

Title (en)
Iron-silicon alloy powder magnetic cores and method of manufacturing the same.

Title (de)
Magnetkerne aus Eisen-Silicium-Legierungspuder und Herstellungsverfahren.

Title (fr)
Noyau magnétique en poudre d'alliage de fer-silicium et procédé de fabrication.

Publication
EP 0383035 A2 19900822 (EN)

Application
EP 90100930 A 19900117

Priority
• JP 785389 A 19890118
• JP 33589989 A 19891225

Abstract (en)
An Fe-Si alloy powder magnetic core comprises an alloy powder of an average particle diameter of 10-100 μ m, produced by water atomization, in which the composition by weight of the alloy powder is 2-12% silicon and 0.05-0.95% oxygen with the balance being essentially iron. The process of manufacturing the powder magnetic core is also disclosed.

IPC 1-7
H01F 1/20; **H01F 1/26**

IPC 8 full level
C22C 33/02 (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **H01F 1/147** (2006.01); **H01F 1/24** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP)
H01F 1/14766 (2013.01); **H01F 1/24** (2013.01); **H01F 41/0246** (2013.01)

Cited by
EP0959480A3; EP1150311A3; EP1341191A1; CN103065786A; DE19610196A1; EP1475808A4; US2013076477A1; US9190195B2; US6183657B1; US6646532B2; US7060350B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0383035 A2 19900822; **EP 0383035 A3 19910703**; **EP 0383035 B1 19951004**; DE 69022751 D1 19951109; DE 69022751 T2 19960404; JP H02290002 A 19901129; JP H0682577 B2 19941019

DOCDB simple family (application)
EP 90100930 A 19900117; DE 69022751 T 19900117; JP 33589989 A 19891225