

Title (en)
Amorphous antipilferage marker.

Title (de)
Amorphe Diebstahlschutzmarke.

Title (fr)
Marqueur antivol amorphe.

Publication
EP 0078401 A1 19830511 (EN)

Application
EP 82108920 A 19821011

Priority
US 31762581 A 19811102

Abstract (en)
A magnetic theft detection system marker is adapted to generate magnetic fields at frequencies that (1) are harmonically related to an incident magnetic field applied within an interrogation zone and (2) have selected tones that provide the marker with signal identity. The marker is an elongated, ductile strip of amorphous ferromagnetic material having a composition defined by the formula $\text{Fe}_a\text{Cr}_b\text{Co}_c\text{Pd}_d\text{Mo}_e\text{Cu}_f\text{Bg}_h\text{Si}_i$ where "a" ranges from about 63-81 atom %, "b" ranges from about 0-10 atom %, "c" ranges from about 11-16 atom %, "d" ranges from about 4-10 atom %, "e" ranges from about 0-2 atom %, "f" ranges from about 0-1 atom %, "g" ranges from about 0-4 atom % and "i" ranges from about 0-2 atom %, with the proviso that their sum (c+d+g+h) ranges from 19-24 atom % and the fraction $[c/(c+d+g+h)]$ is less than about 0.84.

IPC 1-7
G08B 13/24

IPC 8 full level
C22C 45/02 (2006.01); **G08B 13/24** (2006.01); **H01F 1/153** (2006.01)

CPC (source: EP)
C22C 45/02 (2013.01); **G08B 13/2411** (2013.01); **G08B 13/2442** (2013.01); **H01F 1/15308** (2013.01)

Citation (search report)
• [AD] EP 0017801 A1 19801029 - ALLIED CORP [US]
• [A] US 3820104 A 19740625 - FEARON E
• [A] US 3665449 A 19720523 - ELDER JAMES T, et al
• [A] US 3938125 A 19760210 - BENASSI DOMINIC A

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DOCDB simple family (application)
EP 82108920 A 19821011; CA 414116 A 19821025; DE 3265257 T 19821011; JP 19327682 A 19821102