

Title (en)
MOBILE CRANE

Title (de)
MOBILER KRAN

Title (fr)
GRUE MOBILE

Publication
EP 3805142 A4 20210901 (EN)

Application
EP 19834030 A 20190712

Priority
• JP 2018133637 A 20180713
• JP 2019027731 W 20190712
• JP 2018133634 A 20180713
• JP 2018133635 A 20180713
• JP 2018133636 A 20180713

Abstract (en)
[origin: EP3805142A1] A mobile crane (10) includes: a lower traveling body (11) including a pair of crawlers (3) each extending in forward and rearward directions and spaced apart from each other in leftward and rightward directions; an upper slewing body (12) supported on the lower traveling body (11) slewably about a slewing axis (C); a tiltable attachment including a boom (14) tiltably supported on the upper slewing body (12); and a physical quantity detector. The lower traveling body (11) has a reaction force receiving part for receiving a reaction force from the ground at a position away from the slewing axis (C) in a boom direction in a state where the pair of crawlers (3) are in contact with the ground, the boom direction coinciding with a horizontal component of a direction in which the boom extends from the upper slewing body, and the physical quantity detector is configured to detect a physical quantity which changes in accordance with a change in the reaction force received from the ground by the reaction force receiving part.

IPC 8 full level
B66C 23/90 (2006.01); **B66C 23/80** (2006.01)

CPC (source: EP)
B66C 23/80 (2013.01); **B66C 23/905** (2013.01)

Citation (search report)
• [XY] JP 2003112889 A 20030418 - HITACHI CONSTRUCTION MACHINERY
• [X] DE 202010001192 U1 20110601 - LIEBHERR WERK EHINGEN [DE]
• [X] EP 3067257 A2 20160914 - MANITOWOC CRANE GROUP F SAS [FR]
• [A] EP 3096119 A1 20161123 - TECSIS SHENZHEN SENSOR CO LTD [CN], et al
• [A] DE 2609631 A1 19770915 - METZ GMBH CARL
• [Y] JP H038698 A 19910116 - TADANO TEKKOSHO KK
• See also references of WO 2020013320A1

Cited by
EP4357293A2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3805142 A1 20210414; EP 3805142 A4 20210901; EP 3805142 B1 20240501; EP 4357293 A2 20240424; EP 4357293 A3 20240717

DOCDB simple family (application)
EP 19834030 A 20190712; EP 24162948 A 20190712