

Title (en)

A manganese sulphide-containing iron powder mixture and a process for the production thereof.

Title (de)

Mangansulfid enthaltendes Eisenpulver und Verfahren zu dessen Herstellung.

Title (fr)

Poudre à base de fer contenant du sulfure de manganèse et son procédé de fabrication.

Publication

EP 0183666 A1 19860604 (EN)

Application

EP 85850374 A 19851121

Priority

SE 8406054 A 19841130

Abstract (en)

The machinability of a sintered body produced by sintering from a pressed iron powder mixture can be increased substantially by utilising an iron powder mixture in which manganese sulphide is included in the form of a very fine powder having a particle size of less than 10 μ m. The iron powder mixture is prepared by adding the manganese sulphide in the form of the said fine powder having a particle size of less than 10 μ m and in an amount such that the finished mixture will contain 0.05-5% by weight of manganese sulphide, preferably 0.3-1.0% by weight of manganese sulphide.

IPC 1-7

C22C 33/02

IPC 8 full level

B22F 1/00 (2006.01); **C22C 33/02** (2006.01)

CPC (source: EP)

C22C 33/0221 (2013.01); **C22C 33/0257** (2013.01); **C22C 33/0264** (2013.01)

Citation (search report)

- [X] DE 3232001 A1 19830331 - TOYOTA MOTOR CO LTD [JP]
- [A] US 3856478 A 19741224 - IWATA T, et al
- [A] DE 3005513 A1 19810820 - SCHWAEBISCHE HUETTENWERKE GMBH [DE]
- [X] POWDER METALLURGY, vol. 26, no. 3, 1983, pages 137-144, London, GB; U. ENGSTRÖM: "Machinability of sintered steels"

Cited by

US7045112B2; EP0266936A1; EP0648851A1; EP2743361A1; US5522914A; EP0726332A3; GB2279665A; GB2279665B; DE19943510C1; US5534220A; US5466414A; US5346529A; EP0545884A3; WO0119929A1; WO2014090922A3; WO9319875A1; WO9114526A1; WO2016124532A1; US11512372B2; US8795407B2; US9393617B2; EP1137718B1; US9957590B2; US10513758B2

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0183666 A1 19860604; ES 549415 A0 19861201; ES 8701562 A1 19861201; JP H0645804 B2 19940615; JP S61147801 A 19860705; SE 445715 B 19860714; SE 8406054 D0 19841130; SE 8406054 L 19860531

DOCDB simple family (application)

EP 85850374 A 19851121; ES 549415 A 19851129; JP 26922785 A 19851129; SE 8406054 A 19841130