

Title (en)  
FASTENER EXTRACTOR DEVICE

Title (de)  
EXTRAKTORVORRICHTUNG FÜR BEFESTIGUNGSMITTEL

Title (fr)  
DISPOSITIF EXTRACTEUR D'ÉLÉMENTS DE FIXATION

Publication  
**EP 3814060 A4 20211020 (EN)**

Application  
**EP 19852303 A 20190725**

Priority  
• IB 2019056348 W 20190725  
• US 201916255341 A 20190123  
• US 201816107842 A 20180821  
• US 201862733507 P 20180919

Abstract (en)  
[origin: WO2020039281A1] A fastener extractor device for removing seized fasteners and aiding in disengaging the extractor device from said seized fastener afterwards. The extractor device includes a shank body, a drive head, a torque-tool body, a tubular sleeve, an external thread, and an internal thread. The torque-tool body includes a plurality of laterally-bracing sidewalls and an at least one engagement feature. The engagement feature is integrated into a specific sidewall to bite into a sized fastener. The drive head is terminally and concentrically connected to the shank body to receive an external torque tool. The torque-tool body is terminally and concentrically connected to the shank body, opposite the drive head. The tubular sleeve is slidably engaged along the shank body through the internal thread and the external thread to physically disengage the torque-tool body from a seized fastener.

IPC 8 full level  
**B25B 27/02** (2006.01); **B25B 27/04** (2006.01); **B25B 27/14** (2006.01); **B25B 27/18** (2006.01)

CPC (source: AU EP)  
**B25B 13/065** (2013.01 - AU); **B25B 15/005** (2013.01 - AU); **B25B 15/008** (2013.01 - AU); **B25B 23/108** (2013.01 - AU);  
**B25B 27/023** (2013.01 - EP); **B25B 27/04** (2013.01 - EP); **B25B 27/18** (2013.01 - EP); **B25B 15/005** (2013.01 - EP); **B25B 15/008** (2013.01 - EP)

Citation (search report)  
• [A] US 2017246733 A1 20170831 - SHEHAB KAREEM GAMAL [US]  
• [A] EP 0930132 A2 19990721 - EAZYPOWER CORP [US]  
• See also references of WO 2020039281A1

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)  
**WO 2020039281 A1 20200227**; AU 2019323774 A1 20210211; AU 2023237134 A1 20231102; AU 2023237134 B2 20231214;  
AU 2024201526 A1 20240328; CA 3107709 A1 20200227; CN 112638588 A 20210409; CN 112638588 B 20220708; EP 3814060 A1 20210505;  
EP 3814060 A4 20211020; EP 3814060 B1 20221026; EP 4129577 A1 20230208; ES 2935712 T3 20230309; JP 2021534982 A 20211216;  
JP 7198467 B2 20230104; PL 3814060 T3 20230313

DOCDB simple family (application)  
**IB 2019056348 W 20190725**; AU 2019323774 A 20190725; AU 2023237134 A 20230928; AU 2024201526 A 20240307;  
CA 3107709 A 20190725; CN 201980054388 A 20190725; EP 19852303 A 20190725; EP 22195634 A 20190725; ES 19852303 T 20190725;  
JP 2021506655 A 20190725; PL 19852303 T 20190725