

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 B1 20090916 (FR)**

Application  
**EP 05300559 A 20050705**

Priority  
FR 0407586 A 20040707

Abstract (en)  
[origin: EP1614894A1] 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)

Cited by  
FR3047774A1; EP3040550A1; JP2016136017A; US10006396B2

Designated contracting state (EPC)  
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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

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