

Title (en)

RATCHET WRENCH WITH AN ANGULARLY ADJUSTABLE HANDLE

Publication

**EP 0377777 B1 19930331 (DE)**

Application

**EP 89109824 A 19890531**

Priority

- DE 8815514 U 19881214
- DE 8902523 U 19890303

Abstract (en)

[origin: EP0377777A1] In a ratchet wrench, the working head (3) is angularly adjustable relative to the handle (1) and can be arrested in the angularly adjusted position by a manually moveable locking bar which is arranged in the handle and to which a ring of locking openings (13) on the working head (3) is assigned. To facilitate handling, the handle (1) is provided with a central guide channel (8) reaching up to the region of the handgrip (2), and the locking bar consists of a rod (9) which is displaceable in the guide channel and is rigidly connected to a slide (15) lying within reach of the thumb on the handgrip (2). <IMAGE>

IPC 1-7

**B25B 13/46**; **B25B 23/16**; **B25G 1/06**; **B25G 3/38**

IPC 8 full level

**B25B 13/46** (2006.01); **B25B 23/16** (2006.01); **B25G 1/06** (2006.01); **B25G 3/38** (2006.01)

CPC (source: EP KR)

**B25B 13/461** (2013.01 - EP); **B25B 23/16** (2013.01 - KR); **B25G 1/063** (2013.01 - EP)

Cited by

AU2003262487B2; EP0865757A1; US6186034B1; DE9208668U1; EP1637286A1; EP0755757A1; EP1701603A1; CN106064370A; AU770474B2; US6405621B1; AU749049B2; AU2007200475B2; US7131356B2; US6324947B2; WO9808419A1; WO9946088A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**DE 8902523 U1 19890518**; DE 58903969 D1 19930506; EP 0377777 A1 19900718; EP 0377777 B1 19930331; ES 2040930 T3 19931101; KR 0156733 B1 19981015; KR 900009221 A 19900702

DOCDB simple family (application)

**DE 8902523 U 19890303**; DE 58903969 T 19890531; EP 89109824 A 19890531; ES 89109824 T 19890531; KR 890011145 A 19890804