

Title (en)

DEVICE FOR CONTROLLING A PIEZOELECTRIC ACTUATOR

Title (de)

VORRICHTUNG ZUM ANSTEUERN EINES PIEZOELEKTRISCHEN STELLGLIEDES

Title (fr)

DISPOSITIF DE COMMANDE D'UN ORGANE DE REGLAGE PIEZOELECTRIQUE

Publication

EP 1371099 A2 20031217 (DE)

Application

EP 02753697 A 20020321

Priority

- DE 0201029 W 20020321
- DE 10113802 A 20010321

Abstract (en)

[origin: WO02078098A2] The invention relates to a device for controlling a piezoelectric actuator (Cp), in particular for a fuel-injection valve of an internal combustion engine, comprising an energy source (EQ), which supplies the actuator (Cp) with energy (E0), whereby the extension of the piezoelectric actuator (Cp) corresponds with a predetermined response to changes in temperature. The invention is characterised in that a compensation capacitor (C0) is connected in parallel to the piezoelectric actuator (Cp). The capacitance of said capacitor is calculated in such a way that the extension (Cp) of the actuator remains approximately constant over the temperature range, when supplied with a constant amount of energy (E0) by the energy source (EQ).

IPC 1-7

H01L 41/04; **F02D 41/20**

IPC 8 full level

F02D 41/20 (2006.01); **H01L 41/04** (2006.01); **H02N 2/06** (2006.01)

CPC (source: EP US)

F02D 41/2096 (2013.01 - EP US); **H02N 2/062** (2013.01 - EP US); **H10N 30/802** (2023.02 - EP US)

Citation (search report)

See references of WO 02078098A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02078098 A2 20021003; **WO 02078098 A3 20030530**; DE 10113802 A1 20021010; DE 10113802 B4 20071018; EP 1371099 A2 20031217; US 2004195936 A1 20041007; US 7034436 B2 20060425

DOCDB simple family (application)

DE 0201029 W 20020321; DE 10113802 A 20010321; EP 02753697 A 20020321; US 66777703 A 20030922