

Title (en)
IRON-BASED POWDER COMBINATION

Title (de)
PULVERKOMBINATION AUF EISENBASIS

Title (fr)
COMBINAISON DE POUDRE A BASE DE FER

Publication
EP 1844172 A4 20100721 (EN)

Application
EP 06701553 A 20060120

Priority
• SE 2006000080 W 20060120
• SE 0500261 A 20050204

Abstract (en)
[origin: WO2006083206A1] The invention relates to a powder metallurgical combination comprising an iron-based powder A essentially consisting of core particles of iron pre-alloyed with molybdenum and having 6-15%, preferably 8-12% by weight of copper diffusion alloyed to the core particles, an iron-based powder B essentially consisting of particles of iron pre-alloyed with molybdenum and having 4.5-8%, preferably 5-7% by weight of nickel diffusion alloyed to the core particles, and an iron-based powder C essentially consisting of particles of iron pre-alloyed with molybdenum. The invention also relates to the powders A and B per se. Further the invention relates to a method for preparing an iron-based sintered component comprising 0.3-2% by weight of molybdenum, 0.2-2%, preferably 0.4-0.8% by weight of copper and 0.1-4% by weight of nickel and to a method to obtain a sintered component having a predetermined strength and a predetermined dimensional change during sintering.

IPC 8 full level
C22C 33/02 (2006.01); **B22F 1/00** (2022.01); **C22C 38/08** (2006.01); **C22C 38/16** (2006.01)

CPC (source: EP KR US)
B22F 1/00 (2013.01 - KR); **C22C 33/02** (2013.01 - KR); **C22C 33/0207** (2013.01 - EP US); **C22C 38/08** (2013.01 - EP KR US); **C22C 38/12** (2013.01 - EP US); **C22C 38/16** (2013.01 - EP KR US)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
WO 2006083206 A1 20060810; BR PI0607356 A2 20090901; CA 2595905 A1 20060810; CN 100532606 C 20090826; CN 101111617 A 20080123; EP 1844172 A1 20071017; EP 1844172 A4 20100721; EP 1844172 B1 20190703; JP 2008528811 A 20080731; JP 5108531 B2 20121226; KR 100970796 B1 20100716; KR 20070099690 A 20071009; MX 2007009531 A 20080212; RU 2007133101 A 20090310; RU 2366537 C2 20090910; TW 200632111 A 20060916; TW I325896 B 20100611; US 2008089801 A1 20080417; ZA 200705662 B 20090128

DOCDB simple family (application)
SE 2006000080 W 20060120; BR PI0607356 A 20060120; CA 2595905 A 20060120; CN 200680003307 A 20060120; EP 06701553 A 20060120; JP 2007554043 A 20060120; KR 20077020100 A 20060120; MX 2007009531 A 20060120; RU 2007133101 A 20060120; TW 95100709 A 20060109; US 79450006 A 20060120; ZA 200705662 A 20060120