

Title (en)
Dual status thin-film EAS marker

Title (de)
Doppelstatus-Dünnschichtmarkierung für elektronische Artikelüberwachung

Title (fr)
Etiquette à couche mince à double état pour la surveillance électronique d'articles

Publication
EP 0604293 B1 20000607 (EN)

Application
EP 93403099 A 19931220

Priority
US 99618292 A 19921223

Abstract (en)
[origin: EP0604293A1] A dual status marker for use with a magnetic-type EAS system has a signal-producing layer including at least one magnetic thin-film of high permeability and low coercive force such as permalloy, and a signal-blocking layer including at least one remanently magnetizable thin-film such as an Fe-Cr alloy. The remanently magnetizable thin-film or thin-films should have a total thickness at least equal to, and preferably at least twice, the total thickness of the magnetic thin-film or thin-films of high permeability. By doing so, the marker is more reliably deactivated when the signal-blocking layer is magnetized. For even greater assurance of deactivation, the signal-blocking layer should include more than one remanently magnetizable thin-film, thus giving it a squarer B-H loop and greater assurance against false alarms. <IMAGE>

IPC 1-7
G08B 13/24

IPC 8 full level
G08B 13/24 (2006.01); **H01F 10/00** (2006.01); **H01F 10/12** (2006.01); **H01F 10/13** (2006.01)

CPC (source: EP)
G08B 13/2411 (2013.01); **G08B 13/2437** (2013.01); **G08B 13/2442** (2013.01)

Cited by
EP0782014A3; EP0782013A3; EP0793242A1; US5932310A; US5699047A; US5825292A; US5939985A; AU709228B2; US6097291A; EP1186911A1; WO02093523A1; WO9726564A1

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
EP 0604293 A1 19940629; **EP 0604293 B1 20000607**; AU 5180793 A 19940707; AU 669014 B2 19960523; CA 2109643 A1 19940624; CA 2109643 C 20020326; DE 69328819 D1 20000713; DE 69328819 T2 20001228; ES 2148211 T3 20001016; JP H06231376 A 19940819

DOCDB simple family (application)
EP 93403099 A 19931220; AU 5180793 A 19931119; CA 2109643 A 19931122; DE 69328819 T 19931220; ES 93403099 T 19931220; JP 32384793 A 19931222