

Title (en)  
COMPRESSED-AIR-OPERATED EXPULSION DEVICE

Title (de)  
DRUCKLUFTBETRIEBENE AUSTREIBVORRICHTUNG

Title (fr)  
DISPOSITIF D'EXPULSION FONCTIONNANT AVEC DE L'AIR COMPRIMÉ

Publication  
**EP 3823791 B1 20230830 (DE)**

Application  
**EP 19752426 A 20190718**

Priority

- DE 102018117519 A 20180719
- EP 2019069439 W 20190718

Abstract (en)  
[origin: WO2020016383A1] The invention relates to a compressed-air-operated expulsion device (10) for expelling objects (14) or fluid materials from a reservoir by means of a drive piston (18), which can be impinged upon by a gas volume compressible in a compression chamber (23). The drive piston (18) has a drive device for compressing the gas volume and a release device for decompressing the compressed gas volume. The compression chamber (23) has a venting device for temporarily venting the compression chamber (23) and a filling device (41) for filling the vented compression chamber (23) with compressed air.

IPC 8 full level  
**B25C 1/04** (2006.01); **B25C 1/06** (2006.01)

CPC (source: EP KR US)  
**B25C 1/041** (2013.01 - EP KR); **B25C 1/042** (2013.01 - US); **B25C 1/043** (2013.01 - US); **B25C 1/06** (2013.01 - EP KR)

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 2020016383 A1 20200123**; AU 2019306305 A1 20210128; AU 2019306305 B2 20220414; CL 2021000128 A1 20210820; CN 112423937 A 20210226; CN 112423937 B 20240517; DE 102018117519 A1 20200123; EP 3823791 A1 20210526; EP 3823791 B1 20230830; EP 3823791 C0 20230830; ES 2964090 T3 20240404; JP 2021531182 A 20211118; JP 7466212 B2 20240412; KR 102535434 B1 20230526; KR 20210032959 A 20210325; PL 3823791 T3 20240226; TW 202012124 A 20200401; UA 125202 C2 20220126; US 2021308849 A1 20211007

DOCDB simple family (application)  
**EP 2019069439 W 20190718**; AU 2019306305 A 20190718; CL 2021000128 A 20210115; CN 201980048092 A 20190718; DE 102018117519 A 20180719; EP 19752426 A 20190718; ES 19752426 T 20190718; JP 2021525373 A 20190718; KR 20217001654 A 20190718; PL 19752426 T 20190718; TW 108125486 A 20190718; UA A202100122 A 20190718; US 201917261045 A 20190718