

Title (en)

METAL POWDER FOR POWDER METALLURGY, COMPOUND, GRANULATED POWDER, AND SINTERED BODY

Title (de)

METALLPULVER FÜR PULVERMETALLURGIE, VERBINDUNG, GRANULIERTES PULVER UND GESINTERTER KÖRPER

Title (fr)

POUDRE DE MÉTAL POUR MÉTALLURGIE DES POUDRES, COMPOSÉ, POUDRE GRANULÉE ET CORPS FRITTÉ

Publication

**EP 3042975 A2 20160713 (EN)**

Application

**EP 16150409 A 20160107**

Priority

JP 2015002935 A 20150109

Abstract (en)

A metal powder for powder metallurgy according to the invention contains Fe as a principal component, Cr in a proportion of 10 to 30 mass%, C in a proportion of 0.15 to 1.5 mass%, Si in a proportion of 0.3 to 1 mass%, and Mn and Ni in a total proportion of 0.05 to 1.6 mass%, wherein when one element selected from the group consisting of Ti, V, Y, Zr, Nb, Hf, and Ta is defined as a first element, and one element selected from the group and having a larger group number in the periodic table than that of the first element or having the same group number in the periodic table as that of the first element and a larger period number than that of the first element is defined as a second element, the first element is contained in a proportion of 0.01 to 0.5 mass%, and the second element is contained in a proportion of 0.01 to 0.5 mass%.

IPC 8 full level

**B22F 1/00** (2022.01); **C22C 33/02** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/46** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **B22F 3/15** (2006.01)

CPC (source: CN EP US)

**B22F 1/00** (2013.01 - CN EP US); **B22F 3/10** (2013.01 - CN); **B22F 5/00** (2013.01 - US); **B22F 9/04** (2013.01 - US); **B22F 9/082** (2013.01 - CN); **C22C 33/0285** (2013.01 - EP US); **C22C 38/002** (2013.01 - CN EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - CN EP US); **C22C 38/04** (2013.01 - CN EP US); **C22C 38/24** (2013.01 - CN); **C22C 38/26** (2013.01 - CN); **C22C 38/28** (2013.01 - CN); **C22C 38/38** (2013.01 - CN); **C22C 38/42** (2013.01 - US); **C22C 38/46** (2013.01 - CN EP US); **C22C 38/48** (2013.01 - CN EP US); **C22C 38/50** (2013.01 - CN EP US); **C22C 38/58** (2013.01 - CN); **B22F 2301/35** (2013.01 - US); **B22F 2998/10** (2013.01 - EP US)

Citation (applicant)

- JP 2012087416 A 20120510 - SEIKO EPSON CORP
- JP H06279913 A 19941004 - SUMITOMO METAL MINING CO
- JP 2007177675 A 20070712 - NIPPON PISTON RING CO LTD
- IRON AND STEEL - METHODS FOR DETERMINATION OF CARBON CONTENT, 2011
- IRON AND STEEL - METHODS FOR DETERMINATION OF SILICON CONTENT, 1997
- IRON AND STEEL - METHODS FOR DETERMINATION OF MANGANESE CONTENT, 2001
- IRON AND STEEL - METHODS FOR DETERMINATION OF PHOSPHORUS CONTENT, 1998
- IRON AND STEEL - METHODS FOR DETERMINATION OF SULFUR CONTENT, 2010
- IRON AND STEEL - METHODS FOR DETERMINATION OF NICKEL CONTENT, 1997
- IRON AND STEEL - METHODS FOR DETERMINATION OF CHROMIUM CONTENT, 2005
- IRON AND STEEL - METHODS FOR DETERMINATION OF MOLYBDENUM CONTENT, 1999
- IRON AND STEEL- METHODS FOR DETERMINATION OF COPPER CONTENT, 1997
- IRON AND STEEL - METHODS FOR DETERMINATION OF TUNGSTEN CONTENT, 1994
- IRON AND STEEL - METHODS FOR DETERMINATION OF VANADIUM CONTENT, 1998
- IRON AND STEEL - METHODS FOR DETERMINATION OF COBALT CONTENT, 1999
- IRON AND STEEL - METHODS FOR DETERMINATION, 1997
- IRON AND STEEL - METHODS FOR DETERMINATION OF ALUMINUM CONTENT, 2001
- IRON AND STEEL - METHODS FOR DETERMINATION OF ARSENIC CONTENT, 2006
- IRON AND STEEL - METHODS FOR DETERMINATION OF TIN CONTENT, 1994
- IRON AND STEEL - METHODS FOR DETERMINATION OF BORON CONTENT, 1999
- IRON AND STEEL - METHODS FOR DETERMINATION OF NITROGEN CONTENT, 2006
- STEEL - METHODS FOR DETERMINATION OF LEAD CONTENT, 1994
- METHODS FOR DETERMINATION OF ZIRCONIUM IN STEEL, 1980
- STEEL - METHOD FOR DETERMINATION OF SELENIUM CONTENT, 1994
- METHODS FOR DETERMINATION OF TELLURIUM IN STEEL, 1981
- METHODS FOR DETERMINATION OF ANTIMONY IN IRON AND STEEL, 1981
- METHOD FOR DETERMINATION OF TANTALUM IN STEEL, 1992
- IRON AND STEEL- METHODS FOR DETERMINATION OF NIOBIUM CONTENT, 1997

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)

**EP 3042975 A2 20160713**; **EP 3042975 A3 20160803**; **EP 3042975 B1 20191218**; CN 105772700 A 20160720; CN 105772700 B 20191126; JP 2016128592 A 20160714; JP 6314846 B2 20180425; US 2016199912 A1 20160714

DOCDB simple family (application)

**EP 16150409 A 20160107**; CN 201510947043 A 20151216; JP 2015002935 A 20150109; US 201614990932 A 20160108