

Title (en)

Hydraulic control system for a hydraulic actuator.

Title (de)

Hydraulisches Steuersystem für ein hydraulisches Stellglied.

Title (fr)

Système de commande hydraulique pour un opérateur hydraulique.

Publication

EP 0080135 A1 19830601 (EN)

Application

EP 82110471 A 19821112

Priority

US 32044881 A 19811112

Abstract (en)

A hydraulic control system comprising a hydraulic actuator (20) having opposed openings adapted to alternately function as inlets and outlets for moving the element (21) of the actuator in opposite directions, a pump for supplying fluid to the actuator, and a meter-in valve (27) to which the fluid from the pump is supplied. The meter-in valve (27) is pilot controlled by alternately supplying fluid at pilot pressure to the meter-in valve (27) for controlling the direction of movement of the actuator. A pair of lines (32, 33) extend from the meter-in valve (27) to the respective openings of the actuator. Valves (34, 35) are positioned between a tank passage and each opening of the actuator for controlling the flow of fluid between the actuator and the tank passage; and at least one of these valves (34, 35) is normally open and pilot operated.

IPC 1-7

F15B 13/02

IPC 8 full level

F15B 11/08 (2006.01); **F15B 13/02** (2006.01)

CPC (source: EP)

F15B 13/02 (2013.01)

Citation (search report)

- [AD] US 4201052 A 19800506 - BREEDEN ROBERT H [US], et al
- [A] DE 1601729 B2 19800807

Cited by

EP0209019A3; EP0089652A3; EP0066717A3; CN109139577A; FR2586463A1; US4706547A

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0080135 A1 19830601; EP 0080135 B1 19860122; AU 557058 B2 19861204; AU 8667982 A 19830519; BR 8205049 A 19830809; CA 1172136 A 19840807; DE 3268712 D1 19860306; ES 515812 A0 19840301; ES 8402641 A1 19840301; FI 72579 B 19870227; FI 72579 C 19870608; FI 822599 A0 19820723; FI 822599 L 19830513; IN 156019 B 19850427; JP H0341706 B2 19910624; JP S5884255 A 19830520; MX 154560 A 19870925; NO 156301 B 19870518; NO 156301 C 19870826; NO 822687 L 19830513; NZ 201541 A 19851108; ZA 825385 B 19830629

DOCDB simple family (application)

EP 82110471 A 19821112; AU 8667982 A 19820802; BR 8205049 A 19820830; CA 408017 A 19820726; DE 3268712 T 19821112; ES 515812 A 19820918; FI 822599 A 19820723; IN 877CA1982 A 19820728; JP 15577182 A 19820907; MX 19380182 A 19820728; NO 822687 A 19820806; NZ 20154182 A 19820809; ZA 825385 A 19820727