

Title (en)

FASTENING TOOL WITH A CRANK TRANSMISSION

Title (de)

BEFESTIGUNGSWERKZEUG MIT KURBELGETRIEBE

Title (fr)

OUTIL DE FIXATION DOTÉ D'UNE TRANSMISSION À MANIVELLE

Publication

EP 4182122 A4 20240417 (EN)

Application

EP 20945117 A 20200716

Priority

CN 2020102290 W 20200716

Abstract (en)

[origin: WO2022011631A1] A fastening tool includes a motor assembly (20), a drive mechanism connected to the motor assembly and adapted to drive a piston; and an energy accumulating mechanism that is connected to a striking element (38) suitable for striking a workpiece. The energy accumulating mechanism contains a driven member (36). The drive mechanism further contains a crank assembly (28) connected between the motor assembly (20) and the driven member to transform a rotational force from the motor assembly (20) to a linear motion of the driven member(36). With the crank assembly the fastening tool eliminates gear meshing parts in its motion conversion mechanism, which does not only simplify the structure, saves cost, but also prolongs the product life of the fastening tool.

IPC 8 full level

B25C 1/04 (2006.01)

CPC (source: EP)

B25C 1/047 (2013.01); **B25C 1/06** (2013.01)

Citation (search report)

- [X] US 2020147774 A1 20200514 - SHI ZHAOJUN [CN], et al
- [XI] US 2020061786 A1 20200227 - ZHANG HUADING [CN]
- [XI] US 2020189081 A1 20200618 - YANG WEIMING [CN], et al
- See also references of WO 2022011631A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 2022011631 A1 20220120; CN 115803150 A 20230314; EP 4182122 A1 20230524; EP 4182122 A4 20240417

DOCDB simple family (application)

CN 2020102290 W 20200716; CN 202080102828 A 20200716; EP 20945117 A 20200716