

Title (en)
Miniaturized multi-band antenna

Title (de)
Miniaturisierte Mehrbandantenne

Title (fr)
Antenne multibande miniaturisée

Publication
EP 1956679 A2 20080813 (EN)

Application
EP 08002385 A 20080208

Priority
CN 200710008052 A 20070209

Abstract (en)
A multi-band antenna (20, 40) includes a bent flat copper antenna forming a radiation surface (S2) to provide GSM-850/900/1800/1900 or GPS multi-band applications, and an auxiliary antenna (28, 48) coupled to the radiation surface (S2) provide WCDMA-2100 / UMTS-2100 multi-band applications. The radiation surface (S2) and the auxiliary antenna (28, 48) are coupled to generate the required bandwidth for multiple radiation bands and to optimize the gain of radiation, so that the multi-band antenna (20, 40) can provide a broad range of services.

IPC 8 full level
H01Q 1/24 (2006.01); **H01Q 1/36** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/371** (2015.01); **H01Q 9/42** (2006.01)

CPC (source: EP)
H01Q 1/243 (2013.01); **H01Q 1/36** (2013.01); **H01Q 5/371** (2015.01); **H01Q 9/42** (2013.01); **H01Q 21/30** (2013.01)

Citation (applicant)
• US 2004080457 A1 20040429 - GUO YONGXIN [SG], et al
• DE 10341310 A1 20040318 - HITACHI CABLE [JP]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 1956679 A2 20080813; **EP 1956679 A3 20080917**; CN 101242034 A 20080813; CN 101242034 B 20130313; DE 08002385 T1 20090226

DOCDB simple family (application)
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