

Title (en)

Method of determining fuel injector characteristics

Title (de)

Verfahren zur Bestimmung der Eigenschaften eines Brennstoffeinspritzventils

Title (fr)

Procédé de détermination de caractéristiques d'un injecteur de carburant

Publication

EP 2706216 A1 20140312 (EN)

Application

EP 12183485 A 20120907

Priority

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Abstract (en)

The invention concerns a method of operating an internal combustion engine with a fuel injection system comprising at least one fuel injector for performing injector events in a respective engine cylinder, the fuel injector being associated with an intermediate fuel tank of pressurized fuel. The method comprising the steps of: a) performing at least one injector event by applying to said fuel injector a drive pulse having a predetermined pulse width; b) measuring the resulting pressure in said intermediate fuel tank; c) repeating steps a) and b) with drive pulses of increased pulse width until a predetermined pulse width is reached; d) storing a test data set comprising data indicative of the rate of pressure loss for corresponding pulse widths; e) determining an injector characteristic from said test data set by detecting expected variations of said data indicative of said rate of pressure loss.

IPC 8 full level

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CPC (source: EP)

F02D 41/247 (2013.01); **F02D 41/221** (2013.01); **F02D 41/3863** (2013.01); **F02D 2200/0606** (2013.01); **F02D 2200/0618** (2013.01)

Citation (applicant)

- US 7136743 B2 20061114 - PELTIER DANIEL E [US]
- WO 2011073147 A1 20110623 - DELPHI TECH INC [US], et al

Citation (search report)

- [X] EP 2453124 A1 20120516 - DELPHI TECH HOLDING SARL [LU]
- [X] EP 2453123 A1 20120516 - MAGNETI MARELLI SPA [IT]
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