

Title (en)

CRANE OR EXCAVATOR FOR HANDLING A CABLE-SUSPENDED LOAD PROVIDED WITH OPTIMISED MOTION GUIDANCE

Title (de)

KRAN ODER BAGGER ZUM UMSCHLAGEN VON EINER AN EINEM LASTSEIL HÄNGENDEN LAST MIT OPTIMIERTER BEWEGUNGSFÜHRUNG

Title (fr)

GRUE OU EXCAVATRICE DESTINEE A LA MANIPULATION D'UNE CHARGE SUSPENDUE A UN CABLE PRESENTANT UN SYSTEME DE GUIDAGE OPTIMISE

Publication

EP 1628902 A1 20060301 (DE)

Application

EP 04739403 A 20040527

Priority

- EP 2004005734 W 20040527
- DE 10324692 A 20030530

Abstract (en)

[origin: WO2004106215A1] The invention relates to a crane or excavator for handling a cable-suspended load (3) comprising a rotation system for rotating the crane or excavator, a rocker system (7) for lifting or tilting a crane arm (5) and a lifting system for lifting or lowering the cable-suspended load (3) which is provided with a drive system. According to said invention, the crane or excavator comprises a continuous control system (31) whose output values are directly or indirectly used for input values for adjusting the position or speed of the crane or excavator, the control guiding values being generated in the continuous control system (31) in such a way that the amplitude of pendulum swing of the load is minimised.

IPC 1-7

B66C 13/06

IPC 8 full level

B66C 13/06 (2006.01)

CPC (source: EP KR US)

B66C 13/06 (2013.01 - KR); **B66C 13/063** (2013.01 - EP US)

Citation (search report)

See references of WO 2004106215A1

Cited by

WO2019007541A1; CN107014902A; AU2018296142B2; GB2448432A; GB2448432B; EP4219383A1; WO2022141458A1; WO2021037526A1; WO2022114953A1; NL2026970B1; DE102021130785A1; WO2023094516A1; DE102018005068A1; WO2020001991A1; DE102017114789A1; US11447372B2; DE202019102393U1; WO2020182592A1; US11932517B2

Designated contracting state (EPC)

DE ES IT

DOCDB simple family (publication)

WO 2004106215 A1 20041209; DE 10324692 A1 20050105; DE 502004005274 D1 20071129; EP 1628902 A1 20060301; EP 1628902 B1 20071017; ES 2293271 T3 20080316; JP 2006525928 A 20061116; JP 4795228 B2 20111019; KR 20060021866 A 20060308; US 2006074517 A1 20060406; US 7426423 B2 20080916

DOCDB simple family (application)

EP 2004005734 W 20040527; DE 10324692 A 20030530; DE 502004005274 T 20040527; EP 04739403 A 20040527; ES 04739403 T 20040527; JP 2006508215 A 20040527; KR 20057022584 A 20051125; US 51042704 A 20041006