Title (en)

A circuit for detecting the state of electrical switches

Title (de)

Schaltung zur Zustandserkennung eines elektrischen Schalters

Title (fr)

Circuit pour détecter l'état d'un contact électrique

Publication

EP 1100100 B1 20061004 (EN)

Application

EP 00124515 A 20001109

Priority

IT TO990969 A 19991112

Abstract (en)

[origin: EP1100100A1] A circuit for detecting the state of electrical switches, for example, switches (SWi) in a motor vehicle, is described and comprises a network (B1, B2) which supplies the switches (SWi) and which can produce signals indicative of the operative state of each switch, and a control unit (P) which can correctly interpret the operative states of the switches (SWi). The supply network comprises first and second circuit branches (B1; B2) arranged, respectively, for continuously supplying a monitoring current and for selectively supplying a diagnosis current of substantially greater intensity than the monitoring current. The control unit (P) detects and compares the signals indicative of the state of each switch (SWi) which are acquired when the switch is supplied by the monitoring current or by the diagnosis current, and interprets the state of the switch (SWi) from a comparison thereof. <IMAGE>

IPC 8 full level

H01H 9/16 (2006.01); **G01R 31/02** (2006.01); H01H 1/00 (2006.01)

CPC (source: EP)

H01H 9/167 (2013.01); H01H 1/0015 (2013.01)

Cited by

CN105785264A; FR2841375A1; US7340437B2; FR3006462A1; FR3080399A1; IT201900006846A1; CN113825423A; US9908487B2; US7123018B2; US9266481B2; US12010769B2; WO2020230033A1

Designated contracting state (EPC)

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