

Title (en)

High pressure fuel injection system.

Title (de)

Hochdruck-Kraftstoffeinspritzsystem.

Title (fr)

Système d'injection de combustible à haute pression.

Publication

EP 0441738 A2 19910814 (EN)

Application

EP 91630010 A 19910207

Priority

US 47819990 A 19900207

Abstract (en)

The high pressure fuel injection system utilizes a pressure regulating or control valve (28) in an injector leak-off fuel conduit (26) to provide a high residual pressure within the injector (5) between injections. Maintaining a high residual fuel pressure boosts the injection pressure to provide improved fuel atomization, with consequent reductions in particulate emissions and increased fuel efficiency. The pressure regulating valve (28) may be controlled in accordance with engine operating conditions to provide a variable injection pressure boost commensurate with engine requirements.
<IMAGE>

IPC 1-7

F02M 47/00; **F02M 61/20**; **F02M 63/00**

IPC 8 full level

F02M 45/00 (2006.01); **F02M 47/00** (2006.01); **F02M 55/02** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)

F02M 45/00 (2013.01); **F02M 47/00** (2013.01); **F02M 55/002** (2013.01); **F02M 55/02** (2013.01); **F02M 61/205** (2013.01)

Cited by

EP0509954A1; DE19732674C1; DE19732674C2; EP0585171A1; FR2695169A1; US5381772A; WO0118388A1

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