

Title (en)

LOCAL SELECTIVE IRRADIATION OF A WORKING AREA WITH A NON-CIRCULAR BEAM SHAPE

Title (de)

LOKAL SELEKTIVE BESTRAHLUNG EINES ARBEITSBEREICHS MIT EINER VON EINER KREISFORM ABWEICHENDE STRAHLFORM

Title (fr)

EXPOSITION LOCALEMENT SÉLECTIVE D'UNE ZONE DE TRAVAIL PAR UNE FORME DE FAISCEAU S'ÉCARTANT DE LA FORME CIRCULAIRE

Publication

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Application

EP 21782989 A 20210927

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- EP 2021076485 W 20210927

Abstract (en)

[origin: WO2022073785A1] The invention relates to a planning device (15) for planning a locally selective irradiation of a working area (11) with an energy beam (7) in order to produce a component (3) from a powder material arranged in the working area (11) by means of the energy beam (7), the planning device (15) being designed to obtain a plurality of irradiation vectors (21) for irradiating a powder material layer arranged in the working area with the energy beam (7), the planning device (15) being designed to determine a vector orientation in a coordinate system in the working area (11) for at least one irradiation vector (21) of the plurality of irradiation vectors (21), and the planning device (15) being designed to specify, for the at least one irradiation vector (21), a beam orientation for a non-circular beam shape (18) of the energy beam (7) in the working area (11) relative to the vector orientation of the at least one irradiation vector (21).

IPC 8 full level

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CPC (source: EP US)

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