

Title (en)  
FUEL INJECTION NOZZLE FOR INTERNAL COMBUSTION ENGINES

Publication  
**EP 0446201 B1 19920805 (DE)**

Application  
**EP 89905052 A 19890505**

Priority  
DE 3840339 A 19881130

Abstract (en)  
[origin: WO9006439A1] An injection nozzle fitted with an inductive needle movement probe (28) is to be so constructed that the coil (32) is properly sealed against oil leaks without requiring more space than a design without an oil seal for the coil (32). To this end, the core (36) of the induction coil (30) is extended into a lengthened section (107) of the chamber in the recoil body (25) enclosing the induction coil (30) in which is fitted a ring (56) sealing the coil (32) against the guide slot of the magnet armature (38) in the recoil body (25). In addition, the annular slot between the recoil body (25) and the wall of the drilling in the nozzle holder (10) enclosing it is sealed by a ring (112). The clamping flange (62) linked to the coil core (36) bears directly on the adjacent annular flange (48) of the coil body (34) and the coil (32) makes contact with the connecting wires (40, 42) on the far side of the clamping flange (62). Preferred field of application is in injection nozzles for diesel engines.

IPC 1-7  
**F02M 61/16**; **F02M 65/00**

IPC 8 full level  
**F02M 61/16** (2006.01); **F02M 65/00** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP KR US)  
**F02M 65/00** (2013.01 - KR); **F02M 65/005** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US)

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**WO 9006439 A1 19900614**; DE 3840339 A1 19900531; DE 58902006 D1 19920910; EP 0446201 A1 19910918; EP 0446201 B1 19920805; JP 2667269 B2 19971027; JP H04501896 A 19920402; KR 900702221 A 19901206; KR 960003697 B1 19960321; US 5161742 A 19921110

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