

Title (en)
HYDRAULIC OVERLOAD PROTECTION DEVICE FOR A LOADING CRANE

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EP 0158738 A3 19881019 (DE)

Application
EP 84116255 A 19841222

Priority
DE 3414183 A 19840414

Abstract (en)
[origin: EP0158738A2] A hydraulic overload protection device (10) for a loading-crane jib (11) actuated by a double-acting hydraulic cylinder (18) is proposed in which, in order to limit the load moment, a control slide (22) can be reset in a directional control valve (19) controlling the hydraulic cylinder (18), in the course of which the change in the working position increasing the load moment as a function of the position of the controlled jib part (15) relative to the horizontal (21) is automatically taken into account. Arranged on the jib part (15) is a hydromechanical position sensor (63) which, in combination with associated restoring means (44, 45, 47, 49, 54, 55, 58), controls the pressurizing or relief of two control chambers (44, 45) allocated to the control slide (22) as a function of the position of the jib part (15) relative to the horizontal (21) in such a way that the control slide (22) is always reset from a working position increasing the load moment but can be deflected into a working position decreasing the load moment.
<IMAGE>

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CPC (source: EP)
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Citation (search report)
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