Title (en)

METHOD FOR LOCATING AUTONOMOUS VEHICLES

Title (de)

VERFAHREN ZUR LOKALISIERUNG VON AUTONOMEN FAHRZEUGEN

Title (fr)

PROCÉDÉ DE LOCALISATION POUR VÉHICULE AUTONOME

Publication

EP 4348179 A1 20240410 (FR)

Application

EP 22728611 A 20220512

Priority

- FR 2105131 A 20210517
- EP 2022062901 W 20220512

Abstract (en)

[origin: WO2022243151A1] The invention relates to a method for locating an autonomous vehicle (100) comprising position sensors (2), a path planning system (33), and motion actuators (41), characterised in that it comprises an iteration of the following steps: - a step (E1) of predicting the current position of the autonomous vehicle (100) which comprises receiving (E11) a previous estimated position (62) of the autonomous vehicle (100) obtained from a previous iteration of the method, receiving (E12) applied commands (67) by means of the motion actuators (41, 42, 43), calculating (E13) a commanded path (74) on the basis of the applied commands (67), and calculating (E14) an extrapolated position (71) of the autonomous vehicle (100) on the basis of said previous estimated position (62) and said commanded path (74); - an updating step (E2) which comprises calculating an updated estimated position (72) of the autonomous vehicle (100) taking into account a measured position (61) obtained from the position sensors (2) and the extrapolated position (71).

IPC 8 full level

G01C 21/16 (2006.01); **G01S 19/49** (2010.01)

CPC (source: EP)

G01C 21/165 (2013.01); **G01S 19/49** (2013.01); **G05D 1/0212** (2024.01)

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)

FR 3122920 A1 20221118; **FR 3122920 B1 20240223**; EP 4348179 A1 20240410; WO 2022243151 A1 20221124

DOCDB simple family (application)

FR 2105131 A 20210517; EP 2022062901 W 20220512; EP 22728611 A 20220512