

Title (en)
CRANE, IN PARTICULAR LOADING CRANE FOR A VEHICLE

Title (de)
KRAN, INSBESONDERE LADEKRAN FÜR EIN FAHRZEUG

Title (fr)
GRUE, EN PARTICULIER GRUE DE CHARGEMENT POUR UN VÉHICULE

Publication
EP 2776361 B1 20150318 (DE)

Application
EP 12772187 A 20120914

Priority

- AT 6072011 U 20111108
- AT 2012000238 W 20120914

Abstract (en)
[origin: WO2013067552A1] The invention relates to a crane (1), in particular a loading crane for a vehicle, comprising - a crane pillar (3), which is rotatably mounted about a vertical axis (V), - at least one jib (4), which is connected to the crane pillar (3) and which is pivotally mounted about a horizontal axis (H), - at least one jib extension (5), which is movably mounted in the jib (4), and - at least one piston-cylinder unit (6) for extending and retracting the jib extension (5) relative to the jib (4), the first end of the at least one piston-cylinder unit (6) engaging the jib (4) via at least one first force-introducing region (7) and the second end engaging the at least one jib extension (5) via at least one second force-introducing region (8). The at least one piston-cylinder unit (6) has a central plane (M) that runs in a viewing direction parallel to the horizontal axis (H) about which the jib (4) is pivotally mounted, and the at least one piston-cylinder unit (6) has a compressive deformation (D) in a direction perpendicular to the central plane (M) in a pressure-loaded state while the jib is being extended and a tensile deformation (Z) in a direction opposite the compressive deformation (D) in a tension-loaded state while the jib is being retracted. The second end of the at least one piston-cylinder unit (6) engages the at least one jib extension (5) via at least two force-introducing regions (8), wherein one of said at least two force-introducing regions (8) is arranged offset to the central plane (M) in the direction opposite the compressive deformation (D) and the other of said at least two force-introducing regions (8) is arranged offset to the central plane in the direction opposite the tensile deformation (Z).

IPC 8 full level
B66C 23/70 (2006.01); **B66C 23/00** (2006.01); **B66C 23/04** (2006.01); **B66C 23/42** (2006.01); **B66C 23/68** (2006.01)

CPC (source: EP US)
B66C 23/42 (2013.01 - US); **B66C 23/54** (2013.01 - EP US); **B66C 23/68** (2013.01 - US); **B66C 23/705** (2013.01 - EP US);
B66C 23/707 (2013.01 - EP US)

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 RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013067552 A1 20130516; AT 12942 U1 20130215; AU 2012334813 A1 20140522; AU 2012334813 B2 20150618;
BR 112014011001 A2 20170606; CN 104010961 A 20140827; CN 104010961 B 20151125; DK 2776361 T3 20150615;
EP 2776361 A1 20140917; EP 2776361 B1 20150318; ES 2539471 T3 20150701; PL 2776361 T3 20150831; RU 2566172 C1 20151020;
US 2014263145 A1 20140918; US 9701521 B2 20170711

DOCDB simple family (application)
AT 2012000238 W 20120914; AT 6072011 U 20111108; AU 2012334813 A 20120914; BR 112014011001 A 20120914;
CN 201280062785 A 20120914; DK 12772187 T 20120914; EP 12772187 A 20120914; ES 12772187 T 20120914; PL 12772187 T 20120914;
RU 2014123006 A 20120914; US 201414268287 A 20140502