

Title (en)
METHOD FOR ASCERTAINING A REPLACEMENT TRAJECTORY, COMPUTER PROGRAM PRODUCT, PARKING ASSISTANCE SYSTEM AND VEHICLE

Title (de)
VERFAHREN ZUM ERMITTELN EINER ERSATZTRAJEKTORIE, COMPUTERPROGRAMMPRODUKT, PARKASSISTENZSYSTEM UND FAHRZEUG

Title (fr)
PROCÉDÉ DE CONFIRMATION D'UNE TRAJECTOIRE DE REMPLACEMENT, PRODUIT DE PROGRAMME INFORMATIQUE, SYSTÈME D'AIDE AU STATIONNEMENT ET VÉHICULE

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Application
EP 21737430 A 20210629

Priority
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Abstract (en)
[origin: WO2022008293A1] A method for ascertaining a replacement trajectory (ET) for a vehicle (100) that is able to be operated in an autonomous driving mode by way of a parking assistance system (110), involving: receiving (S1) a predefined trajectory (VT) that comprises at least a first section (A1) and a second section (A2) that are linked to one another at a direction of travel waypoint (WP), wherein a direction of travel (DIR) of the first section (A1) is different from a direction of travel (DIR) of the second section (A2), receiving (S2) a sensor signal (SIG) indicative of surroundings (200) of the vehicle (100), detecting (S3) an obstacle (210) in the surroundings (200) on the basis of the received sensor signal (SIG), calculating (S4) at least one collision point (KP), which is a point on the predefined trajectory (VT), at which a collision occurs between the vehicle (100) and the obstacle (210), on the basis of the predefined trajectory (VT), the detected obstacle (210) and a vehicle geometry of the vehicle (100), and ascertaining (S5) the replacement trajectory (ET) based on the at least one calculated collision point (KP), wherein the replacement trajectory (ET) links a starting point (ET1) on the predefined trajectory (VT) that is located before the collision point (KP) to an end point (ET2) on the predefined trajectory (VT) that is located after the collision point (KP), while avoiding the collision.

IPC 8 full level
B62D 15/02 (2006.01)

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Citation (search report)
See references of WO 2022008293A1

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