

Title (en)  
MULTIBAND ANTENNA WITH CROSS POLARISATION

Title (de)  
MULTIBANDANTENNE MIT KREUZPOLARISATION

Title (fr)  
ANTENNE MULTIBANDE À POLARISATION CROISÉE

Publication  
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Application  
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Abstract (en)  
[origin: WO2010142780A1] The present invention relates to a radiating element of a multiband antenna, comprising a first pair of cross-polarised dipoles each including two collinear conductive arms, the four conductive arms defining a first radiating plane corresponding to a low-frequency band. The radiating element also comprises at least one second pair of cross-polarised dipoles each including two collinear conductive arms, the four conductive arms defining a second radiating plane corresponding to a higher-frequency band. The first radiating plane and the second radiating plane are parallel. The second radiating plane is placed above the first radiating plane from which it is electrically isolated, and the surface of the first radiating plane covering the conductive arms of the first pair of dipoles is higher than the surface of the second radiating plane covering the conductive arms of the second pair of dipoles. The first radiating plane can be defined by a first pair of dual-polarised crossed dipoles or a printed-circuit dipole, and the second radiating plane can be defined by a second pair of dipoles selected from among the crossed dipoles, the "butterfly" dipoles and the printed-circuit dipoles.

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• WO 2010067022 A2 20100617 - ALCATEL LUCENT [FR], et al  
• JP 2004187195 A 20040702 - MITSUBISHI ELECTRIC CORP

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