

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 0934461 A1 19990811 (DE)

Application
EP 98936192 A 19980617

Priority
• DE 9801648 W 19980617
• DE 19736548 A 19970822

Abstract (en)
[origin: DE19736548A1] A fuel injector has a valve element inside a shaped bore and with the injection end inside an outer cowl (32) which protrudes past the end of the injector and which assists with fuel/air mixing. The cowl is made from deep drawn metal and is held onto a cylindrical body section by inward facing tags (65) which grip the plastic moulded outer profile of the injector. No separate fasteners are required.

IPC 1-7
F02M 69/04

IPC 8 full level
F02M 61/18 (2006.01); **F02M 69/04** (2006.01)

CPC (source: EP KR US)
F02M 69/04 (2013.01 - KR); **F02M 69/047** (2013.01 - EP US)

Citation (search report)
See references of WO 9910650A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
DE 19736548 A1 19990225; BR 9806192 A 19991116; CN 1104557 C 20030402; CN 1237226 A 19991201; DE 59813774 D1 20061130; EP 0934461 A1 19990811; EP 0934461 B1 20061018; JP 2001504912 A 20010410; KR 20000068809 A 20001125; TW 358857 B 19990521; US 6598809 B1 20030729; WO 9910650 A1 19990304

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