

Title (en)  
Hydraulic control device

Title (de)  
Hydraulische Steuervorrichtung

Title (fr)  
Dispositif de commande hydraulique

Publication  
**EP 0582859 B1 19970129 (DE)**

Application  
**EP 93111555 A 19930719**

Priority  
DE 9210646 U 19920810

Abstract (en)  
[origin: EP0582859A1] A hydraulic control device (1), comprising at least one directional control valve (4) which is connected to a pump and return line (7, 9; 8, 10) and from which at least one consumer line (5, 6) leads to a hydraulic consumer (50), a fixed displacement pump (11) supplying a pump line (7, 9) via a regulating valve (12), and a control-pressure circuit (20) in which a control pressure dependent upon the load pressure in the consumer line (5, 6) can be controlled, the regulating valve (12) of which can be acted upon on a closing-pressure side (49) by the control pressure from the control circuit (20) and by spring force (24) as well as on an opening-pressure side (48) by the pump pressure, has a hydraulic, mechanically preloaded, opening-movement damping device (15) between the closing-pressure side (49) and the control circuit (20), which opening-movement damping device (15) can be automatically cut out if a predetermined pressure difference between the higher control pressure applied to the closing-pressure side (49) and the lower control pressure prevailing in the control circuit (20) is exceeded. <IMAGE>

IPC 1-7  
**F15B 11/05**

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

CPC (source: EP)  
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Cited by  
CN102032226A; EP1790859A1; EP1477686A1; EP4088051A4; US7594396B2; US7155909B2

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