

Title (en)

IRON BASED METAL POWDER MIXTURE AND COMPONENT MADE THEREFROM

Title (de)

METALLPULVERMISCHUNG AUF EISENBASIS UND DAMIT HERGESTELLTES BAUTEIL

Title (fr)

MELANGE METALLIQUE PULVERULENT A BASE DE FER ET ELEMENT REALISE AVEC CE MELANGE

Publication

**EP 0946775 A1 19991006 (EN)**

Application

**EP 97939050 A 19970908**

Priority

- GB 9702396 W 19970908
- GB 9621232 A 19961011

Abstract (en)

[origin: GB2318126A] A powder mixture suitable for use in a compaction and sintering process comprises three constituents. The first constituent is substantially carbon-free and is formed by one or more alloyed powders and has a composition lying in the range expressed in % by weight: 8 to 12 chromium, 0.5 to 3 molybdenum, optionally up to a total of 10 of at least one metal selected from vanadium, cobalt and tungsten, a maximum of 2 of other materials including impurities, and the balance iron. The second constituent is formed by sufficient carbon powder to bring the total carbon content of the mixture to 1.5 to 3.0% by weight. The third constituent is formed by sufficient ferrophosphorus powder to bring the total phosphorus content of the mixture to 0.1 to 0.5% by weight.

IPC 1-7

**C22C 33/02**

IPC 8 full level

**C22C 33/02** (2006.01); **F01L 1/16** (2006.01)

CPC (source: EP KR)

**C22C 33/02** (2013.01 - KR); **C22C 33/0214** (2013.01 - EP); **C22C 33/0285** (2013.01 - EP); **F01L 1/16** (2013.01 - EP)

Citation (search report)

See references of WO 981666A1

Cited by

DE102009018610B4; US2013251585A1; US9340857B2

Designated contracting state (EPC)

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**GB 2318126 A 19980415**; **GB 2318126 B 20000920**; **GB 9718854 D0 19971112**; DE 69703589 D1 20001228; DE 69703589 T2 20010621; EP 0946775 A1 19991006; EP 0946775 B1 20001122; ES 2152106 T3 20010116; GB 9621232 D0 19961127; KR 20000048952 A 20000725; WO 9816666 A1 19980423

DOCDB simple family (application)

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