

Title (en)
Crane with a telescopic tower.

Title (de)
Kran mit teleskopierbarem Turm.

Title (fr)
Grue à tour télescopique.

Publication
EP 0132572 A1 19850213 (DE)

Application
EP 84106894 A 19840615

Priority
DE 3322268 A 19830621

Abstract (en)
1. A crane comprising a telescopic tower (4, 7), which is secured to a revolving superstructure or to the rotating deck (2) of a portal (12) and has an extensible part (7), which at its upper end is articulately connected to the inner girder section (9) of the jib, wherein an outer girder section (11) of the jib is hinged to the inner girder section (9) at the outer end thereof, comprising a counterbalancing jib (24), which is secured to the top end of the extensible part and has a free end, wherein a rear guy rope (12), which is fixed (at 13) to the revolving superstructure or to the rotating deck and from said fixing point extends around said free end to a fixed point (15) at the outer end of a jib support (16), which is hinged to the top end of the extensible part, comprising two additional forward guy ropes (17, 19), which are secured to the fixed point (15) of the jib support, wherein the end of the first (17) of said additional guy ropes is secured to the outer portion (18) of the inner girder section, the other end of the second guy rope is secured to the end (24) of a central support (21), a third guy rope (22) is secured to the end (24), and the other end of the third guy rope (22) is secured to the outer portion (23) of the outer girder section of the beam, and comprising a rope (26), which is secured to the outer girder section and is trained around a pulley (32) at the end of the central support and around a deflecting pulley (31) of the inner girder section and around additional deflecting pulleys (27, 27', 30) and then extends to an assembling winch (25), by which the outer girder section is pivotally movable relative to the inner girder section of the jib, characterized in that the rope (26) is trained around two coaxial deflecting pulleys (27, 27'), which are rotatably mounted on the rear end portion of the counter-balancing jib (24), which is rigidly connected to the extensible part (7), and the rope (26) is trained between said deflecting rollers (27, 27') around a pulley of a block (28), which carries a ballast hook and is movable as far as to a stop, and the tower (4, 7) is pivoted and provided with a luffing drive (5, 6).

Abstract (de)
Ein Kran mit einem auf einem Oberwagen gelagerten teleskopierbaren Turm (4), mit einem am Kopfende des ausfahrbaren Teils (7) des Turms befestigten Gegenausleger (24), mit vorderen und hinteren Abspannseilen muß vor der Aufnahme seines Betriebes mit Gewichten (35) ballastiert werden. Um den Kran ohne aufwendige Zusatzeinrichtungen ballastieren zu können, wird der Montagewinde (25) und dem zugehörigen Seil (26) neben der Verschwenkung des äußeren Trägereils (11) des Auslegers eine zweite Funktion als Ballastiereinrichtung zugewiesen. Hierzu wird das Ende des Seils (26) an dem Turm oder einem Trägereil des Auslegers verankert, so daß der Ballastierhaken (29) durch Wippen des noch nicht teleskopierten Turms (4) über den aufzunehmenden Ballast (35) gebracht werden kann. Durch Betätigung der Montagewinde (25) läßt sich der Ballast (35) aufnehmen. Zusätzlich ist der schwenkbar gelagerte Turm (4, 7) mit einem Wippantrieb (5, 6) versehen.

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CPC (source: EP)
B66C 23/342 (2013.01); **B66C 23/74** (2013.01)

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• [A] DE 2615359 A1 19761021 - POTAIN SA
• [A] DE 2101841 B2 19730222
• [A] DE 1198029 B 19650805 - VNII STR I DOROSHOWO MASH
• [A] FR 2464217 A1 19810306 - CADILLON [FR]
• [A] FR 1460872 A 19660107 - EXPL DES ETABLISSEMENTS BOILOT
• [A] DK 120818 C
• [AD] DE 2914265 A1 19791031 - POTAIN SA
• [AD] DE 2831286 A1 19790208 - ACME ATEL CONST MEC
• [AD] DE 2614223 A1 19761014 - CADILLON ROGER BENOIT
• [AD] DE 8009033 U1 19800904

Cited by
EP1084983A1; EP0941958A1; EP0873964A1; FR2761970A1; AT514122A3; AT514122B1; CN116969353A; US7546928B2; US10183848B2; US10179722B2; US10457530B2; US11208303B2; US11261064B2; US7967158B2; US8511489B2; US8827092B2; US10336589B2; US11884522B2

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