

Title (en)  
Reversible ratchet wrench with high torsion

Title (de)  
Umkehrbarer Ratschenschlüssel für hohe Drehmomente

Title (fr)  
Clef à rochet réversible à couple élevé

Publication  
**EP 1270149 A1 20030102 (EN)**

Application  
**EP 01115034 A 20010621**

Priority  
EP 01115034 A 20010621

Abstract (en)  
A reversible ratchet wrench includes a handle having a driving head defining a driving chamber, a receiving chamber defined in the handle, a retaining recess defined in the driving chamber and connecting to the receiving chamber, and a driving member secured in the driving chamber and provided with a plurality of tooth-shaped first retaining portions. A direction control device includes a direction control member rotatably mounted in the receiving chamber, a retaining member pivotally mounted in the retaining recess and having a first side provided with a plurality of tooth-shaped second retaining portions meshing with the tooth-shaped first retaining portions, a pressing member rotated by the direction control member and slidably rested on a second side of the retaining member for pivoting the retaining member, and an elastic member urging the pressing member on the second side of the retaining member.

IPC 1-7  
**B25B 13/46**

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

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

Citation (search report)

- [E] US 6282992 B1 20010904 - HU BOBBY [TW]
- [XY] US 4328720 A 19820511 - SHIEL WALTER P
- [X] US 3265171 A 19660809 - KILNESS LUTHER E
- [XA] US 6161454 A 20001219 - CHACONAS PETER CONSTANTINE [US]
- [XA] DE 8813512 U1 19890216
- [X] FR 1538615 A 19680906 - FORGES STEPHANOISES SA DES
- [XY] US 4111077 A 19780905 - CUMMINGS HENRY S, et al
- [X] US 4336728 A 19820629 - DEIBERT RAYMOND L
- [Y] US 2427153 A 19470909 - FRANK MOSSBERG
- [Y] EP 0734813 A1 19961002 - CHOW JESSIE [TW]
- [A] US 1957462 A 19340508 - KRESS WILLARD C
- [A] US 6134991 A 20001024 - CHACONAS PETER CONSTANTINE [US]
- [A] US 6109141 A 20000829 - NURMI WILLIAM A [US]
- [E] US 6253647 B1 20010703 - EGGERT DANIEL M [US], et al & TW 408653 U 20001011 - HU HOU FEI [TW]

Citation (third parties)  
Third party :

- TW 422158 B
- US 6629477 B2 20031007 - LING DAVID [TW], et al

Cited by  
EP1413399A3

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DE ES FR GB IT NL

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