Title (en)

METHOD FOR CALCULATING AN AR-OVERLAY OF ADDITIONAL INFORMATION FOR A DISPLAY ON A DISPLAY UNIT, DEVICE FOR CARRYING OUT THE METHOD, AS WELL AS MOTOR VEHICLE AND COMPUTER PROGRAM

Title (de)

VERFAHREN ZUR BERECHNUNG EINER AR-EINBLENDUNG VON ZUSATZINFORMATIONEN FÜR EINE ANZEIGE AUF EINER ANZEIGEEINHEIT, VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS SOWIE KRAFTFAHRZEUG UND COMPUTERPROGRAMM

Title (fr)

PROCÉDÉ SERVANT AU CALCUL D'UNE INCRUSTATION À RÉALITÉ AUGMENTÉE D'INFORMATIONS SUPPLÉMENTAIRES POUR UN AFFICHAGE SUR UNE UNITÉ D'AFFICHAGE, DISPOSITIF SERVANT À METTRE EN OEUVRE LE PROCÉDÉ, AINSI QUE VÉHICULE AUTOMOBILE ET PROGRAMME INFORMATIQUE

Publication

EP 3759694 A1 20210106 (DE)

Application

EP 19705167 A 20190212

Priority

- DE 102018203121 A 20180302
- EP 2019053461 W 20190212

Abstract (en)

[origin: WO2019166222A1] The invention relates to a method for calculating an overlay of additional information for a display on a display unit (20), in particular a head-up display (HUD) of a vehicle (10) or data glasses. The overlay of additional information serves the purpose of supporting the driver in the longitudinal control of a vehicle (10). The overlaying of the additional information occurs in the form of augmented reality such that it is calculated in a contact analogue manner in relation to one or more objects in the environment of the vehicle (10). The position of a preceding vehicle (300) is detected. When approaching the oncoming or preceding vehicle (300), a spatially extended animation graphic is calculated, wherein the animation graphic has a grid shape consisting of a plurality of grid elements (305), which extends from the observer vehicle up to the oncoming or preceding vehicle (300). The spatial extension is calculated such that the driver of the observer vehicle (10) has the impression of a kinematic or dynamic movement of the spatial extension, such as translation and rotation.

IPC 8 full level

G06T 19/00 (2011.01); **B60R 1/00** (2006.01); **G01C 21/36** (2006.01)

CPC (source: EP US)

B60K 35/00 (2013.01 - US); **B60W 40/06** (2013.01 - US); **B60W 50/14** (2013.01 - US); **G01C 21/365** (2013.01 - EP); **G06T 19/006** (2013.01 - EP); B60K 35/28 (2024.01 - US); B60K 2360/165 (2024.01 - US); B60K 2360/177 (2024.01 - US); B60K 2360/178 (2024.01 - US); B60K 2360/179 (2024.01 - US); B60R 2300/205 (2013.01 - EP); B60W 2050/146 (2013.01 - US); B60W 2554/80 (2020.02 - 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

DOCDB simple family (publication)

DE 102018203121 A1 20190905; **DE 102018203121 B4 20230622**; CN 111937044 A 20201113; EP 3759694 A1 20210106; US 11904688 B2 20240220; US 2021046822 A1 20210218; WO 2019166222 A1 20190906

DOCDB simple family (application)

DE 102018203121 A 20180302; CN 201980016739 A 20190212; EP 19705167 A 20190212; EP 2019053461 W 20190212; US 201916977059 A 20190212