

Title (en)

MAGNETIC DIRECT DRIVE RECIPROCATING PUMP APPARATUS AND METHOD WITH INTEGRAL PRESSURE SENSING

Title (de)

VERDRÄNGERPUMPE MIT DIREKTEM MAGNETANTRIEB UND INTEGRIERTER DRUCKMESSUNG SOWIE ENTSPRECHENDES VERFAHREN

Title (fr)

DISPOSITIF A POMPE ALTERNATIVE A ENTRAINEMENT MAGNETIQUE DIRECT, ASSOCIE A UNE DETECTION INTEGRALE DE LA PRESSION ET PROCEDE CORRESPONDANT

Publication

**EP 0880649 A4 20040526 (EN)**

Application

**EP 97904001 A 19970128**

Priority

- US 9701286 W 19970128
- US 60109296 A 19960214

Abstract (en)

[origin: CA2245889A1] <IMG> <IMG> <IMG>

IPC 1-7

**F04B 17/04**

IPC 8 full level

**G01L 7/00** (2006.01); **F04B 17/04** (2006.01); **F04B 49/06** (2006.01); **G01N 30/32** (2006.01)

CPC (source: EP)

**F04B 17/042** (2013.01); **F04B 49/06** (2013.01); **F04B 2203/0407** (2013.01); **F04B 2205/05** (2013.01)

Citation (search report)

- [X] PATENT ABSTRACTS OF JAPAN vol. 0130, no. 33 (M - 789) 25 January 1989 (1989-01-25)
- [X] PATENT ABSTRACTS OF JAPAN vol. 0120, no. 03 (E - 570) 7 January 1988 (1988-01-07)
- [X] PATENT ABSTRACTS OF JAPAN vol. 0110, no. 28 (M - 557) 27 January 1987 (1987-01-27)
- See references of WO 9730288A2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**WO 9730288 A2 19970821**; **WO 9730288 A8 20040701**; AU 1842197 A 19970902; AU 697945 B2 19981022; CA 2245889 A1 19970821; CA 2245889 C 20010424; EP 0880649 A1 19981202; EP 0880649 A4 20040526; JP 3248728 B2 20020121; JP H11506185 A 19990602

DOCDB simple family (application)

**US 9701286 W 19970128**; AU 1842197 A 19970128; CA 2245889 A 19970128; EP 97904001 A 19970128; JP 52935097 A 19970128