

Title (en)  
FUEL INJECTION VALVE.

Title (de)  
KRAFTSTOFFEINSPRITZVENTIL.

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT.

Publication  
**EP 0538247 B1 19950111 (DE)**

Application  
**EP 90910107 A 19900711**

Priority  
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Abstract (en)  
[origin: WO9102898A1] Protecting caps of fuel injection valves have a through opening aligned with the injection opening in which high-boiling components of the fuel lead to deposits, once the internal combustion engine is stopped, which reduce the cross-section of the through opening or even partially cover the injection opening. The protecting cap (20) disclosed has a recess (29) that extends outwards in the radial direction from the through opening (27) and that is so narrow that it exerts a capillary effect on the fuel, so that when the internal combustion engine is stopped, the high-boiling components of the fuel are deposited, because of the capillary effect, on the outer radial edge of the recess (29), keeping the injection opening (16) free from deposits. This protecting cap can be used with fuel injection valves of various types.

IPC 1-7  
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IPC 8 full level  
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**DE 9000518 W 19900711**; DE 3927390 A 19890819; DE 59008272 T 19900711; EP 90910107 A 19900711; ES 90910107 T 19900711; JP 50935790 A 19900711; KR 910700272 A 19910312; US 67190191 A 19910319