

Title (en)

METHOD AND DEVICE FOR PRODUCING A COMPONENT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINES BAUTEILS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION D'UN ÉLÉMENT

Publication

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Application

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Abstract (en)

[origin: WO2011050791A2] The invention relates to a method for producing a component (12), especially a hollow structural part for a turbomachine. The method is characterized by the following steps: a) layer-by-layer deposition of at least one powder component material (20a) onto a component platform in the region of a buildup and joining zone (I), b) deposition of at least one liquid component material (20b) onto the powder component material (20a), the liquid component material (20b) comprising at least one metal-containing compound, c) local layer-by-layer fusion or sintering of the component materials (20a, 20b) by means of thermal and/or electromagnetic energy supplied in the region of the buildup and joining zone (I), d) lowering of the component platform by a predefined layer thickness; and e) repetition of steps a) to d) until the component (12) is finished. The invention further relates to a device (10) for producing a component (12) of a turbomachine, especially a hollow structural part for a turbomachine.

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