

Title (en)

METHOD FOR OPERATING A FUEL INJECTION DEVICE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM BETREIBEN EINER KRAFTSTOFF-EINSPRITZVORRICHTUNG EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE POUR FAIRE FONCTIONNER UN DISPOSITIF D'INJECTION DE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1841963 B1 20080827 (DE)**

Application

**EP 05815828 A 20051212**

Priority

- EP 2005056668 W 20051212
- DE 102005002242 A 20050118

Abstract (en)

[origin: US2008125952A1] A fuel injection device of an internal combustion engine includes a piezoelectric actuator and a valve element that are coupled to one another. The valve element has a pressure stage. An increase in the force acting on the piezoelectric actuator is interpreted as an actual opening of the valve element, and/or a decrease in the force acting on the piezoelectric actuator is interpreted as an actual closing of the valve element, and that these be taken into account at least part of the time in the controlling of the piezoelectric actuator.

IPC 8 full level

**F02D 41/20** (2006.01); **H01L 41/04** (2006.01)

CPC (source: EP US)

**F02D 41/2096** (2013.01 - EP US); **F02D 2041/1416** (2013.01 - EP US); **F02D 2041/2055** (2013.01 - EP US); **F02D 2200/063** (2013.01 - EP US)

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**US 2008125952 A1 20080529**; **US 7505846 B2 20090317**; AT E406512 T1 20080915; CN 100570140 C 20091216; CN 101103193 A 20080109; DE 102005002242 A1 20060720; DE 502005005226 D1 20081009; EP 1841963 A1 20071010; EP 1841963 B1 20080827; WO 2006076992 A1 20060727

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