

Title (en)  
Reversible ratchet wrench

Title (de)  
Umkehrbarer Ratschenschlüssel

Title (fr)  
Cle a cliquet reversible

Publication  
**EP 1775073 A1 20070418 (FR)**

Application  
**EP 06122133 A 20061011**

Priority  
ES 200502479 A 20051011

Abstract (en)  
The handle has an annular head (101) equipped of an internally toothed crown (102) and integrating a sub-assembly rotating freely, and a handle (10). An actuator rotor (20) is coupled by a lower face of the annular head and a reversing control (30) which is fixed by an upper face of the annular head. A cap (60) covers a major part of the upper face of the reversing control and is connected to the actuator rotor in a rotating manner. Grease joints are associated to the actuator rotor and the reversing control.

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

CPC (source: EP ES)  
**B25B 13/465** (2013.01 - EP ES)

Citation (applicant)  
• FR 2745515 A1 19970905 - FACOM [FR]  
• US 4257507 A 19810324 - SOLOMON DONALD F  
• US 3783703 A 19740108 - TRIMBLE L, et al

Citation (search report)  
• [XA] FR 2745515 A1 19970905 - FACOM [FR]  
• [X] US 4257507 A 19810324 - SOLOMON DONALD F  
• [X] US 3783703 A 19740108 - TRIMBLE L, et al  
• [X] DE 29908359 U1 19990722 - LIN [TW]  
• [X] US 3677102 A 19720718 - SIMONETTA ENRICO  
• [A] US 4497227 A 19850205 - STASIEK JAN S [US]  
• [A] US 5495783 A 19960305 - SLUSAR RANDALL J [US], et al  
• [A] WO 9928091 A1 19990610 - SNAP ON TOOLS CO [US]

Cited by  
CN104772733A; US9687969B2; WO2014161187A1; WO2009092558A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1775073 A1 20070418; EP 1775073 B1 20101222**; AT E492371 T1 20110115; DE 602006019038 D1 20110203; DK 1775073 T3 20110411; ES 2303414 A1 20080801; ES 2303414 B1 20091118

DOCDB simple family (application)  
**EP 06122133 A 20061011**; AT 06122133 T 20061011; DE 602006019038 T 20061011; DK 06122133 T 20061011; ES 200502479 A 20051011