

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
EP3816095A1; US11339041B2; US10227997B2; US10436229B2; WO2018044871A1

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