

Title (en)
HYDRAULIC CONTROL DEVICE

Title (de)
HYDRAULISCHE STEUEREINRICHTUNG

Title (fr)
DISPOSITIF DE COMMANDE HYDRAULIQUE

Publication
EP 1290351 A1 20030312 (DE)

Application
EP 01981923 A 20010329

Priority

- DE 0101274 W 20010329
- DE 10027382 A 20000602

Abstract (en)
[origin: WO0192729A1] The invention relates to a hydraulic control device (10, 90) for controlling a double-acting motor independently of load pressure. By exchanging the pressure balance throttle slides (68, 93), the control device can be converted from a directional-control valve (11) with a primary individual pressure balance (12) for load pressure-independent control to a directional-control valve (91) with a secondary individual pressure balance (92) for distributing oil flow in the event of undersupply; while retaining the same housing (13). To this end, the housing (13) has three junctions of control-pressure openings (51, 52, 53) in a second longitudinal bore (41) in which the throttle slides (68, 93) are housed, these junctions being axially set apart from each other. The interchanging of the mounting arrangements of a sealing plug (66) and a shutoff plug (67) enables the control-pressure openings to be activated differently, forming a primary pressure balance (12) or a secondary pressure balance (92) respectively, together with the respective throttle slide. The control device (10, 90) with the same housing (13) for different functions is economical to produce.

IPC 1-7
F15B 13/04

IPC 8 full level
F15B 11/02 (2006.01); **F15B 13/04** (2006.01); **F15B 13/00** (2006.01)

CPC (source: EP US)
F15B 13/0417 (2013.01 - EP US); **F15B 2013/006** (2013.01 - EP US); **Y10T 137/5109** (2015.04 - EP US); **Y10T 137/87169** (2015.04 - EP US);
Y10T 137/87185 (2015.04 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0192729 A1 20011206; DE 10027382 A1 20011206; DE 50101561 D1 20040401; EP 1290351 A1 20030312; EP 1290351 B1 20040225;
JP 2003535274 A 20031125; US 2004099316 A1 20040527; US 6874526 B2 20050405

DOCDB simple family (application)
DE 0101274 W 20010329; DE 10027382 A 20000602; DE 50101561 T 20010329; EP 01981923 A 20010329; JP 2002500108 A 20010329;
US 29721502 A 20021202