

Title (en)
FUEL INJECTION DEVICE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
KRAFTSTOFF-EINSPRITZVORRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
DISPOSITIF D'INJECTION DE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE

Publication
EP 1554487 A1 20050720 (DE)

Application
EP 03808667 A 20030723

Priority
• DE 0302462 W 20030723
• DE 10247958 A 20021015

Abstract (en)
[origin: WO2004036026A1] A fuel injection device (22) for an internal combustion engine comprising a housing (30) and at least one valve element (34, 36). Said valve element cooperates with a valve seat (46, 58) on an injection end of the housing (30). Several housing-side fuel outlet channels (64,68) are associated with the valve element (34,36). A flow chamber is provided in the region of the beginning of the fuel outlet channels (68). Said chamber is formed by an annular groove (66) which is concentric to the longitudinal axis of the valve element (36).

IPC 1-7
F02M 45/08; **F02M 61/18**

IPC 8 full level
F02M 45/08 (2006.01); **F02M 61/18** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)
F02M 45/086 (2013.01 - EP US); **F02M 61/1873** (2013.01 - EP US); **F02M 2200/46** (2013.01 - EP US)

Citation (search report)
See references of WO 2004036026A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 2004036026 A1 20040429; DE 10247958 A1 20040429; EP 1554487 A1 20050720; JP 2006503207 A 20060126;
US 2006102752 A1 20060518; US 7364099 B2 20080429

DOCDB simple family (application)
DE 0302462 W 20030723; DE 10247958 A 20021015; EP 03808667 A 20030723; JP 2004543930 A 20030723; US 52758505 A 20050314