

Title (en)

MANUFACTURING DEVICE FOR ADDITIVE MANUFACTURING OF COMPONENTS FROM A POWDER MATERIAL, METHOD FOR CHANGING A BEAM PROFILE OF AN ENERGY BEAM, AND USE OF AT LEAST ONE ACOUSTO-OPTICAL DEFLECTOR

Title (de)

FERTIGUNGSEINRICHTUNG ZUM ADDITIVEN FERTIGEN VON BAUTEILEN AUS EINEM PULVERMATERIAL, VERFAHREN ZUM VERÄNDERN EINES STRAHLPROFILS EINES ENERGIESTRAHLS, UND VERWENDUNG VON WENIGSTENS EINEM AKUSTOOPTISCHEN DEFLEKTOR

Title (fr)

DISPOSITIF DE FABRICATION POUR LA FABRICATION ADDITIVE DE COMPOSANTS À PARTIR D'UN MATÉRIAU PULVÉRULENT, PROCÉDÉ POUR CHANGER UN PROFIL DE FAISCEAU D'UN FAISCEAU D'ÉNERGIE, ET UTILISATION D'AU MOINS UN DÉFLECTEUR ACOUSTO-OPTIQUE

Publication

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Application

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Abstract (en)

[origin: WO2022018149A1] The invention relates to a manufacturing device (1) for additive manufacturing of components from a powder material, comprising a beam generation device (3) designed to generate an energy beam (5), a scanner unit (7) designed to move the energy beam (5) within a working area (9) to a plurality of irradiation positions (11) to produce, by means of the energy beam (5), a component from the powder material in the working area, a deflection unit (13) designed to move the energy beam (5) in an irradiation position (11) of the plurality of irradiation positions (11) within a beam region (15) to a plurality of beam positions (17), and a control unit (19), which is operatively connected to the deflection unit (13) and is designed to control the deflection unit (13) and to change a beam profile of the beam region during manufacture of a component by changing the control of the deflection unit (13).

IPC 8 full level

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See references of WO 2022018149A1

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