

Title (en)

Method of pressure-balancing hydraulic motors for driving the raise and lower cables of a cable crane

Title (de)

Verfahren zum Druckausgleich in Hydraulikmotoren zum Antrieb der Hub- und Schliesseile eines Seilkranes

Title (fr)

Procédé pour équilibrer la pression dans les moteurs hydrauliques d'actionnement pour les cables pour hausser et abaisser d'une grue à cables

Publication

EP 1099859 B1 20050518 (DE)

Application

EP 00250337 A 20001017

Priority

DE 19955750 A 19991111

Abstract (en)

[origin: EP1099859A2] The method involves detecting (6,7) the working pressure in the working circuit of each hydraulic motor (4,5) during the initiation of the closing movement and controlling it via a controller so that the same working pressure exists in both working circuits at the end of the gripper closing process. The arrangement has a sensor in the hydraulic line leading to each sensor. Independent claims are also included for the following: an arrangement for pressure equalization in hydraulic motors for driving the lifting and gripper closing cables of a cable crane.

IPC 1-7

F15B 21/04; **B66C 23/00**

IPC 8 full level

B66C 3/12 (2006.01); **B66C 23/00** (2006.01); **B66D 1/44** (2006.01); **F15B 21/047** (2019.01)

CPC (source: EP US)

B66C 3/125 (2013.01 - EP US); **B66D 1/44** (2013.01 - EP US); **F15B 21/047** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1099859 A2 20010516; **EP 1099859 A3 20031112**; **EP 1099859 B1 20050518**; AT E295943 T1 20050615; DE 19955750 A1 20010531; DE 19955750 B4 20040527; DE 50010342 D1 20050623; DK 1099859 T3 20050919; ES 2243198 T3 20051201; PT 1099859 E 20050930; US 6619626 B1 20030916

DOCDB simple family (application)

EP 00250337 A 20001017; AT 00250337 T 20001017; DE 19955750 A 19991111; DE 50010342 T 20001017; DK 00250337 T 20001017; ES 00250337 T 20001017; PT 00250337 T 20001017; US 71146600 A 20001113