Title (en)

Power tool

Title (de)

Werkzeugmaschine

Title (fr)

Outil électrique

Publication

EP 2711133 A1 20140326 (EN)

Application

EP 12185318 A 20120920

Priority

EP 12185318 A 20120920

Abstract (en)

A reciprocal switching structure of a ratchet wrench is provided and includes a case (100), a gear assembly (200), two gear racks (230, 240), a reciprocal switching mechanism (500), and a transmission unit (600). The case (100) has a first end and a second end, wherein the second end is adjacent to a gripping part of the ratchet wrench and is opposite to the first end. The gear assembly (200) is pivotally disposed in the case (100). The two gear racks (230, 240) engage or disengage from the gear assembly reciprocally. The reciprocal switching mechanism (500) is disposed in the case (100) and includes two push rods (510, 520) and at least one reciprocal switching member (530). The transmission unit (600) pivotally is disposed in the case, and is pivotally connected between the two gear racks (230, 240) for driving the two gear racks to be displaced.

IPC 8 full level

B25B 21/00 (2006.01)

CPC (source: EP)

B25B 21/004 (2013.01)

Citation (applicant)

- US 5535646 A 19960716 ALLEN KENNETH D [US], et al
- US 6640669 B2 20031104 IZUMISAWA NOBUYUKI [JP]

Citation (search report)

- [AD] US 5535646 A 19960716 ALLEN KENNETH D [US], et al
- [AD] US 6640669 B2 20031104 IZUMISAWA NOBUYUKI [JP]
- [A] US 2003150298 A1 20030814 KUSAMA MASAHIKO [US]
- [A] US 2008142329 A1 20080619 KOBAYASHI SHIGEKI [JP]

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US11981017B2

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)

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