

Title (en)

TRANSPARENT PRINTED ANTENNA WITH MESH GROUND PLANE

Title (de)

DURCHSICHTIGE GEDRUCKTE ANTENNE MIT GITTERGRUNDPLATTE

Title (fr)

ANTENNE IMPRIMEE OPTIQUEMENT TRANSPARENTE A PLAN DE MASSE MAILLE

Publication

EP 2526589 B1 20141112 (FR)

Application

EP 11700458 A 20110121

Priority

- FR 1050392 A 20100121
- EP 2011050828 W 20110121

Abstract (en)

[origin: WO2011089219A1] The present invention relates, in a first aspect, to an optically transparent printed antenna comprising a ground plane consisting of a metal mesh, a radiating plane including one or more radiating elements, and an optically transparent dielectric substrate interleaved between the ground plane and the radiating plane, characterized in that the spacing of the ground plane mesh is not uniform, the mesh having, in a first region (5) of the ground plane facing a region of the radiating plane generating strong electromagnetic activity a first, closely spaced mesh size, the mesh opening progressively in the vicinity of said first region, increasing in transparency until it reaches a second mesh spacing, wider than the first mesh spacing, at a second region (7) of the ground plane facing a region of the radiating plane generating weak electromagnetic activity.

IPC 8 full level

H01Q 9/04 (2006.01); **H01Q 1/38** (2006.01)

CPC (source: EP)

H01Q 1/1278 (2013.01); **H01Q 9/0407** (2013.01)

Cited by

US2022328955A1; WO2021133126A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

FR 2955430 A1 20110722; EP 2526589 A1 20121128; EP 2526589 B1 20141112; WO 2011089219 A1 20110728

DOCDB simple family (application)

FR 1050392 A 20100121; EP 11700458 A 20110121; EP 2011050828 W 20110121