

Title (en)

Metering device with flow calibrator and method for setting a flow rate of a metering device

Title (de)

Messvorrichtung mit Durchfluss-Kalibriereinrichtung sowie Verfahren zur Einstellung der Durchflussmenge der Messvorrichtung

Title (fr)

Dispositif de dosage avec calibre du débit et procédé pour ajuster le débit du dispositif de dosage

Publication

EP 1445477 B1 20060405 (EN)

Application

EP 03001633 A 20030124

Priority

EP 03001633 A 20030124

Abstract (en)

[origin: EP1445477A1] The invention relates to a metering device for dosing pressurized fluids, particularly an injection valve for a fuel injection system in an internal combustion engine, comprising a housing (12) having an end part provided with an outlet passage (14) terminating with a metering opening (16), an axially moveable valve needle (20) passing through the outlet passage (14), and controlling opening and closing of the metering opening (16), and a piezoelectric actuator (18) in axial alignment with the valve needle (20) and cooperating with the valve needle (20) to control its axial movement. A plastically deformable adjustment element (22) is arranged axially aligned between a bottom end piece (24) of the piezoelectric actuator (18) and a head (26) of the valve needle (20), wherein a plastic deformation of the adjustment element (22) regulates the axial spacing between the piezoelectric actuator (18) and the valve needle (20), thereby setting a flow rate for the metering device. <IMAGE>

IPC 8 full level

F02M 61/10 (2006.01); **F02M 61/16** (2006.01); **F02M 51/06** (2006.01); **F02M 61/08** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 51/0603 (2013.01); **F02M 61/161** (2013.01); **F02M 61/168** (2013.01)

Cited by

EP1865194A1; WO2012095384A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1445477 A1 20040811; **EP 1445477 B1 20060405**; DE 60304442 D1 20060518; DE 60304442 T2 20060824; JP 2004225687 A 20040812

DOCDB simple family (application)

EP 03001633 A 20030124; DE 60304442 T 20030124; JP 2003301930 A 20030826