

Title (en)

POWER TOOL AND GEAR MECHANISM FOR POWER TOOL

Title (de)

ELEKTROWERKZEUGMASCHINE UND GETRIEBEMECHANISMUS FÜR EINE ELEKTROWERKZEUGMASCHINE

Title (fr)

OUTIL ÉLECTRIQUE ET MÉCANISME À ENGRENAGES POUR OUTIL ÉLECTRIQUE

Publication

EP 4054802 A4 20230816 (EN)

Application

EP 19951571 A 20191106

Priority

CN 2019115840 W 20191106

Abstract (en)

[origin: WO2021087788A1] A power tool comprises a housing, a motor encased in the housing and having an output shaft (140) producing a torque, a spindle receiving the torque and arranged to rotate, and a gear mechanism (100). The gear mechanism comprises a gear unit (130) provided between the output shaft of the motor and the spindle, and a locking sleeve (110) movably coupled to the housing and arranged to engage with the gear unit such that axial movement of the locking sleeve controls the power tool to provide different speeds at the spindle. A gear mechanism for a power tool is also disclosed.

IPC 8 full level

B25B 23/157 (2006.01); **B25D 11/00** (2006.01); **B25F 5/00** (2006.01); **F16H 3/62** (2006.01); **F16H 3/66** (2006.01)

CPC (source: EP)

B25F 5/001 (2013.01); **F16H 3/66** (2013.01); **F16H 3/663** (2013.01); **F16H 2200/0039** (2013.01); **F16H 2200/201** (2013.01); **F16H 2200/2097** (2013.01)

Citation (search report)

- [XA] EP 1695796 A2 20060830 - BLACK & DECKER INC [US]
- [X] EP 2631038 A2 20130828 - BLACK & DECKER INC [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 2021087788 A1 20210514; CN 219255408 U 20230627; EP 4054802 A1 20220914; EP 4054802 A4 20230816

DOCDB simple family (application)

CN 2019115840 W 20191106; CN 201990001406 U 20191106; EP 19951571 A 20191106