

Title (en)

ROTARY MECHANISM CONTROL WITH POWER SUPPLY

Title (de)

DREHWERKSTEUERUNG MIT SPEISEEINRICHTUNG

Title (fr)

COMMANDE DE MECANISME ROTATIF A SYSTEME D'ALIMENTATION

Publication

EP 0904467 A1 19990331 (DE)

Application

EP 97918141 A 19970417

Priority

- DE 19620665 A 19960522
- EP 9701920 W 19970417

Abstract (en)

[origin: DE19620665C1] The invention relates to a hydraulic control, especially for the rotary mechanism of an excavator. In a drive circuit there are a hydraulic drive pump (2) and a hydraulic drive motor connected via operating lines (4, 3). The hydraulic control comprises an adjuster (9) to adjust a piston (12) fitted between two setting pressure chambers (10, 11) and acting on the displacement volume of a hydraulic drive pump (2). There is also a pre-control unit (8) which applies an adjusting pressure to one of the setting pressure chambers (10, 11) depending on the pressure difference between two control lines (6, 7). According to the embodiment of the invention, the pre-control unit (8) is connected to a supply line (30) via a pressure regulating valve (56), and, in a pilot position (42, 43), the pre-control unit (8) connects one of the two setting pressure chambers (10, 11) via the pressure regulating valve (56) to the supply line (30) and the other chamber (11, 10) to a pressurising fluid tank (17). In a neutral position (61), both setting pressure chambers (10, 11) are connected to the supply line (30) via the pressure regulating valve (56).

IPC 1-7

E02F 9/12; **E02F 9/22**

IPC 8 full level

E02F 9/22 (2006.01); **E02F 9/12** (2006.01); **F04B 49/00** (2006.01); **F04B 49/08** (2006.01); **F15B 11/00** (2006.01)

CPC (source: EP US)

E02F 9/123 (2013.01 - EP US); **E02F 9/128** (2013.01 - EP US); **E02F 9/2285** (2013.01 - EP US); **E02F 9/2296** (2013.01 - EP US); **F04B 49/08** (2013.01 - EP US)

Citation (search report)

See references of WO 9744535A1

Cited by

DE102004033860B4

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

DE 19620665 C1 19970612; DE 59701185 D1 20000406; EP 0904467 A1 19990331; EP 0904467 B1 20000301; JP 2000510933 A 20000822; US 6167702 B1 20010102; WO 9744535 A1 19971127

DOCDB simple family (application)

DE 19620665 A 19960522; DE 59701185 T 19970417; EP 9701920 W 19970417; EP 97918141 A 19970417; JP 54144297 A 19970417; US 11785198 A 19980812