Title (en)
Crane control for controlling a crane's hoisting gear

Title (de)
Kransteuerung zur Ansteuerung eines Hubwerkes eines Kranes

Title (fr)
Commande de grue pour la commande d'un dispositif de levage de grue

Publication
EP 2272786 A1 20110112 (DE)

Application
EP 10006767 A 20100630

Priority
DE 102009032269 A 20090708

Abstract (en)
The crane controller has a lifting unit, in which the oscillation-dynamics are allowed by the crane controller. The crane controller reduces the oscillation-dynamics by proper controlling to the lifting unit. The oscillation-dynamics are based on the flexibility of a hoist rope (3). The drive speed of the lifting unit is limited for limiting the overshooting of a maximum drive speed. An independent claim is also included for a method for controlling a lifting unit of a crane by a crane controller.

Abstract (de)
Die vorliegende Erfindung betrifft eine Kransteuerung zur Ansteuerung eines Hubwerkes eines Kranes, welche bei der Ansteuerung des Hubwerkes die auf der Dehnbarkeit des Hubseiles beruhende Schwingungs-Dynamik berücksichtigt und durch geeignete Ansteuerung des Hubwerkes reduziert.

IPC 8 full level
B66C 13/06 (2006.01)

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

Citation (search report)
• [A] JP 2005320146 A 20051117 - ISHIKAWAJIMA HARIMA HEAVY IND
• [A] DE 102007039408 A1 20081120 - LIEBHERR WERK NENZING [AT]
• [A] EP 1652810 A1 20060503 - SINTOKOGIO LTD [JP], et al
• [A] EP 1880971 A2 20080123 - LIEBHERR WERK NENZING [AT]

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EP3470361A1; FR3072373A1; US10526173B2

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2272786 A1 20110112; EP 2272786 B1 20121017; AU 2010202864 A1 20110127; AU 2010202864 B2 20160414;
BR PI1004098 A2 20120410; CA 2708797 A1 20110108; CA 2708797 C 20170905; CN 101948083 A 20110119; CN 101948083 B 20141224;
DE 102009032269 A1 20110113; ES 2394318 T3 20130130; JP 2011016663 A 20110127; JP 5759684 B2 20150805;
KR 101285980 B1 20130712; KR 20110004792 A 20110114; RU 2010128173 A 20120120; RU 2534694 C2 20141210;
US 2011006024 A1 20110113; US 8708170 B2 20140429

DOCDB simple family (application)
EP 10006767 A 20100630; AU 2010202864 A 20100707; BR PI1004098 A 20100708; CA 2708797 A 20100630; CN 201010226403 A 20100708;
DE 102009032269 A 20090708; ES 10006767 T 20100630; JP 2010154762 A 20100707; KR 20100065120 A 20100707;
RU 2010128173 A 20100707; US 83251210 A 20100708