

Title (en)

PUMP WITH A MODULAR ASSEMBLY

Publication

EP 0279910 A3 19891123 (DE)

Application

EP 87116030 A 19871031

Priority

DE 3705608 A 19870221

Abstract (en)

[origin: JPS6463667A] PURPOSE: To use the subject high pressure pump with a high pressure by installing an introductory groove which penetrates an inlet and an outlet for a pump unit and a part of a pump piston, arranging each part in parallel each other and opposing an each part for pump for an another part. CONSTITUTION: A driving device system 2 and at least a pump unit 3 which is connected with the driving device system 2 respectively in a pump 1. A driving element 4 and a conductive element 5 connected therewith are installed respectively. An working space and an inhaling shaft and a compressing shaft between an inlet 8 and an outlet 9 are installed at the pump system 3 respectively. On the occasion, the inlet 8 and the outlet 9 are arranged at an edge part in the longitudinal direction side to the pump system 3. And an axis line of the longitudinal direction of the inlet 8 and the outlet 9 is agreed with an axis line of a running direction for an introductory groove for a piston in parallel and opposed to each part of an another casing.

IPC 1-7

F04B 21/00; F04B 1/02

IPC 8 full level

F04B 23/06 (2006.01); **F04B 53/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [Y] US 1388780 A 19210823 - STANLEY ARTHUR E
- [YD] US 3697197 A 19721010 - BERGLUND HAROLD A, et al
- [A] DE 1009487 B 19570529 - STAIGER APP G M B H
- [A] US 4597721 A 19860701 - SANTEFORT RICHARD A [US]
- [A] US 3416557 A 19681217 - SCHOENECKER THOMAS J, et al
- [A] US 4679994 A 19870714 - BROWN GEORGE E [US]
- [A] FR 2340464 A1 19770902 - CAM GEARS LTD [GB]
- [A] DE 1937072 A1 19700129 - GRATZMULLER JEAN LOUIS
- [A] DE 2544536 A1 19770414 - HEHL KARL
- [A] US 4021152 A 19770503 - TOYODA AKIRA

Cited by

DE4008255C1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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