

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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