Title (en)

METHOD AND APPARATUS FOR PRECORRECTING TIMING AND FREQUENCY IN COMMUNICATION SYSTEMS

Title (de)

VERFAHREN UND EINRICHTUNG ZUR VORKORREKTUR VON ZEIT-UNDFREQUENZVERSCHIEBUNGEN IN ÜBERTRAGUNGSSYSTEMEN

Title (fr)

PROCEDE ET DISPOSITIF SERVANT A EFFECTUER LA CORRECTION PREALABLE DE LA SYNCHRONISATION ET DE LA FREQUENCE DANS DES SYSTEMES DE COMMUNICATION

Publication

EP 0929949 A1 19990721 (EN)

Application

EP 97945314 A 19970926

Priority

- US 9717380 W 19970926
- US 72349096 A 19960930

Abstract (en)

[origin: WO9815071A1] A method and apparatus for precorrecting timing and frequency in a communication system (100) that employs satellites (116, 118) to reduce timing uncertainty and frequency uncertainty due to satellite motion. A transmitted signal (410) is precorrected, or compensated (342), to account for effects based on known satellite mo tion as the transmitted signal propagates from the transmitter (120) to the satellite (116). Removing these effects reduces the amount of uncertainty in the transmitted signal when it arrives at the receiver (124), thereby making the task of signal reception easier.

IPC 1-7

H04B 7/01; H04B 7/212

IPC 8 full level

H04B 7/01 (2006.01); **H04B 7/185** (2006.01); **H04B 7/212** (2006.01)

CPC (source: EP KR)

H04B 7/01 (2013.01 - EP KR); **H04B 7/18513** (2013.01 - EP); **H04B 7/2125** (2013.01 - EP)

Citation (search report)

See references of WO 9815071A1

Citation (third parties)

Third party :

- US 5666648 A 19970909 - STUART JAMES R [US]
- US 5644572 A 19970701 - OLDS KEITH ANDREW [US], et al
- US 5566354 A 19961015 - SEHLOEMER JERRY R [US]

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CN106572045A

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AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9815071 A1 19980409; AU 4654397 A 19980424; AU 719962 B2 20000518; CA 2267169 A1 19980409; CN 1140068 C 20040225; CN 1238866 A 19991215; EP 0929949 A1 19990721; JP 2001501419 A 20010130; JP 2009201143 A 20090903; KR 100791824 B1 20080104; KR 20000049034 A 20000725; TW 448646 B 20010801; ZA 978516 B 19980610

DOCDB simple family (application)

US 9717380 W 19970926; AU 4654397 A 19970926; CA 2267169 A 19970926; CN 97180170 A 19970926; EP 97945314 A 19970926; JP 2009112965 A 20090507; JP 51670398 A 19970926; KR 19997003102 A 19990330; TW 86114248 A 19980321; ZA 978516 A 19970922