

Title (en)
Patch antenna

Title (de)
Patchantenne

Title (fr)
Antenne patch

Publication
EP 1672733 A1 20060621 (EN)

Application
EP 04029526 A 20041214

Priority
EP 04029526 A 20041214

Abstract (en)
Planar inverted antenna arrangement (PIFA) for a portable communication device, said antenna arrangement comprising: a first upper L-shaped antenna patch (12) to be connected to a ground plane (15) having ground potential (V1), and a second lower L-shaped transmission antenna patch (14) to be connected to a feeding potential (V2), said antenna patches (12, 14) being arranged adjacent to each other separated by a first gap (17a) forming a capacitance like structure to provide a frequency dependent capacitive feeding, wherein said second lower antenna patch (14) is separated by a second gap (17b) to the ground plane (15), which second gap (17b) comprises dielectric material.

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

CPC (source: EP)
H01Q 1/243 (2013.01); **H01Q 5/371** (2015.01); **H01Q 5/378** (2015.01); **H01Q 5/392** (2015.01); **H01Q 9/0421** (2013.01); **H01Q 19/005** (2013.01)

Citation (search report)
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• [X] EP 1351334 A1 20031008 - HEWLETT PACKARD CO [US]
• [X] US 2004108957 A1 20040610 - UMEHARA NAOKO [JP], et al

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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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
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