

Title (en)  
Diaphragm pump

Title (de)  
Membranpumpe

Title (fr)  
Pompe à membrane

Publication  
**EP 1850005 A1 20071031 (EN)**

Application  
**EP 06112980 A 20060424**

Priority  
EP 06112980 A 20060424

Abstract (en)  
A diaphragm pump comprising a pressure chamber arranged such that the volume of the pressure chamber is expanded and contracted by oscillation of a diaphragm (5), a suction-side check valve (7) for sucking air into the pressure chamber and a discharge-side check valve (8) for discharging air from the pressure chamber. The suction-side check valve is arranged to close by a valve body (17) being elastically deformed and brought into close contact with a valve seat, and open by the valve body elastically returning to the normal shape and coming out of contact with the valve seat. The discharge-side check valve is arranged to open by a valve body (18) being elastically deformed and producing a space relative to a valve seat, and close by the valve body elastically returning to the normal shape and coming into close contact with the valve seat.

IPC 8 full level  
**F04B 39/10** (2006.01); **F04B 35/04** (2006.01); **F04B 45/04** (2006.01)

CPC (source: EP US)  
**F04B 35/045** (2013.01 - EP US); **F04B 39/1073** (2013.01 - EP); **F04B 45/04** (2013.01 - EP US)

Citation (search report)  
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DE GB NL

Designated extension state (EPC)  
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