

Title (en)

Fuel pressure control device for high pressure fuel injection system

Title (de)

Kraftstoffdrucksteuervorrichtung für Hochdruckkraftstoffeinspritzsystem

Title (fr)

Dispositif de commande de pression pour système d'injection de carburant à haute pression

Publication

**EP 1031721 A2 20000830 (EN)**

Application

**EP 00102054 A 20000202**

Priority

JP 4619799 A 19990224

Abstract (en)

In a fuel pressure control apparatus for a high-pressure fuel injection system provided with a common rail (15), a supply pump (13) for force-feeding fuel to the common rail, and a fuel injection valve (17) attached to each cylinder of a diesel engine (1) and connected at one end to the common rail (15), an attempt is made to securely reduce a surplus of fuel pressure making use of a limited period during which normal fuel injection is not carried out. In exclusively performing pressure-release of fuel in the common rail (15) by driving the fuel injection valve (17) within an invalid injection period, the fuel injection valve (17) is driven in a cycle that does not depend on an operational condition of the engine (1), while adjusting a timing for driving the fuel injection valve (17) in such a manner as to prevent interference with the normal fuel injection control. <IMAGE>

IPC 1-7

**F02D 41/38**; **F02D 41/40**

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

JP H02191865 A 19900727 - NIPPON DENSO CO

Cited by

FR2833654A1; CZ309238B6; CN105189982A; EP2971709A4; FR2915774A1; FR3012177A1; EP1365136A3; CN103670758A; WO03054370A1; WO2014138955A1; US9885299B2

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