

Title (en)

DEVICE FOR THE HAND-GUIDED MOVEMENT OF LOADS

Title (de)

VORRICHTUNG ZUM HANDGEFÜHRTEN BEWEGEN VON LASTEN

Title (fr)

DISPOSITIF PERMETTANT LE DÉPLACEMENT MANUEL DE CHARGES

Publication

EP 2989042 B1 20201209 (DE)

Application

EP 14719017 A 20140424

Priority

- DE 102013207643 A 20130426
- EP 2014058331 W 20140424

Abstract (en)

[origin: WO2014174006A1] The invention relates to a device (10) for the hand-guided movement of loads by means of a retaining or gripping element (11) as a lifting aid, which retaining or gripping element is attached to a load-bearing rope (2), comprising a load-bearing apparatus (1), which is provided with at least one vertical cantilever (3), over which the load-bearing rope (2) is guided from sides of a rope-winding apparatus (4) on the load-bearing apparatus (1) by means of an adjustable rope articulation point (5), wherein a sensor (6) for measuring a rope angle of the load-bearing rope (2) in relation to the vertical is provided and a controller coupled to the sensor (6) is provided, which controller is designed to simultaneously control an adjustment of the rope articulation point (5) and a rope length of the load-bearing rope (2) on the basis of a measured rope angle.

IPC 8 full level

B66C 23/02 (2006.01)

CPC (source: EP US)

B66C 11/16 (2013.01 - US); **B66C 13/18** (2013.01 - US); **B66C 23/027** (2013.01 - EP US); **B66C 23/48** (2013.01 - US); **B66C 23/68** (2013.01 - US); **B66D 3/18** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014174006 A1 20141030; CN 105143089 A 20151209; CN 105143089 B 20170613; EP 2989042 A1 20160302; EP 2989042 B1 20201209; JP 2016520493 A 20160714; US 10077170 B2 20180918; US 2016068371 A1 20160310

DOCDB simple family (application)

EP 2014058331 W 20140424; CN 201480020487 A 20140424; EP 14719017 A 20140424; JP 2016509462 A 20140424; US 201414780624 A 20140424