

Title (en)

Mobile wireless communications device with multiple-band antenna and related methods

Title (de)

Drahtlose mobile Kommunikationsvorrichtung mit Mehrbandantenne und zugehörige Verfahren

Title (fr)

Dispositif de communication mobile sans fil incluant une antenne multi-bande et procédés associés

Publication

EP 2725656 B1 20150708 (EN)

Application

EP 12190062 A 20121025

Priority

EP 12190062 A 20121025

Abstract (en)

[origin: EP2725656A1] A mobile wireless communications device (20) may include a housing (22), a wireless transceiver (21) carried by the housing and having a primary output (55), and a secondary output (56), and a multiple-band antenna (23) carried by the housing and coupled to the wireless transceiver. The multiple-band antenna may include a dielectric substrate (24) and a pattern of electrically conductive traces thereon defining a primary radiator (26) and a secondary radiator (25) spaced apart from the primary radiator. The primary radiator may include a first elongate member (32) having a primary feed (27) coupled to the primary output, and a first reference member (33) spaced from the first elongate member and at least partially laterally surrounding the first elongate member and coupled to a reference voltage. The secondary radiator may include a second elongate member having a secondary feed (31) coupled to the secondary output.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/10** (2015.01); **H01Q 5/378** (2015.01); **H01Q 5/40** (2015.01); **H01Q 21/28** (2006.01)

CPC (source: EP)

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