

Title (en)

MICROWAVE PRIMARY EMITTING-RECEIVING DUPLEXER-UNIT FOR ORTHOGONALLY POLARISED WAVES

Publication

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Application

EP 88109666 A 19880616

Priority

- FR 8708520 A 19870618
- IN 500DE1988 A 19880607

Abstract (en)

[origin: US4853657A] An orthogonal polarization duplex send-receive microwave head comprising an elongate housing (10) provided at one end (26) with a longitudinal bore (25) forming a first waveguide and with a transverse bore (28) forming a second waveguide opening out into the first waveguide, and an antenna (44) which extends into the first waveguide, said microwave head being characterized in that said antenna (44) is a receive antenna which extends into said first waveguide at a location situated between the inside end of said first waveguide (25) and the location at which said second waveguide (28) opens out therein, and in that a transmit antenna (45) extends into the second waveguide at its free end, with said antennas being connected to respective coaxial accesses (41, 42) and with a metal plate (31) being disposed longitudinally in the first waveguide between two transverse planes containing the two antennas (44, 45).

IPC 1-7

H01P 1/161

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP2797162A1; US5187021A; EP0599316A1; US5422611A; US8947174B2

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