

Title (en)
Common-Rail fuel injection system

Title (de)
Common-Rail Einspritzsystem

Title (fr)
Système d'injection de carburant de type Common-Rail

Publication
EP 0990792 A3 20030521 (DE)

Application
EP 99116319 A 19990819

Priority
CH 198798 A 19980930

Abstract (en)
[origin: EP0990792A2] The common-rail fuel injection system has a high pressure pump (16) with a reciprocating piston (20) displaced within a feed space (40), coupled to the pressure space (28) of the rail (14), for supplying the fuel injectors (22). The rail has a recess (36) acting as part of the feed space, coupled to the pressure space via a channel (32) containing a valve (30), a second valve (42) provided within the feed channel (44) for the high pressure pump.

IPC 1-7
F02M 63/02; **F02M 59/08**; **F02M 55/02**

IPC 8 full level
F02M 61/14 (2006.01); **F02M 55/02** (2006.01); **F02M 59/08** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)
F02M 55/025 (2013.01); **F02M 59/08** (2013.01); **F02M 63/0225** (2013.01)

Citation (search report)
• [X] EP 0685644 A2 19951206 - CUMMINS ENGINE CO INC [US]
• [X] WO 9427041 A1 19941124 - CUMMINS ENGINE CO INC [US], et al
• [DPX] EP 0915252 A2 19990512 - SIG SCHWEIZ INDUSTRIEGES [CH]

Cited by
CN102325994A; DE10136926C1; DE10136925C1; CN102770659A; ITTO20090715A1; DE10115859A1; ITUB20159428A1; DE10157135A1; DE10157135B4; US6776140B2; WO2010094367A1; WO02079635A1; WO2011033379A1; US6330876B1; US6745753B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0990792 A2 20000405; **EP 0990792 A3 20030521**; JP 2000110692 A 20000418

DOCDB simple family (application)
EP 99116319 A 19990819; JP 27910099 A 19990930