

Title (en)
Mobile wireless communications device comprising a satellite positioning system antenna and electrically conductive director element therefor

Title (de)
Mobiles Funkgerät mit einer GPS-Antenne und elektrisch leitfähigen Steuerelementen

Title (fr)
Dispositif de communication mobile sans fil comprenant une antenne GPS et des directeurs de rayonnement conductives

Publication
EP 1732167 A1 20061213 (EN)

Application
EP 05253322 A 20050531

Priority
EP 05253322 A 20050531

Abstract (en)
A mobile wireless communications device may include a portable housing, at least one wireless transceiver carried by the portable housing, and a satellite positioning signal receiver carried by the portable housing. An antenna may also be carried by the portable housing and connected to the satellite positioning signal receiver. Further, at least one electrically conductive director element may be carried by the portable housing in spaced apart relation from the antenna and inductively coupled thereto for directing a beam pattern thereof.

IPC 8 full level
H01Q 19/28 (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 19/22** (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 6492952 B1 20021210 - HU ANNIKA YIDONG [SE]
- [Y] US 6046703 A 20000404 - WANG GUAN-WU [TW], et al
- [A] CA 2414124 A1 20040612 - RESEARCH IN MOTION LTD [CA]
- [A] US 2004032370 A1 20040219 - ITO HIDEO [JP], et al

Cited by
EP2262201A4; GB2510318A; JP2014522595A; EP2704516A4; US9871545B2; US10013038B2; US9785174B2; US9871544B2; US10461406B2; US10044095B2; US10276922B2; US10224974B2; US10924145B2; US10893488B2; US9769769B2; US9813997B2

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 YU

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