

Title (en)  
Fuel injection nozzle

Title (de)  
Kraftstoffeinspritzdüse

Title (fr)  
Buse d'injection de carburant

Publication  
**EP 1662131 B1 20080123 (DE)**

Application  
**EP 05109688 A 20051018**

Priority  
DE 102004057244 A 20041126

Abstract (en)  
[origin: EP1662131A1] Fuel injection nozzle (1) comprises an axially guided piston (16) with a first protrusion (21) entraining an outer nozzle needle (4) in the opening direction and a second protrusion (22) entraining an inner nozzle needle (5), an adjusting drive (18) for displacing the piston, a first control chamber (25) filled with fuel and a second control chamber (27) filled with fuel connected to the first control chamber via a throttle (26). The inner and outer nozzle needles can be displaced relative to the piston in the opening direction against the action of a closing spring (8, 12). Preferred Features: The outer needle nozzle is guided on a chamber wall of the piston chamber on the outer side. The inner needle nozzle is guided on a chamber wall of the piston chamber on the inner side.

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

CPC (source: EP)  
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