

Title (en)  
Hydraulic control device

Title (de)  
Hydraulische Steuereinrichtung

Title (fr)  
Dispositif de commande hydraulique

Publication  
**EP 0823559 B1 20011031 (DE)**

Application  
**EP 97112410 A 19970719**

Priority  
DE 19632201 A 19960809

Abstract (en)  
[origin: EP0823559A2] The device has a proportional throttle valves connected in each of a feed (18) and an outflow conduit (23) of the motor, for lifting and lowering a load, respectively. A pressure maintaining valve (22) is provided for load-compensated volume flow control on lifting. The pressure drop occurring at the first proportional throttle valve is fed via two control conduits (31,32) to the spring-loaded pressure balance. The pressure maintaining valve is connected in a conduit section (26) common to the feed and outflow conduits. The first proportional throttle valve (19) controls a first (31) control conduit. In this first control conduit a changeover valve (34) is connected, with which the pressure maintaining valve can be changed over to a pressure feed dependent upon the second proportional throttle valve (24).

IPC 1-7  
**F15B 11/05**; F15B 13/01

IPC 8 full level  
**F15B 11/00** (2006.01); **F15B 11/05** (2006.01); **F15B 11/16** (2006.01); **F15B 13/01** (2006.01)

CPC (source: EP)  
**F15B 11/003** (2013.01); **F15B 11/165** (2013.01); **F15B 2211/20538** (2013.01); **F15B 2211/30505** (2013.01); **F15B 2211/3054** (2013.01); **F15B 2211/3144** (2013.01); **F15B 2211/31529** (2013.01); **F15B 2211/327** (2013.01); **F15B 2211/40507** (2013.01); **F15B 2211/40515** (2013.01); **F15B 2211/411** (2013.01); **F15B 2211/41509** (2013.01); **F15B 2211/428** (2013.01); **F15B 2211/455** (2013.01); **F15B 2211/50536** (2013.01); **F15B 2211/513** (2013.01); **F15B 2211/57** (2013.01); **F15B 2211/6054** (2013.01); **F15B 2211/6055** (2013.01); **F15B 2211/6346** (2013.01); **F15B 2211/652** (2013.01); **F15B 2211/7052** (2013.01)

Cited by  
EP0965763A1; CN102979774A; CN105035979A; EP0987444A3; WO2005093164A1; US6176261B1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0823559 A2 19980211**; **EP 0823559 A3 19980715**; **EP 0823559 B1 20011031**; DE 19632201 A1 19980212; DE 59705151 D1 20011206

DOCDB simple family (application)  
**EP 97112410 A 19970719**; DE 19632201 A 19960809; DE 59705151 T 19970719