

Title (en)
DEVICE FOR CONTROLLING THE MOVEMENT OF A LOAD SUSPENDED FROM A CRANE

Title (de)
VORRICHTUNG ZUR STEUERUNG DER BEWEGUNG EINER VON EINEM KRAN HÄNGENDEN LAST

Title (fr)
DISPOSITIF DE REGULATION DU DEPLACEMENT D'UNE CHARGE SUSPENDUE A UNE GRUE

Publication
EP 2361216 B1 20131225 (FR)

Application
EP 09771368 A 20091214

Priority
• EP 2009067008 W 20091214
• FR 0858598 A 20081215

Abstract (en)
[origin: WO2010069890A1] The invention relates to a device (20) for controlling the movement of a load (15) suspended by cables (14) from a hook point (10) that is rotatable about a vertical axis (Z) and movable translationally along an axis of translation (X), the movement of rotation generating a first or sway angle (Tx) of the load (15) relative to the axis of translation (X). The device calculates the first or sway angle (Tx) and a speed (T'x) of the first or sway angle (Tx), the only input variables used being the length (L) of the cables (14), the distance (R) between the axis of rotation (Z) and the hook point (10) and the speed of rotation (Vy) of the hook point (10), while the acceleration (T''x) of the first or sway angle (Tx) is used as an internal variable.

IPC 8 full level
B66C 13/06 (2006.01); **B66C 23/02** (2006.01); **G05D 19/02** (2006.01)

CPC (source: EP US)
B66C 13/063 (2013.01 - EP US)

Cited by
CN110775819A

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 SM TR

DOCDB simple family (publication)
FR 2939783 A1 20100618; FR 2939783 B1 20130215; CN 102245490 A 20111116; CN 102245490 B 20130724; EP 2361216 A1 20110831; EP 2361216 B1 20131225; JP 2012512111 A 20120531; US 2011218714 A1 20110908; US 8504253 B2 20130806; WO 2010069890 A1 20100624

DOCDB simple family (application)
FR 0858598 A 20081215; CN 200980148930 A 20091214; EP 09771368 A 20091214; EP 2009067008 W 20091214; JP 2011540129 A 20091214; US 200913128768 A 20091214