

Title (en)

VEHICLE DRIVING ASSISTANCE BY RELIABLE DETERMINATION OF OBJECTS IN DEFORMED IMAGES

Title (de)

FAHRASSISTENZ FÜR FAHRZEUG DURCH ZUVERLÄSSIGE BESTIMMUNG VON OBJEKTEN IN VERFORMTEN BILDERN

Title (fr)

ASSISTANCE À LA CONDUITE D'UN VÉHICULE, PAR DÉTERMINATION FIABLE D'OBJETS DANS DES IMAGES DÉFORMÉES

Publication

**EP 3931741 A1 20220105 (FR)**

Application

**EP 20709283 A 20200205**

Priority

- FR 1902003 A 20190227
- FR 2020050200 W 20200205

Abstract (en)

[origin: WO2020174142A1] A method assists the driving of an autonomous driving vehicle and sensor acquiring environment images having a first deformation, and comprises: - a first step (10) in which an acquired image is obtained, - a second step (20-70) in which the image is analysed by a neural network, formed with a database of non-deformed environment images and images of objects having the first deformation, in order to determine zones of interest comprising objects to which a second deformation is applied, which is the inverse of the first deformation, in order to obtain an intermediate zone of interest that is analysed with the neural network in order to determine its non-deformed object, then the first deformation is applied to the non-deformed object in order to obtain a deformed object that is detected in the obtained image in order to determine information representing it, and - a third step (80) in which a driving instruction is generated depending on the determined information.

IPC 8 full level

**G06K 9/00** (2006.01); **G06K 9/32** (2006.01); **G06K 9/62** (2006.01)

CPC (source: EP US)

**G06V 10/255** (2022.01 - EP US); **G06V 10/82** (2022.01 - EP US); **G06V 20/58** (2022.01 - EP US)

Citation (search report)

See references of WO 2020174142A1

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 2020174142 A1 20200903**; EP 3931741 A1 20220105; FR 3093054 A1 20200828; FR 3093054 B1 20210528

DOCDB simple family (application)

**FR 2020050200 W 20200205**; EP 20709283 A 20200205; FR 1902003 A 20190227