

Title (en)
COMPACT HIGH-GAIN ANTENNA

Title (de)
HOCHEMPFLINDLICHE KOMPAKTANTENNE

Title (fr)
ANTENNE COMPACTE A FORT GAIN

Publication
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Application
EP 11763686 A 20110929

Priority
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Abstract (en)
[origin: WO2012041979A1] The invention relates to a panel antenna comprising: a ground plane (P); a dielectric substrate (11) having a permittivity (e1), the substrate (11) being located on the ground plane (P); at least one radiating source (Si), each radiating source consisting of a plurality of antenna elements (Eij), the antenna elements (Eij) being located on the substrate (11) and furthermore consecutively spaced apart, relative to one another, by a distance (de) shorter than one wavelength λ , the wavelength λ corresponding to the antenna operating frequency. The antenna is characterized in that it furthermore comprises a dielectric superstrate (12) having a permittivity (e2) higher than the permittivity (e1) of the substrate (11), the superstrate being located above the antenna elements (Eij), and in that the antenna elements (Eij) are all identical and have, in operation, identical radiation characteristics.

IPC 8 full level
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