

Title (en)

METHOD FOR INCREASING THE LOCATION ACCURACY FOR UNSYNCHRONIZED RADIO SUBSCRIBERS

Title (de)

VERFAHREN ZUR ERHÖHUNG DER ORTUNGSGENAUIGKEIT UNSYNCHRONISierter FUNKTEILNEHMER

Title (fr)

PROCÉDÉ POUR AUGMENTER LA PRÉCISION DE LOCALISATION D'APPAREILS D'UN RÉSEAU RADIO NON SYNCHRONISÉS

Publication

**EP 2188645 A1 20100526 (DE)**

Application

**EP 08786546 A 20080729**

Priority

- EP 2008059907 W 20080729
- DE 102007043649 A 20070913

Abstract (en)

[origin: WO2009037041A1] The invention relates to a method for increasing the location accuracy for unsynchronized radio subscribers, in which phase evaluation is used to ascertain the position of a transmitter which is to be located. The transmitter to be located and a further transmitter, whose location is known, respectively send a sequence of N signals to at least two receivers, wherein the transmission channel to be used for transmitting a signal is varied, in line with the invention, on the basis of a prescribed, symmetrical hopping scheme. The advantageous characteristics of the hopping scheme and the additional application of the TDOA (time difference of arrival) principle mean that highly accurate location is possible.

IPC 8 full level

**G01S 5/06** (2006.01)

CPC (source: EP US)

**G01S 5/06** (2013.01 - EP US)

Citation (search report)

See references of WO 2009037041A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**WO 2009037041 A1 20090326**; CN 101802636 A 20100811; DE 102007043649 A1 20090709; DE 102007043649 B4 20120322; EP 2188645 A1 20100526; US 2010309054 A1 20101209

DOCDB simple family (application)

**EP 2008059907 W 20080729**; CN 200880107131 A 20080729; DE 102007043649 A 20070913; EP 08786546 A 20080729; US 67800408 A 20080729