

Title (en)
BIDIRECTIONAL WRENCH

Title (de)
BIDIREKTIONALER SCHRAUBENSCHLÜSSEL

Title (fr)
CLÉ BIDIRECTIONNELLE

Publication
EP 2946884 A1 20151125 (EN)

Application
EP 13871817 A 20130118

Priority
CN 2013070641 W 20130118

Abstract (en)
The bidirectional wrench of the present invention achieves two working mode and can convert between them conveniently. During the use of the bidirectional wrench of the present invention, the input torque that the operator exerts is a clockwise torque or an anticlockwise torque, the output torque of the output end of the bidirectional wrench of the present invention is a clockwise torque or an anticlockwise torque alternatively.

IPC 8 full level
B25B 13/46 (2006.01); **B25B 17/00** (2006.01)

CPC (source: EP RU)
B25B 13/465 (2013.01 - EP); **B25B 17/00** (2013.01 - EP); **B25B 23/0035** (2013.01 - EP); **B25B 13/46** (2013.01 - RU); **B25B 15/04** (2013.01 - RU)

Cited by
US11986928B2; US11865678B2; TWI806384B

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 2946884 A1 20151125; EP 2946884 A4 20161012; EP 2946884 B1 20200520; AU 2013374087 A1 20150903; AU 2013374087 B2 20180524; BR 112015017168 A2 20170711; BR 112015017168 B1 20210810; CA 2898263 A1 20140724; CA 2898263 C 20190430; JP 2016503732 A 20160208; JP 6224732 B2 20171101; KR 102019293 B1 20190906; KR 20150107850 A 20150923; MX 2015009163 A 20160425; MX 360127 B 20181023; NZ 711151 A 20180427; RU 2015134541 A 20170222; RU 2628597 C2 20170821; WO 2014110776 A1 20140724

DOCDB simple family (application)
EP 13871817 A 20130118; AU 2013374087 A 20130118; BR 112015017168 A 20130118; CA 2898263 A 20130118; CN 2013070641 W 20130118; JP 2015552965 A 20130118; KR 20157022171 A 20130118; MX 2015009163 A 20130118; NZ 71115113 A 20130118; RU 2015134541 A 20130118