

Title (en)

LIFTING MECHANISM FOR AN APPARATUS FOR LIFTING CONSTRUCTION PLATES, LIFTING APPARATUS COMPRISING THIS MECHANISM, AND LIFTING METHOD USING THIS APPARATUS

Title (de)

HEBEMECHANISMUS FÜR EINE VORRICHTUNG ZUM HEBEN VON BAUPLATTEN, HEBEVORRICHTUNG MIT DIESEM MECHANISMUS UND HEBEVERFAHREN MIT DIESER VORRICHTUNG

Title (fr)

MÉCANISME DE LEVAGE POUR UN APPAREIL DE LEVAGE DE PLAQUES DE CONSTRUCTION, APPAREIL DE LEVAGE COMPORTANT UN TEL MÉCANISME, PROCÉDÉ DE LEVAGE À L'AIDE D'UN TEL APPAREIL

Publication

**EP 3215689 B1 20210623 (FR)**

Application

**EP 15784085 A 20151002**

Priority

- FR 1460718 A 20141106
- FR 2015052659 W 20151002

Abstract (en)

[origin: WO2016071589A1] The present invention proposes a silent, safe, fast, multi-purpose and easy-to-service lifting mechanism. For this purpose, the mechanism comprises: a telescopic mast with a fixed segment (11) and a first telescopic segment (12) mounted so as to slide inside the fixed segment; a rack (13) having a set width and provided with teeth (131), which is attached to the first telescopic segment; a gear system comprising: a pinion (21) directly meshed with the rack, a driving shaft (22) which meshes with the pinion and is attached to a steering wheel, a reversible locking means for the driving shaft, designed to lock the driving shaft against rotation as long as no action is taken by a user.

IPC 8 full level

**E04F 21/18** (2006.01); **B66F 3/02** (2006.01)

CPC (source: CN EP US)

**B66F 3/00** (2013.01 - EP US); **B66F 3/02** (2013.01 - US); **B66F 17/00** (2013.01 - US); **E04F 21/1811** (2013.01 - EP US); **E04G 21/14** (2013.01 - CN); **E04G 21/162** (2013.01 - CN)

Citation (examination)

US 4560031 A 19851224 - DIXON PAUL L [GB], et al

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 2016071589 A1 20160512**; AU 2015341616 A1 20170525; CA 2966959 A1 20160512; CN 107002423 A 20170801; CN 107002423 B 20200728; DK 3215689 T3 20210920; EP 3215689 A1 20170913; EP 3215689 B1 20210623; ES 2890624 T3 20220120; FR 3028278 A1 20160513; FR 3028278 B1 20170428; IL 252079 A0 20170731; JP 2018503576 A 20180208; LT 3215689 T 20211011; PL 3215689 T3 20211213; SG 11201703654W A 20170629; US 2017334691 A1 20171123

DOCDB simple family (application)

**FR 2015052659 W 20151002**; AU 2015341616 A 20151002; CA 2966959 A 20151002; CN 201580064069 A 20151002; DK 15784085 T 20151002; EP 15784085 A 20151002; ES 15784085 T 20151002; FR 1460718 A 20141106; IL 25207917 A 20170503; JP 2017543899 A 20151002; LT 15052659 T 20151002; PL 15784085 T 20151002; SG 11201703654W A 20151002; US 201515523682 A 20151002