

Title (en)

Hydraulically driven double acting diaphragm pump

Title (de)

Hydraulisch angetriebene Doppelmembranpumpe

Title (fr)

Pompe à diaphragme double avec actionnement hydraulique

Publication

**EP 0919724 A3 20000419 (EN)**

Application

**EP 98830707 A 19981125**

Priority

IT RM970739 A 19971128

Abstract (en)

[origin: EP0919724A2] A pumping device for liquids or aeriform substances of a double-acting reciprocating type, characterized in that it comprises a first and a second pumping unit provided with a separating element between a working fluid and a pumped fluid, and connected to an oil control assembly arranged to induce reciprocating motions in said separating elements of said units by means of pressurized oil so as to produce a suction phase in one unit and a delivery phase in the other unit and viceversa, in a continuous way. <IMAGE>

IPC 1-7

**F04B 43/073**

IPC 8 full level

**F04B 43/073** (2006.01)

CPC (source: EP US)

**F04B 43/0733** (2013.01 - EP US)

Citation (search report)

- [XY] EP 0568742 A1 19931110 - COOPER IND INC [US]
- [Y] EP 0627555 A1 19941207 - ENEA ENTE NUOVE TEC [IT]
- [X] US 4543044 A 19850924 - SIMMONS WALTER J [US]
- [X] FR 2549904 A1 19850201 - PAUL HYDRAULIQUE [FR]
- [X] US 2703055 A 19550301 - JAN VETH, et al
- [A] US 4523901 A 19850618 - SCHIPPERS HEINZ [DE], et al

Cited by

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0919724 A2 19990602; EP 0919724 A3 20000419; EP 0919724 B1 20050706;** DE 69830775 D1 20050811; DE 69830775 T2 20060518; IT 1297087 B1 19990803; IT RM970739 A1 19990528

DOCDB simple family (application)

**EP 98830707 A 19981125;** DE 69830775 T 19981125; IT RM970739 A 19971128