

Title (en)

Purely hydraulic action device for the hydrostatic compensation of hydraulic gear pumps and motors.

Title (de)

Rein hydraulisch wirkende Vorrichtung zum hydrostatischen Ausgleich von hydraulischen Zahnradpumpen und Motoren.

Title (fr)

Dispositif à action hydraulique pure pour la compensation hydrostatique de pompes et moteurs hydrauliques du type à engrenage.

Publication

**EP 0211723 A1 19870225 (FR)**

Application

**EP 86401502 A 19860704**

Priority

FR 8510887 A 19850716

Abstract (en)

1. Hydrostatic compensation device for gear hydraulic pumps or motors in which support bearings of the pinions are slidably mounted in the pump body (1) and define, with covers (3, 4) of the pump body, compensation chambers bordered by at least a gasket and in which a pressure is developed for keeping the bearings applied against the side face of the gears, characterized in that the gasket (26) has a U-shaped section the bottom part of which is facing a cover for defining a groove (27) set into communication with a high pressure prevailing in the pump or motor and is provided with an anti-extrusion fitting (28) applied against the cover, subjected to the pressure on its entire surface and extending on the whole support surface, the gasket (26) forming moreover a slight clearance with the bottom portion of the groove (10).

Abstract (fr)

Dispositif de compensation hydrostatique pour pompe ou moteur hydraulique à engrenage dans lequel au moins un coussinet de support des pignons est monté coulissant dans le corps de pompe (1) et délimite avec un couvercle (3 ou 4) du corps de pompe des chambres de compensation bordées par au moins un joint et dans lesquelles une pression est développée pour maintenir le coussinet appliqué contre la face latérale des engrenages, caractérisé en ce que le joint (26) présente une section en U pour délimiter une rainure (27) mise en communication avec une haute pression régnant dans la pompe ou le moteur.

IPC 1-7

**F04C 15/00**

IPC 8 full level

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

CPC (source: EP)

**F04C 15/0026** (2013.01)

Citation (search report)

- [X] FR 1546355 A 19681115 - BORG WARNER
- [X] FR 2353728 A1 19771230 - BOSCH GMBH ROBERT [DE]
- [Y] GB 2033478 A 19800521 - BOSCH GMBH ROBERT
- [X] DE 1940106 A1 19710311 - WESTINGHOUSE BREMSEN APPARATE
- [Y] FR 2193455 A5 19740215 - TRW INC [US]
- [Y] EP 0093917 A1 19831116 - BOSCH GMBH ROBERT [DE]
- [X] FR 1343908 A 19631122 - CLARK EQUIPMENT CO
- [X] DE 2646727 A1 19770428 - KAYABA INDUSTRY CO LTD
- [X] DE 2403319 A1 19750731 - BOSCH GMBH ROBERT
- [X] GB 2028925 A 19800312 - COMMERCIAL SHEARING
- [YD] FR 1598392 A 19700706

Cited by

EP0287698A1; US4830592A

Designated contracting state (EPC)

AT BE CH DE GB IT LI LU NL SE

DOCDB simple family (publication)

**EP 0211723 A1 19870225; EP 0211723 B1 19890830**; AT E46017 T1 19890915; DE 211723 T1 19870702; DE 3665351 D1 19891005; FR 2585083 A1 19870123; FR 2585083 B1 19890901; JP 2572016 Y2 19980520; JP H0680885 U 19941115; JP S6248978 A 19870303

DOCDB simple family (application)

**EP 86401502 A 19860704**; AT 86401502 T 19860704; DE 3665351 T 19860704; DE 86401502 T 19860704; FR 8510887 A 19850716; JP 16654186 A 19860715; JP 23894 U 19940128