

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFINJEKTOR

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
**EP 1979605 B1 20090624 (DE)**

Application  
**EP 06830145 A 20061127**

Priority  
• EP 2006068952 W 20061127  
• DE 102006003040 A 20060123

Abstract (en)  
[origin: US2008283627A1] A fuel injector for internal combustion engines, the injector a nozzle needle axially guided for movement in a nozzle body to opens or close off at least one spray hole for a fuel injection, having a valve piston is guided so as to be axially moveable in a holding body and controls the opening and closing movement of the nozzle needle, having a valve piece in which the valve piston delimits a control space which is connected to a high-pressure side and which is connected by means of a control valve to a low-pressure side, and having a leakage oil return line which discharges leakage oil out of the region of the holding body. The leakage oil return line runs at least partially in the valve piece.

IPC 8 full level  
**F02M 47/02** (2006.01)

CPC (source: EP US)  
**F02M 47/027** (2013.01 - EP US); **F02M 55/002** (2013.01 - EP US); **F02M 2200/28** (2013.01 - EP US); **F02M 2200/304** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Designated contracting state (EPC)  
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**US 9650106 A 20061127**; AT 06830145 T 20061127; CN 200680051625 A 20061127; DE 102006003040 A 20060123; DE 502006004092 T 20061127; EP 06830145 A 20061127; EP 2006068952 W 20061127