

Title (en)

APPLICATION OF A FAST QUENCHED ALLOY TO AN IRON-CHROME-COBALT BASE

Publication

EP 0239838 B1 19910227 (DE)

Application

EP 87103341 A 19870309

Priority

DE 3611342 A 19860404

Abstract (en)

[origin: EP0239838A1] Ductile strips of magnetically hard or semihard alloys of the iron/chromium/cobalt type are required, in particular, for producing picture tube shadow masks. According to the invention alloys consisting of 10 to 45% chromium, 3 to 35% cobalt, the remainder essentially being iron and quenched at a cooling rate of about 10^{3-6} K/s are proposed for this purpose. These have a microcrystalline structure free of gamma-phase and/or sigma-phase precipitates. Preferably, the structure has a mean grain diameter of 1 to 50 μ m.

IPC 1-7

C22F 1/11; H01F 1/04

IPC 8 full level

C22C 38/00 (2006.01); **C22C 30/00** (2006.01); **C22C 38/30** (2006.01); **C22F 1/11** (2006.01); **H01F 1/03** (2006.01); **H01F 1/04** (2006.01); **H01J 29/07** (2006.01)

CPC (source: EP)

C22C 30/00 (2013.01); **H01F 1/0306** (2013.01); **H01J 29/07** (2013.01); **H01J 2229/0733** (2013.01)

Cited by

US7942981B2; EP1087028A1; EP0634759A3; KR100561605B1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0239838 A1 19871007; EP 0239838 B1 19910227; DE 3611342 A1 19871008; DE 3768113 D1 19910404; JP S6324047 A 19880201

DOCDB simple family (application)

EP 87103341 A 19870309; DE 3611342 A 19860404; DE 3768113 T 19870309; JP 7132587 A 19870324