

Title (en)

A METHOD FOR FASTENING THE CLAW OF A LIFTING DEVICE TO A LIFTING ARM, AND LIFTING DEVICE

Title (de)

VERFAHREN ZUR BEFESTIGUNG DER KLAMMER EINER HEBEVORRICHTUNG AN EINEN HEBEARM UND HEBEVORRICHTUNG

Title (fr)

PROCÉDÉ POUR ATTACHER LA PINCE D'UN DISPOSITIF DE LEVAGE À UN BRAS DE LEVAGE ET DISPOSITIF DE LEVAGE

Publication

EP 2445823 A4 20130626 (EN)

Application

EP 10791673 A 20100616

Priority

- FI 2010050514 W 20100616
- FI 20095726 A 20090625

Abstract (en)

[origin: WO2010149847A1] In a method, a lifting claw is connected to the lifting arm of a lifting device to be turnable around a first rotation axis. The lifting device comprises at least one lifting arm (18a, 18b) with a turnable lifting claw (20) for supporting a piece to be lifted. The lifting claw is connected to the lifting arm by means of a first rotation axis (30) which is supported to the lifting arm to be movable in the longitudinal direction of the lifting arm. Furthermore, the lifting claw comprises a second rotation axis (34) which is supported to the lifting arm to be movable in the direction transverse to the lifting arm. When the lifting claw is withdrawn or exposed, it turns around the first and second rotation axes. At the same time with the rotation, the first rotation axis moves in the longitudinal direction of the lifting arm and the second rotation axis moves in a direction transverse to the lifting arm. At the end of the lifting arm, there is a recess (22), in which the lifting claw is placed. At the vertical side walls (24, 25) of the recess there are elongated axis slots (28, 29), in which the ends of the first rotation axis are fitted. The second rotation axis is connected to the lifting arm by means of rocker levers (36). Advantageously, the lifting device is a coil lifter with two lifting arms.

IPC 8 full level

B66C 1/28 (2006.01); **B66C 1/42** (2006.01)

CPC (source: EP FI)

B66C 1/28 (2013.01 - EP FI); **B66C 1/42** (2013.01 - EP); **B66C 1/425** (2013.01 - FI)

Citation (search report)

- [A] JP S58119584 A 19830716 - NISSHIN STEEL CO LTD, et al
- [A] JP 2000309487 A 20001107 - SUPER TOOL CO LTD
- [A] EP 1033342 A2 20000906 - MAKRON OY [FI]
- See references of WO 2010149847A1

Cited by

WO2017049571A1

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010149847 A1 20101229; EP 2445823 A1 20120502; EP 2445823 A4 20130626; EP 2445823 B1 20140813; FI 124105 B 20140314; FI 20095726 A0 20090625; FI 20095726 A 20101226; IN 585DEN2012 A 20150612; RU 2012101810 A 20130727

DOCDB simple family (application)

FI 2010050514 W 20100616; EP 10791673 A 20100616; FI 20095726 A 20090625; IN 585DEN2012 A 20120119; RU 2012101810 A 20100616