

Title (en)  
Mobile wireless communications device having an antenna assembly with corner coupled rectangular base conductor portions and related methods

Title (de)  
Mobile drahtlose Kommunikationsvorrichtung mit einer Antennenanordnung mit eckgekoppelten, rechteckigen Leiterabschnitten sowie zugehörige Verfahren

Title (fr)  
Dispositif mobile de communications sans fil ayant un assemblage d'antenne avec parties des conducteurs rectangulaires couplés aux coins et procédés associés

Publication  
**EP 2528160 A1 20121128 (EN)**

Application  
**EP 11167349 A 20110524**

Priority  
EP 11167349 A 20110524

Abstract (en)  
A mobile wireless communications device (30) may include a portable housing (31), a substrate (32) carried by the portable housing, and wireless communications circuitry (33) carried by the substrate. The mobile wireless communications device may also include at least one antenna assembly (40) carried by the substrate and coupled to the wireless communications circuitry. The at least one antenna assembly may include an electrically conductive base conductor (41) having a first rectangular base portion (42a) and a second rectangular base portion (42b) offset therefrom. The first and second base portions may be coupled at respective diagonally opposing corners (48) thereof and having an antenna feed (43) defined along an outer portion of one of the first and second rectangular base portions. The at least one antenna assembly may include at least one electrically conductive arm (47) extending along at least one side of one of the first and second rectangular base portions and spaced apart therefrom.

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 9/04** (2006.01); **H01Q 21/28** (2006.01)

CPC (source: EP)  
**H01Q 1/243** (2013.01); **H01Q 9/0407** (2013.01); **H01Q 21/28** (2013.01)

Citation (search report)

- [I] JP H1093332 A 19980410 - NIPPON ANTENNA KK
- [I] US 7161540 B1 20070109 - LIU I-RU [TW]
- [A] JP 2003158419 A 20030530 - TDK CORP
- [A] EP 1094542 A2 20010425 - MATSUSHITA ELECTRIC IND CO LTD [JP]

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)  
**EP 2528160 A1 20121128**; **EP 2528160 B1 20150708**; CA 2777911 A1 20121124; CA 2777911 C 20160412

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