Title (en)

METHOD AND APPARATUS FOR COMMUNICATION OF GPS EPHEMERIS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ÜBERMITTLUNG VON GPS-EPHEMERIS

Title (fr)

PROCEDE ET APPAREIL DE COMMUNICATION D'EPHEMERIDES GPS

Publication

EP 1639723 A4 20071024 (EN)

Application

EP 04750873 A 20040430

Priority

- US 2004013201 W 20040430
- US 48320903 P 20030627

Abstract (en)

[origin: WO2005006593A1] Satellite ephemeris data associated with satellite vehicles in a Global Positioning System (GPS) based position location system can be selectively transmitted to a mobile station within a wireless communication system. The mobile station can selectively request satellite ephemeris data from a Position Determination Entity (PDE) that is in communication with one or more GPS satellite vehicles (SV). The mobile station forecasts the satellite vehicles that theoretically are available. Then, the mobile station checks to see if valid ephemeris data is locally stored. If ephemeris data is desired and not locally available, the mobile station transmits a selective ephemeris request to the PDE and receives, in response to the request, the ephemeris corresponding to the SV identified in the ephemeris request. The selective ephemeris request and selective satellite update method can be implemented in accordance with presently available position location standards.

IPC 8 full level

G01S 1/00 (2006.01); **G01S 5/02** (2006.01); **G01S 19/05** (2010.01); **G01S 19/25** (2010.01); **H04B 7/185** (2006.01)

CPC (source: EP KR)

G01S 19/05 (2013.01 - EP KR); **G01S 19/258** (2013.01 - EP KR)

Citation (search report)

- [XA] WO 9944073 A1 19990902 - ERICSSON INC [US]
- [XA] US 2002168988 A1 20021114 - YOUNIS SAED [EG]
- See references of WO 2005006593A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2005006593 A1 20050120; BR PI0411920 A 20060829; CN 1930791 A 20070314; EP 1639723 A1 20060329; EP 1639723 A4 20071024; JP 2007521481 A 20070802; JP 2011047946 A 20110310; KR 20060065590 A 20060614; MX PA05014053 A 20060309

DOCDB simple family (application)

US 2004013201 W 20040430; BR PI0411920 A 20040430; CN 200480017279 A 20040430; EP 04750873 A 20040430; JP 2006517098 A 20040430; JP 2010205257 A 20100914; KR 20057025139 A 20051227; MX PA05014053 A 20040430