

Title (en)  
FUEL INJECTION SYSTEM

Title (de)  
KRAFTSTOFFEINSPRITZSYSTEM

Title (fr)  
SYSTEME D'INJECTION DE CARBURANT

Publication  
**EP 1490595 A1 20041229 (EN)**

Application  
**EP 03713146 A 20030314**

Priority  
• SE 0300435 W 20030314  
• SE 0200944 A 20020326

Abstract (en)  
[origin: WO03081025A1] A fuel injection system for an internal combustion engine comprises a nozzle (2) with an inlet and a cam-driven plunger (5) forming a plunger chamber (7) which is connected to the inlet of the nozzle. The injection system also comprises a common rail (10) for fuel and a control valve (9) installed between the plunger chamber (7) and the common rail (10), wherein the control valve is able to open or close hydraulic communication between the plunger chamber and the common rail upon receiving an electrical control command. An electrically actuated nozzle control valve (21) is used for opening and closing of the nozzle (2). The system also comprises a means (11) for pressurizing the common rail and regulating pressure of the fuel in the common rail (10).

IPC 1-7  
**F02M 63/00**; **F02M 61/20**

IPC 8 full level  
**F02M 47/02** (2006.01); **F02M 51/06** (2006.01); **F02M 57/02** (2006.01); **F02M 59/20** (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)  
**F02M 47/027** (2013.01); **F02M 51/0603** (2013.01); **F02M 57/023** (2013.01); **F02M 63/0007** (2013.01); **F02M 63/0225** (2013.01)

Citation (search report)  
See references of WO 03081025A1

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)  
**WO 03081025 A1 20031002**; AU 2003217113 A1 20031008; BR 0308590 A 20050209; CN 100356058 C 20071219; CN 1625650 A 20050608; EP 1490595 A1 20041229; JP 2005520983 A 20050714; NO 20044303 L 20041011; PL 371655 A1 20050627; RU 2004131572 A 20060120; RU 2302550 C2 20070710; SE 0200944 D0 20020326; SE 0200944 L 20030927; SE 524460 C2 20040810

DOCDB simple family (application)  
**SE 0300435 W 20030314**; AU 2003217113 A 20030314; BR 0308590 A 20030314; CN 03802932 A 20030314; EP 03713146 A 20030314; JP 2003578731 A 20030314; NO 20044303 A 20041011; PL 37165503 A 20030314; RU 2004131572 A 20030314; SE 0200944 A 20020326