

Title (en)

METHOD OF DETERMINING AN OPENING VOLTAGE OF A PIEZOELECTRIC INJECTOR

Title (de)

VERFAHREN ZUR BESTIMMUNG EINER ÖFFNUNGSSPANNUNG EINES PIEZOELEKTRISCHEN INJEKTORS

Title (fr)

PROCEDE DE DETERMINATION DE LA TENSION D'OUVERTURE D'UN INJECTEUR PIEZOELECTRIQUE

Publication

**EP 1999359 B1 20120229 (DE)**

Application

**EP 07712521 A 20070314**

Priority

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Abstract (en)

[origin: WO2007107484A1] Method of determining an opening voltage of an injector (12) having a piezoelectric actuator (28), in particular of an injector (12) of an internal combustion engine, wherein an initial voltage ( $U_{A}$ ) is applied to the piezoelectric actuator (28) in the closed state of the injector (12) and the voltage (U) for opening the injector (12) is lowered by energizing the piezoelectric actuator (28). The energizing is interrupted at a holding voltage ( $U_{H1}$ ,  $U_{H2}$ ,  $U_{H3}$ ,  $U_{Hn}$ ) and after that the voltage change ( $\Delta U$ ) applied to the piezoelectric actuator (28) is measured over time, wherein, when voltage rises, it is recognized that the opening voltage ( $U_{OE}$ ) is reached.

IPC 8 full level

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