

Title (en)
Soft magnetic alloy for a timepiece

Title (de)
Weichmagnetische Legierung für Uhrwerk

Title (fr)
Alliage magnetique doux pour horlogerie

Publication
EP 1041168 B1 20040428 (FR)

Application
EP 00400646 A 20000309

Priority
FR 9904302 A 19990402

Abstract (en)
[origin: EP1041168A1] A soft magnetic iron-nickel alloy, having a relatively low nickel content and containing chromium and cobalt, is new. A novel soft magnetic iron-nickel alloy has the composition (by wt.) 34-40% Ni, 7-10% Cr, 0.5-3% Co, 0.1-1% Mn, $\leq 0.007\%$ $\leq 0.002\%$ S, $\leq 0.004\%$ N, balance Fe and impurities, the sum of N + S + O being $\leq 0.01\%$.

IPC 1-7
C22C 38/52; **C22C 30/00**; **H02K 1/02**; **H01F 1/147**

IPC 8 full level
G04C 3/14 (2006.01); **C22C 30/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/52** (2006.01); **H01F 1/147** (2006.01)

CPC (source: EP US)
C22C 38/004 (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US); **H01F 1/14708** (2013.01 - EP US)

Cited by
FR2836156A1; CN104593670A; FR2836155A1; DE102011001488A1; DE102011001488B4; US7195680B2; US8405391B2; WO03069637A1; WO03069638A1

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 1041168 A1 20001004; **EP 1041168 B1 20040428**; AT E265554 T1 20040515; CA 2302845 A1 20001002; CN 1192400 C 20050309; CN 1269588 A 20001011; DE 60010167 D1 20040603; DE 60010167 T2 20050804; FR 2791704 A1 20001006; FR 2791704 B1 20010525; HK 1030294 A1 20010427; JP 2000319766 A 20001121; MX PA00003157 A 20020308; TW I228150 B 20050221; US 6350324 B1 20020226

DOCDB simple family (application)
EP 00400646 A 20000309; AT 00400646 T 20000309; CA 2302845 A 20000327; CN 00105318 A 20000331; DE 60010167 T 20000309; FR 9904302 A 19990402; HK 01101260 A 20010221; JP 2000100777 A 20000403; MX PA00003157 A 20000330; TW 89105436 A 20000324; US 53574000 A 20000327