

Title (en)
Loading device for a crane.

Title (de)
Kranladegeschrir.

Title (fr)
Appareil de chargement pour une grue.

Publication
EP 0154159 A1 19850911 (DE)

Application
EP 85100991 A 19850131

Priority
DE 3404740 A 19840210

Abstract (en)
1. Crane loading gear with manually operable actuating device provided with at least one hydraulic working cylinder (31), wherein a loading gear head (11) which is adapted to be coupled to a load hook of a crane part has two component parts (13, 14) adapted to move through a limited travel in respect of each other in a vertical direction and wherein there is connected to the relatively movable component parts (13, 14) an oil pressure cylinder (21) which is provided with a storage means (23) and which can be driven by the lifting movements of the crane, the oil pressure cylinder (21) being connected via manually operable control valves (34) to the hydraulic working cylinders (31), characterised in that the oil pressure adequate for an initial actuation of the crane loading gear when work commences can be generated by a minimal number of crane lifting movements and in that the two component parts of the loading gear head (11) which are adapted for movement in respect of each other comprise a carrying plate (13) and a gripper head plate (14), the carrying plate (13) and the gripper head plate (14) being initially tensioned in the contraction direction by springs (16) which enclose guide bolts (15) and in that between the oil pressure storage means (23) and a pressurised oil storage container (22) there is a manually operable emptying valve (25).

Abstract (de)
Die Erfindung betrifft ein Kranladegeschrir, bei dem eine manuell bedienbare Betätigungsverrichtung einen hydraulischen Arbeitszylinder (31) aufweist, der aus einer im Kranladegeschrir selbst angeordneten Öl-druckerzeugungsanlage versorgt wird. Zur Erzeugung des Öldruckes sind im Ladegeschrir zwei relativ zueinander bewegliche Bauteile (13, 14) vorgesehen, die beim Anheben des Geschirrs sich relativ zueinander bewegen und hierdurch einen Pumpenantrieb betätigen, der dann über entsprechende Rückschlagventile einen Öldruckspeicher (23) speist, aus dem die für die Betätigungsverrichtung erforderliche Energie abgenommen werden kann.

IPC 1-7
B66C 1/42

IPC 8 full level
B66C 1/42 (2006.01)

CPC (source: EP)
B66C 1/427 (2013.01)

Citation (search report)
• [X] US 3310335 A 19670321 - SHUEY NEIL E
• [X] DE 2217265 A1 19731031 - HUET ALOYSIUS T VAN
• [X] DE 2423339 A1 19751127 - HUET ALOYSIUS T VAN
• [X] US 3655232 A 19720411 - MARTELEE GHISLAIN ANTOINE JEAN
• [A] FR 1494498 A 19670908
• [XP] EP 0113155 A1 19840711 - KOOI SELECTIE BEHEER BV [NL]
• [A] FR 1545007 A 19681108

Cited by
EP0520178A1; AT11638U3; CN104150348A

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0154159 A1 19850911; EP 0154159 B1 19900321; AT E51204 T1 19900415; DE 3404740 A1 19850814; DE 3576677 D1 19900426

DOCDB simple family (application)
EP 85100991 A 19850131; AT 85100991 T 19850131; DE 3404740 A 19840210; DE 3576677 T 19850131