

Title (en)
ANTENNA COMPONENT

Title (de)
ANTENNENKOMPONENTE

Title (fr)
COMPOSANT D ANTENNE

Publication
EP 1859507 A1 20071128 (EN)

Application
EP 05803705 A 20051108

Priority
• FI 2005050401 W 20051108
• FI 2005050089 W 20050316
• FI 2005050247 W 20050628

Abstract (en)
[origin: WO2006097567A1] An antenna component (200) with a dielectric substrate and two radiating antenna elements. The elements are located on the upper surface of the substrate and there is a narrow slot (260) between them. The antenna feed conductor (241) is connected to the first antenna element (220), which is connected also to the ground by a short-circuit conductor (261). The second antenna element (230) is parasitic; it is galvanically connected only to the ground. The component is preferably manufactured by a semiconductor technique by growing a metal layer e.g. on a quartz substrate and removing a part of it so that the antenna elements remain. In this case the component further comprises supporting material (212) of the substrate chip. The antenna component is very small-sized because of the high dielectricity of the substrate to be used and mostly because the slot between the antenna elements is narrow. The efficiency of an antenna made by the component is high.

IPC 8 full level
H01Q 1/24 (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/04** (2006.01)

CPC (source: EP)
H01Q 1/243 (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/378** (2015.01); **H01Q 9/0421** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006097567 A1 20060921; EP 1859507 A1 20071128; EP 1859507 A4 20120815

DOCDB simple family (application)
FI 2005050401 W 20051108; EP 05803705 A 20051108