

Title (en)

Method for controlling the orientation movement of the rotating part of a tower crane

Title (de)

Steuerverfahren der Richtungsbewegung des Drehteils eines Turmkrans

Title (fr)

Procédé de commande du mouvement d'orientation de la partie tournante d'une grue à tour

Publication

EP 2123590 B1 20120404 (FR)

Application

EP 09158133 A 20090417

Priority

FR 0802785 A 20080522

Abstract (en)

[origin: EP2123590A1] The method involves increasing maximum value of orientation torque produced by an electric motor (16) when a tower crane is in service and while satisfying a condition that wind velocity (V) exceeds a given threshold value. The electric motor is arranged in a gear motor (15) of an orientation electro-mechanism (12) that is connected to a rotating upper part of the crane. The maximum value of the orientation torque is increased based on an angular position of a boom of the rotating part of the crane. An independent claim is also included for a motorized device for controlling orientation movement of a rotating upper part of a tower crane.

IPC 8 full level

B66C 23/02 (2006.01)

CPC (source: EP KR US)

B66C 13/22 (2013.01 - KR); **B66C 13/30** (2013.01 - EP US); **B66C 23/04** (2013.01 - EP US); **B66C 23/26** (2013.01 - EP US); **B66C 23/84** (2013.01 - EP KR US); **B66C 23/88** (2013.01 - EP US); **B66C 23/94** (2013.01 - EP US)

Cited by

EP2711331A1; RU2671430C2; WO2014173609A1; US9327950B2; US10633228B2; WO2015128086A1

Designated contracting state (EPC)

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 TR

DOCDB simple family (publication)

EP 2123590 A1 20091125; EP 2123590 B1 20120404; AT E552205 T1 20120415; BR PI0901558 A2 20100504; CN 101585487 A 20091125; CN 101585487 B 20131009; DK 2123590 T3 20120716; ES 2384538 T3 20120706; FR 2931466 A1 20091127; FR 2931466 B1 20110107; KR 20090122134 A 20091126; PL 2123590 T3 20120928; PT 2123590 E 20120618; RU 2009119295 A 20101127; RU 2499762 C2 20131127; US 2010006530 A1 20100114; US 8235230 B2 20120807

DOCDB simple family (application)

EP 09158133 A 20090417; AT 09158133 T 20090417; BR PI0901558 A 20090522; CN 200910143207 A 20090520; DK 09158133 T 20090417; ES 09158133 T 20090417; FR 0802785 A 20080522; KR 20090044140 A 20090520; PL 09158133 T 20090417; PT 09158133 T 20090417; RU 2009119295 A 20090521; US 46519009 A 20090513