

Title (en)

DEVICE FOR REGULATING THE PRESSURE AND THE CAPACITY OF A VARIABLE-CAPACITY PUMP

Publication

**EP 0164602 A3 19871216 (DE)**

Application

**EP 85105969 A 19850515**

Priority

DE 3422089 A 19840614

Abstract (en)

[origin: US4708596A] A pressure and delivery regulating device for an adjustable pump includes a directional control valve connected in a discharge conduit and to a control conduit branching from the discharge conduit between the pump and the directional control valve. The control conduit leads to a setting piston for the adjustment of the pump. The directional control valve is controlled by a solenoid which in turn is controlled by a control system consisting of a regulating circuit, a delivery limiting circuit and a control circuit for the solenoid. The output signal from the regulating circuit controls a desired delivery value signal supplied to the delivery limiting circuit. A follow-up circuit connected between the regulating circuit and the delivery limiting circuit corrects the regulating signal and a circuit for producing a direction dependent signal from the actual pressure provides a damping of the regulating circuit.

IPC 1-7

**F04B 49/06**; **F04B 49/08**

IPC 8 full level

**F04B 49/00** (2006.01); **F04B 49/06** (2006.01); **F04B 49/08** (2006.01)

CPC (source: EP US)

**F04B 49/06** (2013.01 - EP US); **F04B 49/08** (2013.01 - EP US)

Citation (search report)

- [A] FR 2458840 A1 19810102 - PARKER HANNIFIN CORP [US]
- [A] FR 2494784 A1 19820528 - BSO STEUERUNGSTECHNIK GMBH [DE]

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US4801247A; DE3733396A1; DE3733396C2; EP0275969A3; EP0704623A1

Designated contracting state (EPC)

AT DE FR GB IT

DOCDB simple family (publication)

**EP 0164602 A2 19851218**; **EP 0164602 A3 19871216**; **EP 0164602 B1 19890920**; **EP 0164602 B2 19941228**; AT E46561 T1 19891015; DE 3422089 A1 19851219; DE 3573150 D1 19891026; JP 2654770 B2 19970917; JP S614881 A 19860110; US 4708596 A 19871124

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