

Title (en)  
POWER WRENCH

Publication  
**EP 0432884 A3 19910821 (EN)**

Application  
**EP 90311709 A 19901025**

Priority  
US 45175089 A 19891215

Abstract (en)  
[origin: EP0432884A2] A power wrench for tightening and loosening threaded connectors, comprises a housing (10), a ratchet mechanism (6, 7) turnable about an axis (A); a power drive (5) arranged to turn the ratchet mechanism about the axis (A). A drive shaft (13) is drivably connected to the ratchet mechanism (6, 7) and is arranged to support means (26) for turning threaded connectors. The drive shaft (13) extends substantially along the axis (A) at one side of a plane (B). The drive shaft (13) is removably connected with the ratchet mechanism (6, 7) so that it can be easily removed from the housing (10) and replaced by a drive shaft of different length to reach threaded connectors located farther from or closer to the plane (B). A reaction member (22) is connected to the housing (10) and extends transversely to the plane (B) substantially in the direction of the axis (A) at the same side of the plane (B) as the drive shaft (13) to transmit reaction torque to an object selected to resist it. The reaction member (22) is also removable from the housing (10) so that it can be replaced by a reaction member of a different size to reach a stationary object located adjacent to the threaded connector to be tightened or loosened but farther from or closer to the plane (B). <IMAGE>

IPC 1-7  
**B25B 21/00**

IPC 8 full level  
**B25B 21/00** (2006.01); **B25B 23/00** (2006.01)

CPC (source: EP)  
**B25B 21/005** (2013.01); **B25B 23/0078** (2013.01)

Citation (search report)  
• [Y] EP 0240931 A1 19871014 - APPLIED POWER INC [US]  
• [Y] US 4825730 A 19890502 - JUNKERS JOHN K [US]  
• [Y] GB 2028204 A 19800305 - JUNKERS J K

Cited by  
CN103753472A; CZ306589B6; GB2524825A; GB2434116A; GB2434116B; CN100462204C; WO9739857A1; WO9812058A1; US7451672B2

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