

Title (en)

Mobile wireless communications device comprising a GPS antenna and electrically conductive director elements

Title (de)

Mobile Funkgerät mit einer GPS-Antenne und elektrisch leitfähigen Direktorelementen

Title (fr)

Dispositif de communication mobile sans fil comprenant une antenne GPS et des directeurs de rayonnement conductives

Publication

EP 1881559 A1 20080123 (EN)

Application

EP 07120103 A 20050531

Priority

EP 05253322 A 20050531

Abstract (en)

A mobile wireless communications device comprising: a portable housing; at least one wireless transceiver carried by said portable housing; a satellite positioning signal receiver carried by said portable housing; an antenna carried by said portable housing and connected to said satellite positioning signal receiver, characterized in that the mobile wireless communications device further comprises: at least one electrically conductive director element carried by said portable housing in spaced apart relation from said antenna and inductively coupled thereto for directing a beam pattern thereof skyward; said portable housing having an upper portion and a lower portion, and wherein said antenna is positioned adjacent the upper portion of said portable housing; and a cellular antenna carried adjacent the lower portion of the portable housing.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/38** (2006.01); **H01Q 1/52** (2006.01); **H01Q 19/22** (2006.01); **H01Q 19/28** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 1/245** (2013.01); **H01Q 1/38** (2013.01); **H01Q 1/52** (2013.01); **H01Q 19/22** (2013.01); **H01Q 19/28** (2013.01)

Citation (search report)

- [Y] US 2004063476 A1 20040401 - KATAGISHI MAKOTO [JP], et al
- [Y] US 6046703 A 20000404 - WANG GUAN-WU [TW], et al
- [YA] US 6492952 B1 20021210 - HU ANNIKA YIDONG [SE]
- [A] US 2004032370 A1 20040219 - ITO HIDEO [JP], et al
- [A] US 2003190896 A1 20031009 - OTA YASUHIKO [JP], et al
- [A] WO 0126181 A1 20010412 - RANGESTAR WIRELESS INC [US]
- [A] EP 1487051 A1 20041215 - RESEARCH IN MOTION LTD [CA]

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK RS

DOCDB simple family (publication)

EP 1732167 A1 20061213; CA 2546488 A1 20060911; CA 2546488 C 20080205; CN 100493237 C 20090527; CN 1867201 A 20061122; EP 1881559 A1 20080123; EP 2131447 A1 20091209; SG 127846 A1 20061229

DOCDB simple family (application)

EP 05253322 A 20050531; CA 2546488 A 20060525; CN 200610089991 A 20060531; EP 07120103 A 20050531; EP 09169878 A 20050531; SG 200603486 A 20060523