Title (en)

Label detection for an electronic surveillance system

Title (de)

Detektionsvorrichtung für Warendiebstahlsicherungsetiketten

Title (fr)

Dispositif de détection d'étiquettes de surveillance électronique

Publication

EP 0541480 B1 19960724 (DE)

Application

EP 92810789 A 19921015

Priority

- CH 109892 A 19920403
- CH 244692 A 19920804
- CH 318591 A 19911031

Abstract (en)

[origin: EP0541480A1] The device for detecting labels (21) which serve to protect goods (20) against theft and which are provided with an electric resonant circuit with a resonant frequency in the MHz range comprises a plurality of pairs of transmitting and receiving antennas (8-13) which in each case delimit passages (5-7) which are to be kept under surveillance. Electromagnetic waves whose frequency is swept in sweep cycles beyond the pre-defined resonant frequency of the labels are in each case radiated by the transmitting antennas (8, 10, 12) of the pairs. The sweep cycles of all pairs are synchronised with one another. A receiving circuit (17-19) which detects the presence of a label is connected to the receiving antenna (9, 11, 13) of each pair. To simplify installation, it is proposed according to the invention that the RF oscillations radiated via the transmitting antennas as electromagnetic waves are generated by decentralised RF generators (14-16) in each case individually assigned to the transmitting antennas and that the sweep cycles are synchronised with one another using a synchronisation signal with at least one frequency in the LW range which is generated in a central unit (22) and fed to the RF generators. <IMAGE>

IPC 1-7

G08B 13/24

IPC 8 full level

G08B 13/22 (2006.01); **G08B 13/24** (2006.01)

CPC (source: EP US)

G08B 13/2414 (2013.01 - EP US); **G08B 13/2471** (2013.01 - EP US); **G08B 13/2477** (2013.01 - EP US); **G08B 13/2488** (2013.01 - EP US)

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DOCDB simple family (publication)

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