

Title (en)

MOVABLE DEVICE FOR JOINING A TOOL TO A LOADING MACHINE

Title (de)

BEWEGLICHE VORRICHTUNG ZUR VERBINDUNG EINES WERKZEUGS MIT EINER LADEMASCHINE

Title (fr)

DISPOSITIF DÉPLAÇABLE POUR RELIER UN OUTIL À UNE MACHINE CHARGEUSE

Publication

**EP 3792406 A4 20220316 (EN)**

Application

**EP 19800336 A 20190507**

Priority

- ES 201830654 U 20180508
- ES 2019070298 W 20190507

Abstract (en)

[origin: EP3792406A1] The invention relates to a movable device for joining a tool to a loading machine, said machine being provided with a set of blades for coupling said tool and with extendable and retractable securing bolts, and the rear portion of the tool being provided with respective housings for securing the blades, and with respective grooves arranged in respective projections for securing the bolts, wherein the housings are longer than the width of the blades, and it comprises a set of abutments movable along the housings between at least two positions that determine various positions for securing the blades of the loading machine; by means of which the length of the housings adapts to the width of the blades; and wherein the projections have a series of grooves corresponding to each of the positions for securing the blades in the housings as a function of the position of the abutments.

IPC 8 full level

**E02F 3/04** (2006.01); **E02F 3/36** (2006.01); **E02F 3/76** (2006.01)

CPC (source: EP)

**E01H 1/056** (2013.01); **E02F 3/3604** (2013.01); **E02F 3/3677** (2013.01); **E02F 3/7609** (2013.01); **E02F 3/96** (2013.01)

Citation (search report)

- [A] US 5403144 A 19950404 - STABEN JR FRANK P [US]
- [A] US 2002127090 A1 20020912 - DICK DENNIS J [US]
- [A] US 4893683 A 19900116 - HORSCH RUDOLF [US], et al
- [A] US 2016208455 A1 20160721 - MARTIN KYLE T [US], et al
- [A] KR 20100107308 A 20101005 - DAEHO CO LTD [KR]
- See references of WO 2019215364A1

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 3792406 A1 20210317**; **EP 3792406 A4 20220316**; **EP 3792406 B1 20230125**; ES 1213715 U 20180604; ES 1213715 Y 20180912; WO 2019215364 A1 20191114

DOCDB simple family (application)

**EP 19800336 A 20190507**; ES 201830654 U 20180508; ES 2019070298 W 20190507