

Title (en)
Fuel injector

Title (de)
Brennstoffeinspritzventil

Title (fr)
Injector de carburant

Publication
EP 1457662 B1 20060118 (DE)

Application
EP 04002029 A 20040130

Priority
DE 10310297 A 20030310

Abstract (en)
[origin: EP1457662A1] A valve needle (14) operates a valve-closing body (15). A hydraulic coupler (40) has a piston (37) that partly engages into a retaining hole and forms a coupler gap (50,51) with the hole. The gap is filled with hydraulic fluid and surrounded by a first balancing area restricted by a first coupler membrane (41).

IPC 8 full level
F02M 51/06 (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP)
F02M 51/0603 (2013.01); **F02M 61/167** (2013.01)

Cited by
EP1803929A1; EP2317117A1; US2015102241A1; CN107091355A; US9822750B2; WO2009059864A1; WO2005024223A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 1457662 A1 20040915; EP 1457662 B1 20060118; AT E316205 T1 20060215; DE 10310297 A1 20040923; DE 502004000246 D1 20060406

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EP 04002029 A 20040130; AT 04002029 T 20040130; DE 10310297 A 20030310; DE 502004000246 T 20040130