

Title (en)

Mobile wireless communications device including multi-loop folded monopole antenna and related methods

Title (de)

Mobile drahtlose Kommunikationsvorrichtung mit mehrfach gewundener gefalteter Monopolantenne und entsprechende Verfahren

Title (fr)

Dispositif de communication mobile sans fil incluant une antenne unipolaire repliée à spires multiples et procédés associés

Publication

EP 2034555 A1 20090311 (EN)

Application

EP 07115840 A 20070906

Priority

EP 07115840 A 20070906

Abstract (en)

A mobile wireless communications device may include a portable housing, a printed circuit board (PCB) carried within the portable housing, and wireless communications circuitry carried by the PCB within the portable housing. Furthermore, a folded monopole antenna may be coupled to the wireless communications circuitry. The folded monopole antenna may include a dielectric body having a generally rectangular shape defining a bottom portion adjacent the PCB and a top portion opposite the bottom portion. The antenna may also include a conductive trace having a bottom loop adjacent the bottom portion of the dielectric body, a top loop adjacent the top portion of the dielectric body, and an intermediate wrap-around section extending around the dielectric body and between the bottom and top loops.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/36** (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/42** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 1/36** (2013.01); **H01Q 1/38** (2013.01); **H01Q 9/42** (2013.01)

Citation (search report)

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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)

EP 07115840 A 20070906; AT 07115840 T 20070906; CA 2638104 A 20080905; DE 602007012101 T 20070906