

Title (en)

Method for determining the fuel quantity fed by an injection pump to fuel injectors in a diesel engine

Title (de)

Verfahren zum Erfassen der von einer Einspritzpumpe eines Dieselmotors über die Einspritzdüsen geförderten Kraftstoffmenge

Title (fr)

Méthode pour déterminer la quantité de carburant fourni par une pompe à injection vers des buses d'injection dans un moteur diesel

Publication

EP 0742361 A3 19981014 (DE)

Application

EP 96100863 A 19960123

Priority

DE 19516923 A 19950509

Abstract (en)

[origin: EP0742361A2] The system detects the characteristic pressure curve for the fuel injection channels leading from the fuel pump to each of the fuel injection jets, for calculating the corresponding quantity of fuel, fed to a display (AZ). The characteristic pressure curves are normalised and the surface integral of normalised curve is calculated, with the actual fuel quantity calculated using a proportionality constant. The absolute volumetric measurement of the fuel quantity may also be provided as a check for at least one fuel injection channel.

IPC 1-7

F02D 41/38

IPC 8 full level

F02D 41/24 (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP)

F02D 41/28 (2013.01); **F02D 41/38** (2013.01); **F02D 2041/223** (2013.01); **F02D 2200/0602** (2013.01)

Citation (search report)

- [AD] DE 3118425 C2 19900607
- [A] EP 0228621 A1 19870715 - TOYOTA MOTOR CO LTD [JP], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 095, no. 001 28 February 1995 (1995-02-28)
- [A] POTZ D ET AL: "KORRELATIONSVERFAHREN ZUR EINSPRITZMENGENMESSUNG", MTZ MOTORTECHNISCHE ZEITSCHRIFT, vol. 51, no. 7 / 08, 1 July 1990 (1990-07-01), pages 298 - 304, XP000147934

Cited by

EP1884646A3; FR2790284A1; GB2321116A; GB2321116B; DE19740608A1; US6088647A; DE19740608C2; EP0907015A2

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DOCDB simple family (application)

EP 96100863 A 19960123; CN 96106012 A 19960506; DE 19516923 A 19950509; DE 59609080 T 19960123; ES 96100863 T 19960123