

Title (en)

PARTIALLY DETHROTTLED INJECTION VALVE MEMBER FOR FUEL INJECTORS

Title (de)

TEILENTDROSSELTES EINSPRITZVENTILGLIED FÜR KRAFTSTOFFINJEKTOREN

Title (fr)

ELEMENT DE SOUPAPE D'INJECTION REDUISANT PARTIELLEMENT L'ETRANGLEMENT POUR INJECTEURS DE CARBURANT

Publication

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Application

**EP 06819042 A 20060613**

Priority

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- DE 102005037955 A 20050811

Abstract (en)

[origin: WO2007017302A1] The invention relates to a fuel injector (10) for internal combustion engines, comprising an injection valve member (14) with a seat cone (30) configured thereon. When displaced in the longitudinal direction, the seat cone (30) of the injection valve member (14) cooperates with the sealing surface at the injector body (18), thereby releasing the fuel flow to at least one injection opening or blocking it. The seat cone (30) is provided with an anti-wear protective layer (42). At the combustion chamber end of the injection valve member (14), a peak cone (26) having a cone angle  $\alpha$  and the seat cone (30) having a cone angle  $\beta$  are provided. The cone angle  $\beta$  exceeds the cone angle  $\gamma$  of the sealing surface (20), the cone angle  $\alpha$  of the peak cone (26) being smaller than the cone angle  $\alpha$  of the sealing surface (20).

IPC 8 full level

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