

Title (en)

METHOD AND APPARATUS FOR RECONSTRUCTING TIME OF TRANSIT FROM ASSISTED OR WEAK SIGNAL GPS OBSERVATIONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM REKONSTRUIEREN DER TRANSITZEIT AUS UNTERSTÜTZTEN ODER SCHWACHSIGNAL-GPS-BEOBACHTUNGEN

Title (fr)

PROCEDE ET APPAREIL PERMETTANT DE RECONSTRUIRE LA DUREE DE TRANSMISSION A PARTIR D'OBSERVATIONS DE GPS ASSISTE OU A FAIBLE SIGNAL

Publication

EP 1949126 A2 20080730 (EN)

Application

EP 06788960 A 20060728

Priority

- US 2006029702 W 20060728
- US 46078406 A 20060728
- US 70363705 P 20050729

Abstract (en)

[origin: WO2007016474A2] The invention provides a GPS device that resolves timing errors as applicable to an AGPS navigation solution. A single state algorithm provides rapid convergence, typical with standard Newton-Raphson performance. Problems due to ill-conditioning of the input matrix are identified by an augmented DOP calculation procedure, which may be used to identify unreliable results or to estimate the errors for those results.

IPC 8 full level

G01S 5/14 (2006.01); **G01S 19/25** (2010.01); **G01S 19/42** (2010.01)

CPC (source: EP)

G01S 19/256 (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007016474 A2 20070208; **WO 2007016474 A3 20070607**; **WO 2007016474 A9 20070419**; CA 2617142 A1 20070208; EP 1949126 A2 20080730; EP 1949126 A4 20100929

DOCDB simple family (application)

US 2006029702 W 20060728; CA 2617142 A 20060728; EP 06788960 A 20060728