

Title (en)
DEVICE FOR RECEIVING DUAL POLARIZED MICROWAVE SIGNALS

Publication
EP 0174250 B1 19901219 (FR)

Application
EP 85401680 A 19850823

Priority
FR 8413509 A 19840831

Abstract (en)
[origin: US4695844A] A device for receiving dual polarized microwave signals, including a first waveguide connected to a receiving antenna and to a first substrate bearing a first sensor perpendicular to the longitudinal axis of the first waveguide, a second waveguide having the same longitudinal axis and the same dimensions as the first waveguide, and which is connected to a second substrate having a second sensor perpendicular to the longitudinal axis of the second waveguide. Surrounding the second waveguide is a tube having tongues at opposed ends which cooperate with slots formed in the first and second substrates. The opposed tongues of the tube are staggered by 90 DEG so that upon insertion of the opposed tongues of the tube within the slots of the first and second substrates, sensors formed on these substrates are arranged orthogonally with respect to one another. The tongues and cooperating slots assure mechanical integrity. A metallic blade is mounted in axially extending diametrically opposed slots formed in the second waveguide in the tube to maximize decoupling between the dual polarized signals being received.

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H01P 1/161; **H01Q 25/00**

IPC 8 full level
H01P 1/161 (2006.01); **H01Q 13/02** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP US)
H01P 1/161 (2013.01 - EP US); **H01Q 13/0258** (2013.01 - EP US); **H01Q 25/001** (2013.01 - EP US)

Cited by
FR3136763A1; FR3136764A1

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DOCDB simple family (publication)
EP 0174250 A1 19860312; **EP 0174250 B1 19901219**; AT E59248 T1 19910115; DE 3580956 D1 19910131; FR 2569907 A1 19860307; FR 2569907 B1 19871009; US 4695844 A 19870922

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