

Title (en)  
Electronic article surveillance system.

Title (de)  
Elektronisches Warenüberwachungssystem.

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

Publication  
**EP 0133317 A2 19850220 (EN)**

Application  
**EP 84108951 A 19840727**

Priority  
US 51956683 A 19830802

Abstract (en)  
An electronic article surveillance system for microwave frequencies (500 MHz and higher) has microstrip antenna arrays each array comprising a dielectric substrate having a plurality of metal patches, spaced apart in the normal direction of travel through a surveillance zone, on one side and a metal ground plane on the other side. 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, patch 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  
**G08B 13/24** (2006.01)

CPC (source: EP)  
**G08B 13/2422** (2013.01); **G08B 13/2471** (2013.01); **G08B 13/2474** (2013.01)

Cited by  
US6005519A; EP0215242A3; US10062025B2; US10878303B2; US10367259B2; US11575215B2

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0133317 A2 19850220; EP 0133317 A3 19850327; EP 0133317 B1 19880921**; AT E37453 T1 19881015; AU 3122084 A 19850207; AU 573602 B2 19880616; BR 8403801 A 19850709; CA 1236542 A 19880510; DE 3474224 D1 19881027; JP S60100295 A 19850604; MX 156403 A 19880818; NZ 209069 A 19880330

DOCDB simple family (application)  
**EP 84108951 A 19840727**; AT 84108951 T 19840727; AU 3122084 A 19840727; BR 8403801 A 19840731; CA 459814 A 19840726; DE 3474224 T 19840727; JP 16150684 A 19840731; MX 20222384 A 19840801; NZ 20906984 A 19840731