

Title (en)  
ACTUATING TOOL

Title (de)  
BETÄTIGUNGSWERKZEUG

Title (fr)  
OUTIL D'ACTIONNEMENT

Publication  
**EP 1028831 B1 20021113 (DE)**

Application  
**EP 98938686 A 19980704**

Priority  
• DE 19744534 A 19971009  
• EP 9804128 W 19980704

Abstract (en)  
[origin: DE19744534A1] The screw driver head has a groove (17) for a spring ring with a width larger than that of the ring (21). The ring supports itself flexibly on at least parts of the side walls (41,43) of the groove. The spring ring is open and/or forms a helical winding. The depth of the groove is the same as or larger than the ring depth. When unloaded, the ring projects over all faces of the socket head on the screw driver, and is completely contained in the groove when under load.

IPC 1-7  
**B25B 15/00**; **B25B 23/10**

IPC 8 full level  
**B25B 13/54** (2006.01); **B25B 15/00** (2006.01); **B25B 23/10** (2006.01)

CPC (source: EP KR US)  
**B25B 15/008** (2013.01 - EP KR US); **B25B 23/108** (2013.01 - EP KR US)

Cited by  
US9931739B2; US10987783B2; US11945079B2

Designated contracting state (EPC)  
CH FR GB IT LI

DOCDB simple family (publication)  
**DE 19744534 A1 19990422**; **DE 19744534 C2 20001207**; AU 8731598 A 19990503; EP 1028831 A1 20000823; EP 1028831 B1 20021113; JP 3151178 B2 20010403; JP H11114844 A 19990427; KR 100496484 B1 20051116; KR 19990035735 A 19990525; TW 371638 B 19991011; US 6302001 B1 20011016; WO 9919119 A1 19990422

DOCDB simple family (application)  
**DE 19744534 A 19971009**; AU 8731598 A 19980704; EP 9804128 W 19980704; EP 98938686 A 19980704; JP 34346397 A 19971212; KR 19970068673 A 19971215; TW 86119514 A 19971222; US 52904200 A 20000705