

Title (en)
Electromagnetically operated injection valve

Title (de)
Elektromagnetisch betätigbares Einspritzventil

Title (fr)
Injecteur à commande électromagnétique

Publication
EP 0602001 B1 19960410 (DE)

Application
EP 94101334 A 19910121

Priority
• DE 4003228 A 19900203
• EP 91902298 A 19910121

Abstract (en)
[origin: WO9111611A2] In existing electromagnetically operated valves with a fuel-inlet pipe acting as the core of a coil magnet surrounding it, at least part of the valve is surrounded by a plastic shell with an integrally moulded connector plug. Different valve injection-moulding tools are necessary, however, for different designs of electric plug. With the new valve, the electric plug (21) is injection-moulded at the same time as the coil magnet surround (4) is moulded, thus forming an independent injection-moulded plastic part. Only one valve injection-moulding tool is necessary for different designs of electric plug, thus giving greater assembly-line flexibility. The valve is suitable for use in fuel-injection systems.

IPC 1-7
F02M 51/06

IPC 8 full level
F16K 31/02 (2006.01); **F02M 51/00** (2006.01); **F02M 51/06** (2006.01); **F02M 51/08** (2006.01)

CPC (source: EP KR US)
F02M 51/00 (2013.01 - KR); **F02M 51/005** (2013.01 - EP US); **F02M 51/061** (2013.01 - EP US); **F02M 51/0614** (2013.01 - EP US); **F02M 51/0682** (2013.01 - EP US); **Y10S 239/90** (2013.01 - EP US); **Y10T 29/4902** (2015.01 - EP US)

Cited by
US5592356A; GB2323634A; GB2323634B; US6012701A; US6601786B2; WO9610262A1; WO2005061868A1

Designated contracting state (EPC)
DE ES FR GB IT

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WO 9111611 A2 19910808; WO 9111611 A3 19910919; BR 9105985 A 19921110; DE 4003228 A1 19910822; DE 4003228 C2 19921126; DE 59103119 D1 19941103; DE 59107672 D1 19960515; EP 0513037 A1 19921119; EP 0513037 B1 19940928; EP 0602001 A2 19940615; EP 0602001 A3 19941117; EP 0602001 B1 19960410; ES 2062761 T3 19941216; ES 2086971 T3 19960701; JP 2986542 B2 19991206; JP 3027353 B2 20000404; JP H05503976 A 19930624; JP H10122085 A 19980512; KR 0185731 B1 19990320; KR 920703997 A 19921218; RU 2092735 C1 19971010; US 5275341 A 19940104; US 5580001 A 19961203; US 6341412 B1 20020129

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