

Title (en)  
LOADER WORKING DEVICE

Title (de)  
LADERARBEITSVORRICHTUNG

Title (fr)  
DISPOSITIF DE TRAVAIL DE CHARGEUR

Publication  
**EP 3610078 A4 20210127 (EN)**

Application  
**EP 19744186 A 20190125**

Priority  
• CN 201810076343 A 20180126  
• CN 2019073111 W 20190125

Abstract (en)  
[origin: US2020080279A1] The disclosure relates to a loader working device for solving the problem of arranging the parts used in a vertical lifting mechanism of an existing loader. The loader working device comprises an accessory, an accessory overturning mechanism, and an accessory lifting mechanism including a movable arm, a movable arm oil cylinder, a front link rod and a rear link rod. The accessory lifting mechanism does not cause the accessory to interfere with a rocker arm and a front axle package of the loader working device. A connecting and mounting point of the movable arm and the accessory can be moved backwardly, thus improving a digging force and a tilting load at a low position of the loader working device.

IPC 8 full level  
**E02F 3/28** (2006.01); **E02F 3/34** (2006.01); **E02F 3/38** (2006.01); **E02F 9/08** (2006.01)

CPC (source: CN EP US)  
**E02F 3/28** (2013.01 - CN); **E02F 3/3405** (2013.01 - EP US); **E02F 3/3408** (2013.01 - US); **E02F 3/3411** (2013.01 - EP US);  
**E02F 3/3417** (2013.01 - US); **E02F 3/36** (2013.01 - CN); **E02F 3/38** (2013.01 - EP); **E02F 3/42** (2013.01 - CN); **E02F 3/422** (2013.01 - US);  
**E02F 9/0841** (2013.01 - EP)

Citation (search report)  
• [X] JP H11140900 A 19990525 - KOMATSU MFG CO LTD  
• [X] US 5169278 A 19921208 - HOECHST LONNIE D [US], et al  
• [A] US 2005045351 A1 20050303 - O'BRIEN DAVID MICHAEL [US], et al  
• [A] US 3598267 A 19710810 - WHITCOMB PAUL H  
• See references of WO 2019144924A1

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)  
**US 2020080279 A1 20200312**; CN 108301448 A 20180720; CN 108301448 B 20190820; CN 110662873 A 20200107; EP 3610078 A1 20200219;  
EP 3610078 A4 20210127; WO 2019144924 A1 20190801

DOCDB simple family (application)  
**US 201916614001 A 20190125**; CN 201810076343 A 20180126; CN 2019073111 W 20190125; CN 201980002525 A 20190125;  
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