

Title (en)  
DIAPHRAGM PUMP FOR A VACUUM FREE OF OIL

Publication  
**EP 0072275 B1 19870429 (FR)**

Application  
**EP 82401332 A 19820716**

Priority  
FR 8114489 A 19810724

Abstract (en)  
[origin: US4452572A] Dry vacuum diaphragm pump, for pumping between an inlet port (2) and an exhaust port (3), and comprising a tubular diaphragm (12) retained by its resilience on a central body (11) in the biconical interior volume of a body (1), in such manner as to form a pumping chamber (15) into which debouch inlet and exhaust ports, and a control chamber (16). Port (3) communicates through a valve (7) with a capacity (9) maintained under partial vacuum by an auxiliary vacuum pump (23). The distribution mechanism (20, 21, 27) places the chamber (16) in communication alternatively with atmosphere and with the intake of the auxiliary pump (23).

IPC 1-7  
**F04B 45/04**; **F04B 45/06**; **F04B 37/14**

IPC 8 full level  
**F04B 37/14** (2006.01); **F04B 45/04** (2006.01); **F04B 45/053** (2006.01); **F04B 45/06** (2006.01); **F04B 45/073** (2006.01)

CPC (source: EP US)  
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**EP 0072275 A1 19830216**; **EP 0072275 B1 19870429**; AT E26870 T1 19870515; DE 3276188 D1 19870604; FR 2510203 A1 19830128; FR 2510203 B1 19840106; US 4452572 A 19840605

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