

Title (en)
FUEL FEEDING PUMP

Title (de)
KRAFTSTOFFZUFUHRPUMPE

Title (fr)
POMPE D'ALIMENTATION EN CARBURANT

Publication
EP 2017464 A4 20090930 (EN)

Application
EP 07742132 A 20070423

Priority
• JP 2007058697 W 20070423
• JP 2006127448 A 20060501

Abstract (en)
[origin: EP2017464A1] To provide a fuel supply pump that can improve the durability of a fuel inlet valve and stably pressure-feed high pressure fuel of a large flow rate. In a fuel inlet valve, a valve piston includes, in its outer surface in the vicinity of an end portion on an opposite side of a collar portion, a groove portion to which a fastener for fixing the valve piston and a spring seat locks, the spring seat includes an open portion into which the valve piston is inserted and includes, along an edge of the open portion, a step portion to which the fastener locks, the valve piston is inserted into the open portion of the spring seat, the fastener is thereafter caused to lock to the groove portion of the valve piston, and the spring seat is energized by a spring to cause the fastener to lock to the step portion, whereby the spring seat is fixed to the valve piston, and a clearance is disposed between the fastener and at least one of an edge portion of the groove portion on an energizing direction side and an edge portion of the step portion on the opposite side of the energizing direction.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
• [Y] DE 10346211 A1 20041209 - BOSCH GMBH ROBERT [DE]
• [Y] JP 2004060616 A 20040226 - FUJI VALVE
• [Y] US 3762382 A 19731002 - ANDERSON A
• See references of WO 2007129556A1

Cited by
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DE FR GB

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EP 07742132 A 20070423; JP 2006127448 A 20060501; JP 2007058697 W 20070423; US 29923107 A 20070423