

Title (en)  
HP PUMP FOR DIESEL INJECTION SYSTEMS

Title (de)  
HP-PUMPE FÜR DIESELEINSPRITZSYSTEME

Title (fr)  
POMPE HP POUR SYSTÈMES D'INJECTION DE DIESEL

Publication  
**EP 3635240 A1 20200415 (EN)**

Application  
**EP 18729676 A 20180607**

Priority  
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• EP 2018065097 W 20180607

Abstract (en)  
[origin: GB2563263A] A high pressure (HP) pump 10 of a diesel injection system comprises a compression chamber 16 in which the pump pressurises fuel. The compression chamber is defined by a coaxial arrangement of a bore 14 extending along a main axis X, a piston 18 guided in the bore and an inlet valve member 32 axially controlling an inlet 24 at an end of the bore. The piston has a recess (40, fig 2) at its end partially defining the compression chamber. The recess defines a peripheral wall (44) and a bottom face (42). The inlet valve member has a head member (50) that complementary engages in the recess when the piston reaches a top dead centre (TDC) position. The peripheral wall may radially expand. The recess may be a cylindrical hollow. The head member may be smaller than the recess, with a clearance between them of about 0.5mm.

IPC 8 full level  
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CPC (source: EP GB)  
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