

Title (en)

Auxiliary safety sistem for tower rotating crane.

Title (de)

Hilf-Sicherheitsanlage für Turmdrehkran.

Title (fr)

Système auxiliaire de sécurité pour une grue à tour pivotante.

Publication

**EP 0166701 A1 19860102 (EN)**

Application

**EP 85830146 A 19850613**

Priority

IT 3161984 U 19840613

Abstract (en)

An auxiliary safety system for crane and particularly for tower crane with horizontal slewing jib. In order to give the greatest safety either to such slewing jib against yieldings of those mechanical members or elements which are provided to maintain them in their horizontal slowing state, and to the upper slewing section of the crane tower the axis of which is to be maintained in its vertical position within the forecast limits of tolerance, such auxiliary safety system comprises a first auxiliary safety means formed by tension ropes (20, 21) operating elastically through the co-operation of spiral springs (28) to maintain the jib/jibs (11, 12) in their horizontal slewing plane, and a second auxiliary safety means formed by a cage (16) extended upwards from the area of thrust bearing (15) between stationary and slewing sections (13, 14), respectively of crane tower and provided with a top collar (30) on the inner perimetrical surface of which rollers (31) mounted on said slewing section (14) are pushed elastically and rolling, in order to maintain the axis of this latter in its vertical, central position.

IPC 1-7

**B66C 23/26**; **B66C 23/88**

IPC 8 full level

**B66C 23/26** (2006.01); **B66C 23/88** (2006.01)

CPC (source: EP)

**B66C 23/26** (2013.01); **B66C 23/88** (2013.01)

Citation (search report)

- [A] FR 1296149 A 19620615 - FOENETER S A
- [A] GB 191415558 A 19150218 - BLUE CHARLES WOLFE [US]
- [A] FR 2200088 A1 19740419 - KALTENBACH WERNER [DE]
- [A] US 3752326 A 19730814 - LEVINGSTON C
- [A] GB 1183609 A 19700311 - EDILMAC S P A [IT]
- [A] FR 2172044 A1 19730928 - CADILLON ROGER [FR]
- [A] DE 1024696 B 19580220 - MENCK & HAMBROCK GMBH

Cited by

CN106081911A; CN106081958A; CN103303816A; CN107673246A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**EP 0166701 A1 19860102**; IT 8431619 V0 19840613

DOCDB simple family (application)

**EP 85830146 A 19850613**; IT 3161984 U 19840613