

Title (en)
METHOD FOR OPERATING AN INJECTION VALVE

Title (de)
VERFAHREN ZUM BETREIBEN EINES EINSPRITZVENTILS

Title (fr)
PROCÉDÉ D'UTILISATION D'UN INJECTEUR

Publication
EP 2100020 A1 20090916 (DE)

Application
EP 07822494 A 20071112

Priority
• EP 2007062208 W 20071112
• DE 102006058744 A 20061212

Abstract (en)
[origin: WO2008071507A1] The invention relates to a method for operating an injection valve (10), in particular, a fuel injection valve on an internal combustion engine of a motor vehicle, the injection valve (10) comprising a piezoelectric actuator (12) for operating a valve needle (13), coupled to the actuator (12) preferably by hydraulic means. According to the invention, starting from an output voltage ($U_{>0</>}$) corresponding to a first operating state for the injection valve (10), the actuator (12) is recharged i.e. charged or discharged, to a target voltage ($U_{>1</>}$) corresponding to a second operating state of the injection valve (10), over a given voltage difference (?U).

IPC 8 full level
F02D 41/20 (2006.01)

CPC (source: EP US)
F02D 41/2096 (2013.01 - EP US); **F02D 2041/2051** (2013.01 - EP US)

Citation (search report)
See references of WO 2008071507A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102006058744 A1 20080619; CN 101558228 A 20091014; CN 101558228 B 20130710; EP 2100020 A1 20090916; EP 2100020 B1 20140402; JP 2010512485 A 20100422; JP 4868554 B2 20120201; US 2010065022 A1 20100318; US 8082903 B2 20111227; WO 2008071507 A1 20080619

DOCDB simple family (application)
DE 102006058744 A 20061212; CN 200780045920 A 20071112; EP 07822494 A 20071112; EP 2007062208 W 20071112; JP 2009540685 A 20071112; US 30458907 A 20071112