

Title (en)
METHOD AND SYSTEM FOR PROVIDING ENHANCED LOCATION BASED TRILATERATION

Title (de)
VERFAHREN UND SYSTEM ZUR BEREITSTELLUNG VON ERWEITERTER ORTSBASIERTER TRILATERATION

Title (fr)
PROCÉDÉ ET SYSTÈME DE LOCALISATION AMÉLIORÉE SELON LA TRILATÉRATION

Publication
EP 3245535 A4 20190109 (EN)

Application
EP 16737811 A 20160113

Priority
• US 201562102853 P 20150113
• US 201614993618 A 20160112
• US 2016013235 W 20160113

Abstract (en)
[origin: WO2016115242A1] Method, systems and devices for determining for performing enhanced location based trilateration include receiving location information (e.g., waypoints) from one or more external devices, determining the validity of the received location information, performing normalization operations to normalize the received location information, assigning an overall ranking and a device-specific ranking to the location information, and storing the validated and normalized location information in memory. The enhanced location based trilateration may also include selecting four locations (e.g., waypoints) from the memory based on a combination of the overall ranking and the device-specific ranking, and generating a final location value or waypoint based on a result of applying the four selected waypoints to a kalman filter. The output of the kalman filter may also be reported and/or used as the device's current location.

IPC 8 full level
G01S 5/02 (2010.01); **H04W 64/00** (2009.01)

CPC (source: CN EP KR US)
G01S 5/0072 (2013.01 - CN EP KR); **G01S 5/0263** (2013.01 - CN); **G01S 5/0284** (2013.01 - CN); **G01S 5/0289** (2013.01 - CN EP KR); **G01S 19/396** (2019.07 - EP); **G01S 19/46** (2013.01 - CN EP KR US); **G01S 19/48** (2013.01 - CN); **H04W 4/023** (2013.01 - CN); **H04W 4/025** (2013.01 - CN); **H04W 4/80** (2018.01 - CN); **H04W 4/90** (2018.01 - CN); **H04W 64/00** (2013.01 - CN EP KR)

Citation (search report)
• [Y] US 2013045759 A1 20130221 - SMITH CLINT [US]
• [Y] US 2014334463 A1 20141113 - LIPMAN JUSTIN [CN], et al
• [A] US 2010246438 A1 20100930 - POTKONJAK MIODRAG [US]
• [A] US 2011074569 A1 20110331 - ALSINDI NAYEF [BH], et al
• See references of WO 2016115242A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2016115242 A1 20160721; CA 2976775 A1 20160721; CN 107409275 A 20171128; CN 107409275 B 20210504; CO 2017008176 A2 20171031; EA 201791593 A1 20180131; EA 201791593 A8 20181130; EP 3245535 A1 20171122; EP 3245535 A4 20190109; KR 102458993 B1 20221025; KR 20170137042 A 20171212

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