

Title (en)

Ratchet wrench with a quick-rotation element with retaining means

Title (de)

Ratschenschlüssel mit einem schnell rotierbaren Element mit Haltemittel

Title (fr)

Clé à cliquet avec un élément rotatif à vitesse avec moyens de retenue

Publication

**EP 1810789 A1 20070725 (EN)**

Application

**EP 06001295 A 20060123**

Priority

EP 06001295 A 20060123

Abstract (en)

A ratchet wrench with a quick-rotated element with retaining means (30) includes a shank and a ratchet wheel (12) pivotally received in one end of the shank (10). The ratchet wheel includes a polygonal hole (120) centrally and longitudinally defined therein. The polygonal hole extends through the ratchet wheel. An annular groove (122) is laterally defined in an inner periphery of the polygonal hole. A disk (20) is attached to a top of the ratchet wheel and has a through hole (21) defined therein. The through hole has a diameter smaller than that of the polygonal hole. A retainer (30) partially is received in the annular groove in the ratchet wheel, wherein the retainer is adapted to position a tool bit (50) that is partially and longitudinally received in the polygonal hole.

IPC 8 full level

**B25B 13/46** (2006.01)

CPC (source: EP)

**B25B 13/463** (2013.01); **B25B 23/0035** (2013.01)

Citation (search report)

- [Y] US 2004093995 A1 20040520 - HU BOBBY [TW]
- [Y] US 2004089110 A1 20040513 - HSIEN CHIH-CHING [TW]
- [Y] US 2004206212 A1 20041021 - HSIEN CHIN-CHING [TW]
- [A] EP 1486292 A1 20041215 - LEA WAY HAND TOOL CORP [TW]
- [A] EP 1391267 A2 20040225 - HAND TOOL DESIGN CORP [US]
- [A] US 2004149087 A1 20040805 - HSIEN CHIN-CHING [TW]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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