

Title (en)

METHOD AND DEVICE FOR CONTROLLING A PIEZO-ACTUATOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ANSTEUERUNG EINES PIEZOAKTORS

Title (fr)

PROCEDE ET DISPOSITIF POUR COMMANDER UN PIEZO-ACTIONNEUR

Publication

EP 1381764 A1 20040121 (DE)

Application

EP 02721984 A 20020226

Priority

- DE 0200698 W 20020226
- DE 10113670 A 20010321

Abstract (en)

[origin: DE10113670A1] The method involves at least partly charging or discharging the piezoelectric actuator (100) by applying an electrical current to vary its length. The operating situation of the internal combustion engine is detected and the time derivative of the voltage that can be tapped at the piezoelectric actuator during the charge/discharge time is selected depending on the operating situation. Independent claims are also included for the following: a controller for controlling a fuel injection system and a fuel injection system.

IPC 1-7

F02D 41/20

IPC 8 full level

F02D 41/08 (2006.01); **F02D 41/20** (2006.01); **F02D 41/38** (2006.01); **F02D 45/00** (2006.01); **F02M 47/00** (2006.01); **F02M 51/06** (2006.01); **H02N 2/06** (2006.01)

CPC (source: EP US)

F02D 41/2096 (2013.01 - EP US); **F02D 2041/2034** (2013.01 - EP US)

Citation (search report)

See references of WO 02077432A1

Cited by

DE102014204093A1

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)

DE 10113670 A1 20020926; DE 50206903 D1 20060629; EP 1381764 A1 20040121; EP 1381764 B1 20060524; JP 2004518884 A 20040624; US 2003150429 A1 20030814; US 6863055 B2 20050308; WO 02077432 A1 20021003

DOCDB simple family (application)

DE 10113670 A 20010321; DE 0200698 W 20020226; DE 50206903 T 20020226; EP 02721984 A 20020226; JP 2002575455 A 20020226; US 29734803 A 20030416