

Title (en)  
HYDRAULIC CONTROL DEVICE OF HYDRAULIC WORKING MACHINE

Title (de)  
HYDRAULISCHE STEUERVORRICHTUNG EINER HYDRAULISCHEN ARBEITSMASCHINE

Title (fr)  
DISPOSITIF DE COMMANDE HYDRAULIQUE D'UNE MACHINE DE TRAVAIL HYDRAULIQUE

Publication  
**EP 1600419 A4 20061227 (EN)**

Application  
**EP 04715501 A 20040227**

Priority  
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Abstract (en)  
[origin: EP1600419A1] Provided are an lift cylinder 7 for causing a free end of a boom in a raising/lowering direction, an attachment pivotally mounted on a free end portion of the boom, a tilt cylinder 8 for causing the attachment to turn in a raising/lowering direction relative to the boom, and a level cylinder 9 extendable/retractable in an interlocked relation with an up/down motion of the boom such that responsive to a change in the up/down angle of the boom, an angle of the attachment in a raising/lowering direction is maintained at a preset angle. When an operating pressure for the lift cylinder 7 becomes higher than a preset pressure during a boom raising operation, a line 35 on a side of a bottom chamber of the lift cylinder 7 and a line 33 on a side of a bottom chamber of the level cylinder 9 are brought into communication with each other. This communication is effected by a line 37, which is arranged between the lines 35 and 33, and a first and second selector valves 21, 21 which changes over a circuit of this line 37. <IMAGE>

IPC 8 full level  
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CPC (source: EP KR)  
**B66F 9/0655** (2013.01 - EP); **B66F 9/22** (2013.01 - EP KR); **E02F 3/433** (2013.01 - EP)

Citation (search report)  
• [A] EP 1195470 A1 20020410 - NEW HOLLAND ITALIA SPA [IT]  
• [A] DE 3545185 C1 19870723 - KRUPP GMBH  
• [A] DE 4331777 A1 19950330 - SCHAEFF KARL GMBH & CO [DE]  
• [A] FR 2731729 A1 19960920 - SOC ET ET D INNOVATION DANS LE [FR]  
• See references of WO 2004076334A1

Cited by  
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