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(54) **Handle for hand tools with interchangeable heads**

(57) A handle is provided for hand tools with interchangeable heads. The handle has a tube (1) which has a cross-section with which is defined by a curved triangle which has one of its vertices in the lower position, and which is delimited by curvo-convex sides (2) which are connected by rounded edges (3). The tube (1), in its front opening, receives inside it a locking element (4) whose cross-section is the same as that of the said tube (1) and is adjusted by sliding it with respect to the inside of the tube. The tube (1), in addition to the channel (5) for inserting the flat rod (6) and the smooth shank of the inter-

changeable head, has on its upper face a vertical blind cavity (7) which, on its front wall, communicates with the said insertion channel (5), and in which a locking piece, or immobiliser (8), moves with vertical displacement, which immobiliser is mounted against a spring (9) which causes it to adopt an upper position in which a suitable tooth (10) is housed across a window (11) of the said flat rod (6) of the interchangeable head. The immobiliser (8) is capable of adopting a lower position, against the said spring (9), in which the said tooth (10) is outside the said window of the flat road (6), and wherein the immobiliser (8) faces at the top an opening (12) of the said tube.

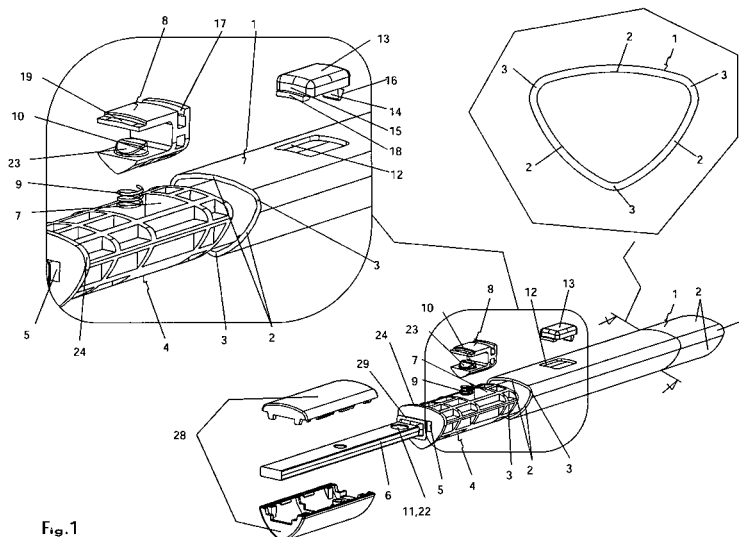


Fig. 1



## EUROPEAN SEARCH REPORT

Application Number  
EP 07 25 0498

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	US 6 055 733 A (CHEN YIH-LONG [TW]) 2 May 2000 (2000-05-02) * column 1, line 66 - column 2, line 44; figures 1-3 *	1-7	INV. B25G1/10 B25G3/26 B25F1/02 B25G3/18
Y	EP 0 057 916 A (WOLF GERAETE GMBH [DE]) 18 August 1982 (1982-08-18) * page 3, line 26 - page 5, line 11; figures *	1-7	
Y	US 5 168 693 A (INGVARDSEN SOREN [DK]) 8 December 1992 (1992-12-08) * column 2, line 42 - column 4, line 22; figures *	1-7	
Y	DE 35 19 544 A1 (RUX GMBH [DE]) 4 December 1986 (1986-12-04) * page 11; figure 5 *	1-7	
Y	US 6 311 368 B1 (SARTORI FRANCESCO [IT]) 6 November 2001 (2001-11-06) * column 1, lines 33-38; figures 2,6 *	1-7	
Y	GB 1 574 157 A (GARDENA KRESS & KASTNER GMBH) 3 September 1980 (1980-09-03) * page 4, line 103 - page 5, line 118; figures 5-7 *	4-7	TECHNICAL FIELDS SEARCHED (IPC)  B25F B25G
A	US 5 515 574 A (LARSON TIMOTHY J [US]) 14 May 1996 (1996-05-14) * column 3, line 19 - column 4, line 30; figures *	1	
Y		4	
A		1	
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>1 December 2009</b>	Examiner <b>Flodström, Benny</b>
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	

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

EP 07 25 0498

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The members are as contained in the European Patent Office EDP file on  
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01-12-2009

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6055733	A	02-05-2000	NONE	
EP 0057916	A	18-08-1982	CA 1190784 A1	23-07-1985
			US 4466377 A	21-08-1984
US 5168693	A	08-12-1992	NONE	
DE 3519544	A1	04-12-1986	NONE	
US 6311368	B1	06-11-2001	AT 209083 T	15-12-2001
			CA 2300393 A1	18-02-1999
			DE 19630519 A1	05-02-1998
			DE 59706080 D1	21-02-2002
			WO 9907523 A1	18-02-1999
			EP 1001867 A1	24-05-2000
			ES 2167017 T3	01-05-2002
			PT 1001867 E	31-05-2002
GB 1574157	A	03-09-1980	AT 357810 B	11-08-1980
			AU 507279 B2	07-02-1980
			AU 2433477 A	26-10-1978
			BE 853640 A1	01-08-1977
			DE 2617622 A1	10-11-1977
			ES 458060 A1	16-03-1978
			FR 2348794 A1	18-11-1977
			IT 1076031 B	22-04-1985
			JP 52151457 A	15-12-1977
			JP 60188208 U	13-12-1985
			JP 62027695 Y2	16-07-1987
			NL 7704312 A	25-10-1977
			NO 771305 A	25-10-1977
			SE 429518 B	12-09-1983
			SE 7704602 A	23-10-1977
			ZA 7702438 A	29-03-1978
US 5515574	A	14-05-1996	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82