

Title (en)

RECONCILIATION OF MAP DATA AND SENSOR DATA

Title (de)

ABGLEICH VON KARTENDATEN UND SENSORDATEN

Title (fr)

ALIGNEMENT DE DONNÉES CARTOGRAPHIQUES ET DE DONNÉES DE CAPTEUR

Publication

EP 4327051 A1 20240228 (DE)

Application

EP 22720628 A 20220404

Priority

- DE 102021204063 A 20210423
- EP 2022058842 W 20220404

Abstract (en)

[origin: WO202223267A1] The present invention relates to a device (14) for merging sensor data with map data, said device comprising: an input interface (24) for receiving sensor data from an environment sensor (18) having information concerning objects in an environment of a vehicle (12) and for receiving map data having information concerning the environment of the vehicle; an evaluation unit (26) for detecting visible traffic signs (20) in the environment of the vehicle based on the sensor data and for reading out previously known traffic signs in the environment of the vehicle from the map data; and an assignment unit (28) for assigning the visible traffic signs to the previously known traffic signs and for determining a safety parameter that indicates a probability of an accurate assignment. The present invention also relates to a control device (16), to a system (10), and to a method.

IPC 8 full level

G01C 21/30 (2006.01); **G01C 21/36** (2006.01)

CPC (source: EP US)

B60W 60/001 (2020.02 - US); **G01C 21/30** (2013.01 - EP US); **G01C 21/3602** (2013.01 - EP US); **G06V 20/582** (2022.01 - 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 102021204063 A1 20221027; CN 117321386 A 20231229; EP 4327051 A1 20240228; US 2024133697 A1 20240425; US 2024230342 A9 20240711; WO 202223267 A1 20221027

DOCDB simple family (application)

DE 102021204063 A 20210423; CN 202280029802 A 20220404; EP 2022058842 W 20220404; EP 22720628 A 20220404; US 202218556747 A 20220404