

Title (en)  
HYDRAULIC RESCUE DEVICE FOR MANUAL OPERATION BY A RESCUER

Title (de)  
HYDRAULISCHES RETTUNGSGERÄT ZUR MANUELLEN BEDIENUNG DURCH EINE RETTUNGSPERSON

Title (fr)  
UNITÉ DE SAUVETAGE HYDRAULIQUE À MANIEMENT MANUEL PAR UN SAUVETEUR

Publication  
**EP 3592435 B1 20210120 (DE)**

Application  
**EP 18719414 A 20180309**

Priority  
• AT 501902017 A 20170310  
• AT 2018060061 W 20180309

Abstract (en)  
[origin: WO2018161103A1] The invention relates to a hydraulic rescue device (1) for manual operation by a rescuer. The rescue device (1) comprises a hydraulic cylinder (5) comprising a cylinder tube (6) and at least one piston rod (7, 7') that can be adjusted relative to the cylinder tube (6), at least one support surface (17) formed on the cylinder tube (6) for supporting the rescue device (1) in a load-transferring manner on first object surfaces that can be freely selected by a rescuer, at least one second support surface (19), formed on the at least one piston rod (7, 7'), for supporting the rescue device (1) in a load-transferring manner on second object surfaces that can be freely selected by a rescuer, and at least one control valve (14) that can be operated manually. On the casing surface (22, 22') of the at least one piston rod (7, 7'), at least one or more markings (23, 23'), which can be read by a rescuer, are formed, which at least one marking (23, 23') is provided at least to signal a remaining stroke (24) that is still available and/or an adjusting stroke (25) already travelled of the at least one piston rod (7, 7') with respect to the cylinder tube (6).

IPC 8 full level  
**A62B 3/00** (2006.01); **B66F 3/24** (2006.01); **B66F 3/25** (2006.01)

CPC (source: AT EP RU US)  
**A62B 3/005** (2013.01 - AT EP RU US); **B64D 1/02** (2013.01 - AT); **B64D 47/08** (2013.01 - AT); **B66F 3/24** (2013.01 - EP RU); **B66F 3/25** (2013.01 - EP RU); **G03B 37/005** (2013.01 - AT)

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)  
**WO 2018161103 A1 20180913**; AT 519726 A1 20180915; BR 112019013631 A2 20200121; CN 110382056 A 20191025; CN 110382056 B 20210528; EP 3592435 A1 20200115; EP 3592435 B1 20210120; JP 2020512158 A 20200423; JP 7083852 B2 20220613; RU 2019131815 A 20210412; RU 2019131815 A3 20210610; RU 2752394 C2 20210727; US 2019366132 A1 20191205

DOCDB simple family (application)  
**AT 2018060061 W 20180309**; AT 501902017 A 20170310; BR 112019013631 A 20180309; CN 201880009060 A 20180309; EP 18719414 A 20180309; JP 2019570596 A 20180309; RU 2019131815 A 20180309; US 201816480033 A 20180309