

Title (en)

DOUBLE ACTING PNEUMATICALLY DRIVEN ROLLING DIAPHRAGM PUMP

Title (de)

DOPPELWIRKENDE PNEUMATISCH ANGETRIEBENE ROLLMEMBRANPUMPE

Title (fr)

POMPE A PISTON A COMMANDE PNEUMATIQUE ET MEMBRANE A ENROULEMENT

Publication

EP 0912830 B1 20040929 (EN)

Application

EP 97932611 A 19970715

Priority

- US 9712338 W 19970715
- US 68352896 A 19960715

Abstract (en)

[origin: WO9802659A1] A reciprocating pump includes a housing (12) having an annular passage extending therethrough between opposed open ends, and a piston (22) is disposed within the annular passage between glands positioned at each open end. A pressurizing chamber assembly is disposed at each housing end and includes a chamber head that is attached to respective housing ends. A pressurizing member is disposed within each chamber head and is attached to respective opposite ends of the piston. The pressurizing member, and an inside surface of a respective chamber head, form a pressurizing chamber therebetween. The pressurizing member is of a one-piece construction, having a solid nose portion (18) and a hollow skirt (104). The hollow skirt has a flanged end that is interposed between a respective chamber head and housing end to form an air- and liquid-tight seal therebetween.

IPC 1-7

F04B 17/00; **F01B 19/00**

IPC 8 full level

F04B 9/105 (2006.01); **F04B 9/113** (2006.01); **F04B 43/00** (2006.01); **F04B 43/02** (2006.01); **F04B 43/06** (2006.01); **F04B 43/073** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP US)

F04B 43/0054 (2013.01 - EP); **F04B 43/0063** (2013.01 - EP); **F04B 43/026** (2013.01 - EP US); **F04B 43/0736** (2013.01 - EP US); **F04B 53/164** (2013.01 - EP US); **F04B 2201/0201** (2013.01 - EP)

Designated contracting state (EPC)

AT DE FR GB

DOCDB simple family (publication)

WO 9802659 A1 19980122; AT E278106 T1 20041015; AU 3601997 A 19980209; DE 69730964 D1 20041104; DE 69730964 T2 20051006; EP 0912830 A1 19990506; EP 0912830 A4 20000223; EP 0912830 B1 20040929; JP 2000514525 A 20001031

DOCDB simple family (application)

US 9712338 W 19970715; AT 97932611 T 19970715; AU 3601997 A 19970715; DE 69730964 T 19970715; EP 97932611 A 19970715; JP 50626098 A 19970715