

Title (en)

CRANE OR DIGGER FOR SWINGING A LOAD HANGING ON A SUPPORT CABLE WITH DAMPING OF LOAD OSCILLATIONS

Title (de)

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

Title (fr)

GRUE OU EXCAVATEUR POUR RETOURNER UNE CHARGE SUSPENDUE A UN CABLE PORTEUR AVEC AMORTISSEMENT DU MOUVEMENT PENDULAIRE DE LA CHARGE

Publication

EP 1326798 B1 20060405 (DE)

Application

EP 01987730 A 20011018

Priority

- DE 10051915 A 20001019
- DE 10064182 A 20001222
- EP 0112080 W 20011018

Abstract (en)

[origin: WO0232805A1] The invention relates to a crane or digger for swinging a load (3), hanging on a support cable, which may be manoeuvred in three dimensions. The crane or digger comprises a computer-controlled regulator for damping the oscillations of the load, comprising a trajectory planning module (39, 41), a centripetal force compensator (150) and at least one axial controller for the slewing gear, one axial regulator for the tipping gear (45) and one axial regulator for the hoisting gear (47).

IPC 8 full level

B66C 13/06 (2006.01); **B66C 13/08** (2006.01)

CPC (source: EP US)

B66C 13/063 (2013.01 - EP US); **B66C 13/085** (2013.01 - EP US)

Cited by

DE102007039408A1; US8573019B2; US8025167B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0232805 A1 20020425; AT E322454 T1 20060415; CY 1105058 T1 20100303; DE 50109454 D1 20060518; DK 1326798 T3 20060814; EP 1326798 A1 20030716; EP 1326798 B1 20060405; ES 2260313 T3 20061101; PT 1326798 E 20060731; US 2004164041 A1 20040826; US 2010012611 A1 20100121; US 7627393 B2 20091201

DOCDB simple family (application)

EP 0112080 W 20011018; AT 01987730 T 20011018; CY 061100865 T 20060626; DE 50109454 T 20011018; DK 01987730 T 20011018; EP 01987730 A 20011018; ES 01987730 T 20011018; PT 01987730 T 20011018; US 39974504 A 20040116; US 45675309 A 20090622