

Title (en)

WORK CYLINDER DEVICE WITH AT LEAST ONE WORK CYLINDER UNIT WITH MECHANICAL POSITION LOCKING AND METHOD FOR OPERATING THE SAME

Title (de)

ARBEITSZYLINDER-VORRICHTUNG MIT WENIGSTENS EINER ARBEITSZYLINDER-EINHEIT MIT MECHANISCHER POSITIONSSICHERUNG SOWIE VERFAHREN ZU IHREM BETRIEB

Title (fr)

DISPOSITIF DE CYLINDRE DE TRAVAIL DOTÉ D'AU MOINS UNE UNITÉ DE CYLINDRE DE TRAVAIL À BLOCAGE DE POSITION MÉCANIQUE AINSI QUE PROCÉDÉ DE FONCTIONNEMENT

Publication

**EP 3346143 B1 20210203 (DE)**

Application

**EP 17206146 A 20171208**

Priority

- DE 102016125782 A 20161228
- DE 202017106100 U 20171009

Abstract (en)

[origin: US2018180071A1] In order to secure a reached extension position of a piston rod (22, 22') of an in particular multi stage operating cylinder device (100) with at least one operating cylinder unit (50) not only through the operating pressure in the cylinder (1, 1') of the operating cylinder unit (50) but additionally mechanically, a mechanical safety through interlocking safety elements (4a, b) in the interior of the operating cylinder device (100) is provided which is activated exclusively by the operating pressure in the first pressure cavity and disengaged by a pressure in a second operating cavity.

IPC 8 full level

**F15B 15/16** (2006.01); **B66F 3/24** (2006.01); **B66F 3/30** (2006.01); **F15B 15/26** (2006.01)

CPC (source: EP US)

**B66F 3/28** (2013.01 - EP US); **B66F 3/30** (2013.01 - EP US); **F15B 15/16** (2013.01 - EP US); **F15B 15/261** (2013.01 - EP US); **F15B 15/2846** (2013.01 - US); **F15B 15/2892** (2013.01 - US); **F15B 2211/40576** (2013.01 - US); **F15B 2211/6306** (2013.01 - US); **F15B 2211/6336** (2013.01 - US); **F15B 2211/6653** (2013.01 - US); **F15B 2211/72** (2013.01 - US)

Cited by

CN1111115503A

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 3346143 A1 20180711**; **EP 3346143 B1 20210203**; ES 2863252 T3 20211011; US 10578135 B2 20200303; US 2018180071 A1 20180628

DOCDB simple family (application)

**EP 17206146 A 20171208**; ES 17206146 T 20171208; US 201715855566 A 20171227