

Title (en)
COMPOUND LOOP ANTENNA

Title (de)
ZUSAMMENGESETZTE RAHMENANTENNE

Title (fr)
ANTENNE CADRE COMPOSÉE

Publication
EP 2534731 A1 20121219 (EN)

Application
EP 11710351 A 20110211

Priority

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Abstract (en)
[origin: WO2011100618A1] Embodiments relate to planar (double-sided) and printed (single-sided) compound field antennas. Improvements relate particularly, but not exclusively, to compound loop antennas having coplanar electric field radiators and magnetic loops with electric fields orthogonal to magnetic fields that achieve performance benefits in higher bandwidth (lower Q), greater radiation intensity/power/gain, and greater efficiency. Further embodiments relate to a self-contained counterpoise compound field antenna including a transition formed on the magnetic loop and having a transition width greater than the width of the magnetic loop. The transition substantially isolates a counterpoise formed on the magnetic loop opposite or adjacent to the electric field radiator.

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