

Title (en)
Multi-mode wrench

Title (de)
Multimodaler Schlüssel

Title (fr)
Clé multimodale

Publication
EP 2886252 A1 20150624 (EN)

Application
EP 13199492 A 20131223

Priority
EP 13199492 A 20131223

Abstract (en)
A multi-mode one-way wrench includes a handle, a toothed wheel, two pawls and a switch. The handle is formed with a head and two grooves. The toothed wheel is rotationally placed in the head and formed with teeth. The first pawl is movably placed in the first groove for engagement with the toothed wheel. The second pawl is movably placed in the second groove for engagement with the toothed wheel when the first pawl is disengaged from the first pawl. The switch is operable for moving the second pawl between a first mode for engagement with the toothed wheel and a second mode kept from engagement with the toothed wheel. The first groove is biased from the second groove by an angle of $360^\circ \times (M+1/2) \div N$, wherein N is an integer that represents the number of the teeth and M is any proper integer.

IPC 8 full level
B25B 13/46 (2006.01)

CPC (source: EP)
B25B 13/463 (2013.01)

Citation (search report)
• [A] US 2012167723 A1 20120705 - GAPP STEVEN JAMES [US], et al
• [A] US 2004089108 A1 20040513 - CHANG CHUCK [TW]

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 2886252 A1 20150624; EP 2886252 B1 20160330; HU E027822 T2 20161128; PL 2886252 T3 20160930; SI 2886252 T1 20160729

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