

Title (en)

Device and Method of controlling the actuator of a valve

Title (de)

Vorrichtung und Verfahren zum Steuern des Aktors eines Ventils

Title (fr)

Appareil et méthode de commande d'un actionneur de soupape

Publication

EP 1418328 A3 20081224 (DE)

Application

EP 03104122 A 20031107

Priority

DE 10252092 A 20021108

Abstract (en)

[origin: EP1418328A2] The piezoelectric actuator control system for fuel injector valves for an internal combustion engine has a charging and discharging circuit (6). This circuit has separate charging (S2) and discharging (S3) switches in parallel with diodes (D2,D3) and a transformer (3). A 12v power supply is connected to a transformer (2) and the primary (W1) of the switching transformer is connected in series with the charging switch and diode with a resistor (R2). The secondary (W2) of the switching transformer is connected in series with the discharging switch and diode with a resistor (R3). The charging and discharging circuit is connected to an ASIC (Application- Specific Integrated Circuit 8). The switching circuit is connected to an actuator (CP) in series with a selection switch (1) and a resistor (R1).

IPC 8 full level

F02D 41/20 (2006.01)

CPC (source: EP)

F02D 41/2096 (2013.01); **F02D 2041/2031** (2013.01); **F02D 2041/2037** (2013.01); **F02D 2041/2051** (2013.01)

Citation (search report)

[X] DE 19921456 A1 20001116 - BOSCH GMBH ROBERT [DE]

Cited by

EP1628010A3; US7617813B2; US7455051B2; WO2005121534A1; WO2006061113A1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

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