

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

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CPC (source: EP)

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