

Title (en)
COMMON ANTENNA FOR PRIMARY RADAR AND SECONDARY RADAR

Publication
EP 0033676 B1 19850502 (FR)

Application
EP 81400052 A 19810116

Priority
FR 8001760 A 19800128

Abstract (en)
[origin: US4400701A] A bifunctional antenna of a primary/secondary radar system comprises a reflector having a concave front surface illuminated by a source of primary radiation and formed with a row of circular ports along a horizontal generatrix, the ports lying forwardly of respective cavities or waveguides of cylindrical configuration excitable to emit circularly polarized secondary radiation. In some embodiments the polarization may be changed to a linear or an elliptical mode under the control of inserts rotatable about the cavity axis.

IPC 1-7
H01Q 21/28; **H01Q 25/00**; **H01Q 9/27**

IPC 8 full level
H01Q 9/27 (2006.01); **H01Q 21/28** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP US)
H01Q 9/27 (2013.01 - EP US); **H01Q 21/067** (2013.01 - EP US); **H01Q 21/28** (2013.01 - EP US); **H01Q 25/00** (2013.01 - EP US); **Y10S 430/165** (2013.01 - EP US)

Citation (examination)
Antenna Engineering Handbook-Henry Jasik, Editor, MacGraw Hill, 1961 Ch. 17 p. 17-2, 17-3, 17-17,17-18, 17-20, 17-21

Cited by
FR2644298A1

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

DOCDB simple family (publication)
EP 0033676 A1 19810812; **EP 0033676 B1 19850502**; AT E13111 T1 19850515; DE 3170227 D1 19850605; DK 34481 A 19810729; NO 154070 B 19860401; NO 154070 C 19860709; NO 810277 L 19810729; US 4400701 A 19830823

DOCDB simple family (application)
EP 81400052 A 19810116; AT 81400052 T 19810116; DE 3170227 T 19810116; DK 34481 A 19810126; NO 810277 A 19810127; US 22777081 A 19810123