

Title (en)  
Fine iron powder containing phosphorus

Title (de)  
Feinteiliges phosphorhaltiges Eisen

Title (fr)  
Poudre fine de fer contenant du phosphore

Publication  
**EP 0861699 B1 20021009 (DE)**

Application  
**EP 98102811 A 19980218**

Priority  
DE 19706524 A 19970219

Abstract (en)  
[origin: US6036742A] Finely divided phosphorus-containing iron is prepared by reacting iron pentacarbonyl with a volatile phosphorus compound, in particular PH<sub>3</sub>, in the gas phase. The resulting phosphorus-containing iron powders and iron whiskers have a particularly low content of extraneous elements.

IPC 1-7  
**B22F 9/30**

IPC 8 full level  
**B22F 9/16** (2006.01); **B22F 1/00** (2006.01); **B22F 9/28** (2006.01); **B22F 9/30** (2006.01); **C22C 33/02** (2006.01); **C22C 38/00** (2006.01)

CPC (source: EP US)  
**B22F 9/305** (2013.01 - EP US); **C22C 33/0214** (2013.01 - EP US)

Citation (examination)  
BOURCIER R.J. ET AL.: "Effect of film composition and microstructure on microindentation response in amorphous alloy coatings", JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY: PART A, vol. 4, no. 6, November 1986 (1986-11-01), pages 2943 - 2948, XP000885419

Cited by  
US7138043B2; WO0166830A3

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**US 6036742 A 20000314**; AT E225690 T1 20021015; DE 19706524 A1 19980820; DE 59805858 D1 20021114; EP 0861699 A1 19980902; EP 0861699 B1 20021009; ES 2185071 T3 20030416; IL 123236 A0 19980924; IL 123236 A 20001206; JP 4165920 B2 20081015; JP H10298616 A 19981110; KR 100552861 B1 20060421; KR 19980071459 A 19981026; RU 2206431 C2 20030620; TW 415861 B 20001221

DOCDB simple family (application)  
**US 2267498 A 19980212**; AT 98102811 T 19980218; DE 19706524 A 19970219; DE 59805858 T 19980218; EP 98102811 A 19980218; ES 98102811 T 19980218; IL 12323698 A 19980209; JP 3289798 A 19980216; KR 19980004919 A 19980218; RU 98103520 A 19980219; TW 87102117 A 19980216