

Title (en)

FASTENER EXTRACTOR AND DISLODGING TOOL APPARATUS

Title (de)

VORRICHTUNG ZUM HERAUSZIEHEN UND LÖSEN VON BEFESTIGUNGSELEMENTEN

Title (fr)

APPAREIL D'EXTRACTION ET DE DESSERRAGE D'ÉLÉMENT DE FIXATION

Publication

EP 4245463 A1 20230920 (EN)

Application

EP 23171947 A 20190725

Priority

- US 201862733507 P 20180919
- US 201916255341 A 20190123
- US 201916514117 A 20190717
- EP 19862898 A 20190725
- IB 2019056347 W 20190725

Abstract (en)

A fastener extractor and dislodging tool apparatus includes a torque-tool body, a threaded opening, a plurality of engagement features, and a release bolt. The plurality of engagement features that grips the lateral surface of the stripped fastener is radially positioned around a rotation axis of the torque-tool body. The plurality of engagement features being perimetrically connected around a base of the torque-tool body thus delineating a socket body that removes the stripped fastener. The threaded opening traverses through the base so that the release bolt can be threadedly engaged with the threaded opening, opposite of the plurality of engagement features. When the stripped fastener is jammed within the plurality of engagement features, the release bolt can be threadedly moved into the space between the plurality of engagement features thus dislodging the stripped fastener from the torque-tool body.

IPC 8 full level

B25B 13/06 (2006.01); **B25B 15/00** (2006.01); **B25B 23/08** (2006.01); **B25B 23/10** (2006.01); **B25B 27/04** (2006.01); **B25B 27/18** (2006.01)

CPC (source: EP)

B25B 13/065 (2013.01); **B25B 27/04** (2013.01); **B25B 27/18** (2013.01)

Citation (search report)

- [XAI] CN 203197845 U 20130918 - SHANXI SHENLONG ENERGY COKING CO LTD
- [A] US 1549041 A 19250811 - BERG OSCAR E
- [A] US 2009255384 A1 20091015 - WHITEHEAD MICHAEL L [US]
- [A] EP 0930132 A2 19990721 - EAZYPOWER CORP [US]

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 2020058777 A1 20200326; AU 2019344595 A1 20210408; CA 3113178 A1 20200326; CN 112714682 A 20210427; CN 112714682 B 20230714; EP 3837091 A1 20210623; EP 3837091 A4 20220119; EP 3837091 B1 20230607; EP 4245463 A1 20230920; ES 2953827 T3 20231116; JP 2022501205 A 20220106; JP 7150370 B2 20221011; PL 3837091 T3 20231106; TW 202012120 A 20200401; TW 202402476 A 20240116; TW I820199 B 20231101

DOCDB simple family (application)

IB 2019056347 W 20190725; AU 2019344595 A 20190725; CA 3113178 A 20190725; CN 201980060965 A 20190725; EP 19862898 A 20190725; EP 23171947 A 20190725; ES 19862898 T 20190725; JP 2021513435 A 20190725; PL 19862898 T 20190725; TW 108131483 A 20190902; TW 112137150 A 20190902