

Title (en)
DEVICE FOR TEMPORARILY OVERCOMING THE LOSS OF A SATELLITE NAVIGATION SIGNAL, FOR SATELLITE NAVIGATION-BASED DUAL TOLL SYSTEMS

Title (de)
EINRICHTUNG ZUR KURZFRISTIGEN ÜBERBRÜCKUNG DES AUSFALLS DES SATELLITENNAVIGATIONSSIGNALS FÜR DUALE SATELLITENNAVIGATIONSBASIERTE MAUTSYSTEME

Title (fr)
DISPOSITIF PERMETTANT DE SURMONTER TEMPORAIREMENT LA PERTE D'UN SIGNAL DE NAVIGATION PAR SATELLITE, DESTINE A DES SYSTEMES DE PEAGE ALTERNES FONDES SUR LA NAVIGATION PAR SATELLITE

Publication
EP 1442432 A1 20040804 (DE)

Application
EP 02776829 A 20021016

Priority
• AT 16802001 A 20011022
• DE 0203921 W 20021016

Abstract (en)
[origin: WO03038763A1] The invention relates to a method for electronically charging tolls, whereby actual position coordinates (OKO) of a vehicle are determined by means of at least one position fixing system, in order to determine if a toll road segment has been taken. Said position coordinates (OKO) are determined at least temporarily by means of a satellite-aided position fixing system (SGS). At least one signature (SIG), which is characteristic of the road segment taken by said vehicle, is calculated by means of said position coordinates of the vehicle (FA1, FA2). Said signature (SIG) permits the determination of whether the road segment taken is a toll road segment or not. At least in case of partial failure of said satellite-aided position fixing system (SGS), the position coordinates are determined by means of an inertial navigation system (TNS).

IPC 1-7
G07B 15/00; **G01C 21/00**

IPC 8 full level
G01C 21/28 (2006.01); **G07B 15/06** (2011.01)

CPC (source: EP US)
G01C 21/28 (2013.01 - EP US); **G07B 15/063** (2013.01 - EP US)

Citation (search report)
See references of WO 03038763A1

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 03038763 A1 20030508; BR 0213450 A 20041109; CA 2464286 A1 20030508; CN 1575481 A 20050202; EP 1442432 A1 20040804; HR P20040458 A2 20050430; HU P0402035 A2 20050228; PL 369218 A1 20050418; RU 2004115631 A 20051110; US 2005071175 A1 20050331

DOCDB simple family (application)
DE 0203921 W 20021016; BR 0213450 A 20021016; CA 2464286 A 20021016; CN 02820923 A 20021016; EP 02776829 A 20021016; HR P20040458 A 20040521; HU P0402035 A 20021016; PL 36921802 A 20021016; RU 2004115631 A 20021016; US 49353904 A 20040422