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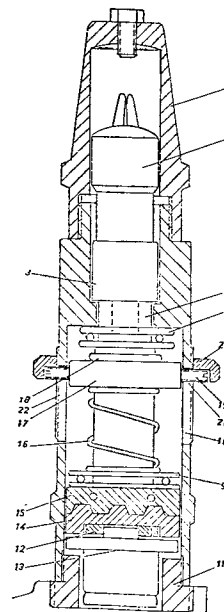
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A multi-purpose tool with a two-directional motor.

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 clamp-nut (21). Thus by rotating the clamp-nut (21) the force of spring (16) can be adjusted without dismantling the tool.



EP 0 027 663 A3



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	US - A - 3 144 158 (F. NOUVELET) * column 3, line 29 to line 72; fig.3 * ---	1	B 25 F 1/00
	US - A - 4 085 337 (W. MOELLER) * claims 1 to 5; fig. 18 to 27 * ----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			B 25 B 27/00 B 25 B 31/00 B 25 F 1/00 B 25 F 3/00 B 21 J 15/04
			CATEGORY OF CITED DOCUMENTS
			X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
			&: member of the same patent family, corresponding document
X	The present search report has been drawn up for all claims		
Place of search Berlin		Date of completion of the search 07-10-1981	Examiner HOFFMANN