

Title (en)

HYBRIDIZATION DEVICE WITH SEGREGATED KALMAN FILTERS

Title (de)

HYBRIDISIERUNGSEINRICHTUNG MIT GETRENNTEN KALMANFILTERN

Title (fr)

DISPOSITIF D'HYBRIDATION A FILTRES DE KALMAN SEGREGES

Publication

EP 2366116 A1 20110921 (FR)

Application

EP 09771565 A 20091216

Priority

- EP 2009067333 W 20091216
- FR 0858726 A 20081217

Abstract (en)

[origin: WO2010070011A1] The invention relates according to a first aspect to a hybridization device (1) comprising a virtual platform (2) calculating inertial measurements (PPVI), a bank (3) of Kalman filters each formulating a hybrid navigation solution on the basis of the inertial measurements of the virtual platform (2) and of measurements of signals emitted by a constellation of satellites, which measurements are delivered by a satellite positioning system (GNSS), characterized in that it comprises, for each filter of the bank, a module for correcting the satellite measurements (4) delivering to the filter the measurements of the satellite positioning system (GNSS) which are used by the filter after correction with the aid of the hybrid navigation solution formulated by the filter.

IPC 8 full level

G01S 5/14 (2006.01); **G01C 21/16** (2006.01); **G01S 1/00** (2006.01)

CPC (source: EP US)

G01C 21/165 (2013.01 - EP US); **G01S 19/47** (2013.01 - EP US)

Citation (search report)

See references of WO 2010070011A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

FR 2939901 A1 20100618; **FR 2939901 B1 20110218**; EP 2366116 A1 20110921; US 2011243194 A1 20111006; US 8625696 B2 20140107; WO 2010070011 A1 20100624

DOCDB simple family (application)

FR 0858726 A 20081217; EP 09771565 A 20091216; EP 2009067333 W 20091216; US 200913139720 A 20091216