

Title (en)  
ACCUMULATOR INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
SPEICHEREINSPRITZSYSTEM FÜR BRENNKRAFTMASCHINE

Title (fr)  
SYSTEME D'INJECTION D'ACCUMULATEUR POUR MOTEUR A COMBUSTION INTERNE

Publication  
**EP 1904741 B1 20101117 (DE)**

Application  
**EP 06752914 A 20060710**

Priority  
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• CH 13652005 A 20050819

Abstract (en)  
[origin: WO2007009279A1] Disclosed is a high-pressure accumulator injection system (10) for an internal combustion engine, preferably a diesel engine. Said injection system (10) comprises a number of injection valves (18) which are connected to a high-pressure conveying device (12) via fuel pipes (16, 14). A reservoir (22) and a check valve encompassing a bypass throttle (24) that is connected in parallel are assigned to each injection valve (18). Said check valve which is assigned to each injection valve (18) and encompasses a bypass throttle (24) that is connected in parallel allows the accumulator injection system (10) to perform stable and reproducible injection processes with a favorable pressure curve during each injection process even when the discrete reservoirs (22) are provided with an unusually low volume. The reservoirs (22) can be integrated in the housing of the injection valves (18). The inventive injection system dispenses with the need for a complex common rail.

IPC 8 full level  
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Cited by  
US2021231087A1; US11542902B2

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