

Title (en)  
ADDITIVE MANUFACTURING POWDERS FOR USE IN ADDITIVE MANUFACTURING PROCESSES RESULTING IN IMPROVED STABILITY OF STEEL MELT-TRACK

Title (de)  
PULVER ZUR GENERATIVEN FERTIGUNG ZUR VERWENDUNG IN VERFAHREN ZUR GENERATIVEN FERTIGUNG ZUR VERBESSERUNG DER STABILITÄT VON STAHLSCHELMELZRAUPEN

Title (fr)  
POUDRES DE FABRICATION ADDITIVE DESTINÉES À ÊTRE UTILISÉES DANS DES PROCESSUS DE FABRICATION ADDITIVE RÉSULTANT EN UNE STABILITÉ AMÉLIORÉE DE CANAL DE COULÉE D'ACIER

Publication  
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Application  
**EP 21719646 A 20210421**

Priority  
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• EP 2021060322 W 20210421

Abstract (en)  
[origin: EP3900856A1] The present invention relates to an additive manufacturing powder for use in additive manufacturing of three dimensional objects by means of a heat source, wherein the additive manufacturing powder comprises or consists of: a steel powder comprising steel powder particles, wherein the steel powder is selected from the group consisting of AISI 316 stainless steel powders, AISI 316L stainless steel powders, and combinations thereof; and a secondary powder comprising secondary powder particles, wherein the secondary powder is selected from the group consisting of elemental silicon powder, elemental molybdenum powder, elemental manganese powder, elemental chromium powder, elemental nickel powder and combinations thereof; wherein the secondary powder particles are bound to the surface of the steel powder particles. The present inventions also relates to the use of these powders as well as to methods for producing and using the same.

IPC 8 full level  
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