

Title (en)

High pressure fuel injection system with means for pressure wave damping

Title (de)

Hochdruckkraftstoffeinspritzsystem mit Mitteln zur Dämpfung von Druckwellen

Title (fr)

Système d'injection de carburant haute pression équipé de moyens d'atténuation des ondes de pression

Publication

**EP 1403510 B1 20100428 (FR)**

Application

**EP 03292276 A 20030916**

Priority

FR 0212048 A 20020930

Abstract (en)

[origin: EP1403510A1] The fuel injection system has symmetric or asymmetric resistive attenuators (71-72, 91-92) and capacitive attenuators (73,93) to attenuate hydraulic waves, particularly waves at a frequency corresponding to the resonant frequency of the injection system. The electronic controller (20) takes account of residual pressure fluctuations at different injectors (10a-10d).

IPC 8 full level

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

CPC (source: EP)

**F02M 55/04** (2013.01); **F02M 63/0225** (2013.01); **F02M 63/028** (2013.01); **F02D 2250/04** (2013.01); **F02M 59/366** (2013.01); **F02M 2200/315** (2013.01)

Cited by

FR2886350A1; US2015081195A1; WO2013127668A1; EP2529101A1; JP2013518208A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1403510 A1 20040331**; **EP 1403510 B1 20100428**; AT E466189 T1 20100515; DE 60332307 D1 20100610; FR 2845130 A1 20040402; FR 2845130 B1 20060428

DOCDB simple family (application)

**EP 03292276 A 20030916**; AT 03292276 T 20030916; DE 60332307 T 20030916; FR 0212048 A 20020930