

Title (en)
IMPROVED CALIBRATION METHOD FOR A SYSTEM FOR POWDER BED-BASED GENERATING OF THREE-DIMENSIONAL COMPONENTS BY MEANS OF ELECTROMAGNETIC RADIATION

Title (de)
VERBESSERTES KALIBRIERVERFAHREN FÜR EINE ANLAGE ZUM PULVERBETTBASIERTEN GENERIEREN VON DREIDIMENSIONALEN BAUTEILEN MITTELS ELEKTROMAGNETISCHER STRAHLUNG

Title (fr)
PROCÉDÉ D'ÉTALONNAGE AMÉLIORÉ POUR UNE INSTALLATION DESTINÉE À GÉNÉRER DES PIÈCES TRIDIMENSIONNELLES SUR LA BASE D'UN LIT DE POUDRE AU MOYEN D'UN RAYONNEMENT ÉLECTROMAGNÉTIQUE

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Application
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Abstract (en)
[origin: WO2020099402A1] The invention relates to a calibration method for a system for powder bed-based generating of three-dimensional components by means of electromagnetic radiation, in particular a PBL system (1, 11), having a radiation source deflection unit and a raisable and lowerable carrier plate (16), above which a component is built, wherein, in order to calibrate the radiation source deflection unit, at least one virtual reference mark is used and, by means of a detector, a target-actual deviation (33) between the virtual reference mark and a beam of the radiation source deflection unit is determined. The aim of the invention is to create an improved calibration method. This aim is achieved, according to the invention, in that the at least one virtual reference mark is projected on a reference surface (30), which can travel vertically by means of the raisable and lowerable carrier plate (16), and independently of the vertical position thereof.

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