

Title (en)  
DIELECTRIC ANTENNA

Title (de)  
DIELEKTRISCHE ANTENNE

Title (fr)  
ANTENNE DIÉLECTRIQUE

Publication  
**EP 2097946 A1 20090909 (EN)**

Application  
**EP 07823249 A 20071114**

Priority  
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Abstract (en)  
[origin: WO2008065241A1] A dualband dielectric antenna suitable for small radio devices. It has a chip substrate (720) with relatively high permittivity for reducing the size of the antenna. However, only a part (712, 713) of the radiating conductor is on the surface of the chip substrate the other part (711) being located adjacent to it so that the other part is surrounded by a material, the permittivity of which is substantially lower than that of the chip substrate. The surrounding material can be substantially of the material of a dielectric plate, onto which the chip substrate is fastened, or pure air. In the former case the whole substrate of the antenna then has two parts. The efficiency of the antenna improves compared to corresponding known antennas, because part of the radiating conductor travels on a substrate with lower permittivity, compared to the chip substrate. At the same time, the lower band which is in practice relatively narrow can be widened.

IPC 8 full level  
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