

Title (en)  
ELECTRICAL FUNCTION GROUP FOR A VEHICLE

Publication  
**EP 0314949 B1 19930127 (DE)**

Application  
**EP 88116935 A 19881012**

Priority  
DE 3737289 A 19871103

Abstract (en)  
[origin: JPH01149384A] PURPOSE: To detect a loose of a plug-in connector by generating an alarm signal when an auxiliary circuit is open due to a loosened auxiliary contact. CONSTITUTION: A plug 1 has an auxiliary contact 12 shorter than an effective contact 11 and received by a contact bush 22 of a socket 2 in a closed state of a plug-in connector. An auxiliary circuit is closed through the auxiliary contact 12 grounded and the contact bush 22 is connected to a monitor 4. When the plug-in connector is loosened, the auxiliary contact 12 comes off the contact bush 22 of the socket 2 and an earth voltage is not applied to the monitor 4, generating an alarm signal W to alarm a loose connection of the plug-in connector.

IPC 1-7  
**B60R 16/02; H01R 13/66**

IPC 8 full level  
**B60R 16/02** (2006.01); **G08B 21/00** (2006.01); **H01R 13/641** (2006.01); **H01R 13/66** (2006.01)

CPC (source: EP US)  
**H01R 13/641** (2013.01 - EP US)

Cited by  
AU642559B2; DE19646816A1; DE4113710C1; EP0602804A3; EP0622870A3; US5655916A; CN109075502A; DE10309347B4; EP0471994A1; DE202016102603U1; US9531116B2; DE202016102037U1; WO2014019832A1; WO9528299A1; DE102016107169A1; WO2017182020A1; DE102016108989A1; WO2017194044A1; US10601156B2; US10756487B2

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