

Title (en)

METHOD FOR MANUFACTURING A METAL PART MADE FROM TITANIUM, BY RAPID SINTERING, AND SINTERED METAL PART MADE FROM TITANIUM

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES METALLTEILS AUS TITAN DURCH SCHNELLES SINTERN UND SINTERMETALLTEIL AUS TITAN

Title (fr)

PROCEDE DE FABRICATION D'UNE PIECE METALLIQUE A BASE DE TITANE, PAR FRITTAGE RAPIDE ET PIECE METALLIQUE FRITTEE A BASE DE TITANE

Publication

**EP 3983569 A1 20220420 (FR)**

Application

**EP 20731157 A 20200613**

Priority

- FR 1906425 A 20190614
- FR 1910862 A 20191001
- EP 2020066415 W 20200613

Abstract (en)

[origin: WO2020249808A1] Disclosed is a method for manufacturing a metal part made from titanium, by sintering a powder, the method comprising a step of mixing a spherical titanium powder and a dendritic titanium powder in order to form a mixture, a step of agglomerating the mixture of titanium powders by compaction with a ram moving at a speed of more than 2 m·s<sup>-1</sup>, the mixture of titanium powders being free of binders, in particular organic binders, forming a green body or agglomerate suitable for sintering having a density above 78%, and preferably 80%, of the density of the solid metal, and a step of sintering.

IPC 8 full level

**C22C 1/04** (2006.01); **B22F 1/052** (2022.01); **B22F 3/02** (2006.01); **B22F 3/087** (2006.01)

CPC (source: EP US)

**B22F 1/052** (2022.01 - EP US); **B22F 3/087** (2013.01 - EP US); **B22F 3/1007** (2013.01 - EP US); **C22C 1/0458** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP); **B22F 2999/00** (2013.01 - EP)

Citation (search report)

See references of WO 2020249808A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2020249808 A1 20201217**; EP 3983569 A1 20220420; US 2022258234 A1 20220818

DOCDB simple family (application)

**EP 2020066415 W 20200613**; EP 20731157 A 20200613; US 202017618769 A 20200613