

Title (en)
Fuel injector

Title (de)
Brennstoffeinspritzventil

Title (fr)
Injecteur de carburant

Publication
EP 1342913 B1 20091104 (FR)

Application
EP 03290398 A 20030218

Priority
FR 0202310 A 20020222

Abstract (en)
[origin: EP1342913A1] The injector (2) comprises a body (4) with an orifice (10) at the end to deliver fuel, a moving needle (12), a piezoelectric actuator (26) and a return spring (18). Movement amplification between the actuator and the needle is provided by a hydraulic chamber (32) with one end closed by the moving surface (28) of the actuator and the other end closed by a surface (24') attached to the needle.

IPC 8 full level
F02M 47/02 (2006.01); **F02M 51/06** (2006.01); **F02M 59/46** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 51/0603 (2013.01); **F02M 61/167** (2013.01); **F02M 2200/705** (2013.01)

Cited by
WO2016097463A1

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 SE SI SK TR

DOCDB simple family (publication)
EP 1342913 A1 20030910; **EP 1342913 B1 20091104**; AT E447668 T1 20091115; DE 60329881 D1 20091217; FR 2836518 A1 20030829; FR 2836518 B1 20051202

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