

Title (en)

DEVICE FOR MAINTAINING THE PRODUCT OF THE DELIVERY PRESSURE AND DELIVERY RATE OF AN ADJUSTABLE PUMP AT A CONSTANT LEVEL

Publication

EP 0086276 B1 19860402 (DE)

Application

EP 82112000 A 19821224

Priority

- DE 3200867 A 19820114
- DE 3207961 A 19820305

Abstract (en)

[origin: US4496290A] A control system for maintaining the product of the lifting pressure and lifting volume times flow constant in an adjustable pump having a regulating member acted upon by two pressure-controlled pistons. The device includes a control valve which is operatively connected with a spring with a linear characteristic, which spring is through the control valve operatively connected to an adjusting lever having an arm which is varied proportionally to the working pressure of the pump. The moment is produced by the force of that spring and that variable lever arm. A counter moment is generated by a force of a second spring and a second arm of the adjusting lever. Upon creating the force equilibrium on the adjusting lever the control valve is so controlled that the product of the pumping pressure and pumping volume times flow remains constant. The control valve controls one of the two pressure-controlled pistons which adjusts the stroke of the regulating member.

IPC 1-7

F04B 1/08; **F04B 49/08**; **F16H 39/46**

IPC 8 full level

F04B 1/08 (2006.01); **F04B 49/08** (2006.01)

CPC (source: EP US)

F04B 49/08 (2013.01 - EP US); **F04B 2201/1203** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

EP 0086276 A1 19830824; **EP 0086276 B1 19860402**; DE 3207961 A1 19830721; DE 3270327 D1 19860507; US 4496290 A 19850129

DOCDB simple family (application)

EP 82112000 A 19821224; DE 3207961 A 19820305; DE 3270327 T 19821224; US 42496082 A 19820927