

Title (en)
One-way wrench

Title (de)
Unidirektionaler Schraubenschlüssel

Title (fr)
Clé unidirectionnelle

Publication
EP 2500138 A1 20120919 (EN)

Application
EP 11158847 A 20110318

Priority
EP 11158847 A 20110318

Abstract (en)
A one-way wrench includes a head, a wheel, a pawl, a spring-biased detent assembly, a handle, a grip, a shaft and a transmission unit. The wheel includes a rack extending thereon. The pawl is for engagement with the wheel. The spring-biased detent assembly pushes the pawl against the wheel. The handle is connected to the head. The grip is rotationally located on the handle. The shaft is rotationally inserted through the handle and includes a first end fit in the grip and a second end located outside the handle. The transmission unit includes a first gear connected to the second end of the shaft, a second gear engaged with the first gear, a third gear engaged with the second gear, and a fourth gear connected to the third gear on one hand and engaged with the rack of the wheel on the other hand.

IPC 8 full level
B25B 13/46 (2006.01); **B25G 1/06** (2006.01)

CPC (source: EP)
B25B 13/461 (2013.01); **B25B 13/467** (2013.01); **B25G 1/063** (2013.01)

Citation (search report)

- [I] US 2005155468 A1 20050721 - CHU TE-CHEN [TW]
- [A] EP 2295202 A1 20110316 - PARD HARDWARE IND CO LTD [TW]
- [A] DE 202008005239 U1 20080710 - CHANG JI JONG [TW]
- [A] US 2003145687 A1 20030807 - LIN YI-CHIH [TW]
- [A] DE 202009005130 U1 20091231 - PARD HARDWARE IND CO LTD [TW]

Cited by
CN111163874A; US11759838B2

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)
EP 2500138 A1 20120919

DOCDB simple family (application)
EP 11158847 A 20110318