

Title (en)

Method and device for the control of the load for a crane with foldable boom

Title (de)

Verfahren und Vorrichtung zur Steuerung der Last eines Drehkranes mit ausklappbarem Ausleger

Title (fr)

Procédé et dispositif de contrôle de la charge d'une grue à tour à flèche relevable

Publication

EP 1775252 A1 20070418 (FR)

Application

EP 06356068 A 20060614

Priority

FR 0508253 A 20050802

Abstract (en)

The method involves alternatively using two separated load curves (B, C) depending on the radius (P) of a luffing jib tower crane as a result of the position of a jib of the crane. The curve (B) is used between the minimum radius (Pm) and an intermediate radius (PO). The curve (C) is used between the intermediate radius and the maximum radius (PM) corresponding to a greater load moment. The curve (C) is obtained by homothetic transformation of the curve (B). An independent claim is also included for a device for controlling the load of a luffing jib tower crane.

IPC 8 full level

B66C 23/90 (2006.01)

CPC (source: EP)

B66C 23/905 (2013.01)

Citation (applicant)

- US 5263597 A 19931123 - STEWART JAMES T [US], et al
- US 4039084 A 19770802 - SHINOHARA SHINITSU, et al

Citation (search report)

- [A] US 5263597 A 19931123 - STEWART JAMES T [US], et al
- [A] US 4039084 A 19770802 - SHINOHARA SHINITSU, et al
- [A] US 4211332 A 19800708 - PITMAN RAYMOND F [US]
- [A] EP 1312579 A2 20030521 - INGERSOLL RAND CO [US]

Cited by

FR3037681A1; KR20180019537A; CN102167259A; EP4116251A1; FR3125032A1; US1199598B2; US11148914B2; WO2016203165A1

Designated contracting state (EPC)

DE ES IT

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

FR 2889513 A1 20070209; FR 2889513 B1 20070921; AU 2006203257 A1 20070222; AU 2006203257 B2 20110519; CN 1907836 A 20070207; CN 1907836 B 20100512; EP 1775252 A1 20070418; EP 1775252 B1 20110907; ES 2373052 T3 20120131; MY 141274 A 20100416

DOCDB simple family (application)

FR 0508253 A 20050802; AU 2006203257 A 20060801; CN 200610103795 A 20060801; EP 06356068 A 20060614; ES 06356068 T 20060614; MY PI20063618 A 20060727