

Title (en)
PLUNGER STRUCTURE AND PLUNGER PUMP

Title (de)
KOLBENSTRUKTUR UND KOLBENPUMPE

Title (fr)
STRUCTURE DE PISTON ET POMPE À PISTON

Publication
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Application
EP 18170349 A 20180502

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Abstract (en)
The present disclosure provides a plunger structure and a plunger pump, relating to the technical field of plunger pumps. The plunger structure comprises a plunger body (1) with both ends closed, an engagement groove (11) disposed at the top of the plunger body (1), a plunger cap (2) fixedly connected to the engagement groove (11), and an elastic member having one end fixedly disposed within the plunger cap (2). The plunger body (1) is sleeved in the elastic member. A top end of the plunger body (1) is exposed out from the plunger cap (2), the engagement groove (11) which is depressed inwardly is formed in a circumferential direction of the top of the plunger body, an inside of the plunger body (1) is in a cavity structure, and the plunger body (1) is an integrally molded part. The present disclosure alleviates the problem that a hollow plunger of the prior art which is made by welding is easily broken at a welded place during working and thereby cannot be used, and even causes damage to the plunger pump in a serious case, and the welding also increases the production processes of the hollow plunger. The present disclosure has the characteristics of simple production and processing procedures, high production efficiency and long service life.

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• [XA] DE 19605369 A1 19970821 - SCHAEFFLER WAEZLAGER KG [DE]
• [A] DE 102010033483 A1 20120209 - SCHAEFFLER TECHNOLOGIES GMBH [DE]
• [A] DE 8910468 U1 19891102

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