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(54) Screw driving gun with a screwbelt-retaining member

(57) A belt-retaining member (34) is disposed in a slider member (33) of a driving gun 3, and includes an engaging finger (34F) with a pointed front end (340), an enlarged rear end (344), and upper and lower sliding faces (341, 342) that extend divergently and rearwardly from the pointed front end 340 toward the enlarged rear end (344). The upper and lower sliding faces (341,342) are in frictional contact with a periphery of a retaining notch unit (401) formed in a screw feed belt (40) to permit the periphery of the retaining notch unit (401) in the

screw feed belt (40) to overcome friction between the periphery of the retaining notch unit (401) and the upper sliding face (341) for sliding downwardly along the upper sliding face (341) when the screw feed belt (40) is drawn downwardly, and to permit the periphery of the retaining notch unit (401) to overcome friction between the periphery of the retaining notch unit (401) and the lower sliding face (342) for sliding upwardly along the lower sliding face (342) when the screw feed belt (40) is drawn upwardly.

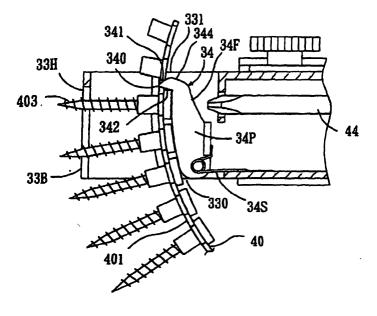


FIG. 6



EUROPEAN SEARCH REPORT

Application Number EP 02 25 3838

Category	Citation of document with indication, where appro of relevant passages		levant claim	CLASSIFICATION OF THE APPLICATION (int.CI.7)
х	EP 0 593 970 A (TOYO TECHNO CO L 27 April 1994 (1994-04-27)			B25B23/04
A	* column 5, line 31 - line 43; f * column 6, line 15 - line 24; f	· /		
	1A,1,3,5,7 *			
X -	US 4 014 488 A (POTUCEK FRANK R 29 March 1977 (1977-03-29)		,5–8	
4	* column 9, line 1 - line 9; fig 6,7,9,12,14-16 *	jures 9		
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 03, 28 April 1995 (1995-04-28) & JP 06 339871 A (MASATO IMAI), 13 December 1994 (1994-12-13) * abstract *	1,7	,9	
A	DE 31 41 248 A (MURO KINZOKU KOG ;SANYO IND LTD (JP)) 5 May 1983 (1983-05-05)	YO KK		TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	CH 687 745 A (HANS IMFELD ELEKTROAPPARATEBAU) 14 February 1997 (1997-02-14)		B25B	
A	US 5 101 697 A (FISHBACK GARY M) 7 April 1992 (1992-04-07)			
	The present search report has been drawn up for all	claims		
	Place of search Date of comp	letion of the search		Examiner
	THE HAGUE 5 Nove	ember 2003	Maje	erus, H
X : part Y : part doci	icularly relevant if taken alone icularly relevant if combined with another iment of the same category	T: theory or principle under E: earlier patent document after the filing date D: document cited in the ap L: document cited for other	but publis plication reasons	hed on, or
A: tech		& : member of the same pa		

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

EP 02 25 3838

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.

05-11-2003

Patent document cited in search report		Publication date		Patent family member(s)		Publication date	
EP	0593970	A	27-04-1994	JP JP JP DE DE EP HK US	6057563 2083235 6126646 7115306 69306906 69306906 0593970 1006551 5341706	C A B D1 T2 A1 A1	09-08-1994 23-08-1996 10-05-1994 13-12-1995 06-02-1997 24-07-1997 27-04-1994 05-03-1999 30-08-1994
us	4014488	A	29-03-1977	US AT CA CH DE DE ES FR GB IT JP JP SE SE	3930297 348962 891674 1007900 585612 2452246 2462793 2462997 431652 2249748 1427507 1023131 1113355 50074899 57004471 416527 7413317	B A1 A5 A1 C2 C2 A1 A1 A B C A B B	06-01-1976 12-03-1979 15-07-1978 05-04-1977 15-03-1977 07-05-1975 01-12-1983 17-09-1981 01-11-1976 30-05-1975 10-03-1976 10-05-1978 16-09-1982 19-06-1975 26-01-1981 06-05-1975
JP	06339871	Α	13-12-1994	NONE			<u> </u>
DE	3141248	A	05-05-1983	DE	3141248	A1	05-05-1983
CH	687745	Α	14-02-1997	СН	687745	A5	14-02-1997
US 	5101697	Α	07-04-1992	NONE			

FORM P0459

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