Title (en)

WOUND IRON CORE

Publication

EP 0086485 B1 19871111 (EN)

Application

EP 83101409 A 19830214

Priority

JP 2234982 A 19820215

Abstract (en)

[origin: EP0086485A2] A wound iron core by winding a thin strip of a soft magnetic alloy into a triodal form, characterized in that a Cobase amorphous magnetic alloy is used as the thin strip and that the thin strip is annealed in a magnetic field in the direction of excitation, so that the core exhibits a rectangle ratio Br/B10 of 85% or higher in D.C. hysteresis curve. The Co-base amorphous magnetic alloy has a composition substantially expressed by: Co100-a-bXaYb where X represents one, two or more elements selected from a group consisting of Ti, V, Cr, Mn, Fe, Ni, Zr, Nb, Mo, Ru, Hf, Ta, W, Y, Ce, Pr, Nd, Sm, Eu, Gd, Tb and Dy, while Y represents one, two or more elements selected from a group consisting of B, C, Al, Si, P and Ge, and wherein the following conditions are met: 0 </= a </= 15 (atom%) and 14 </= b </= 30 (atom%).

IPC 1-7

H01F 1/16; H01F 3/04

IPC 8 full level

C22C 19/07 (2006.01); **C22C 45/04** (2006.01); **C22F 1/10** (2006.01); **H01F 1/153** (2006.01); **H01F 3/04** (2006.01)

CPC (source: EP)

H01F 1/15316 (2013.01); **H01F 3/04** (2013.01)

Cited by

EP0503081A4; US5096513A; US6118365A; CN110400670A; US5639566A; DE3620617A1; CN104109822A; EP0206774A1; US4766039A; CN105112816A; US4745536A; CN102360670A; CN106702245A; US6171694B1; WO9826390A1; WO9812847A1

Designated contracting state (EPC)

DE NL

DOCDB simple family (publication)

EP 0086485 A2 19830824; **EP 0086485 A3 19850515**; **EP 0086485 B1 19871111**; DE 3374481 D1 19871217; JP S58139408 A 19830818; JP S6328483 B2 19880608

DOCDB simple family (application)

EP 83101409 A 19830214; DE 3374481 T 19830214; JP 2234982 A 19820215