

Title (en)

INVERSE CASSEGRAIN ANTENNA FOR A MULTIFUNCTION RADAR

Publication

**EP 0091343 B1 19870722 (FR)**

Application

**EP 83400605 A 19830323**

Priority

FR 8205787 A 19820402

Abstract (en)

[origin: US4612550A] An inverted Cassegrain antenna utilizing polarization rotation. The polarizer-reflector or mirror utilized comprises two or more polarizer-reflector elements joined together around hinges perpendicular to the widening direction required. A sheet comprising parallel metal wires covers the whole of the elements. For each element, a metal film is separated from the sheet by a first dielectric layer. Each hinge is formed, on one side, by the flexible sheet of metal wires which straddles the gap between elements. The other side of the hinge includes a second dielectric layer backed by a rigid metal strip, also straddling the gap. One end of the metal strip is fixed to the metal film of one adjacent element while the other end of the metal strip is in moveable electrical contact with the metal strip of the other adjacent element. The antenna is particularly applicable to multiple function radars.

IPC 1-7

**H01Q 1/08**; **H01Q 15/20**

IPC 8 full level

**H01Q 1/08** (2006.01); **H01Q 15/16** (2006.01)

CPC (source: EP US)

**H01Q 1/08** (2013.01 - EP US); **H01Q 15/162** (2013.01 - EP US)

Citation (examination)

- EP 0014605 A1 19800820 - THOMSON CSF [FR]
- US 3771160 A 19731106 - LAVERICK E

Cited by

EP0331248A1; WO0247206A1

Designated contracting state (EPC)

BE DE GB IT NL SE

DOCDB simple family (publication)

**EP 0091343 A1 19831012**; **EP 0091343 B1 19870722**; DE 3372686 D1 19870827; FR 2524720 A2 19831007; FR 2524720 B2 19840518; GR 78792 B 19841002; IL 68272 A0 19830615; US 4612550 A 19860916

DOCDB simple family (application)

**EP 83400605 A 19830323**; DE 3372686 T 19830323; FR 8205787 A 19820402; GR 830170955 A 19830331; IL 6827283 A 19830331; US 48080583 A 19830331