Title (en)
DETERMINING A STARTING POSITION OF A VEHICLE FOR LOCATING

Title (de)
ERMITTELN EINER AUSGANGSPOSITION EINES FAHRZEUGS FÜR EINE LOKALISIERUNG

Title (fr)
DÉTERMINER UNE POSITION DE DÉPART D'UN VÉHICULE POUR SA LOCALISATION

Publication
EP 4172564 A1 20230503 (DE)

Application
EP 21732875 A 20210614

Priority
• DE 102020208082 A 20200630
• EP 2021065895 W 20210614

Abstract (en)
[origin: WO2022002564A1] The invention relates to a method for determining a starting position of a vehicle for locating the vehicle by means of a control device, wherein - measurement data are received from an odometry sensor system and/or a GNSS sensor system of the vehicle, a first position and a range of uncertainty of the first position are determined on the basis of the received measurement data, at least one map section of a feature map having a plurality of stored features is received, wherein the map section has a position and an extension which superimposes the position and the range of uncertainty, measurement data are received from a LIDAR sensor, a radar sensor system and/or a camera sensor system and static features are extracted from the received measurement data, a first starting position of the vehicle is determined by comparing the static features extracted from measurement data to features stored in the map section. The invention furthermore relates to a locating method, a control device, a computer program and a machine-readable storage medium.

IPC 8 full level
G01C 21/16 (2006.01); **G01C 21/30** (2006.01); **G01C 21/36** (2006.01); **G05D 1/02** (2020.01); **G06T 7/73** (2017.01)

CPC (source: EP US)
G01C 21/165 (2013.01 - EP US); **G01C 21/30** (2013.01 - EP US); **G01C 21/3602** (2013.01 - EP US); **G01S 17/86** (2020.01 - US); **G01S 19/485** (2020.05 - US); **G06V 20/56** (2022.01 - EP); B60W 60/001 (2020.02 - US); G06T 7/74 (2017.01 - US); G06T 2207/10028 (2013.01 - US); G06T 2207/30252 (2013.01 - US)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020208082 A1 20211230; CN 116324338 A 20230623; EP 4172564 A1 20230503; JP 2023532729 A 20230731; JP 7458514 B2 20240329; US 2023204364 A1 20230629; WO 2022002564 A1 20220106

DOCDB simple family (application)
DE 102020208082 A 20200630; CN 202180047006 A 20210614; EP 2021065895 W 20210614; EP 21732875 A 20210614; JP 2022581433 A 20210614; US 202117998593 A 20210614