

Title (en)

Planar radiating element with dual polarisation and network antenna comprising such a radiating element

Title (de)

Dual polarisiertes, planares Strahlungselement und mit einem solchen Strahlungselement ausgestattete Netzantenne

Title (fr)

Élément rayonnant plane à polarisation duale et antenne réseau comportant un tel élément rayonnant

Publication

EP 2202846 B1 20111228 (FR)

Application

EP 09170166 A 20090914

Priority

FR 0807401 A 20081223

Abstract (en)

[origin: EP2202846A1] The element (39) has a square shaped external metal annular grid (38) in which a metal patch (15) is concentric. A cavity (41) separates the grid and the patch, where the grid and the patch have a polygonal shape delimited by 4 pair wise opposite sides, and 2 orthogonal directions of polarization associated with 2 orthogonal electric fields (Eh, Ev). One of the directions of polarization is provided parallel to sides of the shape, where sides (42-45) of the patch parallel to the directions of polarization is electrically linked to a zone of the external grid when one of the fields is minimum. The polygonal shape of the metal patch is chosen a square, rectangle, cross or hexagon.

IPC 8 full level

H01Q 9/04 (2006.01)

CPC (source: EP US)

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