

Title (en)

A PREDICTIVE STABILITY CONTROL METHOD AND SYSTEM FOR TRUCK-MOUNTED CRANES

Title (de)

VERFAHREN UND SYSTEM ZUR PRÄDIKTIVEN STABILITÄTSKONTROLLE FÜR AUTOKRANE

Title (fr)

PROCÉDÉ ET SYSTÈME DE COMMANDE PRÉDICTIVE DE STABILITÉ POUR GRUES MONTÉES SUR CAMION

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Application

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- IB 2018057962 W 20181015

Abstract (en)

[origin: WO2019073456A1] The invention describes a predictive stability control method for truck-mounted cranes, designed for lifting loads (P1, P2), comprising the steps of: setting a first representative value (V1) of the load to be lifted with said crane (3); setting second representative values (V2i; i=1..n) of provided extensions of stabilizing shafts (24) of outriggers (2) as a function of environmental conditions (C0, C1, C2) of work for said truck-mounted crane; calculating a safe load radius (X) of said crane (3) respect to its traverse axis (AX2) as a function of said representative values (V1, V2i), wherein said step of calculating said safe load radius (X) is performed before stabilizing said crane and/or performing operating steps. The invention describes furthermore a corresponding predictive stability control system and a graphical interface of predictive stability control.

IPC 8 full level

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