

Title (en)  
Plunger type pump

Title (de)  
Kolbenpumpe

Title (fr)  
Pompe à piston

Publication  
**EP 1103722 A3 20030205 (EN)**

Application  
**EP 00125242 A 20001123**

Priority  
JP 33391999 A 19991125

Abstract (en)  
[origin: EP1103722A2] In a plunger pump a communication passage (72) is arranged in a plug (64) for closing a cylinder storing hole (16). The plug (64) is movable relative to the cylinder assembly (24) by a spring. An O-ring (74) for preventing the leakage of a fuel from faces opposed to the cylinder assembly (24) and the plug (64) is attached to the plug (64). When the fuel pressure within a fuel passage (32) is equal to or lower than a predetermined pressure, the O-ring (74) comes in contact with the cylinder assembly (24) by the spring (80), and the fuel leakage from the above opposed faces is prevented by the O-ring (74). If the fuel pressure within the fuel passage (32) is equal to or higher than the predetermined pressure, part of the fuel is vented to the exterior to reduce fuel pressure. <IMAGE>

IPC 1-7  
**F04B 53/16**; **F04B 53/12**

IPC 8 full level  
**F02M 37/06** (2006.01); **F04B 9/04** (2006.01); **F04B 53/00** (2006.01); **F04B 53/12** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP)  
**F04B 53/127** (2013.01); **F04B 53/166** (2013.01)

Citation (search report)  
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• [A] US 2731917 A 19560124  
• [A] EP 0928894 A2 19990714 - BOSCH GMBH ROBERT [DE]

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**EP 1103722 A2 20010530**; **EP 1103722 A3 20030205**; **EP 1103722 B1 20060510**; **EP 1103722 B8 20061213**; DE 60027841 D1 20060614; JP 2001153033 A 20010605

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