

Title (en)

JIB CRANE CONTROL SYSTEM AND METHOD FOR CONTROLLING A JIB CRANE

Title (de)

AUSLEGERKRAN-STEUERUNGSSYSTEM UND VERFAHREN ZUR STEUERUNG EINES AUSLEGERKRANS

Title (fr)

SYSTÈME DE COMMANDE DE GRUE À FLÈCHE ET PROCÉDÉ DE COMMANDE DE GRUE À FLÈCHE

Publication

**EP 3957594 A1 20220223 (EN)**

Application

**EP 21191589 A 20210817**

Priority

DK PA202000935 A 20200818

Abstract (en)

A method for controlling a crane (2) comprising a jib (4) having a crane tip (16) and a hoist (6) comprising a load connection structure (28), wherein the crane (2) configured to carry a load (14) and comprises:- one or more of jib actuators (8) arranged to activate the jib (4);- one or more hoist actuators (10) arranged to activate the hoist (6);- a control unit (12) configured to control the one or more jib actuators (8) and the one or more hoist actuators (10) configured to change the distance (D) between the load connection structure (28) and the crane tip (16). The method comprises the step of providing a command (C<sub>A</sub>, C<sub>B</sub>) to the control unit (12) to activate the one or more jib actuators (8). The method comprises the following steps:- determining the change ( $\Delta D_{jib}$ ) of the distance (D) between the load connection structure (28) and the crane tip (16) caused by motion of the jib (4) when executing the command (C<sub>A</sub>, C<sub>B</sub>);- determining a correcting signal (C<sub>S</sub>) suitable for at least partly counteracting the change ( $\Delta D_{jib}$ ) of the distance (D) between the load connection structure (28) and the crane tip (16);- activating the one or more hoist actuators (10) by using the determined correcting signal (C<sub>S</sub>).

IPC 8 full level

**B66C 13/08** (2006.01); **B66C 13/46** (2006.01); **B66C 23/00** (2006.01); **B66D 1/48** (2006.01)

CPC (source: DK EP)

**B66C 13/08** (2013.01 - EP); **B66C 13/18** (2013.01 - DK); **B66C 13/46** (2013.01 - EP); **B66C 23/54** (2013.01 - DK EP); **B66C 23/68** (2013.01 - DK); **B66D 1/40** (2013.01 - DK); **B66D 1/485** (2013.01 - EP)

Citation (applicant)

- US 2005035077 A1 20050217 - WIMMER ERICH [AT]
- WO 2019172415 A1 20190912 - TADANO LTD [JP]

Citation (search report)

- [XDI] WO 2019172415 A1 20190912 - TADANO LTD [JP]
- [A] JP 2018092279 A 20180614 - TADANO LTD
- [A] EP 3532425 A1 20190904 - LIEBHERR WERK BIBERACH GMBH [DE]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3957594 A1 20220223**; DK 180746 B1 20220210; DK 202000935 A1 20220210

DOCDB simple family (application)

**EP 21191589 A 20210817**; DK PA202000935 A 20200818