

Title (en)

Copper-iron-cobalt-titanium alloy featuring high mechanical and electrical properties and process for the manufacture thereof.

Title (de)

Kupfer-Eisen-Kobalt-Titanlegierung mit guten mechanischen und elektrischen Eigenschaften und Verfahren zu ihrer Herstellung.

Title (fr)

Alliage de cuivre-fer-cobalt-titane à hautes caractéristiques mécaniques et électriques et son procédé de fabrication.

Publication

EP 0408469 B1 19931124 (FR)

Application

EP 90420315 A 19900704

Priority

FR 8909906 A 19890707

Abstract (en)

[origin: US5026434A] A process for producing a Cu-Fe-Co-Ti alloy useful as conductor elements in the electronics and connector industries. The alloy is produced in the form of a bath having a Ti/Fe+Co ratio between 0.3 and 1 and a Co/Fe ratio between 0.10 and 0.90. The molten alloy bath is deoxidized with boron, cast, homogenized, cold drawn, and subjected to a precipitation heat treatment at a temperature lower, by at most 80 DEG C., than a temperature TM leading to the maximum electric conductivity.

IPC 1-7

C22C 9/00; **C22C 9/06**; **H01B 1/02**

IPC 8 full level

C22F 1/08 (2006.01); **C22B 9/00** (2006.01); **C22C 1/02** (2006.01); **C22C 1/06** (2006.01); **C22C 9/00** (2006.01); **C22C 9/06** (2006.01); **C22F 1/00** (2006.01); **H01B 1/02** (2006.01)

CPC (source: EP KR US)

C22C 9/00 (2013.01 - EP KR US); **C22C 9/06** (2013.01 - EP US); **H01B 1/026** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES GB IT NL

DOCDB simple family (publication)

EP 0408469 A1 19910116; **EP 0408469 B1 19931124**; DE 69004756 D1 19940105; DE 69004756 T2 19940505; ES 2046754 T3 19940201; FI 903449 A0 19900706; FI 95815 B 19951215; FI 95815 C 19960325; FR 2649418 A1 19910111; FR 2649418 B1 19910920; JP H0353036 A 19910307; JP H0694578 B2 19941124; KR 910003132 A 19910227; KR 940002684 B1 19940330; US 5026434 A 19910625

DOCDB simple family (application)

EP 90420315 A 19900704; DE 69004756 T 19900704; ES 90420315 T 19900704; FI 903449 A 19900706; FR 8909906 A 19890707; JP 17939390 A 19900706; KR 900010356 A 19900707; US 54291990 A 19900625