

Title (en)

METHOD FOR PRODUCING A CONTINUOUS SURFACE REGION, IRRADIATION DEVICE, AND PROCESSING MACHINE

Title (de)

VERFAHREN ZUM ERZEUGEN EINES ZUSAMMENHÄNGENDEN FLÄCHENBEREICHS, BESTRAHLUNGSEINRICHTUNG UND BEARBEITUNGSMASCHINE

Title (fr)

PROCÉDÉ POUR LA GÉNÉRATION D'UNE RÉGION DE SURFACE COHÉRENTE, DISPOSITIF D'IRRADIATION ET MACHINE D'USINAGE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2019016061A1] The invention relates to a method for producing a continuous surface region (2) of a three-dimensional component by irradiating a powder layer (3), comprising: dividing a primary processing beam (4) into at least two processing beams (4a, b); guiding the at least two processing beams (4a, b) to a common scanner device (5) for directing the at least two processing beams (4a, b) at different positions (P1, P2) in a processing plane (E) of the scanner device (5) having the continuous surface region (2) by means of the same one or more scanner mirrors (6a, 6b), wherein the production of the continuous surface region (2) comprises: simultaneously changing the positions (P1, P2) of the at least two processing beams (4a, b) in a partial region or in at least two partial regions (T3, T4) of the continuous surface region (2) until the powder layer (3) is completely melted in the partial region or in the at least two partial regions (T3, T4), and simultaneously changing the positions (P1, P2) of the at least two processing beams (4a, b) or of at least two further processing beams in a further partial region or in at least two different further partial regions (T5, T6) of the continuous surface region (2) until the powder layer (3) is completely melted in the further partial region or in the at least two further partial regions (T5, T6).

IPC 8 full level

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Citation (search report)

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