

Title (en)
Plunger pump.

Title (de)
Kolbenpumpe.

Title (fr)
Pompe à piston.

Publication
EP 0001463 A1 19790418 (EN)

Application
EP 78200201 A 19780921

Priority
NL 7710381 A 19770922

Abstract (en)
The invention relates to a plunger pump comprising a housing, a plunger adapted to reciprocate in a compression chamber provided in the housing and an inlet port and an outlet port for the inlet and outlet respectively of fluid to and from the compression chamber respectively, the inlet port being closed by the plunger at the beginning of the compression stroke wherein portions of the plunger located on both sides of the plunger portion actively operating in the compression chamber are guided in sealing relationship in portions of the housing so that the compression chamber is bounded only by one side of the plunger and an opposite portion of the pump.

IPC 1-7
F04B 5/00; **F04B 7/04**; **F16J 1/00**

IPC 8 full level
F04B 19/22 (2006.01); **F04B 3/00** (2006.01); **F04B 5/00** (2006.01); **F04B 7/04** (2006.01); **F04B 9/00** (2006.01)

CPC (source: EP)
F04B 3/003 (2013.01); **F04B 5/00** (2013.01); **F04B 7/04** (2013.01)

Citation (search report)

- [X] GB 662097 A 19511128 - WILTON ROW EXTENSIONS LTD, et al
- [X] DE 415434 C 19250629 - OTTO STANNEBEIN
- [X] GB 1447011 A 19760825 - STERLING WINTHROP GROUP LTD
- US 2383324 A 19450821 - LE CLAIR CAMILLE CLARE SPRANKL
- FR 588150 A 19250430 - EHRHARDT & SEHMER AG
- DE 261425 C
- US 3737258 A 19730605 - KRAUJA Z, et al
- DE 2203135 A1 19730809 - BADE PETER DIPL ING
- GB 171858 A 19211201 - LOUIS FREDERICK RUDSTON FELL
- DE 115508 C
- FR 875379 A
- US 1511962 A 19241014
- FR 44670 E 19350320
- FR 813057 A 19370525
- DE 2128635 A1 19721228
- GB 232286 A 19250414 - CECIL HUGHES
- FR 957405 A 19500220
- DE 419438 C 19250930 - KRUPP AG
- GB 1054366 A
- GB 166678 A 19210718 - THOMAS GORDON
- US 3327633 A 19670627 - SIMON DUINKER, et al
- GB 190920995 A 19100609 - BLATTNER EMILE [CH]
- GB 191128981 A 19121031 - CASH ERNEST WILLIAM
- US 3347264 A 19671017 - BUNN STUART E, et al
- US 1651682 A 19271206 - EISENHAEUER CHARLES P
- [A] FR 441684 A 19120813 - POKORNY & WITTEKIND MASCHINENBAU A G [DE]
- [A] US 2356511 A 19440822 - PAUL DESCOURTIS
- [A] CH 225029 A 19421231 - TEVES MASCHINEN & ARMATURENFAB [DE]
- [A] FR 2205636 A1 19740531 - V NAUCHNO ISSLE [SU]

Cited by
EP0288981A3; CN109209806A

Designated contracting state (EPC)
BE CH DE FR GB LU NL SE

DOCDB simple family (publication)
EP 0001463 A1 19790418; AU 4010378 A 19800327; JP S5499203 A 19790804; NL 7710381 A 19790326

DOCDB simple family (application)
EP 78200201 A 19780921; AU 4010378 A 19780922; JP 11739778 A 19780922; NL 7710381 A 19770922