

Title (en)

Elemental microwave antenna with two polarisations.

Title (de)

Mikrowellen-Antennenelement mit zwei Polarisationen.

Title (fr)

Antenne hyperfréquence élémentaire bipolarisée.

Publication

**EP 0518271 A1 19921216 (FR)**

Application

**EP 92109714 A 19920610**

Priority

FR 9107027 A 19910610

Abstract (en)

Elemental microwave antenna able to constitute one of the elements of an array, this antenna being capable of transmitting or receiving two waves with orthogonal polarisations. <??>It consists of a cavity (1) containing the two orthogonal excitation probes (4, 6) separated by a polarisation-selective obstacle (9), forming a short-circuit plane for the wave transmitted by the upper probe (6) and a "patch" for the wave transmitted by the lower probe (4). Another "patch" (13) is common to these two nested antennas. A third "patch" (15), which is polarisation-selective in the sense that it is transparent to the wave transmitted by the lower probe (4), can moreover be provided. <IMAGE>

IPC 1-7

**H01Q 9/04; H01Q 21/00; H01Q 21/24**

IPC 8 full level

**H01Q 13/18** (2006.01); **H01Q 9/04** (2006.01); **H01Q 15/24** (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP US)

**H01Q 9/0414** (2013.01 - EP US); **H01Q 21/0075** (2013.01 - EP US); **H01Q 21/24** (2013.01 - EP US)

Citation (search report)

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DOCDB simple family (application)

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