

Title (en)

MANUALLY OPERATED CONTROL DEVICE, ESPECIALLY FOR HYDRAULICALLY ACTUATING HYDRAULIC VALVES

Title (de)

HANDBETÄTIGTES STEUERGERÄT, INSBESONDERE ZUR HYDRAULISCHEN BETÄTIGUNG VON HYDRAULISCHEN VENTILEN

Title (fr)

APPAREIL DE COMMANDE ACTIONNE MANUELLEMENT, SERVANT NOTAMMENT A L'ACTIONNEMENT HYDRAULIQUE D'ORGANES D'OBTURATION HYDRAULIQUES

Publication

EP 1117936 B1 20030423 (DE)

Application

EP 99946163 A 19990911

Priority

- DE 19844860 A 19980930
- EP 9906737 W 19990911

Abstract (en)

[origin: DE19844860A1] The invention relates to a manually operated control device, especially for hydraulically actuating hydraulic valves. Such a known control device is provided with a control lever (21) which can be universally swiveled around the swivel axis (23) from a neutral position around axes which lie in a plane of axes and intersect in a swivel axis. The device has at least two control signal transmitters (11) which are arranged 90 DEG away from each other in relation to a lever axis which is perpendicular to the axial plane and intersects the swivel axis. The two control signal transmitters can be operated either singly or jointly by an actuator (30) to generate a control signal, which actuator is substantially parallel to the axial plane and is fastened to the control lever (21). For the control device to be able to actuate a plurality of hydraulic valves with as little complication as possible the invention provides the following solution: An additional control signal transmitter is arranged between the two first control signal transmitters. The control lever (21) can be swiveled together with the actuator around the lever axis from a first swivel position, in which the first control signal transmitters can be operated by the actuator, to a second position and vice versa. The actuator is provided with a recess (32) which permits actuation of the additional control signal transmitter only in the second swivel position.

IPC 1-7

F15B 13/042

IPC 8 full level

F15B 13/042 (2006.01); **G05G 9/047** (2006.01)

CPC (source: EP KR US)

F15B 13/042 (2013.01 - KR); **F15B 13/0422** (2013.01 - EP US); **G05G 9/047** (2013.01 - EP US); **Y10T 137/87048** (2015.04 - EP US); **Y10T 137/87072** (2015.04 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19844860 A1 20000406; DE 59905224 D1 20030528; EP 1117936 A1 20010725; EP 1117936 A4 20011010; EP 1117936 B1 20030423; JP 2002525774 A 20020813; KR 100641467 B1 20061031; KR 20010075497 A 20010809; US 6601611 B1 20030805; WO 0019108 A1 20000406

DOCDB simple family (application)

DE 19844860 A 19980930; DE 59905224 T 19990911; EP 9906737 W 19990911; EP 99946163 A 19990911; JP 2000572529 A 19990911; KR 20017004098 A 20010330; US 80628401 A 20010328