

Title (en)  
WIDE AREA POSITIONING SYSTEM

Title (de)  
GROSSFLÄCHIGES POSITIONIERUNGSSYSTEM

Title (fr)  
SYSTÈME DE LOCALISATION ÉTENDU

Publication  
**EP 2638405 A2 20130918 (EN)**

Application  
**EP 11840035 A 20111114**

Priority  
• US 41317010 P 20101112  
• US 2011060655 W 20111114

Abstract (en)  
[origin: WO2012065184A2] Positioning systems and methods comprise a network of transmitters that broadcast positioning signals comprising ranging signals and positioning system information. A ranging signal comprises information used to measure a distance to a transmitter broadcasting the ranging signal. A reference sensor array comprising at least one reference sensor unit is positioned at a known location. A remote receiver includes an atmospheric sensor collecting atmospheric data at a position of the remote receiver. A positioning application is coupled to the remote receiver and generates a reference pressure estimate at the position of the remote receiver using the atmospheric and reference data from the reference sensor array. The positioning application computes the position of the remote receiver using the reference pressure estimate and information derived from at least one of the positioning signals and satellite signals that are signals of a satellite-based positioning system. The position includes an elevation.

IPC 8 full level  
**G01C 5/06** (2006.01); **G01R 5/08** (2006.01); **G01S 5/02** (2010.01); **G01S 19/45** (2010.01)

CPC (source: EP KR US)  
**G01S 5/02585** (2020.05 - EP KR US); **G01S 19/03** (2013.01 - KR); **G01S 19/10** (2013.01 - KR); **G01S 19/12** (2013.01 - KR); **G01S 19/45** (2013.01 - EP)

Cited by  
CN108351336A

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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012065184 A2 20120518; WO 2012065184 A3 20120705**; AU 2011325913 A1 20130523; AU 2011325913 B2 20150820; AU 2015258307 A1 20160128; CA 2817115 A1 20120518; CN 103238041 A 20130807; CN 103238041 B 20180119; EP 2638405 A2 20130918; EP 2638405 A4 20140917; JP 2014503796 A 20140213; KR 20130113481 A 20131015

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