

Title (en)
FUEL INJECTION VALVE

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Application
EP 87903254 A 19870527

Priority
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Abstract (en)
[origin: WO8707334A2] Fuel injection valve which serves for injecting fuel into the admission passage of a mixture-compressing, externally-ignited internal combustion engine. The fuel injection valve is provided with a valve needle (27) which, by means of an armature linked therewith, is drawn against a core when a magnetic coil is excited, the valve needle (27) rising, together with a sealing seating (47) formed thereon, from a valve seating surface (48) formed on a nozzle body (9). The sealing seating (47) is designed with a rounded profile (90), the contour of which follows the external envelope of an imaginary torus (94). The cross-section of the torus (94) can for example, be circular (93) or elliptical (96). In view of the comparatively small radius of the rounded profile (90), which leads to a distinctly line-like contact between the valve needle (27) and the valve seating surface (48), the tendency of the valve needle (27) to "adhere" hydraulically to the valve seating surface (48) is much smaller than in conventional fuel injection valves.

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