

Title (en)
VALVE SYSTEM

Publication
EP 0053608 B1 19850821 (EN)

Application
EP 81900692 A 19800616

Priority
US 8000766 W 19800616

Abstract (en)
[origin: WO8103689A1] A fluid power control system (17) having an improved control valve (20) providing reduced regulated pressure fluid selectively from a high pressure pump supply (P) or the fluid motor (10) under conditions wherein the pump supply has failed to supply the desired pressurized fluid. The system utilizes a control valve (20) having a spool (29) provided with first transfer passage (41) and second transfer passage (42). The first transfer passage is adjustably throttled as a result of movement of the spool relative to an adjacent inlet port (37) and the second transfer passage (42) is adjustably throttled by movement of the spool relative to an adjacent inlet port (38). Inlet port (37) is connected to the high pressure fluid supply (P) and inlet port (38) is connected to the head end (13) of the cylinder (11) of the fluid motor through a check valve (44). Valve (20) provides selective pressure regulated fluid through an outlet port (36) thereof either from the pressurized fluid supply (P) when that apparatus is functioning or from the fluid motor in the event of a failure of the fluid supply. In each case, the valve provides the fluid at a desired operating pressure. The pressure regulated fluid may be used to operate a pilot valve (22) controlling a main valve (14) for adjustably positioning the piston (12) of the fluid motor.

IPC 1-7
F16K 31/12; **F15B 13/042**

IPC 8 full level
F15B 11/08 (2006.01); **F15B 13/042** (2006.01); **F16K 31/12** (2006.01); **F15B 20/00** (2006.01)

CPC (source: EP)
F15B 13/0422 (2013.01)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 8103689 A1 19811224; BE 888848 A 19811119; BR 8009082 A 19820427; DE 3071022 D1 19850926; EP 0053608 A1 19820616; EP 0053608 A4 19831006; EP 0053608 B1 19850821; IT 1189019 B 19880128; IT 8122315 A0 19810615; JP H0147647 B2 19891016; JP S57500841 A 19820513; MX 155646 A 19880411; SG 17187 G 19870724

DOCDB simple family (application)
US 8000766 W 19800616; BE 1010226 A 19810519; BR 8009082 A 19800616; DE 3071022 T 19800616; EP 81900692 A 19800616; IT 2231581 A 19810615; JP 50096381 A 19800616; MX 18759981 A 19800616; SG 17187 A 19870220