

Title (en)

High pressure fuel injection system.

Title (de)

Hochdruck-Kraftstoffeinspritzsystem.

Title (fr)

Système d'injection de combustible à haute pression.

Publication

**EP 0441738 B1 19950412 (EN)**

Application

**EP 91630010 A 19910207**

Priority

US 47819990 A 19900207

Abstract (en)

[origin: EP0441738A2] 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 63/00**; **F02M 61/20**; **F02M 47/00**

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

Designated contracting state (EPC)

DE ES FR GB IT LU NL SE

DOCDB simple family (publication)

**EP 0441738 A2 19910814**; **EP 0441738 A3 19911218**; **EP 0441738 B1 19950412**; DE 69108755 D1 19950518; DE 69108755 T2 19950824

DOCDB simple family (application)

**EP 91630010 A 19910207**; DE 69108755 T 19910207