

Title (en)
Miniaturized multi-band antenna

Title (de)
Miniaturisierte Mehrbandantenne

Title (fr)
Antenne multibande miniaturisée

Publication
EP 1956679 A3 20080917 (EN)

Application
EP 08002385 A 20080208

Priority
CN 200710008052 A 20070209

Abstract (en)
[origin: EP1956679A2] 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 (search report)

- [XY] US 2004080457 A1 20040429 - GUO YONGXIN [SG], et al
- [X] DE 10341310 A1 20040318 - HITACHI CABLE [JP]
- [X] US 2004090378 A1 20040513 - DAI HSIN KUO [TW], et al
- [X] EP 1750323 A1 20070207 - SONY ERICSSON MOBILE COMM AB [SE]
- [Y] JP 2002111344 A 20020412 - MITSUBISHI ELECTRIC CORP
- [Y] EP 1193797 A2 20020403 - SAMSUNG ELECTRONICS CO LTD [KR]
- [Y] WO 2006070233 A1 20060706 - NOKIA CORP [FI], et al
- [Y] EP 1432072 A1 20040623 - FILTRONIC LK OY [FI]

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)
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