

Title (en)

Mobile wireless communications device with slotted antenna and related methods

Title (de)

Drahtlose mobile Kommunikationsvorrichtung mit Schlitzantenne und zugehörige Verfahren

Title (fr)

Dispositif mobile de communications sans fil doté d'une antenne à fente et procédés associés

Publication

EP 2503637 A1 20120926 (EN)

Application

EP 12156131 A 20120220

Priority

US 201161466823 P 20110323

Abstract (en)

A mobile wireless communication device (10) may include a multiple-band antenna (13) on an antenna carrier (14) and connected to a wireless transceiver (12). The multiple-band antenna may include an elongate base conductor having opposing first and second ends (25-26) and opposing first and second sides (27-28) extending between the first and second ends. The elongate base conductor may have a first L-shaped slot (20) with a proximal end (21) opening outwardly at the first side of the elongate base conductor adjacent the first end thereof and having a distal end (22) adjacent a medial portion of the elongate base conductor. The elongate base conductor may have a second L-shaped slot (16) with a proximal end (17) opening outwardly at the first side of the elongate base conductor adjacent the medial portion thereof and having a distal end (15) adjacent the second end of the elongate base conductor. The distal end of the second L-shaped slot may extend closer to the second end of the elongate base conductor than the distal end of the first L-shaped slot.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 9/04** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 9/04** (2013.01); **H01Q 9/0442** (2013.01)

Citation (search report)

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- [A] US 2009231213 A1 20090917 - ISHIMIYA KATSUNORI [JP]
- [A] JP 2008167420 A 20080717 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

WO2021169500A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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