Title (en)

METHOD AND DEVICE FOR POSITIONING DETERMINATION BY MEANS OF INERTIAL NAVIGATION, AND CALIBRATION SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR POSITIONSBESTIMMUNG MITTELS TRÄGHEITSNAVIGATION, UND KALIBRIERSYSTEM

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTERMINATION DE POSITION AU MOYEN D'UNE NAVIGATION INERTIELLE, ET SYSTÈME D'ÉTALONNAGE

Publication

EP 3894786 A1 20211020 (DE)

Application

EP 19836454 A 20191129

Priority

- DE 102018009913 A 20181211
- DE 2019000305 W 20191129

Abstract (en)

[origin: WO2020119841A1] In a method and with a device (100) for position determination by means of inertial navigation, a current position (103) is determined from a known starting position (104) and starting orientation by sensing accelerations and rotation rates. To do this, sensors (10) are used to sense accelerations and rotation rates, and the accelerations and rotation rates acting on the sensors (10) along or about three sensor axes are calculated. An evaluation device (13) is used to determine a position from the data of the individual sensors (10), and the vector components of the positions determined are then added in a weighted manner. The weightings are determined by calibration.

IPC 8 full level

G01C 21/16 (2006.01); **G01C 25/00** (2006.01)

CPC (source: EP US)

G01C 21/16 (2013.01 - US); **G01C 21/183** (2020.08 - EP US); **G01C 25/005** (2013.01 - EP US); **G01S 19/23** (2013.01 - US); **G01S 19/47** (2013.01 - US); **G01S 19/49** (2013.01 - US)

Citation (search report)

See references of WO 2020119841A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020119841 A1 20200618; DE 112019006140 A5 20211014; EP 3894786 A1 20211020; US 2021364652 A1 20211125

DOCDB simple family (application)

DE 2019000305 W 20191129; DE 112019006140 T 20191129; EP 19836454 A 20191129; US 202117345169 A 20210611