

Title (en)

VEHICLE UNIT AND METHOD FOR OPERATING THE VEHICLE UNIT

Title (de)

FAHRZEUGEINHEIT UND VERFAHREN ZUM BETREIBEN DER FAHRZEUGEINHEIT

Title (fr)

DISPOSITIF DE VÉHICULE ET PROCÉDÉ SERVANT À FAIRE FONCTIONNER LE DISPOSITIF DE VÉHICULE

Publication

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Application

**EP 12729145 A 20120625**

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Abstract (en)

[origin: WO2013000854A1] The invention describes a vehicle unit and a method for controlling vehicle functions with a microprocessor and connected memory, on which a main operating system which forms the hardware interface for application programs and user interactions is implemented. Provision is made for the microprocessor to be constructed in a microkernel architecture with separate partitions for a main operating system unit (1), a cryptographic unit (4) and a supervision unit (2), wherein the main operating system is set up in the main operating system unit (1), wherein software certificates are stored in the cryptographic unit (4) and a verification program for verifying certificates and software packages is set up therein, and wherein a monitoring program for monitoring the operation of the other partitions of the microkernel architecture is provided in the supervision unit (2).

IPC 8 full level

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**B60R 99/00** (2013.01 - EP US); **G06F 12/00** (2013.01 - EP US); **G06F 21/74** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2013000854A1

Citation (examination)

- DE 102007040094 A1 20090226 - CONTINENTAL AUTOMOTIVE GMBH [DE]
- NILSSON D K ET AL: "A Framework for Self-Verification of Firmware Updates over the Air in Vehicle ECUs", 2008 IEEE GLOBECOM WORKSHOPS; 30 NOV.-4 DEC. 2008; NEW ORLEANS, LA, USA, IEEE, PISCATAWAY, NJ, USA, 30 November 2008 (2008-11-30), pages 1 - 5, XP031405600, ISBN: 978-1-4244-3061-1

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