

Title (en)
ANTI-SLIP WRENCH-TYPE TOOL

Title (de)
RUTSCHHEMMENDES SCHRAUBENSCHLÜSSELARTIGES WERKZEUG

Title (fr)
OUTIL DE TYPE CLÉ ANTIDÉRAPANT

Publication
EP 3455034 A4 20190508 (EN)

Application
EP 17802292 A 20170524

Priority
• US 201615278845 A 20160928
• IB 2017053069 W 20170524

Abstract (en)
[origin: TW201813785A] A wrench-type tool that utilizes a plurality of engagement features to efficiently transfer torque to a fastener in order to rotate said fastener. The wrench-type tool includes a wrench-type torque-tool body. The wrench-type torque-tool body is the physical structure used to apply a torque force onto the fastener and includes a plurality of internal sidewalls and a plurality of engagement teeth. The plurality of internal sidewalls is radially distributed about a pivot axis of the wrench-type torque-tool body. Each of the plurality of engagement teeth is adjacently connected to a corresponding sidewall from the plurality of internal sidewalls in order to directly engage the sidewalls of the fastener. To increase the total contact surface with the fastener, a prismatic altitude for each of the plurality of engagement teeth is aligned parallel to the pivot axis. Furthermore, each of the plurality of engagement teeth is oriented towards the pivot axis.

IPC 8 full level
B25B 13/02 (2006.01); **B25B 13/04** (2006.01); **B25B 13/06** (2006.01); **B25B 13/08** (2006.01); **B25B 23/10** (2006.01)

CPC (source: EP)
B25B 13/04 (2013.01); **B25B 13/065** (2013.01); **B25B 13/08** (2013.01); **B25B 23/108** (2013.01)

Citation (search report)
• [XYI] US 2008245195 A1 20081009 - LEE FANG-HUANG [TW]
• [XY] US 2008148906 A1 20080626 - WU ARTHUR [TW]
• [X] US 7107879 B1 20060919 - CHENG CHIN SHUN [TW]
• [XI] EP 1371453 A2 20031217 - WRIGHT TOOL CO [US]
• [A] US 2004020332 A1 20040205 - HSIEH CHIH CHING [TW]
• [A] US 2015314429 A1 20151105 - DOROSLOVAC ROBERT S [US]
• See references of WO 2017203452A1

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

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EP 3455034 A1 20190320; EP 3455034 A4 20190508; TW 201813785 A 20180416

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EP 17802292 A 20170524; TW 106133367 A 20170928