

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)
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