

Title (en)

METHOD AND ARRANGEMENT FOR GENERATING A REPRESENTATION OF SURROUNDINGS OF A VEHICLE, AND VEHICLE HAVING SUCH AN ARRANGEMENT

Title (de)

VERFAHREN UND ANORDNUNG ZUM ERZEUGEN EINER UMGEBUNGSREPRÄSENTATION EINES FAHRZEUGS UND FAHRZEUG MIT EINER SOLCHEN ANORDNUNG

Title (fr)

PROCÉDÉ ET ENSEMBLE DE GÉNÉRATION D'UNE REPRÉSENTATION DE L'ENVIRONNEMENT D'UN VÉHICULE ET VÉHICULE POURVU D'UN TEL ENSEMBLE

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Application

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Abstract (en)

[origin: WO2020043461A1] The invention relates to a method for generating a representation of surroundings of a vehicle (100), comprising: - determining a height profile of a vehicle surroundings; - capturing image information of the vehicle surroundings; - projecting the image information onto at least a part of a projection screen (22) for generating the representation of surroundings, wherein the projection screen (22) is produced in a raised manner at least in regions if the determined height profile displays a correspondingly raised structure (16) of the vehicle surroundings, and - generating a surroundings map of the vehicle (100) based on the representation of surroundings, by means of which a surroundings region of the vehicle (100) can be imaged, which is larger than a detection range of sensors used for determining the height profile and/or the image information. The invention further relates to an arrangement (10) for generating a surroundings representation of a vehicle (100) and to a vehicle (100) comprising such an arrangement (10).

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