

Title (en)  
Dual-band F-slot patch antenna

Title (de)  
Dualband-Patchantenne mit F-Schlitz

Title (fr)  
Antenne Patch à fente F à double bande

Publication  
**EP 1973191 A1 20080924 (EN)**

Application  
**EP 07104441 A 20070319**

Priority  
EP 07104441 A 20070319

Abstract (en)  
A dual-band antenna includes a planar conductive layer comprising a conductive region and a central non-conductive region. The conductive region and the non-conductive region together define a pair of interconnected F-slot structures, and a loop strip structure coupled to and disposed around the F-slot patch slot antenna structures.

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 5/10** (2015.01); **H01Q 5/357** (2015.01); **H01Q 5/371** (2015.01); **H01Q 7/00** (2006.01); **H01Q 9/04** (2006.01); **H01Q 13/10** (2006.01)

CPC (source: EP)  
**H01Q 1/243** (2013.01); **H01Q 5/357** (2015.01); **H01Q 5/371** (2015.01); **H01Q 7/00** (2013.01); **H01Q 9/0407** (2013.01); **H01Q 9/0421** (2013.01); **H01Q 13/10** (2013.01)

Citation (applicant)  
• US 2006145927 A1 20060706 - CHOI WON-KYU [KR], et al  
• EP 0929121 A1 19990714 - NOKIA MOBILE PHONES LTD [FI]

Citation (search report)  
• [X] US 2006145927 A1 20060706 - CHOI WON-KYU [KR], et al  
• [X] EP 0929121 A1 19990714 - NOKIA MOBILE PHONES LTD [FI]

Cited by  
CN103311650A; CN105208148A; CN112332085A; WO2011016708A1; WO2016203889A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1973191 A1 20080924**; **EP 1973191 B1 20140521**; CA 2681242 A1 20080925; CA 2681242 C 20120731; EP 2385578 A2 20111109; EP 2385578 A3 20130403; EP 2385578 B1 20140521; WO 2008113172 A1 20080925

DOCDB simple family (application)  
**EP 07104441 A 20070319**; CA 2008000521 W 20080319; CA 2681242 A 20080319; EP 11168570 A 20070319