

Title (en)
HIGH PRESSURE FUEL INJECTION SYSTEM

Publication
EP 0441738 A3 19911218 (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)
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Citation (search report)
• [X] EP 0255350 A2 19880203 - AMBAC INTERNATIONAL CORP [US]
• [Y] DE 2801976 A1 19790719 - BOSCH GMBH ROBERT
• [A] US 4359032 A 19821116 - OHIE TOMONORI
• [A] GB 2004588 A 19790404 - KLOECKNER HUMBOLDT DEUTZ AG
• [A] GB 2086473 A 19820512 - DAIMLER BENZ AG

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

Designated contracting state (EPC)
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