

Title (en)

Crane vehicle with detachable counterweight system

Title (de)

Fahrzeugkran mit entkoppelbarer Gegengewichtsanordnung

Title (fr)

Grue de véhicule avec dispositif de contrepoids pouvant être découplé

Publication

EP 2657176 B1 20150708 (DE)

Application

EP 13155179 A 20130214

Priority

DE 102012006494 A 20120330

Abstract (en)

[origin: EP2657176A1] The crane has a rotary table rotatably mounted on a chassis. A boom is mounted at the rotary table, and rocking around a horizontal axis. A counter weight arrangement is mounted at the rotary table and movable relative to the rotary table. A coupling device (4) mechanically couples a position of the counter weight arrangement at a rocking angle of the boom. The coupling device is decouplingly designed. A coupling rod (5) is designed such that a fork-like force application part of the rod is spaced at a distance from a complementary bolt-like force application part.

IPC 8 full level

B66C 23/76 (2006.01)

CPC (source: EP KR US)

B66C 23/76 (2013.01 - EP KR US)

Citation (examination)

DE 3438937 A1 19860424 - LIEBHERR WERK BIBERACH GMBH [DE]

Cited by

EP3050837A1; DE102015001080A1; EP3222576A1; US10124994B2; US10647554B2

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)

EP 2657176 A1 20131030; EP 2657176 B1 20150708; BR 102013006026 A2 20150602; CA 2805936 A1 20130930; CN 103359635 A 20131023; CN 103359635 B 20160106; DE 102012006494 A1 20131002; DE 102012006494 B4 20140313; ES 2546894 T3 20150929; JP 2013212929 A 20131017; JP 5750467 B2 20150722; KR 20130111323 A 20131010; US 2013270209 A1 20131017; US 9440824 B2 20160913

DOCDB simple family (application)

EP 13155179 A 20130214; BR 102013006026 A 20130313; CA 2805936 A 20130215; CN 201310093024 A 20130322; DE 102012006494 A 20120330; ES 13155179 T 20130214; JP 2013041854 A 20130304; KR 20130029805 A 20130320; US 201313852378 A 20130328