Title (en)

METHOD AND SYSTEM TO ASSESS THE RISK OF CHANGE OF TRAFFIC LANE DURING THE DRIVING OF A LEADING VEHICLE ON A ROADWAY WITH AT LEAST TWO NEIGHBOURING TRAFFIC LANES METHOD AND SYSTEM TO ASSESS THE RISK OF CHANGE OF TRAFFIC LANE DURING THE DRIVING OF A LEADING VEHICLE ON A ROADWAY WITH AT LEAST TWO NEIGHBOURING TRAFFIC LANES

Title (de)

VERFAHREN UND SYSTEM ZUR BEURTEILUNG DES RISIKOS EINES WECHSELS EINER FAHRSPUR WÄHREND DES FAHRENS FÜR EIN VORAUSFAHRENDES FAHRZEUG AUF EINER STRASSE MIT MINDESTENS ZWEI BENACHBARTEN FAHRSPUREN

Title (fr)

PROCÉDÉ ET SYSTÈME POUR ÉVALUER LE RISQUE DE CHANGEMENT DE VOIE DE CIRCULATION PENDANT LA CONDUITE D'UN VÉHICULE DE TÊTE SUR UNE CHAUSSÉE PRÉSENTANT AU MOINS DEUX VOIES DE CIRCULATION VOISINES

Publication

EP 3127104 A4 20171122 (EN)

Application

EP 15773978 A 20150323

Priority

- SE 1450387 A 20140401
- SE 2015050346 W 20150323

Abstract (en)

[origin: WO2015152794A1] The present invention relates to a method to assess the risk of change of traffic lane during the driving of a leading vehicle on a roadway with at least two neighbouring traffic lanes, comprising the step: to detect (S1) the presence of vehicles that are approaching the leading vehicle from behind. The method further comprises the steps: to determine, based on specifications concerning the extent of a specified traffic lane in which the leading vehicle is being driven, the extent of at least one neighbouring traffic lane based on continuously determined reference positions at the leading vehicle relative to the said neighbouring traffic lane, in order to determine a risk zone extending a specified extent in the said neighbouring traffic lane backwards from the said leading vehicle, and to take (S3) the presence of vehicles that are approaching the leading vehicle from behind in the said risk zone as a basis for taking action during a change of traffic lane. The present invention relates also to a system to assess the risk of change of traffic lane during the driving of a leading vehicle on a roadway with at least two neighbouring traffic lanes, and a motor vehicle comprising such a system. The present invention relates also to a computer program and a computer program product.

IPC 8 full level

G08G 1/16 (2006.01); **B60W 30/08** (2012.01); **B60W 30/12** (2020.01)

CPC (source: EP KR SE US)

B60W 30/08 (2013.01 - EP KR SE US); **B60W 30/09** (2013.01 - EP); **B60W 30/095** (2013.01 - EP); **B60W 30/12** (2013.01 - EP KR SE); **B60W 30/18163** (2013.01 - EP); **B60W 50/14** (2013.01 - EP KR); **G08G 1/16** (2013.01 - EP); **G08G 1/167** (2013.01 - EP KR SE); B60W 2050/143 (2013.01 - EP); B60W 2554/00 (2020.02 - EP); B60W 2554/802 (2020.02 - US); B60W 2554/804 (2020.02 - US)

Citation (search report)

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- See references of WO 2015152794A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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