

Title (en)
METHOD AND DEVICE FOR COLLISION AVOIDANCE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR KOLLISIONSVERMEIDUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF PERMETTANT D'ÉVITER DES COLLISIONS

Publication
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Application
EP 13727831 A 20130524

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• EP 2013060780 W 20130524

Abstract (en)
[origin: WO2014016012A1] The invention relates to a collision avoidance device and a collision avoidance method, wherein the following are provided: one or a plurality of first environment sensors (11), the measured data from which supplies information regarding a distance of objects (4, 5) in the environment (2) of the vehicle (1); an evaluation and fusion device, which takes the measured data from the one or plurality of first environment sensors (11) to determine an environment map (30) of the vehicle (1), on the basis of which can be derived for individual regions in the environment (2) of the vehicle (1) probability information for an existence of an object (3, 4, 5) in said individual region; and a prediction device (24), which is designed to determine and make available control and/or warning information for a collision-free predicted movement of a vehicle component (61, 62) on the basis of the environment map (30), wherein the freedom from collision of the predicted movement is dependent on the probability of the existence of an object (3, 4, 5) in the at least one region (161, 162) marked out, wherein at least one second environment sensor (51, 52) is coupled to the evaluation and fusion device (22), which sensor is designed to detect a movement of an object (4, 5) relative to the vehicle (1) when the vehicle is stationary at least in one zone (110) of the environment (2) of the vehicle (1), which zone comprises the at least one marked out region (161, 162), and the evaluation and fusion device is designed to modify, on detection of a motion in the one zone (110), the environment map in such a way that at least the probability that may be derived from the environment map (30) for the at least one marked out region is modified.

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Opponent : Conti Temic microelectronics
• DE 102011010242 A1 20110811 - GM GLOBAL TECH OPERATIONS INC [US]
• WO 2009135538 A1 20091112 - BOSCH GMBH ROBERT [DE], et al
• DE 102008036009 A1 20091001 - VOLKSWAGEN AG [DE]
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