

Title (en)

USING DIGITAL TELEVISION BROADCAST SIGNALS TO PROVIDE GPS AIDING INFORMATION

Title (de)

VERWENDUNG VON DIGITALEN FERNSEHRUNDSSENDESIGNALEN ZUR BEREITSTELLUNG VON GPS-HILFSINFORMATIONEN

Title (fr)

UTILISATION DE SIGNAUX DE TELEVISION NUMERIQUE PERMETTANT D'OBTENIR DES INFORMATIONS D'ASSISTANCE DE GPS

Publication

EP 1454487 A1 20040908 (EN)

Application

EP 02795623 A 20021112

Priority

- US 0236221 W 20021112
- US 312801 A 20011114
- US 33198201 P 20011120

Abstract (en)

[origin: WO03043323A1] A method, apparatus, and computer-readable media fig.15 for providing satellite positioning system aiding information to a satellite positioning system receiver 1502 configured to determine the position of the satellite positioning system receiver using the satellite positioning system aiding information 1522 and the propagation time of a signal transmitted by a satellite in the satellite positioning system comprises providing the satellite positioning system aiding information 1522 providing a digital television signal 1506 comprising a plurality of frames, each frame comprising a plurality of data segments encoding the satellite positioning system aiding information as codewords replacing data segments within the digital television signal with the codewords and transmitting the digital television signal wherein the satellite positioning system receiver receives the digital television signal and recovers the satellite positioning system aiding information.

[origin: WO03043323A1] A method, apparatus, and computer-readable media (fig.15) for providing satellite positioning system aiding information to a satellite positioning system receiver (1502) configured to determine the position of the satellite positioning system receiver using the satellite positioning system aiding information (1522) and the propagation time of a signal transmitted by a satellite in the satellite positioning system comprises providing the satellite positioning system aiding information (1522) ; providing a digital television signal (1506) comprising a plurality of frames, each frame comprising a plurality of data segments; encoding the satellite positioning system aiding information as codewords; replacing data segments within the digital television signal with the codewords; and transmitting the digital television signal; wherein the satellite positioning system receiver receives the digital television signal and recovers the satellite positioning system aiding information.

IPC 1-7

H04N 7/12

IPC 8 full level

G01S 1/00 (2006.01); **H04N 7/24** (2006.01)

CPC (source: EP KR)

G01S 5/0036 (2013.01 - EP); **G01S 5/0054** (2013.01 - EP); **G01S 5/0081** (2013.01 - EP); **G01S 5/021** (2013.01 - EP); **G01S 5/14** (2013.01 - EP); **G01S 5/145** (2013.01 - EP); **G01S 19/05** (2013.01 - EP); **G01S 19/46** (2013.01 - EP); **H04N 7/12** (2013.01 - KR); **H04N 21/235** (2013.01 - EP); **H04N 21/435** (2013.01 - EP); **H04N 21/8126** (2013.01 - EP); **G01S 19/09** (2013.01 - EP); **G01S 19/10** (2013.01 - EP); **G01S 19/254** (2013.01 - EP); **G01S 19/256** (2013.01 - EP); **G01S 19/258** (2013.01 - EP)

Citation (search report)

See references of WO 03043323A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03043323 A1 20030522; CN 1586073 A 20050223; EP 1454487 A1 20040908; KR 100941196 B1 20100210; KR 20050044390 A 20050512

DOCDB simple family (application)

US 0236221 W 20021112; CN 02822464 A 20021112; EP 02795623 A 20021112; KR 20047007064 A 20021112