

Title (en)

Flat-particle iron powder, method for making the same and powder magnetic core using the same

Title (de)

Eisenpulver von flächen Teilchen, Herstellungsverfahren und magnetische Pulverkern davon

Title (fr)

Poudre de fer en particules planes, méthode de fabrication et noyau magnétique en poudre de cela

Publication

EP 0997915 A3 20000621 (EN)

Application

EP 99119376 A 19990929

Priority

JP 27787898 A 19981030

Abstract (en)

[origin: EP0997915A2] A flat-particle iron powder, composed of reduced iron powder obtained by reducing iron oxide, has an average aspect ratio of at least 5 and an average ferrite grain size of 2 to 20 μm , is preferably used for a powder magnetic core, has high permeability over a higher frequency region, and is covered with a compound having an amine-quinone-repeating unit to further improve its magnetic characteristics. <IMAGE>

IPC 1-7

H01F 1/20; **H01F 1/24**; **H01F 3/08**; **H01F 41/02**

IPC 8 full level

H01F 1/20 (2006.01); **H01F 1/24** (2006.01); **H01F 3/08** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP)

H01F 1/20 (2013.01); **H01F 1/24** (2013.01); **H01F 3/08** (2013.01); **H01F 41/0246** (2013.01)

Citation (search report)

- [XA] WO 9630144 A1 19961003 - HOEGANAES AB [SE], et al
- [XA] US 2354331 A 19440725 - POLYDOROFF WLADIMIR J
- [A] US 5160447 A 19921103 - ISHIKAWA MASAYUKI [JP], et al

Cited by

EP1453368A4

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0997915 A2 20000503; **EP 0997915 A3 20000621**; CA 2284139 A1 20000330

DOCDB simple family (application)

EP 99119376 A 19990929; CA 2284139 A 19990928