

Title (en)  
A FUEL INJECTOR FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINE

Title (fr)  
INJECTEUR DE CARBURANT POUR MOTEUR A COMBUSTION INTERNE

Publication  
**EP 0906508 B1 20020424 (EN)**

Application  
**EP 97925918 A 19970618**

Priority

- DK 9700263 W 19970618
- DK 68296 A 19960620

Abstract (en)  
[origin: WO9748901A1] A fuel injector (1) for an internal combustion engine has an outer housing (4) with a mounting flange (2) at its back end and an injection nozzle (8) protruding from the housing at its front end, and a fuel passage (34) extending centrally in the injector. A spindle (26) is mounted on the outside of a fuel tube (19) and within a spindle guide (9). A closing spring (21) biases the spindle forwards in the closing direction, and the spindle guide is pressed forwards in the injector housing by a thrust bushing (10). The fuel tube is a separate unit which is in contact with the valve member positioned behind it via an annular surface (18) which is substantially perpendicular to the longitudinal axis of the injector. The front spindle section (32) has an outer diameter which is at the most 8  $\mu$  m smaller than the inner diameter of the spindle guide bore (27), and an inner diameter which is at the most 8  $\mu$  m larger than the outer diameter of the front section (24) of the fuel tube.

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