

Title (en)

Electrohydraulic device for driving and remotely controlling a hydraulic distributor

Title (de)

Elektrohydraulische Antriebseinrichtung zur Fernsteuerung eines hydraulischen Verteilers

Title (fr)

Dispositif d'entraînement électro-hydraulique pour commander à distance un distributeur hydraulique

Publication

EP 0872645 A3 20000405 (EN)

Application

EP 98104126 A 19980309

Priority

IT MI970862 A 19970414

Abstract (en)

[origin: EP0872645A2] An electrohydraulic device for driving and remotely controlling a hydraulic distributor of a directional valve for pressurizing or connecting to the discharge a pair of user devices comprising: two proportional electric valves (1, 2), which are fed by a pressure line (P), have a discharge line (T), and are connected respectively to opposite end chambers (M, N) of a hydraulic distributor (6) adapted to pressurize or connect to the discharge (T) two user devices; remote control means adapted to generate an electric control signal to energize electromagnets (11, 12) of the electric valves (1, 2); and an electronic circuit (5a, 5b) adapted to control and adjust the energization current of the electromagnets as a function of the electric control signal; the energization current drives the electromagnets (11, 12) for the selective feeding of the chambers with a preset pressure or for their connection to the discharge across the electric valves in order to move the slider (3) of the distributor (6) proportionally to the energization current; the electronic circuit is integrated in the body that houses the hydraulic distributor. <IMAGE>

IPC 1-7

F15B 13/043

IPC 8 full level

F15B 13/04 (2006.01); **F15B 13/043** (2006.01); **F15B 13/044** (2006.01)

CPC (source: EP)

F15B 13/0402 (2013.01); **F15B 13/0433** (2013.01); **F15B 13/0442** (2013.01); **F15B 2013/0409** (2013.01)

Citation (search report)

- [XY] US 4543875 A 19851001 - IMHOF RAINER [DE]
- [X] GB 2248910 A 19920422 - TRANS NORDIC HYDRAULICS LIMITE [GB]
- [Y] US 4659969 A 19870421 - STUPAK JR JOSEPH J [US]
- [Y] US 3786314 A 19740115 - MISCH W
- [A] EP 0601995 A1 19940615 - HOERBIGER VENTILWERKE AG [AT]
- [A] US 4960365 A 19901002 - HORIUCHI HITOSHI [JP]

Cited by

WO2007006436A1; CN102392914A; CN102384118A; US6700232B2; WO2008000708A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0872645 A2 19981021; **EP 0872645 A3 20000405**; **EP 0872645 B1 20031112**; DE 69819587 D1 20031218; DE 69819587 T2 20040916; DK 0872645 T3 20040216; IT 1291564 B1 19990111; IT MI970862 A1 19981014

DOCDB simple family (application)

EP 98104126 A 19980309; DE 69819587 T 19980309; DK 98104126 T 19980309; IT MI970862 A 19970414