

Title (en)

Pressure regulating valve for an injection system

Title (de)

Druckbegrenzungsventil für ein Kraftstoffeinspritzsystem

Title (fr)

Soupape de limitation de pression pour un système d'injection de carburant

Publication

EP 1411238 B1 20060111 (DE)

Application

EP 03015658 A 20030717

Priority

- DE 10247976 A 20021015
- DE 10327411 A 20030618

Abstract (en)

[origin: EP1411238A1] The pressure-limiting valve (56) has a pressure side coupled to the high pressure region of the fuel injection system and a valve element (74) biased against a valve seat (72) and providing a hydraulic connection between an inlet and an outlet dependent on the pressure difference between them. The outlet of the pressure-limiting valve is coupled to the feed space (60) of a high pressure pump for the fuel injection system. An Independent claim for a fuel injection system for an IC engine is also included.

IPC 8 full level

F02M 37/00 (2006.01); **F02M 55/00** (2006.01); **F02M 55/04** (2006.01); **F02M 59/36** (2006.01); **F02M 59/44** (2006.01); **F02M 59/46** (2006.01); **F02M 63/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 55/04 (2013.01); **F02M 59/462** (2013.01); **F02M 59/466** (2013.01); **F02M 63/0036** (2013.01); **F02M 63/005** (2013.01); **F02M 63/0054** (2013.01); **F02M 63/0225** (2013.01); **F02M 63/0245** (2013.01); **F02M 59/366** (2013.01); **F02M 2200/315** (2013.01)

Cited by

EP1788231A1; US10247181B2; US2016160825A1; CN110700969A; DE102011005286B4; EP2011998A3; EP2055929A3; CN109154264A; EP1701032A1; CN102734022A; CN103967670A; CN102362061A; DE102009014072B4; CN105074195A; US2011259302A1; CN103314210A; US9200605B2; CN107532555A; EP3296558A4; CN111868370A; EP3088726A4; EP3252300A4; US2007110603A1; EP2287462A1; DE102011005286A1; US9644585B2; US8162623B2; US10253741B2; EP2780576A4; CN114502833A; US2022381213A1; US11713741B2; WO2011003789A1; WO2010060834A1; WO2017063990A1; WO2012095718A3; WO2013177021A1; US9016261B2; US10215143B2; US8092198B2; US8132558B2; WO2010106037A1; WO2015055411A1; US9291162B2; US10041457B2; WO2012123131A1; WO2014206639A1; WO2009021884A1; EP3218595B1; EP2497939A1; EP3002446A1; US9828958B2; EP3533992A1; US10788004B2

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