



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 231 026 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
11.02.2004 Bulletin 2004/07

(51) Int Cl.7: **B25B 23/14**, B25B 23/142,
F16B 1/04

(43) Date of publication A2:
14.08.2002 Bulletin 2002/33

(21) Application number: **02250869.1**

(22) Date of filing: **08.02.2002**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(71) Applicant: **MHH ENGINEERING CO LTD**
Guildford Surrey GU5 0AJ (GB)

(72) Inventor: **Bullen, Terence Clifford**
Nr. Guilford, Surrey GU5 0UP (GB)

(30) Priority: **10.02.2001 GB 0103372**
24.12.2001 GB 0130879

(74) Representative: **Pattullo, Norman et al**
Murgitroyd and Company
165-169 Scotland Street
Glasgow G5 8PL (GB)

(54) **Rotation locking mechanism**

(57) A rotation locking mechanism for locking the rotatable torque adjuster of an adjustable torque wrench against unwanted rotation while permitting wanted rotation for intended torque adjustment. The rotation locking mechanism of the present invention has a selectively rotatable component for locking against unwanted rotation thereof while permitting wanted rotation thereof, the rotatable component comprising rotation application means for selective application of wanted rotation to the

rotatable component by external engagement with the rotation application means, the rotation locking mechanism comprising clutch means coupling the rotatable component to a rotation anchor by way of the clutch means, the clutch means being normally engaged to clutch the rotatable component to the rotation anchor whereby to anchor the rotatable component against unwanted rotation and the clutch means being able to temporarily disengage to unlock the rotatable component for intended rotation.

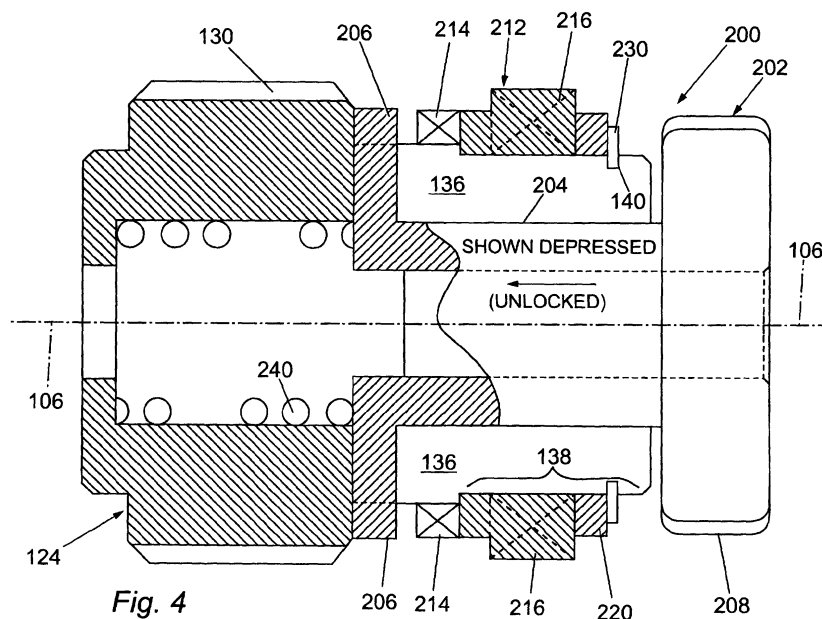


Fig. 4



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 02 25 0869

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.7)
X	US 3 581 606 A (GRABOVAC BOSCO) 1 June 1971 (1971-06-01) * column 5, line 32 - column 6, line 9; figures 3-5,8 *	1-6,9-11	B25B23/14 B25B23/142 F16B1/04
X	US 6 095 020 A (RINNER JAMES A) 1 August 2000 (2000-08-01) * column 3, line 55 - column 4, line 13; figures 1,2,7-10,18-20 *	1-7,9,11	
X	US 4 063 474 A (KLOPPING NORMAN CONRAD) 20 December 1977 (1977-12-20) * column 2, line 33 - column 3, line 44; figures 3-6 *	1-6,8,9,11	
X	US 5 546 816 A (JANSSON CONNY ET AL) 20 August 1996 (1996-08-20) * abstract; figure 2 * * column 2, line 39 - column 3, line 20 *	1-3,5-7,9-11	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B25B F16B
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 15 December 2003	Examiner Kühn, T
CATEGORY OF CITED DOCUMENTS 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 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			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 25 0869

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-12-2003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3581606 A	01-06-1971	NONE	
US 6095020 A	01-08-2000	NONE	
US 4063474 A	20-12-1977	DE 2647996 A1	12-05-1977
US 5546816 A	20-08-1996	SE 470449 B	11-04-1994
		AT 147310 T	15-01-1997
		DE 69307296 D1	20-02-1997
		DE 69307296 T2	28-08-1997
		DK 615485 T3	16-06-1997
		EP 0615485 A1	21-09-1994
		ES 2098057 T3	16-04-1997
		JP 7500777 T	26-01-1995
		SE 9202491 A	01-03-1994
		WO 9405463 A1	17-03-1994