Title (en)

GEOLOCATION OF A MOBILE STATION OF A WIRELESS TELEPHONY NETWORK

Title (de)

GEOLOKALOSIERUNG EINER MOBILSTATION EINES DRAHTLOSEN TELEKOMMUNIKATIONSNETZES

Title (fr)

GEOLOCALISATION D'UNE STATION MOBILE D'UN RESEAU DE TELEPHONIE SANS FIL

Publication

EP 2440947 A1 20120418 (FR)

Application

EP 10724778 A 20100604

Priority

- EP 2010057859 W 20100604
- FR 0902863 A 20090612

Abstract (en)

[origin: WO2010142615A1] The invention relates to a method for locating a mobile station inside an area covered by a wireless telephony cellular network in which the mobile station operates. The method comprises using the mobile station to measure the received power (PLX) on at least seven different communication channels of the network (step 200) and then locating the station according to said measurements and relevant predetermined information of the correspondence between received power on said channels and location within the covered area (step 210). The predetermined information can comprise power levels (PLiMj) previously measured on said channels at different locations (Li) and stored in a database (BD1), in which case the station is located by comparing the measurements (PLX) with the contents of the database (BD1). The method also enables greater locating accuracy, even inside buildings.

IPC 8 full level

G01S 5/02 (2010.01)

CPC (source: EP KR US)

G01S 5/02521 (2020.05 - EP); **G01S 5/02526** (2020.05 - EP KR US); **H04W 64/00** (2013.01 - KR); G01S 5/02528 (2020.05 - EP)

Citation (search report)

See references of WO 2010142615A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

WO 2010142615 A1 20101216; EP 2440947 A1 20120418; FR 2946825 A1 20101217; FR 2946825 B1 20110805; JP 2012529635 A 20121122; KR 20120034195 A 20120410; US 2012115510 A1 20120510

DOCDB simple family (application)

EP 2010057859 W 20100604; EP 10724778 A 20100604; FR 0902863 A 20090612; JP 2012514430 A 20100604; KR 20127000718 A 20100604; US 201013377642 A 20100604