

Title (en)  
COMMON RAIL SYSTEM

Title (de)  
COMMON-RAIL-SYSTEM

Title (fr)  
SYSTEME D'INJECTION DIRECTE A RAMPE COMMUNE

Publication  
**EP 1317619 B1 20060329 (DE)**

Application  
**EP 01971670 A 20010829**

Priority  
• DE 0103303 W 20010829  
• DE 10044120 A 20000907

Abstract (en)  
[origin: WO0220976A1] Disclosed is a valve which is used to control a fluid, comprising an actuator unit (7) which is used to actuate an axially displaceable valve member (6) with an associated valve closing member (15), cooperating with a valve seat (23) in order to open and close the valve (1) and separating a high pressure area (3) from the valve (1). The fluid to be controlled is located in the high pressure area (3) at a working pressure (p-R). Said working pressure (p-R) and an over pressure occurring in specific circumstances are recorded by the actuator unit (7) which is embodied as a force measuring sensor. Said valve (1) is especially used as a pressure limiting valve in a common rail system.

IPC 8 full level  
**F02M 47/02** (2006.01); **F02D 41/20** (2006.01); **F02D 41/38** (2006.01); **F02M 47/00** (2006.01); **F02M 51/00** (2006.01); **F02M 51/06** (2006.01); **F02M 55/02** (2006.01); **F02M 59/46** (2006.01); **F02M 61/16** (2006.01); **F02M 63/02** (2006.01); **F02M 65/00** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)  
**F02D 41/2096** (2013.01); **F02D 41/3872** (2013.01); **F02M 47/027** (2013.01); **F02M 57/005** (2013.01); **F02M 61/167** (2013.01); **F02M 63/0026** (2013.01); **F02M 63/0225** (2013.01); **F02D 2200/0602** (2013.01); **F02M 2200/244** (2013.01); **F02M 2200/247** (2013.01); **F02M 2200/704** (2013.01); **F02M 2200/705** (2013.01)

Citation (examination)  
• DE 19954023 A1 20000531 - DENSO CORP [JP]  
• EP 0971119 A2 20000112 - ISUZU MOTORS LTD [JP]  
• EP 0790402 A2 19970820 - ISUZU MOTORS LTD [JP]

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

DOCDB simple family (publication)  
**WO 0220976 A1 20020314**; AT E321945 T1 20060415; CZ 20021537 A3 20031015; DE 10044120 A1 20020404; DE 50109392 D1 20060518; EP 1317619 A1 20030611; EP 1317619 B1 20060329; JP 2004508494 A 20040318

DOCDB simple family (application)  
**DE 0103303 W 20010829**; AT 01971670 T 20010829; CZ 20021537 A 20010829; DE 10044120 A 20000907; DE 50109392 T 20010829; EP 01971670 A 20010829; JP 2002525363 A 20010829