

Title (en)

SECURITY DEVICE COMPRISING SOFT MAGNETIC THIN FILM

Title (de)

SICHERUNGSVORRICHTUNG MIT WEICHMAGNETISCHER DÜNNSCHICHT

Title (fr)

DISPOSITIF DE SECURITE COMPRENANT UN FILM MINCE A AIMANTATION TEMPORAIRE

Publication

EP 1145204 A2 20011017 (EN)

Application

EP 99936527 A 19990712

Priority

- EP 99936527 A 19990712
- EP 9904942 W 19990712
- EP 98202418 A 19980720

Abstract (en)

[origin: WO0005693A2] A security device such as an anti-pilferage label or authentication label comprises as security feature a (first) soft-magnetic thin film having a thickness ranging from 100 nm to 2000 nm. The thin film is composed of an amorphous $\text{Co}_x\text{Zr}_y\text{Nb}_z$ alloy, where x, y and z are atomic percentages and fulfil following conditions: (a) x ranging between 80 and 95; (b) y and z ranging between 0 and 20; (c) $y + z = 100 - x$. Due to the high effective relative permeability μ_r , and the direction of its easy axis, a label with a CoZrNb thin film is relatively independent of its geometry.

IPC 1-7

G08B 13/24; **H01F 10/12**

IPC 8 full level

G08B 13/24 (2006.01); **H01F 10/12** (2006.01); **H01F 10/13** (2006.01)

CPC (source: EP)

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Citation (search report)

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