en)

[origin: WO2018153687A1] The invention relates to a device (10) for the layered production of a three-dimensional workpiece, comprising: a construction space (30) in which the workpiece can be produced by selectively hardening raw material powder layers; an irradiating system (20) designed to selectively harden the raw material powder layers in the construction space (30) by emitting a machining beam; at least one calibrating structure (36); a sensor arrangement (25) designed to detect an irradiation of the calibrating structure (36) by the irradiating system (20); and a control unit (26) designed to calibrate the irradiating system (20) on the basis of detection information of the sensor arrangement, the calibrating structure (36) being arranged outside the construction space (30). The invention also relates to a method for calibrating an irradiating system of a device for the layered production of a three-dimensional workpiece.

IPC 8 full level

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CPC (source: EP US)

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