

Title (en)
Loading crane.

Title (de)
Ladekran.

Title (fr)
Grue de chargement.

Publication
EP 0055247 A2 19820630 (DE)

Application
EP 81890209 A 19811223

Priority
AT 628080 A 19801223

Abstract (en)
1. Loading crane with a swivel arm liftable and lowerable by means of a first hydraulic drive and comprising, if required, a number of further swivel arm elements movable towards one another by means of further hydraulic drives, ahead of the cylinder space (3') of the first hydraulic drive (3) which is associated with an upward motion of the swivel arm (2), a load holding valve (12) being arranged and movable into the open position by pressure increase in the conduit (7) connected with the cylinder space associated with a lowering motion, and an overload valve (11) communicating with the first hydraulic drive and blocking at least the first hydraulic drive against a motion increasing the load moment, when the crane is overloaded, characterized by a spring-loaded compensating valve with two oppositely acting control pistons, the first of said pistons - as known per se - counteracting the spring force and communicating via a first conduit (10) with a cylinder space (3') of the first hydraulic drive (3) associated with a lifting motion of the swivel arm (2), and the second of said pistons, whose direction of action is opposed to the first control piston, being connected with the lowering conduit (7) of the first hydraulic drive (3) via a second conduit (13).

Abstract (de)
Beschrieben wird ein Ladekran mit einem Überlastventil, welches bei einer Kranüberlastung anspricht. Das Überlastventil 11 sperrt bei einer Kranüberlastung den hydraulischen Antrieb 3 des Schwenkarmes 2 gegen eine Senkbewegung des Schwenkarmes 2, wobei der für eine Senkbewegung des Schwenkarmes 2 erforderliche Druckanstieg in der entsprechenden, mit dem hydraulischen Antrieb 3 verbundenen Leitung 7 im oder vor dem Überlastventil 11 kompensiert wird.

IPC 1-7
B66C 23/90

IPC 8 full level
B66C 23/90 (2006.01)

CPC (source: EP)
B66C 23/90 (2013.01); **F15B 11/003** (2013.01); **F15B 2211/50545** (2013.01)

Cited by
EP0158740A3; CN106185633A; EP0158738A3

Designated contracting state (EPC)
BE CH DE FR SE

DOCDB simple family (publication)
EP 0055247 A2 19820630; **EP 0055247 A3 19840725**; **EP 0055247 B1 19860903**; AT 368107 B 19820910; AT A628080 A 19820115; DE 3175278 D1 19861009

DOCDB simple family (application)
EP 81890209 A 19811223; AT 628080 A 19801223; DE 3175278 T 19811223