Title (en)

Antenna device

Title (de)

Antennenvorrichtung

Title (fr)

Dispositif d'antenne

Publication

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Application

EP 07445027 A 20070629

Priority

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Abstract (en)

The present invention relates to an antenna device for a communication device operable in at least two frequency intervals and comprising a generally planar electrically conductive driven radiating element (2) having a feeding portion (5) connectable to a feeding point (P) of a printed wire board (4) of the communication device and a generally planar elongated parasitic element (3) having a ground portion (6) connectable to a grounding point (G) of the printed wire board. The driven radiating element (2) and the parasitic element (3) are essentially coplanar and separated by a gap, wherein the grounding portion (6) of the parasitic element (3) is positioned at a grounding point (G') along the parasitic element (3) so as to virtually divide the parasitic element (3) into a first and a second portion respectively with a first length (L1) and a second length (L2), wherein the first portion having a first length (L1) is longer than the second portion having a second length (L2). By designing the parasitic element in this fashion, it is possible to easily modify and influence the impedance match of the resonance for the different frequencies, i.e. the Return Loss level for which the parasitic element is active.

IPC 8 full level

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CPC (source: EP)

H01Q 5/371 (2015.01); **H01Q 5/378** (2015.01); **H01Q 9/0421** (2013.01); **H01Q 19/005** (2013.01)

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