

Title (en)
ADDITIVELY-MANUFACTURED REFRACTORY METAL COMPONENT, ADDITIVE MANUFACTURING PROCESS, AND POWDER

Title (de)
ADDITIV GEFERTIGTES REFRAKTÄRMETALLBAUTEIL, ADDITIVES FERTIGUNGSVERFAHREN UND PULVER

Title (fr)
COMPOSANT MÉTALLIQUE RÉFRACTAIRE PRODUIT PAR FABRICATION ADDITIVE, PROCÉDÉ DE FABRICATION ADDITIVE ET POUDRE

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Application
EP 19787132 A 20191003

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Abstract (en)
[origin: WO2020102832A1] The invention relates to a component (8) having a solid structure, manufactured by a laser- or electron beam in an additive manufacturing process, from at least one material selected from a group comprising molybdenum, a molybdenum-based alloy, tungsten, or a tungsten-based alloy, and relates to a component (8) having a solid structure, manufactured by a laser- or electron beam in an additive manufacturing process, from at least one material selected from a group comprising molybdenum, a molybdenum-based alloy, tungsten, a tungsten-based alloy and a molybdenum-tungsten based alloy, said component (8) having one or more alloying element(s) which has or have - in the case of molybdenum and the molybdenum-based alloy a reductive action on MoO₂ and/or MoO₃ -<sb />, in the case of tungsten and the tungsten-based alloy a reductive action on WO₂ and/or WO₃ , and - in the case of the molybdenum-tungsten based alloy a reductive action on at least one oxide of the group containing MoO₂ and/or MoO₃ , WO₂ and WO₃ , at least in the temperature range ≥ 1500 °C, the alloying element or at least one of the alloying elements being present both in at least partially non-oxidised form and oxidised form.

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