

Title (en)

Control circuit for glow plugs of diesel engine

Title (de)

Steuerschaltung für Glühkerzen eines Dieselmotors

Title (fr)

Circuit de commande de bougies de préchauffage de moteur diesel

Publication

EP 0756083 A1 19970129 (FR)

Application

EP 96401483 A 19960705

Priority

FR 9509170 A 19950727

Abstract (en)

The circuit includes a microprocessor (11) and a control stage (12) for the gate electrode (22) of the relay (e.g. power MOSFET) (2) whose source (23) is connected to the negative pole of the battery (30) via the glow plugs (31). A linking circuit (5) based on another MOSFET (50) with a threshold diode (54) and integrating capacitor (57) earths the microprocessor via the plugs. Besides taking away stray charges, this circuit supplies a reference voltage for comparison with that of the internal earth link (61). When the latter is isolated with the connector (3) unplugged, a resistive divider (55,56) has no reference and the relay gate voltage is low.

Abstract (fr)

Le circuit de commande comporte un calculateur (1) et au moins un relais électronique (2) contrôlé par le calculateur (1). Il est prévu des moyens (5) pour relier le calculateur à une tension de référence (masse) à travers les bougies (31). L'invention facilite les opérations d'entretien chez les garagistes. <IMAGE>

IPC 1-7

F02P 19/02

IPC 8 full level

F02P 19/02 (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)

F02P 19/02 (2013.01); **F02B 3/06** (2013.01)

Citation (search report)

- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 204 (M - 499) 17 July 1986 (1986-07-17)
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 141 (M - 1232) 9 April 1992 (1992-04-09)
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 432 (M - 1654) 11 August 1994 (1994-08-11)
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 452 (P - 943) 12 October 1989 (1989-10-12)

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