

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

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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

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