

Title (en)

Dielectric resonator antenna with wide bandwidth.

Title (de)

Dielektrische Resonatorantenne mit grosser Bandbreite.

Title (fr)

Antenne diélectrique de résonateur à large bande.

Publication

EP 0587247 A1 19940316 (EN)

Application

EP 93202597 A 19930906

Priority

GB 9219226 A 19920911

Abstract (en)

The invention relates to a dielectric resonator antenna system which exhibits an unusually wide bandwidth. This is achieved by choosing a patch antenna/dielectric resonator combination with shape and dimensions such that resonance modes over a continuous range wavelengths can be established therein. The bandwidth and transmission properties of the device are further improved by including a dielectric coupling element (between the dielectric resonator and air) whose antireflection characteristics are optimised for a wavelength which is slightly different from the maximum wavelength of the patch antenna. <IMAGE>

IPC 1-7

H01Q 9/04; **H01Q 19/09**

IPC 8 full level

H01Q 9/04 (2006.01); **H01Q 19/09** (2006.01)

CPC (source: EP)

H01Q 9/0485 (2013.01); **H01Q 19/09** (2013.01)

Citation (search report)

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