

Title (en)
Attachment for hydraulic excavators and cranes.

Title (de)
Einrichtung für Hydraulikbagger und -Krane.

Title (fr)
Appareil pour pelles et grues hydrauliques.

Publication
EP 0130236 A1 19850109 (DE)

Application
EP 83110255 A 19831014

Priority
EP 83110255 A 19831014

Abstract (en)
1. An equipment attached to a fluid actuated crawler or wheel type excavator with an undercarriage and a rotatable platform comprising a) a boom base linked to the rotatable platform and rotatable by power in a vertical plane b) a boom head, rotatably connected to the boom base by a swing axis extending in the moving plane of the boom base, incorporating a directive pivot extending crosswise to the swing axis. c) a directive guide hinged to the boom head by the directive pivot. d) a fluid actuated boom cylinder, swing cylinder and directive cylinder to operate the boom base, boom head and directive guide. e) an upper arm pivotally connected to the directive guide, f) an upper arm rod being parallel to the upper arm and of equal length and pivotally connected to the directive guide, g) a parallel guide guided by the upper arm and the upper arm rod, h) an upper arm cylinder pivotally mounted on the upper arm, with a piston rod connected alternatively to one or the other arm of the two armed parallel guide. i) a lower arm pivotally connected to the parallel guide on the same axis as the upper arm but in another plane and carrying a tool at its other end. k) a lower arm cylinder pivotally mounted on the lower arm, with a piston rod connected to one or the other arm of the parallel guide, but not at the same arm as the upper arm cylinder rod. l) a known device, which controls fluid flow to and from the upper- and lower arm cylinders in such manner, that upper arm and lower arm move with equal but counterwise angles.

Abstract (de)
Kreuzgelenkausleger für Hydraulikbagger oder -krane, dessen Auslegerkopf (4) aus der Bewegungsebene des Grundauslegers (1) durch einen Richtungszyylinder (5) herausschwenkbar ist, wobei der Auslegerkopf (4) einen kraftschlüssig drehbaren Richtungslenker (8) trägt, an welchem ein Oberarm (10) und eine zum Oberarm parallele und gleichlange Oberarmstange (17) angelenkt sind, die gemeinsam einen Parallelenker (14) führen, an dem ein Unterarm (11), der das Werkzeug (16) trägt, auf gleicher Achse mit dem Oberarm und in einer eigenen Ebene gelagert ist, wobei eine Antriebs- und Gleichlaufeinrichtung gleich große, aber gegenläufige Winkelausschläge von Ober- und Unterarm, die etwa gleiche Länge haben, erzwingt.

IPC 1-7
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IPC 8 full level
E02F 3/30 (2006.01); **E02F 3/42** (2006.01); **E02F 3/96** (2006.01); **E02F 9/18** (2006.01); **E02F 3/32** (2006.01)

CPC (source: EP)
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Citation (search report)
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• [Y] DE 2154724 A1 19730510 - ORENSTEIN & KOPPEL AG
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