

Title (en)

Mobile wireless communications device providing pattern/frequency control features and related method

Title (de)

Mobiles drahtloses Kommunikationsgerät mit Strahlungsdiagramm-/Frequenzsteuerungsmerkmalen und zugehöriges Verfahren

Title (fr)

Dispositif de communications sans fil mobile à caractéristiques de contrôle de fréquence/diagramme de rayonnement et procédé associé

Publication

EP 1691448 A1 20060816 (EN)

Application

EP 05250740 A 20050209

Priority

EP 05250740 A 20050209

Abstract (en)

A mobile wireless communications device may include a portable housing, a wireless transceiver carried by the portable housing, and a plurality of antennas also carried by the portable housing. Each antenna may have a different gain pattern at a different respective operating frequency, and the antennas may have different shapes to define different gain patterns at a given operating frequency. The mobile wireless communications device may further include a frequency/pattern diversity controller for controlling the wireless transceiver to preferentially operate with the plurality of antennas.

IPC 8 full level

H01Q 21/28 (2006.01); **H01Q 1/24** (2006.01); **H01Q 3/24** (2006.01); **H04B 7/08** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 3/24** (2013.01); **H01Q 21/28** (2013.01)

Citation (applicant)

- US 6476769 B1 20021105 - LEHTOLA ANTERO [FI]
- US 2002101377 A1 20020801 - CRAWFORD JAMES A [US]
- WO 03050917 A1 20030619 - SKYCROSS INC [US]
- EP 1189304 A2 20020320 - SONY CORP [JP]
- EP 1378962 A2 20040107 - FUJITSU LTD [JP]
- EP 1630977 A1 20060301 - RESEARCH IN MOTION LTD [CA]

Citation (search report)

- [Y] US 2004198473 A1 20041007 - TRAN ALLEN [US]
- [Y] US 2004130496 A1 20040708 - IJIMA HIROSHI [JP], et al
- [A] US 6476769 B1 20021105 - LEHTOLA ANTERO [FI]
- [A] US 2002101377 A1 20020801 - CRAWFORD JAMES A [US]
- [A] EP 1052785 A1 20001115 - ICO SERVICES LTD [GB]

Citation (examination)

- EP 1189304 A2 20020320 - SONY CORP [JP]
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EP2109230A1; CN101715247A; EP2173037A3; GB2445974A; GB2445974B; US8774856B2; WO2008054903A1; US8838027B2

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