

Title (en)

Method for monitoring crane safety and crane

Title (de)

Verfahren zur Überwachung der Kransicherheit sowie Kran

Title (fr)

Procédé de surveillance de la sécurité d'une grue et grue

Publication

EP 2674384 B1 20210127 (DE)

Application

EP 13002979 A 20130611

Priority

- DE 102012011726 A 20120613
- DE 102012011871 A 20120613

Abstract (en)

[origin: EP2674384A1] The method involves calculating one or more changeable parameters depending admissible load during the crane operation. The current changeable parameters are detected by a sensor (10) during the crane operation. One or more sensor values (11-13) are modified based on the current changeable parameters before calculation of the admissible load, to intend the permissible load for one or more future parameters. Independent claims are included for the following: (1) crane; (2) control unit; and (3) data storage medium storing program for implementation of method for driving crane.

IPC 8 full level

B66C 23/90 (2006.01)

CPC (source: EP US)

B66C 13/18 (2013.01 - US); **B66C 23/88** (2013.01 - US); **B66C 23/905** (2013.01 - EP US)

Citation (examination)

- DE 102011115240 A1 20120419 - LIEBHERR WERK EHINGEN [DE]
- EP 0675069 A1 19951004 - PLASSER BAHNBAUMASCH FRANZ [AT]

Citation (opposition)

- Opponent : Manitowoc Crane Group Germany GmbH
- DE 102006040782 A1 20080320 - LIEBHERR WERK NENZING [AT]
 - DE 102005059768 A1 20070125 - LIEBHERR WERK EHINGEN [DE]
 - DE 102005035729 A1 20070201 - LIEBHERR WERK EHINGEN [DE]
 - CN 101348216 A 20090121 - HUNAN SANYI HOISTING MACHINE C [CN]
 - US 5217126 A 19930608 - HAYASHI NORIHIKO [JP], et al
 - US 6744372 B1 20040601 - SHAW JACK B [US], et al
 - DE 202006017730 U1 20080403 - LIEBHERR WERK EHINGEN [DE]
 - DE 102005035460 A1 20070201 - LIEBHERR WERK EHINGEN [DE]
 - DE 102008021627 A1 20091112 - LIEBHERR WERK EHINGEN [DE]
 - DE 102011115240 A1 20120419 - LIEBHERR WERK EHINGEN [DE]
 - EP 0675069 A1 19951004 - PLASSER BAHNBAUMASCH FRANZ [AT]
 - EP 0779238 A1 19970618 - LIEBHERR WERK EHINGEN [DE]

Cited by

DE102015112194B4; EP3219662A1; CN104192714A; DE102015006992B4; CN109761147A; CN107176543A; DE102016104358B4; US9637355B2; WO2015107045A1; DE102015112194A1; DE102016104358A1; US11161721B2; DE102014105618A1; US10144621B2; EP3134344B1

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)

EP 2674384 A1 20131218; EP 2674384 B1 20210127; US 2013345938 A1 20131226; US 9446935 B2 20160920

DOCDB simple family (application)

EP 13002979 A 20130611; US 201313915114 A 20130611