

Title (en)

DEVICE FOR DAMPING PRESSURE PULSATIONS IN HIGH-PRESSURE INJECTION SYSTEMS

Title (de)

VORRICHTUNG ZUR DÄMPFUNG VON DRUCKPULSATIONEN IN HOCHDRUCKEINSPRITZSYSTEMEN

Title (fr)

DISPOSITIF POUR L'AMORTISSEMENT DE PULSATIONS DE PRESSION DANS DES SYSTEMES D'INJECTION HAUTE PRESSION

Publication

EP 1360409 B1 20061011 (DE)

Application

EP 02712738 A 20020201

Priority

- DE 0200372 W 20020201
- DE 10105031 A 20010205

Abstract (en)

[origin: DE10105031A1] The invention relates to a device for injecting fuel into the combustion chambers of an internal combustion engine. Said device comprises a pump (2) which supplies a high-pressure collecting chamber (3) with fuel under high pressure. A high pressure supply line leads from said chamber to an injector (5) containing a metering valve (7) which pressurises an injection nozzle (24) by means of fuel. A damper throttle (26) is associated with the metering valve (7) and is connected to part of the high-pressure region.

IPC 8 full level

F02M 63/00 (2006.01); **F02M 55/00** (2006.01); **F02M 55/02** (2006.01); **F02M 59/46** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP US)

F02M 55/002 (2013.01 - EP US); **F02M 55/02** (2013.01 - EP US); **F02M 63/0007** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 2200/315** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 10105031 A1 20020814; DE 50208410 D1 20061123; EP 1360409 A2 20031112; EP 1360409 B1 20061011; JP 2004518072 A 20040617; US 2003159678 A1 20030828; WO 02063162 A2 20020815; WO 02063162 A3 20021128

DOCDB simple family (application)

DE 10105031 A 20010205; DE 0200372 W 20020201; DE 50208410 T 20020201; EP 02712738 A 20020201; JP 2002562876 A 20020201; US 24093603 A 20030321