

Title (en)
SINTERED MOLYBDENUM PART

Title (de)
MOLYBDÄN-SINTERTEIL

Title (fr)
PIÈCE FRITTÉE EN MOLYBDÈNE

Publication
EP 3688200 A1 20200805 (DE)

Application
EP 18789316 A 20180907

Priority
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Abstract (en)
[origin: WO2019060932A1] The invention relates to a powder-metallurgical sintered molybdenum part, in the form of a solid body, which has the following composition: a molybdenum portion of $\geq 99.93\%$ by weight, a boron portion "B" of ≥ 3 ppmw and a carbon portion "C" of 3 ppmw, wherein the total portion "B+C" of carbon and boron is in the range of $15 \text{ ppmw} \leq \text{"B+C"} \leq 50 \text{ ppmw}$, an oxygen portion "O" in the range from $3 \text{ ppmw} \leq \text{"O"} \leq 20 \text{ ppmw}$, a maximum tungsten portion of $\leq 330 \text{ ppmw}$ and a maximum portion of other contaminants of $\leq 300 \text{ ppmw}$. The invention further relates to a powder-metallurgical method method for producing such a sintered moybdenum part.

IPC 8 full level
C22C 1/04 (2006.01); **C22C 27/04** (2006.01)

CPC (source: AT EP US)
B22F 3/10 (2013.01 - US); **B22F 3/12** (2013.01 - AT); **B22F 5/00** (2013.01 - EP); **C22C 1/045** (2013.01 - EP); **C22C 27/04** (2013.01 - AT EP US); **C22F 1/16** (2013.01 - EP); **B22F 3/02** (2013.01 - EP); **B22F 3/04** (2013.01 - EP); **B22F 3/10** (2013.01 - EP); **B22F 3/12** (2013.01 - EP US); **B22F 2201/013** (2013.01 - EP); **B22F 2207/01** (2013.01 - EP US); **B22F 2302/45** (2013.01 - US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP)

C-Set (source: EP)
1. **B22F 2999/00 + B22F 5/00 + C22C 1/045 + B22F 2207/01**
2. **B22F 2999/00 + B22F 3/10 + B22F 2201/013**
3. **B22F 2998/10 + C22C 1/045 + B22F 3/04 + B22F 3/10**
4. **B22F 2999/00 + C22C 1/045 + B22F 3/02 + B22F 3/10**

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)
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