

Title (en)  
VERTICAL LIFTING ARRANGEMENT FOR CONSTRUCTION MACHINE

Title (de)  
VERTIKALHUBANORDNUNG FÜR BAUMASCHINE

Title (fr)  
AGENCEMENT DE LEVAGE VERTICAL POUR ENGIN DE CHANTIER

Publication  
**EP 3610079 A4 20210421 (EN)**

Application  
**EP 18901938 A 20181123**

Priority  
• CN 201810076343 A 20180126  
• CN 2018117225 W 20181123

Abstract (en)  
[origin: US2020370269A1] A lifting arrangement for a construction machine includes a frame arrangement with a front frame portion and a rear frame portion. The lifting arrangement is mountable to the front frame portion and comprises a main arm including a pivot connector and an equipment connector and a main arm support means for pivotably supporting the pivot connector. The main arm support means is movable in a front-rear direction with respect to the frame arrangement. The equipment connector, upon pivoting the main arm between a lowered position and a lifted position, follows a substantially vertical path. The lifting arrangement comprises a tilting arrangement for tilting an equipment mounted to the equipment connector. The tilting arrangement comprises a kinematic chain for attachment to a tilting connector of the equipment mounted to the equipment connector. The kinematic chain comprises a tilting link and a connecting link pivotably connected to each other.

IPC 8 full level  
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CPC (source: CN EP US)  
**E02F 3/28** (2013.01 - CN); **E02F 3/283** (2013.01 - US); **E02F 3/3405** (2013.01 - EP US); **E02F 3/3408** (2013.01 - US); **E02F 3/3411** (2013.01 - EP); **E02F 3/3417** (2013.01 - US); **E02F 3/342** (2013.01 - US); **E02F 3/36** (2013.01 - CN); **E02F 3/38** (2013.01 - EP US); **E02F 3/42** (2013.01 - CN US); **E02F 3/422** (2013.01 - US); **E02F 3/431** (2013.01 - US); **E02F 9/0841** (2013.01 - US); **E02F 9/2271** (2013.01 - US); **E02F 9/264** (2013.01 - EP); **E02F 9/0841** (2013.01 - EP)

Citation (search report)  
• [Y] CN 103790193 A 20140514 - QINGDAO LUDA PROJECT MACHINE MANUFACTURE CO LTD  
• [Y] US 3122248 A 19640225 - CAMPBELL TREVOR G, et al  
• [Y] EP 3051032 A2 20160803 - GUANGXI LIUGONG MACHINERY CO [CN]  
• [A] US 3045845 A 19620724 - HACKETT THEODORE N, et al  
• See references of WO 2019144688A1

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

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DOCDB simple family (publication)  
**US 2020370269 A1 20201126**; CN 110809657 A 20200218; EP 3610079 A1 20200219; EP 3610079 A4 20210421;  
WO 2019144688 A1 20190801

DOCDB simple family (application)  
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