

Title (en)  
A MULTI-PURPOSE TOOL WITH A TWO-DIRECTIONAL MOTOR

Publication  
**EP 0027663 A3 19820113 (EN)**

Application  
**EP 80106505 A 19801023**

Priority  
IL 5853479 A 19791023

Abstract (en)  
[origin: EP0027663A2] A multi-purpose tool with a two-directional electric, hydraulic or pneumatic motor comprises a spindle (7) rotatably mounted in bearings (8,9) within a cylindrical housing (10), said spindle (7) being provided at its free end with means to receive a suitable operating tool, a clutch (14, 15) adapted to be controlled by a spring (16) which surrounds the spindle 7 and an adjustment ring (17) constituting a bearing surface for said spring (7). The ring (17) is loosely mounted on said spindle (7) and held thereon by a clamp-nut (21), threaded to engage with the outside of said housing (10). The adjustment ring (17) is provided with diametrically opposed set screws (19), pins, lugs or similar which extend through elongated slots (20) in said housing (10) and is fixed in position by the lamp-nut (21). Thus by rotating the clamp-nut (21) the force of spring (16) can be adjusted without dismantling the tool.

IPC 1-7  
**B25F 1/00**

IPC 8 full level  
**B25B 21/00** (2006.01); **B21J 15/00** (2006.01); **B21J 15/16** (2006.01); **B21J 15/18** (2006.01); **B21J 15/36** (2006.01); **B25B 23/00** (2006.01); **B25F 1/00** (2006.01); **B25F 3/00** (2006.01)

CPC (source: EP)  
**B25B 23/00** (2013.01); **B25F 3/00** (2013.01)

Citation (search report)  
• US 3144158 A 19640811 - NOUVELET FELIX M E  
• US 4085337 A 19780418 - MOELLER WOLFGANG W

Cited by  
CN103567946A; ES2942789A1; US6018978A; US11673243B2

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)  
**EP 0027663 A2 19810429; EP 0027663 A3 19820113; EP 0027663 B1 19850206**; AT E11653 T1 19850215; DE 3070124 D1 19850321; IL 58534 A0 19800131; IL 58534 A 19820531; JP S5669088 A 19810610

DOCDB simple family (application)  
**EP 80106505 A 19801023**; AT 80106505 T 19801023; DE 3070124 T 19801023; IL 5853479 A 19791023; JP 14586480 A 19801020