

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 A3 20030409 (EN)

Application

EP 00102054 A 20000202

Priority

JP 4619799 A 19990224

Abstract (en)

[origin: EP1031721A2] 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

F02M 37/00 (2006.01); **F02D 41/38** (2006.01); **F02M 55/02** (2006.01); **F02B 3/06** (2006.01); **F02D 41/12** (2006.01)

CPC (source: EP)

F02D 41/3872 (2013.01); **F02B 3/06** (2013.01); **F02D 41/123** (2013.01); **F02D 2200/0602** (2013.01); **F02D 2250/31** (2013.01)

Citation (search report)

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- [X] US 5711274 A 19980127 - DRUMMER EUGEN [AT]
- [A] DE 19731102 A1 19990121 - BOSCH GMBH ROBERT [DE]
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- [AD] PATENT ABSTRACTS OF JAPAN vol. 014, no. 478 (M - 1036) 18 October 1990 (1990-10-18)

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