

Title (en)
NETWORK-ASSISTED GLOBAL POSITIONING SYSTEMS, METHODS AND TERMINALS INCLUDING DOPPLER SHIFT AND CODE PHASE ESTIMATES

Title (de)
NETZWERKUNTERSTÜTZTE GLOBALENAVIGATIONSSYSTEME, VERFARHEN UND ENDGERÄTE MIT DOPPLERVERSCHIEBUNGS-
UNDCODEPHASENSCHÄTZUNGEN

Title (fr)
SYSTEMES MONDIAUX DE POSITIONNEMENT ASSISTES PAR RESEAU, PROCEDES ET TERMINAUX UTILISANT DES ESTIMATIONS DE
DECALAGE DOPPLER ET DE PHASE DE CODE

Publication
EP 1581821 A4 20110216 (EN)

Application
EP 04700654 A 20040107

Priority
• US 2004001184 W 20040107
• US 43896703 P 20030109

Abstract (en)
[origin: WO2004063761A2] A mobile terminal is configured to receive wireless communications including GPS data from a terrestrial and/or satellite wireless network, and to perform pseudo-range measurements using the GPS data that is received. The mobile terminal may be configured to perform pseudo-range measurements by receiving GPS coarse/acquisition (C/A) signals from GPS satellites, estimating Doppler shifts in the received GPS C/A signals, and estimating received code phases of the GPS C/A signals using the Doppler shifts that are estimated. The estimated code phases and/or the estimated Doppler shifts of the GPS C/A signals can provide the pseudo-range measurements. By removing the Doppler shift from the received signal samples prior to performing the code phase measurement, reduced computational complexity and/or processing time may be obtained.

IPC 1-7
G01S 1/00

IPC 8 full level
A61P 15/18 (2006.01); **G01S 1/00** (2006.01); **G01S 5/02** (2010.01); **G01S 19/05** (2010.01); **G01S 19/09** (2010.01)

CPC (source: EP US)
A61P 15/18 (2017.12 - EP); **G01S 19/05** (2013.01 - EP); **G01S 19/09** (2013.01 - EP); **G01S 19/46** (2013.01 - EP US)

Citation (search report)
• [X] WO 9728455 A1 19970807 - STANFORD TELECOMM INC [US]
• See references of WO 2004063761A2

Citation (examination)
• EP 1152255 A2 20011107 - LUCENT TECHNOLOGIES INC [US]
• EP 1008863 A2 20000614 - GEN ELECTRIC [US]
• EP 0874248 A2 19981028 - LOCKHEED CORP [US]
• EP 0902554 A2 19990317 - LUCENT TECHNOLOGIES INC [US]

Designated contracting state (EPC)
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DOCDB simple family (publication)
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AU 2004204511 C1 20091008; AU 2008203159 A1 20080807; AU 2008203159 B2 20091203; AU 2008203159 C1 20100603;
CA 2512271 A1 20040729; CA 2512271 C 20171219; EP 1581821 A2 20051005; EP 1581821 A4 20110216; MX PA05007410 A 20050912

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US 2004001184 W 20040107; AU 2004204511 A 20040107; AU 2008203159 A 20080716; CA 2512271 A 20040107; EP 04700654 A 20040107;
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