

Title (en)  
Mono-block hydraulic control system

Title (de)  
Hydraulische Steuervorrichtung in Monoblockbauweise

Title (fr)  
Système de commande hydraulique mono-bloc

Publication  
**EP 0718504 B1 20000503 (DE)**

Application  
**EP 95118187 A 19951118**

Priority  
DE 4446144 A 19941223

Abstract (en)  
[origin: EP0718504A2] A hydraulic control device for raising and lowering a load uses at least two solenoid-driven proportional valves (90,120) and a pressure balance as input for raising the load irrespective of its size. The elements are all in a housing with at least one pump connector, one load connector and one return connector. The valves are in parallel and the electromagnetic drive (91,121) are on the same side, at the same level. The pressure balance (70) is located coaxially by the first valve. There is a channel (55) joining the valves, splitting into two sections (57,58) which intersect the cylinder where the slider (97) of the first valve moves. The slider has control edges (101,102) which can block off the return channel (94).

IPC 1-7  
**F15B 13/01**

IPC 8 full level  
**B66F 9/22** (2006.01); **F15B 13/01** (2006.01); **F15B 13/044** (2006.01); **F16K 11/10** (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP)  
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Cited by  
EP0965763A1; AT407662B; CN106949110A; US6176261B1

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**EP 0718504 A2 19960626; EP 0718504 A3 19970122; EP 0718504 B1 20000503**; DE 4446144 A1 19960627; DE 59508271 D1 20000608; JP 3639657 B2 20050420; JP H08233147 A 19960910

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**EP 95118187 A 19951118**; DE 4446144 A 19941223; DE 59508271 T 19951118; JP 33037395 A 19951219