

Title (en)

FASTENER EXTRACTOR AND DISLODGING TOOL APPARATUS

Title (de)

VORRICHTUNG ZUM HERAUSZIEHEN UND LÖSEN VON BEFESTIGUNGSMITTELN

Title (fr)

EXTRACTEUR D'ÉLÉMENT DE FIXATION ET APPAREIL D'OUTIL DE DÉLOGEMENT

Publication

EP 3837091 A4 20220119 (EN)

Application

EP 19862898 A 20190725

Priority

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

Abstract (en)

[origin: WO2020058777A1] 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 perimetricaly 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 27/02 (2006.01); **B25B 13/06** (2006.01); **B25B 27/04** (2006.01); **B25B 27/14** (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)

- [A] EP 0930132 A2 19990721 - EAZYPOWER CORP [US]
- [A] US 5737981 A 19980414 - HILDEBRAND DAVID LEWIS [US]
- See also references of WO 2020058777A1

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