

EUROPEAN PATENT APPLICATION

Application number: **85308459.8**

Int. Cl.⁴: **B25B 29/02**

Date of filing: **20.11.85**

Date of publication of application:
10.06.87 Bulletin 87/24

Designated Contracting States:
AT BE CH DE FR GB IT LI LU NL SE

Date of deferred publication of the search report:
11.11.87 Bulletin 87/46

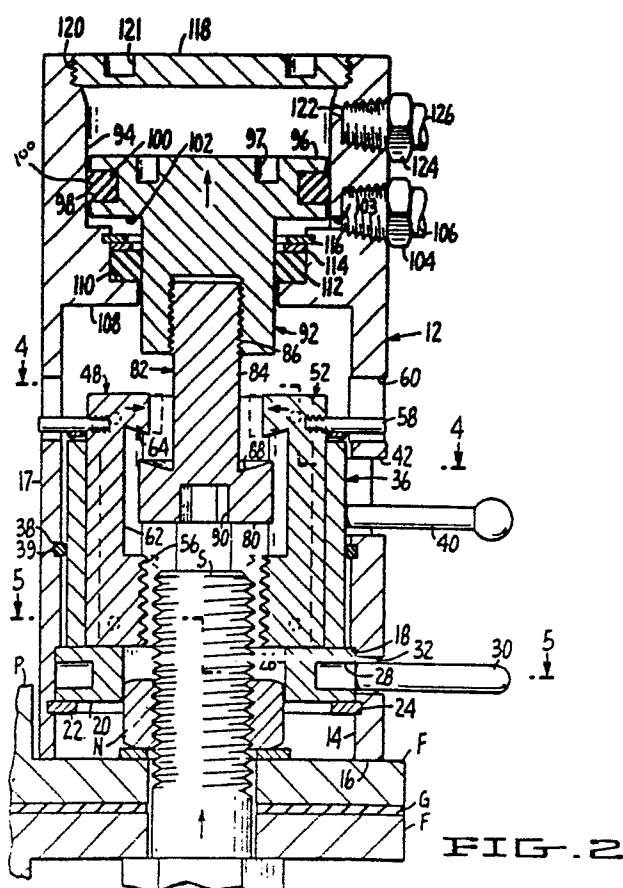
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Apparatus for tensioning a threaded stud or like member.

An apparatus for tensioning a threaded stud or like member(s), which apparatus comprises a plurality of jaws (46, 48, 50 and 52) to be arrayed about said member, each of said jaws having an inner surface (56) adapted to engage the threads of said member(s), and pull means (92) for applying a force to said jaws so as to apply axial tension to said member(s), said apparatus being characterized by a rotatable actuator sleeve (36) defining an axial opening (44) within which said jaws are disposed, said sleeve defining interior cam surfaces (74, 76 and 78) so contoured as to force said jaws to move radially inwardly into engagement with said member(s) when said sleeve (36) is moved to a first rotational position and to permit said jaws to move radially outwardly out of engagement with said member when said sleeve (36) occupies a second rotational position.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
E	EP-A-0 220 472 (HASKEL INC.) * Figures 1-4; page 3, line 34 - page 8, line 29 *	1-6,8-10	B 25 B 29/02
Y	DE-C- 938 420 (KAISER) * Figures 1,3,4 *	1-6,8-10	
Y	US-A-4 315 446 (ORBAN) * Whole document *	1-6,8-10	
A	GB-A-2 143 608 (GRIPPER INC.) * Figures 1,3 *	1,2,4-6,8-10	
A	US-A-3 995 828 (ORBAN) * Figures 2-4; abstract *	1,2,4,6,8	TECHNICAL FIELDS SEARCHED (Int. Cl.4) B 25 B B 23 P
A	DE-C- 288 152 (BLOMBERG) * Figures *	1,10	
A	DE-B-2 625 407 (GEBRÜDER SULZER AG)		
A	DE-A-2 411 204 (TRANSFER SYSTEMS INC.)		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 03-09-1987	Examiner CARMICHAEL D.G.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	GB-A- 948 555 (DIAMOND POWER SPECIALTY CORP.)		

A	EP-A-0 057 346 (WESTINGHOUSE ELECTRIC CORP.)		

A	GB-A- 884 923 (THE BABCOCK & WILCOX CO.)		

			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
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X : particularly relevant if taken alone		T : theory or principle underlying the invention	
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O : non-written disclosure		L : document cited for other reasons	
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