

Title (en)
Iron-cobalt alloy

Title (de)
Eisen-Kobalt Legierung

Title (fr)
Alliage fer-cobalt

Publication
EP 0935008 A1 19990811 (FR)

Application
EP 99400112 A 19990119

Priority
FR 9801310 A 19980205

Abstract (en)
Vanadium-containing iron-cobalt alloy, containing a small amount of boron. An iron-cobalt alloy has the composition (by wt.) 35-55% Co, 0.5-2.5% V, 0.02 to less than 0.2% Ta + 2 x Nb, 0.0007-0.007% B, $\leq 0.05\%$ C, balance Fe and impurities. Preferred Features: The boron content is 0.001-0.003%. The impurities comprise $\leq 0.2\%$ Mn + Si, $\leq 0.2\%$ Cr + Mo + Cu, $\leq 0.2\%$ Ni and $\leq 0.005\%$ S.

Abstract (fr)
Alliage fer-cobalt caractérisé en ce que sa composition chimique comprend, en poids : 35 % \leq Co \leq 55 % ; 0,5 % \leq V \leq 2,5 % ; 0,02 % \leq Ta + 2 x Nb \leq 0,2 % ; 0,0007 % \leq B \leq 0,007 % ; C \leq 0,05 % ; le reste étant du fer et des impuretés résultant de l'élaboration.

IPC 1-7
C22C 38/10; **C22C 19/07**; **H01F 1/147**

IPC 8 full level
C22C 19/07 (2006.01); **C22C 30/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/10** (2006.01); **C22C 38/12** (2006.01); **H01F 1/147** (2006.01)

CPC (source: EP US)
C22C 19/07 (2013.01 - EP US); **C22C 38/10** (2013.01 - EP US); **C22C 38/12** (2013.01 - EP US); **H01F 1/147** (2013.01 - EP US)

Citation (search report)

- [AD] US 3634072 A 19720111 - ACKERMANN FRIEDRICH W, et al
- [A] GB 2207927 A 19890215 - TELCON METALS LTD & US 4933026 A 19900612 - RAWLINGS REES D [GB], et al
- [A] US 5501747 A 19960326 - MASTELLER MILLARD S [US], et al & WO 9636059 A1 19961114 - CRS HOLDINGS INC [US]
- [A] US 3891475 A 19750624 - TOMITA SADAMI, et al
- [A] FR 2423550 A1 19791116 - TELCON METALS LTD [GB]
- [A] GB 1523881 A 19780906 - TELCON METALS LTD
- [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 7 (C - 673) 10 January 1989 (1989-01-10)

Cited by
EP1593132A4; FR3127649A1; US2010048322A1; US8475294B2; US12116655B2; US11827961B2; US7582171B2; WO2016008780A1; US10957481B2; US11600439B2; WO2013087939A1; WO2013087997A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0935008 A1 19990811; **EP 0935008 B1 20021002**; CN 1091162 C 20020918; CN 1227271 A 19990901; DE 69903202 D1 20021107; DE 69903202 T2 20030618; ES 2185294 T3 20030416; FR 2774397 A1 19990806; FR 2774397 B1 20000310; HK 1021651 A1 20000623; IL 128067 A0 19991130; IL 128067 A 20011031; JP H11264058 A 19990928; RU 2201990 C2 20030410; US 6146474 A 20001114

DOCDB simple family (application)
EP 99400112 A 19990119; CN 99101766 A 19990204; DE 69903202 T 19990119; ES 99400112 T 19990119; FR 9801310 A 19980205; HK 00100635 A 20000202; IL 12806798 A 19980114; IL 12806799 A 19990114; JP 2552899 A 19990202; RU 99102555 A 19990204; US 23176599 A 19990115