Title (en)
METHOD FOR CHECKING THE DATA INTEGRITY OF SOFTWARE IN CONTROL APPLIANCES

Title (de)
VERFAHREN ZUR ÜBERPRÜFUNG DER DATENINTEGRITÄT VON SOFTWARE IN STEUERGERÄTEN

Title (fr)
PROCEDE POUR VERIFIER L'INTEGRITE DES DONNEES D'UN LOGICIEL DANS DES APPAREILS DE COMMANDE

Publication
EP 1614012 A1 20060111 (DE)

Application
EP 04713887 A 20040224

Priority
• EP 2004001807 W 20040224
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Abstract (en)
[origin: WO2004090695A1] In order to check the data integrity of software for transmission errors and authenticity during a downloading process, the flashed data must be repeatedly checked. The access to program data stored in the flash memory, or the access time, is time-intensive. A long access time with complex calculations, such as an authenticity check, leads to long and unbearable delays, especially for control appliances in motor vehicles which generally have low calculation powers for financial reasons. According to the invention, the checking of program data for transmission errors and authenticity can be efficiently designed, if the calculation methods for checking for transmission errors and authenticity are carried out as long as the flash program is located in a buffer memory with a rapid access time. Time-intensive access to the flash memory is thus avoided. If, until now, the flash memory had to be accessed each time the flash program was checked, according to the inventive method, the flash memory need only be accessed once, in order to intermediately store the flash program in a buffer memory with rapid access time, for all required checks.

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G06F 1/00

IPC 8 full level
G06F 1/00 (2006.01); **G06F 9/445** (2006.01); **G06F 21/57** (2013.01)

CPC (source: EP US)
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DE

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