

Title (en)  
Positive displacement pumps

Title (de)  
Verdrängerpumpen

Title (fr)  
Pompes volumétriques

Publication  
**EP 0972936 A2 20000119 (EN)**

Application  
**EP 99305492 A 19990712**

Priority  
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Abstract (en)  
A high pressure positive displacement pump, for example suitable for delivering fuel to a fuel injection system comprises one or more pumping assemblies (2,3,4). Each pumping assembly comprises a cylinder block (11) which defines a pumping cylinder (12) in which a pumping plunger (13) is slidably mounted. Each pumping plunger is connected to a tappet assembly (20) which comprises a tappet shell (21) slidably mounted in a bore (22). In use, the tappet assemblies engage a cam (6) to drive the pumping plungers in the pumping direction. A working fluid chamber (30) is defined on the side of each tappet assembly (20) opposite to the cam (6). In use, pressurised working fluid is delivered to the working fluid chamber (30) to drive the tappet and pumping plunger in the return direction. The arrangement obviates the need to provide a return spring for the pumping plungers. <IMAGE>

IPC 1-7  
**F04B 1/04**

IPC 8 full level  
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CPC (source: EP KR)  
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Cited by  
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