

Title (en)
Electronic article surveillance system.

Title (de)
Elektronisches Warenüberwachungssystem.

Title (fr)
Système électronique de surveillance d'objets.

Publication
EP 0135049 A1 19850327 (EN)

Application
EP 84108629 A 19840720

Priority
US 51939583 A 19830801

Abstract (en)
An electronic article surveillance system for microwave frequencies (500 MHz and higher) has low profile (i.e., shallow) transmitter antenna arrays and a low profile receiver antenna array, each array comprising a pair of thin metal patches, spaced apart in the normal direction of travel through a surveillance zone, and a thin metal ground plane behind the patches. The patches and ground plane are in spaced parallel relationship. Each metal patch and the adjacent portion of the ground plane together form a cavity resonator which resonates at a desired transmitter or return signal frequency and thereby form a signal radiating or receiving structure. The patch size, path to ground plane spacing, and spacing between patches are determined by the desired resonant frequency.

IPC 1-7
G08B 13/24

IPC 8 full level
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CPC (source: EP)
G08B 13/2422 (2013.01); **G08B 13/2471** (2013.01); **G08B 13/2474** (2013.01)

Citation (search report)

- [YD] US 3895368 A 19750715 - GORDON LLOYD L, et al
- [Y] US 3680136 A 19720725 - COLLINGS RUPERT H
- [A] US 4386357 A 19830531 - PATTON PAUL D
- [AD] US 4063229 A 19771213 - WELSH JOHN, et al
- [AD] US 4366484 A 19821228 - WEISS MICHAEL A, et al

Cited by
EP1684247A1; EP0215242A3; CN115275643A; KR100704101B1; EP1612579A3; EP1681582A3; US7724140B2; EP1708120A1; EP1710729A1; WO2005031637A1; US7363058B2; US7835769B2; US7570955B2; US8854212B2; US9262657B2; US10262173B2; US7576655B2; US7592915B2; US7518513B2; US7538675B2; US10367259B2; US11575215B2

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