

Title (en)

OUTLET PRESSURE CONTROL FOR INTERNAL GEAR PUMP

Title (de)

AUSLASSDRUCKREGELUNG FÜR EINE INNENZAHNRADPUMPE

Title (fr)

REGULATION DE LA PRESSION DE SORTIE POUR POMPE A ENGRENAGE INTERIEUR

Publication

EP 0845080 A1 19980603 (EN)

Application

EP 95927609 A 19950814

Priority

CA 9500481 W 19950814

Abstract (en)

[origin: WO9707337A1] A gerotor pump is described for use with non-compressible fluids such as automotive coolant or hydraulic oil. The pump includes three separate pump outlet ports, a bypass return passage, and an integral four position spool valve. Increasing back pressure from a downstream load is sensed by the spool valve which moves accordingly to restrict the fluid supplied. In the first position a full flow fluid is supplied to the load from all three ports. In the second position one port is vented to the bypass and the flow from the other two ports is directed to the load. In the third position two ports vent to bypass, and one port drives the load. In the fourth position all ports vent to bypass. In each case flow vented to bypass is not first compressed, permitting a smaller motor to be used.

IPC 1-7

F04C 15/04; **F04C 2/10**

IPC 8 full level

F04C 14/26 (2006.01); **F04C 2/10** (2006.01); **F04C 14/12** (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP)

F04C 14/12 (2013.01); **F04C 14/26** (2013.01)

Citation (search report)

See references of WO 9707337A1

Cited by

CN109469528A; US11795948B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9707337 A1 19970227; AT E197729 T1 20001215; AU 3159795 A 19970312; CA 2229056 A1 19970227; CA 2229056 C 20020702; DE 69519482 D1 20001228; EP 0845080 A1 19980603; EP 0845080 B1 20001122; JP H11510871 A 19990921

DOCDB simple family (application)

CA 9500481 W 19950814; AT 95927609 T 19950814; AU 3159795 A 19950814; CA 2229056 A 19950814; DE 69519482 T 19950814; EP 95927609 A 19950814; JP 50876397 A 19950814