

Title (en)

GEAR PUMP WITH CONTROLLED CLAMPING FORCE

Title (de)

ZAHNRADPUMPE MIT REGELBARER KLEMMKRAFT

Title (fr)

POMPE A ENGRENAGES A FORCE DE SOLLICITATION COMMANDEE

Publication

EP 0701661 A1 19960320 (EN)

Application

EP 93921567 A 19930914

Priority

- US 9308671 W 19930914
- US 94626492 A 19920916
- US 3370893 A 19930316

Abstract (en)

[origin: WO9407030A1] A pump having a pair of intermeshing gear members retained in first and second bushings located in a cavity for pressuring a fluid from an entrance pressure to a desired exit pressure. The first bushing has a passage located therein which communicates a selected pressure less than the exit pressure which acts on an outer face of the first bushing to develop a clamping force which urges an inner face on the first bushing into engagement with the intermeshing gear members and the intermeshing gear member into engagement with an inner face on said second bushing to seal the entrance chamber from the exit chamber.

IPC 1-7

F04C 2/08; **F04C 15/00**

IPC 8 full level

F04C 2/18 (2006.01); **F04C 2/08** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)

F04C 2/088 (2013.01); **F04C 15/0026** (2013.01)

Citation (search report)

See references of WO 9407030A1

Cited by

CN109356845A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9407030 A1 19940331; DE 69315227 D1 19971218; DE 69315227 T2 19980319; EP 0701661 A1 19960320; EP 0701661 B1 19971112; JP 2617096 B2 19970604; JP H07507124 A 19950803

DOCDB simple family (application)

US 9308671 W 19930914; DE 69315227 T 19930914; EP 93921567 A 19930914; JP 50825594 A 19930914