

Title (en)

A hydraulic load limiting device for hydraulic cranes.

Title (de)

Hydraulische Lastbegrenzungsvorrichtung für hydraulische Krane.

Title (fr)

Dispositif hydraulique de limitation de la charge pour grues hydrauliques.

Publication

EP 0224446 A2 19870603 (EN)

Application

EP 86830202 A 19860715

Priority

- IT 4001686 A 19860228
- IT 4012885 A 19851127
- IT 4013585 A 19851220

Abstract (en)

The invention disclosed is a hydraulic load limiting device for hydraulic cranes, in which hydraulic valves producing either an on-off (10, 10 min , 10 sec , 41) and/or a switching action (52, 42) are shifted by a pressure signal generated in one of the boom cylinders, thereby setting up a control signal that triggers the operation of hydraulic valves (7a, 7b, 8a, 8b, 9) installed on the flow lines connecting with the boom cylinders; such a control signal, which may be relayed either directly or via a hydraulic level-sensing device (25), serves to pilot shut-off of pressure flow to the relative cylinder or cylinders whenever further extension or retraction would cause the boom to assume a configuration such as overloads the crane beyond its maximum rated lift capacity.

IPC 1-7

B66C 23/90

IPC 8 full level

B66C 23/90 (2006.01)

CPC (source: EP)

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Cited by

US5058752A; US5597080A; CN106536944A; US2017121941A1; US10316495B2; WO2015193394A1

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