

Title (en)

METHOD FOR LOAD TORQUE LIMITATION OF A WORKING VEHICLE COMPRISING A JIB

Title (de)

VERFAHREN ZUR LASTMOMENTBEGRENZUNG EINES ARBEITSFAHRZEUGES MIT EINEM AUSLEGER

Title (fr)

PROCÉDÉ DE LIMITATION DU COUPLE DE CHARGE D'UN ENGIN DE CHANTIER ÉQUIPÉ D'UNE FLÈCHE

Publication

EP 2585399 A1 20130501 (DE)

Application

EP 11730564 A 20110620

Priority

- DE 102010025022 A 20100624
- EP 2011003040 W 20110620

Abstract (en)

[origin: WO2011160803A1] The invention relates to a method for the load torque limitation of a work vehicle comprising a jib, in particular a mobile crane comprising a multi-part, preferably hydraulically movable jib or telescoping jib, wherein on the basis of captured operating parameters of the work vehicle such as pressure, angle, length, configuration and the like from at least one multi-dimensional characteristic map a load value is determined and compared to a load limit value which is determined depending upon the captured operating parameters, wherein a warning is issued and/or the operation of the work vehicle is automatically interrupted when the actual load value exceeds the load limit value, wherein depending upon the captured operating parameters a value for a potential total energy of the work vehicle is calculated, taking into account the configuration of the work vehicle, and the unknown load value is determined on the basis of said value.

IPC 8 full level

B66C 23/90 (2006.01)

CPC (source: EP RU US)

B66C 23/90 (2013.01 - RU US); **B66C 23/905** (2013.01 - EP US)

Citation (search report)

See references of WO 2011160803A1

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)

DE 102010025022 A1 20111229; BR 112012032993 A2 20161122; CN 102834343 A 20121219; CN 102834343 B 20160413; EP 2585399 A1 20130501; HK 1181027 A1 20131101; JP 2013529583 A 20130722; JP 2016199404 A 20161201; RU 2013102583 A 20140727; RU 2018105136 A 20190225; RU 2018105136 A3 20210413; RU 2762456 C2 20211221; US 2013087522 A1 20130411; WO 2011160803 A1 20111229

DOCDB simple family (application)

DE 102010025022 A 20100624; BR 112012032993 A 20110620; CN 201180018343 A 20110620; EP 11730564 A 20110620; EP 2011003040 W 20110620; HK 13107149 A 20130718; JP 2013515758 A 20110620; JP 2016153852 A 20160804; RU 2013102583 A 20110620; RU 2018105136 A 20110620; US 201113579788 A 20110620