

Title (en)
Patch antenna

Title (de)
Streifenleitungsantenne

Title (fr)
Antenne microbande

Publication
EP 1253667 B1 20031210 (EN)

Application
EP 02014037 A 19981223

Priority
• EP 02014037 A 19981223
• EP 98124588 A 19981223

Abstract (en)
[origin: EP1014486A1] The present invention relates to a patch antenna comprising a ground element (3; 11, 12) being electrically conductive, a resonator element (2; 8, 9; 13, 14) being electrically conductive, and a solid dielectric element (4) located between the resonator element and the ground element, whereby the ground element (3; 11, 12) and the resonator element (2; 8, 9; 13, 14) are electrically connected at a first end of the resonator element so that a closed end is formed and not electrically connected at a second end of said resonator element so that an open end is formed. The solid dielectric element (4) is only provided in the region of the open end and not in the region of the closed end of the antenna, so that a lightweight antenna producible at low cost is provided. The patch antenna according to the present invention is particularly useful as internal antenna for GSM mobile phones. <IMAGE>

IPC 1-7
H01Q 9/04; **H01Q 1/24**

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

CPC (source: EP)
H01Q 1/243 (2013.01); **H01Q 9/0421** (2013.01); **H01Q 9/0471** (2013.01); **H01Q 9/0485** (2013.01)

Designated contracting state (EPC)
DE FI FR GB IT SE

DOCDB simple family (publication)
EP 1014486 A1 20000628; EP 1253667 A1 20021030; EP 1253667 B1 20031210

DOCDB simple family (application)
EP 98124588 A 19981223; EP 02014037 A 19981223