

Title (en)
Common-Rail Fuel Injection System with Pressure Wave Damping Means

Title (de)
Common Rail Einspritzsystem mit Druckwellendämpfungseinrichtung

Title (fr)
Dispositif d'injection à rampe commune avec amortissement des ondes de pression

Publication
EP 1614894 A1 20060111 (FR)

Application
EP 05300559 A 20050705

Priority
FR 0407586 A 20040707

Abstract (en)
The system has a hydraulic circuit comprising a distributor (16), and chambers (17, 19) in communication with the distributor through corresponding check valves (18, 20). The chambers communicate with each other through a balancing conduit (21). The chambers are connected near a fuel injection orifice and have a volume between 200 cubic millimeters to 600 cubic millimeters, where a wall of one of the chambers is elastic.

IPC 8 full level
F02M 55/02 (2006.01); **F02M 63/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 63/0225 (2013.01); **F02M 2200/315** (2013.01); **F02M 2200/40** (2013.01)

Citation (applicant)
EP 1217202 A1 20020626 - RENAULT [FR]

Citation (search report)

- [X] WO 02092998 A1 20021121 - BOSCH GMBH ROBERT [DE], et al
- [A] EP 0995902 A2 20000426 - NIPPON SOKEN [JP], et al
- [DA] EP 1217202 A1 20020626 - RENAULT [FR]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 12 29 October 1999 (1999-10-29)

Cited by
FR3047774A1; EP3040550A1; JP2016136017A; US10006396B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1614894 A1 20060111; **EP 1614894 B1 20090916**; AT E443207 T1 20091015; DE 602005016630 D1 20091029; FR 2872865 A1 20060113; FR 2872865 B1 20090116

DOCDB simple family (application)
EP 05300559 A 20050705; AT 05300559 T 20050705; DE 602005016630 T 20050705; FR 0407586 A 20040707