Title (en)

Antenna, and associated method, for a multi-band radio device

Title (de)

Antenne und entsprechendes Verfahren für ein Multiband-Radiogerät

Title (fr)

Antenne et procédé correspondant pour dispositif radio multibande

Publication

EP 2028715 A1 20090225 (EN)

Application

EP 07114886 A 20070823

Priority

EP 07114886 A 20070823

Abstract (en)

Antenna apparatus, and an associated method, for a mobile station, or other radio device. A folded conducting strip is formed upon multiple sides of a cube-shaped, or other three-dimensional substrate of small dimensions. The conducting strip exhibits resonance at multiple frequencies, such as at frequencies encompassing the 800/900/1800/1900/2200 MHz frequencies. Because of the positioning of the conducting strip upon the multiple sides of the substrate, a conducting strip of increase length is provided while permitting the dimensional requirements of the antenna structure to be small. Multiple antennas are able to be positioned at the radio device to provide for multiple-input, multiple-output radio operation.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/357** (2015.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/357** (2015.01)

Citation (applicant)

- US 2002101382 A1 20020801 - KONISHI TAKAYOSHI [JP], et al
- EP 1162688 A1 20011212 - MURATA MANUFACTURING CO [JP]
- US 2003001781 A1 20030102 - KONISHI TAKAYOSHI [JP]
- US 2003142022 A1 20030731 - OLLIKAINEN JANI [FI], et al

Citation (search report)

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- [X] EP 1162688 A1 20011212 - MURATA MANUFACTURING CO [JP]
- [X] US 2003001781 A1 20030102 - KONISHI TAKAYOSHI [JP]
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- [A] WO 2006134701 A1 20061221 - MURATA MANUFACTURING CO [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 LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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