

Title (en)
METHOD AND DEVICE FOR CONTROLLING A VALVE AND METHOD AND DEVICE FOR CONTROLLING A PUMP-NOZZLE DEVICE WITH A VALVE

Title (de)
VERFAHREN UND VORRICHTUNG ZUM STEuern EINES VENTILS UND VERFAHREN UND VORRICHTUNG ZUM STEuern EINER PUMPE-D SE-VORRICHTUNG MI T DEM VENTIL

Title (fr)
PROCEDE ET DISPOSITIF POUR REGULER UNE SOUPAPE ET PROCEDE ET DISPOSITIF POUR REGULER UN ENSEMBLE INJECTEUR-POMPE AVEC CETTE SOUPAPE

Publication
EP 1704316 B1 20080423 (DE)

Application
EP 04803891 A 20041215

Priority
• EP 2004014271 W 20041215
• DE 10359675 A 20031218

Abstract (en)
[origin: US2006289670A1] A valve has a piezoelectric actuator with a valve element, a valve body and a valve seat. In order to control the valve, the valve element is moved into the valve seat from a position remote from the valve seat by means of a charging process at a prescribable first time. A first value is determined being characteristic of the electrical power supplied to the piezoelectric actuator when the valve element meets the valve seat. A second value is determined being characteristic of the electrical power supplied to the piezoelectric actuator when the charging process of the piezoelectric actuator is concluded. An actual difference value between the second value and the first value is determined. A difference between a setpoint difference value and the actual difference value is supplied to a controller. An actuating signal for charging the piezoelectric actuator is determined as a function of the actuating variable.

IPC 8 full level
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CPC (source: EP US)
F02D 41/2096 (2013.01 - EP US); **F02D 2041/1409** (2013.01 - EP US); **F02D 2200/0606** (2013.01 - EP US)

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US 2006289670 A1 20061228; US 7275522 B2 20071002; AT E393308 T1 20080515; CN 100529369 C 20090819; CN 1938509 A 20070328; DE 10359675 B3 20050707; DE 502004006965 D1 20080605; EP 1704316 A1 20060927; EP 1704316 B1 20080423; WO 2005059337 A1 20050630

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