

Title (en)  
MOLYBDENUM SINTERED PART AND METHOD OF MANUFACTURING

Title (de)  
MOLYBDÄN-SINTERTEIL UND HERSTELLUNGSVERFAHREN

Title (fr)  
PIÈCE FRITTÉE EN MOLYBDÈNE ET PROCÉDÉ DE FABRICATION

Publication  
**EP 3688200 B1 20220622 (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  $\geq 3$  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 ppmw  $\leq$  "B+C"  $\leq$  50 ppmw, an oxygen portion "O" in the range from 3 ppmw  $\leq$  "O"  $\leq$  20 ppmw, a maximum tungsten portion of  $\leq 330$  ppmw and a maximum portion of other contaminants of  $\leq 300$  ppmw. The invention further relates to a powder-metallurgical method method for producing such a sintered moybdenum part.

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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**

Citation (examination)  
TAKIDA TOMOHIRO ET AL: "Mechanical Properties of Fine-Grained, Sintered Molybdenum Alloys with Dispersed Particles Developed by Mechanical Alloying", MATERIALS TRANSACTIONS, vol. 45, no. 1, 1 January 2004 (2004-01-01), JP, pages 143 - 148, XP055854647, ISSN: 1345-9678, DOI: 10.2320/matertrans.45.143

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DOCDB simple family (publication)  
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