

Title (en)  
HAND TOOL

Publication  
**EP 0309880 B1 19921111 (DE)**

Application  
**EP 88115440 A 19880921**

Priority  
DE 3732695 A 19870929

Abstract (en)  
[origin: EP0309880A2] The hand tool has alternative heads, i.e., a ring spanner, a ratchet or open jaw spanner. The head can pivot or be fixed in various angled positions and its lower end is circular with a toothed edge (4). A slide (6) on a short bar (7) at an inclined plane with a toothed upper edge engages in the edge (4) of the head. When pushed to one end of the bar (7) the slide (6) engages with edge (4) and disengages when pushed to the other end. A ball catch (8) locks the slide (6) in position.

IPC 1-7  
**B25B 23/16**; **B25G 1/06**; **B25G 3/38**

IPC 8 full level  
**B25G 1/06** (2006.01); **B25G 3/38** (2006.01)

CPC (source: EP)  
**B25G 1/063** (2013.01); **B25G 3/38** (2013.01)

Cited by  
EP1958736A1; EP0981422A4; USD1002309S; US6405621B1; US11986927B2; WO9808419A1

Designated contracting state (EPC)  
ES FR GB IT

DOCDB simple family (publication)  
**EP 0309880 A2 19890405**; **EP 0309880 A3 19900704**; **EP 0309880 B1 19921111**; DE 3732695 C1 19890302; ES 2036646 T3 19930601

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