

Title (en)  
Reciprocating diaphragm pump and check valve

Title (de)  
Membranpumpe und Rückschlagventil

Title (fr)  
Pompe à membrane et clapet anti-retour

Publication  
**EP 1803937 B1 20081203 (EN)**

Application  
**EP 07103700 A 20030423**

Priority  
• EP 03719171 A 20030423  
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Abstract (en)  
[origin: EP1553296A1] A reciprocating pump is provided with diaphragm drive chambers and a drive-power supply member 40, in which drive power of the drive-power supply member 40 is transmitted to diaphragms 1A, 1B within the diaphragm drive chambers via operating fluid. Operating-fluid-flow regulation chambers 5A, 5B each are located between the drive-power supply member and a corresponding one of the diaphragm drive chambers. A first gas discharge member and a second gas discharge member are respectively located in an upper part of the inside of each operating-fluid-flow regulation chamber and an upper part of the inside of each diaphragm drive chamber. The first gas discharge member is held in fluid communication with the second gas discharge member so as to constitute a single gas discharge mechanism 20A, 20B. This single gas discharge mechanism 20A, 20B is provided with a reverse-flow prevention member for preventing a reverse flow of fluid from the first gas discharge member to the second gas discharge member. <IMAGE>

IPC 8 full level  
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