

Title (en)

POWER-DRIVEN DIRECT DRIVE RATCHET/WRENCH TOOL

Title (de)

MOTORGETRIEBENES RATSCHEN-/SCHLÜSSELWERKZEUG MIT DIREKTANTRIEB

Title (fr)

OUTIL À ROCHET/CLEF À ENTRAÎNEMENT DIRECT À ENTRAÎNEMENT DE PUISSANCE

Publication

EP 3436218 A1 20190206 (EN)

Application

EP 17788925 A 20170427

Priority

- US 201662328102 P 20160427
- IB 2017052453 W 20170427

Abstract (en)

[origin: WO2017187388A1] A power driven direct drive ratchet/wrench tool allows a user to tighten and loosen fasteners in tight spaces efficiently and effectively. The tool includes a tool housing, a fastener-engagement body, a spur gear, a drive shaft, and a plurality of drive pins. The tool housing acts as the structural element and includes a ratchet head, a tubular handle, and a gear-receiving cavity. The ratchet head is terminally connected to the tubular handle. The gear-receiving cavity laterally traverses into the ratchet head and houses the spur gear and the fastener-engagement body. The drive shaft is rotatably mounted within the tubular handle. The plurality of drive pins is connected to a proximal base of the drive shaft, about a rotation axis of the drive shaft. In order to transmit torque, an at least one arbitrary pin from the plurality of drive pins is mechanically engaged to the spur gear.

IPC 8 full level

B25B 13/46 (2006.01)

CPC (source: EP)

B25B 13/467 (2013.01); **B25B 13/481** (2013.01); **B25B 17/02** (2013.01); **B25B 23/141** (2013.01); **B25B 23/1427** (2013.01)

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 2017187388 A1 20171102; AU 2017257440 A1 20181115; CA 3022514 A1 20171102; CN 109414805 A 20190301; EP 3436218 A1 20190206; EP 3436218 A4 20200101; JP 2019515809 A 20190613; TW 201738043 A 20171101

DOCDB simple family (application)

IB 2017052453 W 20170427; AU 2017257440 A 20170427; CA 3022514 A 20170427; CN 201780039652 A 20170427; EP 17788925 A 20170427; JP 2019508313 A 20170427; TW 106114047 A 20170427