

Title (en)

METHOD FOR CHARGING A PIEZOELECTRIC ACTUATOR ON AN INJECTION VALVE AND CONTROLLER

Title (de)

VERFAHREN ZUM AUFLADEN EINES PIEZOELEKTRISCHEN AKTORS EINES EINSPRITZVENTILS UND STEUERGERÄT

Title (fr)

PROCEDE DE CHARGE D'UN ACTIONNEUR PIEZO-ELECTRIQUE D'UNE SOUPAPE D'INJECTION ET APPAREIL DE COMMANDE ASSOCIE

Publication

EP 1556603 B1 20100106 (DE)

Application

EP 03757703 A 20031009

Priority

- DE 0303346 W 20031009
- DE 10249218 A 20021022

Abstract (en)

[origin: WO2004038203A1] A method for charging a piezoelectric actuator (2) on an injection valve is disclosed, whereby the charging time (T1, T2) is varied in order to improve the injection properties of the injection valve. The charging time is preferably fixed depending on the pressure of the fuel. An increase in charging time leads to a reduced dependence of the injected amount of fuel on the control time and the fuel pressure. The disclosed method leads to an injection behaviour for the injection valve (1) the injected amount of fuel during which is less dependent on pressure variations and control time variations.

IPC 8 full level

F02D 41/20 (2006.01); **F02M 47/02** (2006.01)

CPC (source: EP)

F02D 41/2096 (2013.01); **F02D 2041/2031** (2013.01); **F02D 2041/2051** (2013.01); **F02D 2200/0602** (2013.01); **F02D 2200/0604** (2013.01); **F02D 2200/063** (2013.01); **F02M 47/027** (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 2004038203 A1 20040506; DE 10249218 A1 20040519; DE 50312322 D1 20100225; EP 1556603 A1 20050727; EP 1556603 B1 20100106

DOCDB simple family (application)

DE 0303346 W 20031009; DE 10249218 A 20021022; DE 50312322 T 20031009; EP 03757703 A 20031009