

Title (en)  
FUEL INJECTION SYSTEM COMPRISING A PRESSURE INTENSIFIER AND A DELIVERY RATE-REDUCED LOW-PRESSURE CIRCUIT

Title (de)  
KRAFTSTOFFEINSPRITZEINRICHTUNG MIT DRUCKÜBERSETZER UND FÖRDERMENGENREDUZIERTEM NIEDERDRUCKKREIS

Title (fr)  
SYSTEME D'INJECTION DE CARBURANT A MULTIPLICATEUR DE PRESSION ET A CIRCUIT DE BASSE PRESSION A DEBIT DE REFOULEMENT REDUIT

Publication  
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Application  
**EP 03809691 A 20030630**

Priority  
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• DE 10248467 A 20021017

Abstract (en)  
[origin: WO2004040118A1] The invention relates to a fuel injection system for an internal combustion engine comprising a fuel injector (10), which can be supplied with fuel by a fuel high-pressure source (1, 4). Said fuel injector has an injection valve element (37) that opens or closes injection openings (43). The fuel injection system also contains a low-pressure circuit (64) provided with a presupply pump (55) that delivers fuel from a fuel tank (14). The fuel injection system is characterized in that partial quantities of fuel returning from pressure intensifiers (7, 52) or from fuel injectors (10), the pressure of these partial quantities of fuel being reduced to the presupply pressure of the presupply pump (55), are fed to the low-pressure circuit (64) whereby arriving in a feeding section (60) via returns (50, 52; 13, 53).

IPC 1-7  
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IPC 8 full level  
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Citation (search report)  
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