

Title (en)  
WRENCH

Title (de)  
SCHRAUBENSCHLÜSSEL

Title (fr)  
CLÉ

Publication  
**EP 3980219 A4 20230118 (EN)**

Application  
**EP 20818524 A 20200422**

Priority  
• US 201916433203 A 20190606  
• US 202016803673 A 20200227  
• US 2020029281 W 20200422

Abstract (en)  
[origin: WO2020247099A1] A wrench (10) has a roller motion transmission mechanism that changes reciprocating motion of a driving member to unidirectional rotational motion of a driven member. The wrench (10) has a head (17) with a cylindrical inside wall (24) surrounding a body (18) with a plurality of ramps (48) inclined toward the cylindrical inside wall (24). A wedging member (53,54,55,56,57,58,59,60,61) comprising a cylindrical roller engages each ramp (48) and the cylindrical inside wall (24) of the head (17). A cage (52) anchored to the body (18) retains the wedging members (53,54,55,56,57,58,59,60,61) in contiguous locations relative to the ramps (48) and the cylindrical inside wall (24) of the head (17). Retainers (113,114,115,116,117,118,119,120) connected to the cage (52) bias all of the wedging members (53,54,55,56,57,58,59,60,61) into engagement with the ramps (48) and the cylindrical inside wall (24) of the head (17).

IPC 8 full level  
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CPC (source: EP)  
**B25B 13/462** (2013.01)

Citation (search report)  
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• [Y] WO 2005051603 A1 20050609 - MEYER ALLAN [AU]  
• [A] US 2018079055 A1 20180322 - WANG MIN [CN]  
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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

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