

Title (en)  
Hydraulic control device

Title (de)  
Hydraulische Steuereinheit

Title (fr)  
Élément de contrôle hydraulique

Publication  
**EP 1106839 A3 20020724 (EN)**

Application  
**EP 00125635 A 20001123**

Priority  
IT MI992467 A 19991125

Abstract (en)  
[origin: EP1106839A2] A hydraulic control device, for the actuation of a hydraulic user device, with input pressure compensator, comprising a bidirectional pilot valve (1) which can be actuated in order to connect one actuation branch (A or B) of a user device to a pressurized branch (P) of a hydraulic circuit and the other actuation branch (B or A) of the user device to a discharge branch (T) of the hydraulic circuit, and a pressure compensator (2), which is arranged on the pressurized branch (P) of the hydraulic circuit that enters the pilot valve (1). The pressure compensator (2) is affected by the pressure in the pressurized branch (P) of the hydraulic circuit, and the pressure acts so as to close the pressure compensator (2). The bidirectional pilot valve (1), in connecting a user device (A or B) to the pressurized branch (P) of the hydraulic circuit, also connects the pressurized branch (P) to the pressure compensator (2), but so as to maintain or increase its aperture, and to the discharge branch (T) of the hydraulic circuit through a choke (31, 81) so as to force the pump, which feeds the hydraulic circuit, to operate at a pressure which is significantly higher than required for the actuation of the user device (A or B), thus achieving higher operating stability. <IMAGE>

IPC 8 full level  
**F15B 11/16** (2006.01); **F15B 13/04** (2006.01)

CPC (source: EP)  
**F15B 11/163** (2013.01); **F15B 13/0417** (2013.01); **F15B 2211/30535** (2013.01); **F15B 2211/3127** (2013.01); **F15B 2211/353** (2013.01); **F15B 2211/50536** (2013.01); **F15B 2211/5157** (2013.01); **F15B 2211/6054** (2013.01); **F15B 2211/6055** (2013.01); **F15B 2211/65** (2013.01); **F15B 2211/7142** (2013.01)

Citation (search report)

- [AD] EP 0786598 A1 19970730 - BREVINI HYDRAULICS SPA [IT]
- [A] US 4981159 A 19910101 - CHRISTENSEN THORKILD [DK], et al
- [A] US 5765594 A 19980616 - COLLINS DAVID [US], et al

DOCDB simple family (publication)  
**EP 1106839 A2 20010613**; **EP 1106839 A3 20020724**; **EP 1106839 A8 20010816**; **EP 1106839 B1 20040728**; DE 60012461 D1 20040902; DE 60012461 T2 20050804; DK 1106839 T3 20040906; IT 1313848 B1 20020924; IT MI992467 A0 19991125; IT MI992467 A1 20010525

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