

Title (en)
METHOD FOR DETECTING, PREDICTING AND PREVENTING OCCURRENCE OF FAILURES AND CONTINUITY CONTROL OF VEHICLES, SYSTEM PERFORMING SAID METHOD AND THE DEVICE USED IN SAID SYSTEM

Title (de)
VERFAHREN ZUR ERKENNUNG, VORHERSAGE UND VERHINDERUNG VON AUSFÄLLEN UND KONTINUITÄTSKONTROLLE VON FAHRZEUGEN, SYSTEM ZUR DURCHFÜHRUNG DES VERFAHRENS UND IN DEM SYSTEM VERWENDETE VORRICHTUNG

Title (fr)
PROCÉDÉ DE DÉTECTION, DE PRÉDICTION ET DE PRÉVENTION DE L'APPARITION DE DÉFAILLANCES ET DE CONTRÔLE DE CONTINUITÉ DE VÉHICULES, SYSTÈME METTANT EN OEUVRE LEDIT PROCÉDÉ ET DISPOSITIF UTILISÉ DANS LEDIT SYSTÈME

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Abstract (en)
The present invention discloses a diagnostic device plugged into vehicle's OBD port, including a main microcontroller; a communication microcontroller OBD/UART; a module for determining device location; a wireless communication module; a non-volatile memory, enabling writing and reading, preferably in the form of memory card; wherein the main microcontroller implements the following stages of the algorithm: recurring analysis of supply voltage, where after exceeding certain threshold diagnostic device is woken up from sleep mode; activation of modules determining device location and wireless communication in order to ensure connectivity with remote diagnostic system and ensure data on localization and current date and time; downloading current PID identifiers from the CAN bus; storing data in the non-volatile memory and transmitting them to remote diagnostic system with the use of wireless communication module; analysis continuation - PID identifiers analysis is continued if the supply voltage exceeds certain threshold, otherwise it goes back to sleep mode. Furthermore the invention discloses a method implemented by the device, and the use of both device and the method for detecting, predicting and preventing the occurrence of malfunction and controlling vehicle performance continuity, preferably in trucks.

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Citation (applicant)
• US 2020045622 W 20200810
• EP 2022052918 W 20220207

Citation (search report)
• [X] US 2021398363 A1 20211223 - OLALERE AYOBAMI ABAYOMI [CA]
• [X] GB 2578647 A 20200520 - CAURA LTD [GB]
• [I] US 2018182182 A1 20180628 - MEYER ULF [NL], et al

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