

Title (en)

ISOTROPIC, CRACK-FREE STEEL DESIGN USING AN ADDITIVE MANUFACTURING METHOD

Title (de)

ISOTROPES, RISSFREIES STAHLDESIGN MITTELS ADDITIVER FERTIGUNGSVERFAHREN

Title (fr)

CONCEPTION D'ACIER ISOTROPE SANS FISSURE À L'AIDE D'UN PROCÉDÉ DE FABRICATION ADDITIVE

Publication

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Application

**EP 21712073 A 20210310**

Priority

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Abstract (en)

[origin: WO2021180777A1] The invention relates to a metal powder for use in an additive manufacturing method, wherein the powder contains steel particles, wherein the steel particles comprise up to a weight percentage of greater than or equal to 0.01 wt.% and less than or equal to 5 wt.% of carbon nitride (C,N) and/or carbide (C) and/or nitride (N) selected from the group consisting of titanium, zirconium or mixtures thereof. The invention also relates to a method for producing a steel powder suitable for use in an additive manufacturing method, and to the use of the steel powder according to the invention in an additive manufacturing method.

IPC 8 full level

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