

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 3042974 B1 20220706 (EN)**

Application

**EP 16150037 A 20160104**

Priority

JP 2015000678 A 20150106

Abstract (en)

[origin: EP3042974A2] A metal powder for powder metallurgy according to the invention contains Fe as a principal component, Cr in a proportion of 15 mass% or more and 26 mass% or less, Ni in a proportion of 7 mass% or more and 22 mass% or less, Si in a proportion of 0.3 mass% or more and 1.2 mass% or less, and C in a proportion of 0.005 mass% or more and 0.3 mass% or less, wherein when two elements selected from the group consisting of Ti, V, Y, Zr, Nb, Hf, and Ta are defined as a first element and a second element, the first element is contained in a proportion of 0.01 mass% or more and 0.5 mass% or less and the second element is contained in a proportion of 0.01 mass% or more and 0.5 mass% or less. Further, the metal powder for powder metallurgy preferably has an austenite crystal structure.

IPC 8 full level

**C22C 33/02** (2006.01); **B22F 1/00** (2022.01); **B22F 1/10** (2022.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/12** (2006.01); **C22C 38/44** (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 1/10** (2022.01 - CN EP US); **B22F 3/10** (2013.01 - CN); **B22F 5/00** (2013.01 - US); **B22F 9/04** (2013.01 - US); **C22C 30/00** (2013.01 - CN); **C22C 33/0285** (2013.01 - EP US); **C22C 38/002** (2013.01 - CN EP US); **C22C 38/005** (2013.01 - CN EP US); **C22C 38/02** (2013.01 - CN EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/12** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP 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 38/56** (2013.01 - CN); **B22F 3/15** (2013.01 - EP US); **B22F 2301/35** (2013.01 - US); **B22F 2998/10** (2013.01 - EP US)

C-Set (source: CN EP US)

**B22F 2998/10** + **B22F 1/10** + **B22F 3/02** + **B22F 3/1021** + **B22F 3/10** + **B22F 3/15**

Citation (examination)

EP 0747497 A1 19961211 - HITACHI LTD [JP]

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

DOCDB simple family (publication)

**EP 3042974 A2 20160713**; **EP 3042974 A3 20160803**; **EP 3042974 B1 20220706**; CN 105750536 A 20160713; CN 105750536 B 20200428; JP 2016125103 A 20160711; JP 6314842 B2 20180425; US 2016194740 A1 20160707

DOCDB simple family (application)

**EP 16150037 A 20160104**; CN 201511021460 A 20151230; JP 2015000678 A 20150106; US 201614988018 A 20160105