

Title (en)

METHOD, COMPUTER PROGRAMME PRODUCT, CENTRAL CONTROL UNIT, AND CONTROL SYSTEM FOR CONTROLLING AT LEAST PARTIALLY AUTOMATED VEHICLES IN A ROAD DANGER ZONE, IN PARTICULAR ROAD JUNCTIONS IN ROAD TRAFFIC

Title (de)

VERFAHREN, COMPUTER-PROGRAMM-PRODUKT, ZENTRALE STEUERUNGSEINHEIT UND STEUERUNGSSYSTEM ZUM STEUERN ZUMINDEST TEILAUTOMATISierter FAHRZEUGE IN EINEM FAHRBAHN-GEFAHRENBEBEREICH, INSBESONDERE KREUZUNGEN VON FAHRBAHNEN IM STRASSENVERKEHR

Title (fr)

PROCÉDÉ, PRODUIT-PROGRAMME D'ORDINATEUR, UNITÉ DE COMMANDE CENTRALE ET SYSTÈME DE COMMANDE POUR COMMANDER DES VÉHICULES AU MOINS SEMI-AUTOMATISÉS DANS UNE ZONE DE VOIE DE CIRCULATION À RISQUE, NOTAMMENT DES CROISEMENTS DE VOIES DE CIRCULATION DANS LA CIRCULATION ROUTIÈRE

Publication

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Application

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Abstract (en)

[origin: WO2020127309A1] In order to control at least partially automated vehicles (FZ1...FZn) in a road danger zone (FGB), in particular road junctions (KZ, KZ') in road traffic, in such a way that said vehicles can pass through the road danger zone in flowing traffic without stop/start interruptions, such as those caused e.g. by signalling equipment, preferably traffic lights, the invention proposes the following steps: a) each vehicle (FZi, FZ2, FZ11, FZ14, FZ15, FZ18, FZ22, FZ31) of the vehicles (FZ1...FZn), on approaching the road danger zone (FGB, KZ, KZ'), surrender the power to control the dynamic driving tasks of the vehicle in order to pass through said zone, b) when the vehicles (FZ1...FZn) have surrendered vehicle control power, a central control entity (STGE, STER, CPP, PZ, SP, PGM) generates a digital road danger zone twin (FGBZ), by means of which, as a result of the vehicles having surrendered vehicle control power, vehicle movements of the vehicle (FZi, FZ2, FZ11, FZ14, FZ15, FZ18, FZ22, FZ31) are automatically and dynamically controlled in a vehicle-coordinated and collision-free manner in order to pass through the road danger zone (FGB, KZ, KZ').

IPC 8 full level

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CPC (source: EP US)

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DOCDB simple family (application)

EP 2019085705 W 20191217; EP 19829104 A 20191217; EP 19829106 A 20191217; EP 2019085702 W 20191217; EP 2019085703 W 20191217; SG 11202106338Y A 20191217; US 201917415414 A 20191217