Title (en)

Method and system for forward collision avoidance in an automotive vehicle

Title (de)

Verfahren und System zur Vermeidung von Frontalzusammenstößen in einem Fahrzeug

Title (fr)

Procédé et système pour éviter une collision frontale dans un véhicule automobile

Publication

**EP 2211322 A1 20100728 (EN)**

Application

**EP 09151294 A 20090126**

Priority

EP 09151294 A 20090126

Abstract (en)

A forward collision avoidance system and a method therefore is provided. The presence and state of a target (10) in front of the host vehicle (2) is established. A risk zone is established in front of the host vehicle (2). The future path of the target (10) and the host vehicle (2) are predicted and the lateral position of the target (10) at a moment when the host vehicle (2) reaches the target in a longitudinal direction determined. If the target (10) is predicted as being able to stop before entering the risk zone it is predicted to do so just before entering the risk zone and no collision avoidance task is executed. If the target (10) is predicted as not being able to stop before entering the risk zone, then the future position of the target (10) is predicted using the assumption that the target (10) will continue to move according to an observation based motion model and a collision avoidance task is executed.

IPC 8 full level

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

CPC (source: EP)

**G08G 1/161** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

DE GB SE

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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