

Title (en)
MIXED POWDER FOR IRON-BASED POWDER METALLURGY, METHOD FOR PRODUCING SAME, AND SINTERED BODY PRODUCED USING SAME

Title (de)
PULVERGEMISCH FÜR EISENBASIERTE PULVERMETALLURGIE, VERFAHREN ZUR HERSTELLUNG DAVON UND UNTER VERWENDUNG DAVON HERGESTELLTER SINTERKÖRPER

Title (fr)
MÉLANGE DE POUDRES POUR MÉTALLURGIE DES POUDRES À BASE DE FER, PROCÉDÉ DE FABRICATION DE CE MÉLANGE DE POUDRES, ET CORPS FRITTÉ FABRIQUÉ À L'AIDE DE MÉLANGE DE POUDRES

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Application
EP 16799745 A 20160427

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Abstract (en)
[origin: EP3305439A1] The mixed powder for iron-based powder metallurgy of the present invention comprises a powder containing calcium sulfate anhydrite II such that the CaS weight ratio after sintering is 0.01 wt% or more to 0.1 wt% or less. The powder containing calcium sulfate anhydrite II preferably has a volume-average particle size of 0.1 µm or more to 60 µm or less and preferably additionally contains one or more ternary oxides selected from the group consisting of Ca-Al-Si oxides and Ca-Mg-Si oxides. The weight ratio of the ternary oxides and CaS after the sintering is preferably 3 : 7 to 9 : 1.

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Citation (search report)
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• [XI] JP 2014080683 A 20140508 - JFE STEEL CORP
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• [XAI] CHRISTOPHER ADAM ET AL: "Effects of metal sulfate on dimensional change", ADVANCES IN POWDER METALLURGY & PARTICULATE MATERIALS., vol. 2, no. 14, 1 January 1997 (1997-01-01), US, pages 107 - 113, XP055467140, ISSN: 1065-5824
• [A] ANONYMOUS: "Calciumsulfat - Wikipedia", 31 March 2015 (2015-03-31), XP055467450, Retrieved from the Internet <URL:https://de.wikipedia.org/w/index.php?title=Calciumsulfat&oldid=140431408> [retrieved on 20180416]
• See references of WO 2016190037A1

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