



US00D717428S

(12) **United States Design Patent**
Sendatzki et al.(10) **Patent No.:** US D717,428 S
(45) **Date of Patent:** ** Nov. 11, 2014(54) **MEDICAL INJECTOR**(75) Inventors: **Günther Sendatzki**, Rodheim vor der Hoehe (DE); **Shinichiro Magome**, Tokyo (JP); **Rieko Yamada**, Tokyo (JP); **Chitose Orii**, Tokyo (JP)(73) Assignee: **Sanofi-Aventis Deutschland GmbH**, Frankfurt am Main (DE)(**) Term: **14 Years**(21) Appl. No.: **29/392,091**(22) Filed: **May 17, 2011**(30) **Foreign Application Priority Data**

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(52) U.S. Cl.
USPC D24/113
(58) **Field of Classification Search**
USPC D24/108, 112–114, 130, 133, 138, 186,
D24/104, 127, 152, 144, 146, 147; 606/181,
606/182, 185, 205, 142; 604/232, 187, 158,
604/164.08, 192, 263, 163, 181, 184, 198,
604/227, 229; 433/80; D19/35, 36, 41,
D19/43–57

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,398,544 A 4/1946 Lockhart
3,045,593 A 7/1962 Petterson
3,254,836 A 6/1966 Corpian
4,637,403 A 1/1987 Garcia et al.
D289,424 S 4/1987 Huang
4,973,318 A 11/1990 Holm et al.
D324,070 S 2/1992 Suzuki
5,334,144 A 8/1994 Alchas et al.

D368,961 S 4/1996 Himbret et al.
5,569,214 A 10/1996 Chanoch
D390,872 S 2/1998 Sunaga

(Continued)

OTHER PUBLICATIONS

Article on www.diabeteshealth.com about FDA approval of Lantus SoloStar disposable insulin pen, with a picture of the product, dated May 4, 2007 (5 pages).

(Continued)

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(57) **CLAIM**

The ornamental design for the medical injector, as shown and described.

DESCRIPTION

The file of this patent contains at least one photograph executed in color. Copies of this patent with color photographs will be provided by the Office upon request and payment of the necessary fee.

FIG. 1 is a right side view of the medical injector of our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a left side view thereof;

FIG. 4 is a rear view thereof;

FIG. 5 is a perspective thereof;

FIG. 6 is a top view thereof;

FIG. 7 is a bottom view; and,

FIG. 8 is a bottom perspective view.

The colors of the design are as follows:

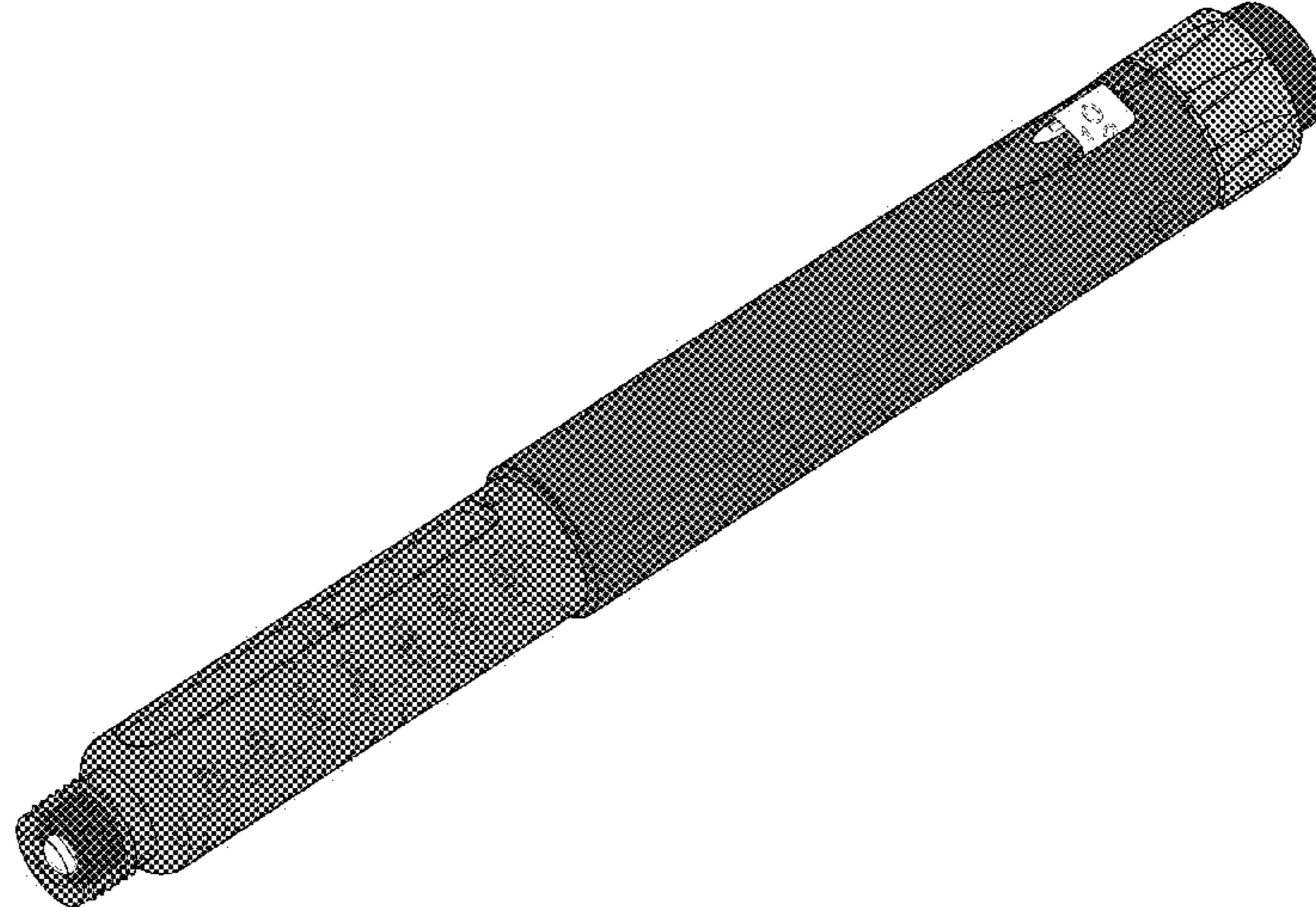
Cartridge holder: royal blue

Body: dark blue-gray;

Dose dial grip: light blue-gray; and

Dose button: royal blue

**1 Claim, 4 Drawing Sheets
(4 of 4 Drawing Sheet(s) Filed in Color)**



(56)	References Cited						
U.S. PATENT DOCUMENTS							
D414,201 S	9/1999	Larson et al.	D599,008 S	8/2009	Tyce		
D426,299 S	6/2000	Bydlon et al.	D599,009 S	8/2009	Tyce		
D426,572 S	6/2000	Salemme et al.	D599,010 S	8/2009	Tyce		
6,110,149 A	8/2000	Klitgaard et al.	D599,011 S	8/2009	Tyce		
6,277,099 B1	8/2001	Strowe et al.	D600,794 S	9/2009	Tyce		
D451,138 S	11/2001	Rosenbaum	D600,795 S	9/2009	Tyce		
D462,760 S	9/2002	Ahlgrim et al.	7,621,891 B2	11/2009	Wyrick		
6,454,746 B1	9/2002	Bydlon et al.	D606,649 S	12/2009	Tyce		
D479,602 S	9/2003	Bainton	D606,650 S	12/2009	Tyce		
D479,747 S	9/2003	Bainton	D608,442 S	1/2010	Tyce		
D479,748 S	9/2003	Tyce	D610,251 S	2/2010	Tyce		
D482,122 S	11/2003	Cohn et al.	D610,252 S	2/2010	Tyce		
D482,724 S	11/2003	Nishida	D610,676 S	2/2010	Tyce		
D483,067 S	12/2003	Takanashi	D610,677 S	2/2010	Tyce		
D492,027 S	6/2004	Tyce et al.	D626,216 S	10/2010	Tyce		
D492,405 S	6/2004	Bainton	D641,783 S	*	7/2011	Lira-Nunez et al. D19/48	
D499,485 S	12/2004	Tyce	D650,069 S	*	12/2011	Mori D24/113	
D501,253 S	1/2005	Bainton	D650,070 S	*	12/2011	Mori D24/113	
D502,739 S	3/2005	Shova et al.	D651,305 S	*	12/2011	Hawley et al. D24/113	
D503,477 S	3/2005	Hawley et al.	D652,136 S	*	1/2012	Hawley et al. D24/113	
D503,797 S	4/2005	Tyce	D661,352 S	*	6/2012	Lira-Nunez et al. D19/57	
D505,490 S	5/2005	Tyce	D685,464 S	*	7/2013	Sanders D24/113	
D506,005 S	6/2005	Hawley et al.	D687,544 S	*	8/2013	Stephan et al. D24/114	
6,932,794 B2	8/2005	Giambattista et al.	2004/0106895 A1	6/2004	Slate et al.		
D516,719 S	3/2006	Turchi et al.	2004/0236284 A1	11/2004	Hoste et al.		
D518,175 S	3/2006	Hardin, Jr. et al.	2005/0187523 A1	8/2005	Giambattista et al.		
7,018,364 B2	3/2006	Giambattista et al.	2005/0234492 A1	10/2005	Tsai et al.		
D520,636 S	5/2006	Hawley et al.	2005/0251103 A1	11/2005	Steffen et al.		
D540,465 S	4/2007	Bainton	2006/0155246 A1	7/2006	Higuchi et al.		
D546,447 S	7/2007	White	2006/0229570 A1	10/2006	Lovell et al.		
D548,835 S	8/2007	Galbraith	2007/0123829 A1	5/2007	Atterbury et al.		
D550,363 S	9/2007	Hannant et al.	2007/0129687 A1	6/2007	Marshall et al.		
D551,341 S	9/2007	Galbraith	2009/0076458 A1	3/2009	Nielsen et al.		
D553,681 S	10/2007	Cetera	OTHER PUBLICATIONS				
D567,939 S	4/2008	Mattigka	DCA brochure for SoloStar disposable pen injector for insuling, as found on www.effectivedesign.org.uk , dated Jun. 2, 2009 (10 pages). Reference to date of product launch (2007) on p. 2, last paragraph. SoloStar disposable pen injector by DCA Design International for Sanofi Aventis GmbH, as shows on www.effectivedesign.org.uk , dated Oct 22, 2009 (3 pages).				
D580,052 S	11/2008	White	*				
D580,069 S	11/2008	Lee	cited by examiner				
7,534,222 B2	5/2009	Sugita et al.					
D598,496 S	8/2009	Ikeda					
D598,539 S	8/2009	Tyce					

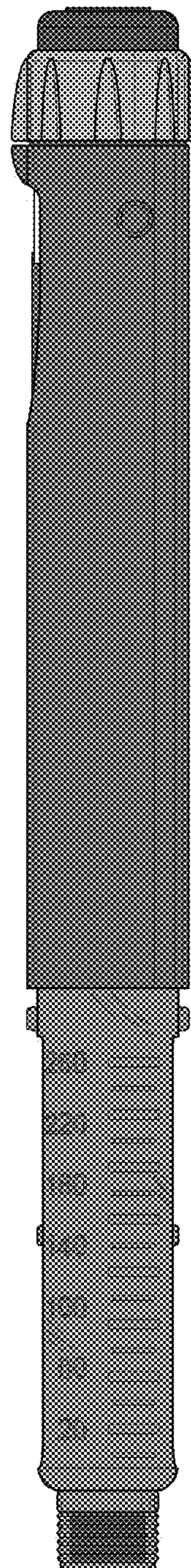


FIG. 1

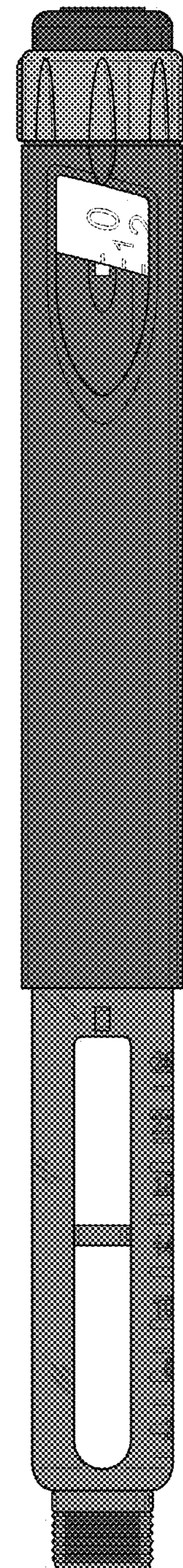


FIG. 2

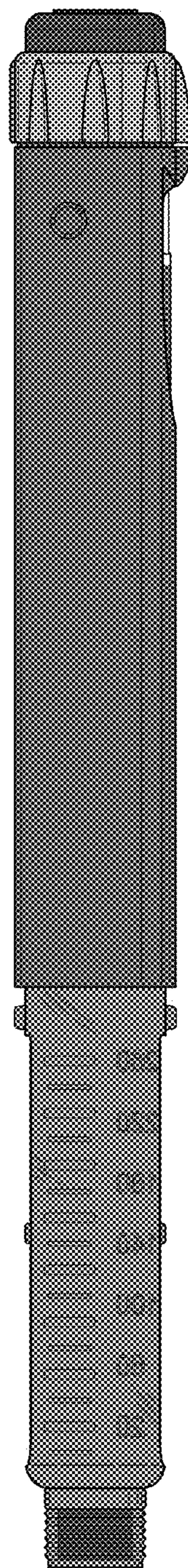


FIG. 3

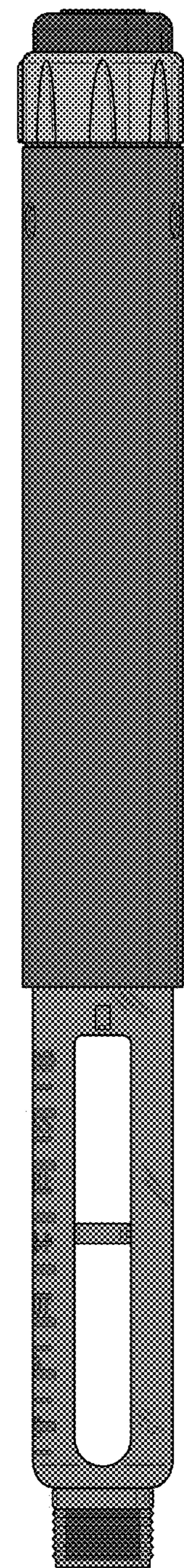


FIG. 4

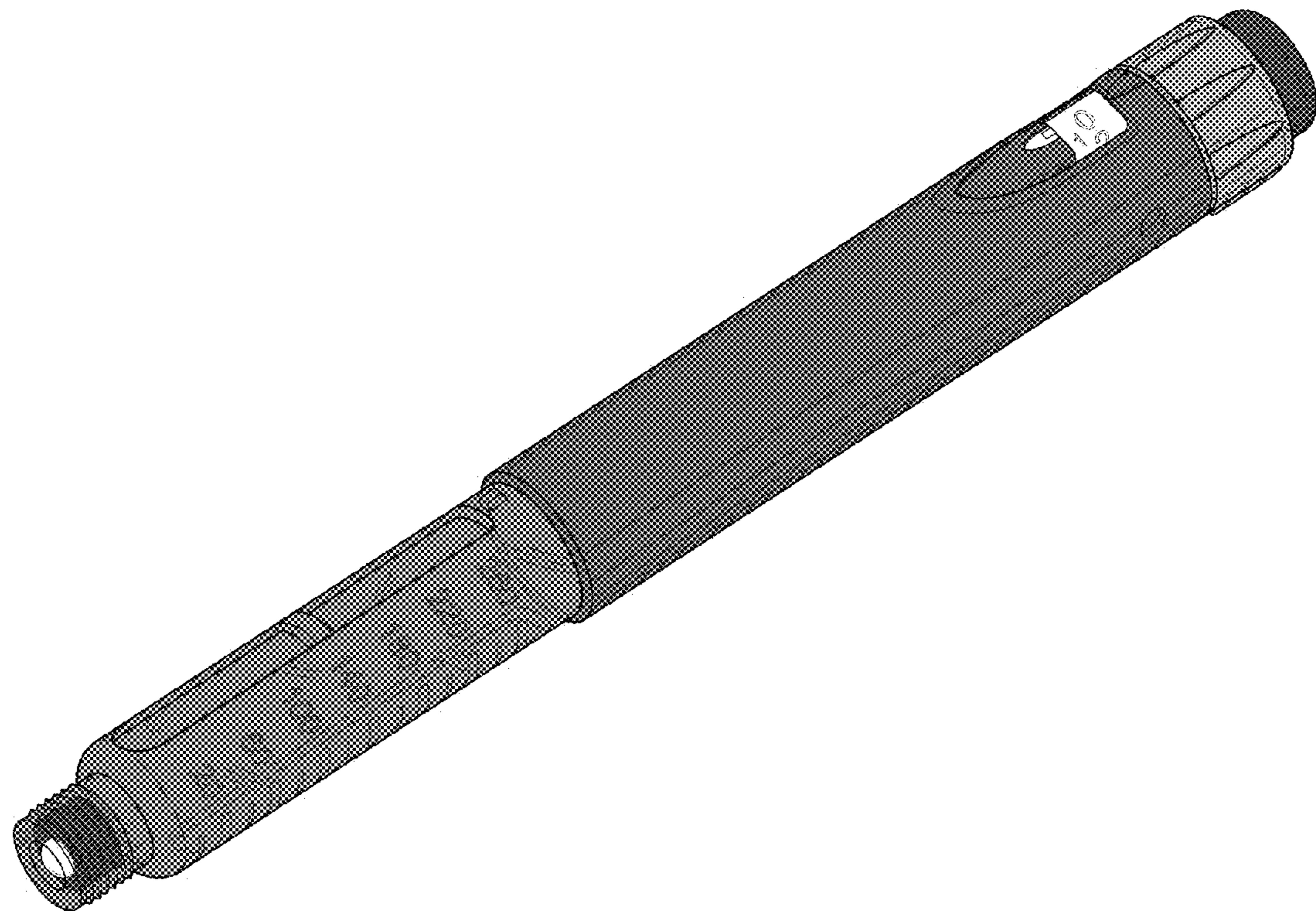


FIG. 5

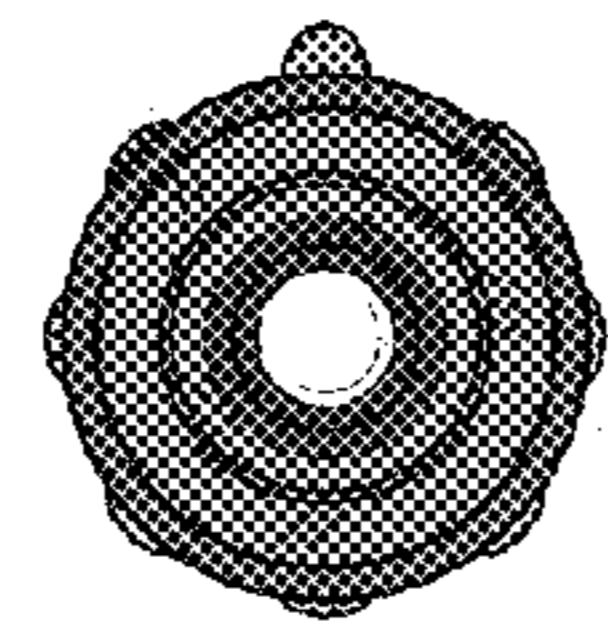


FIG. 6

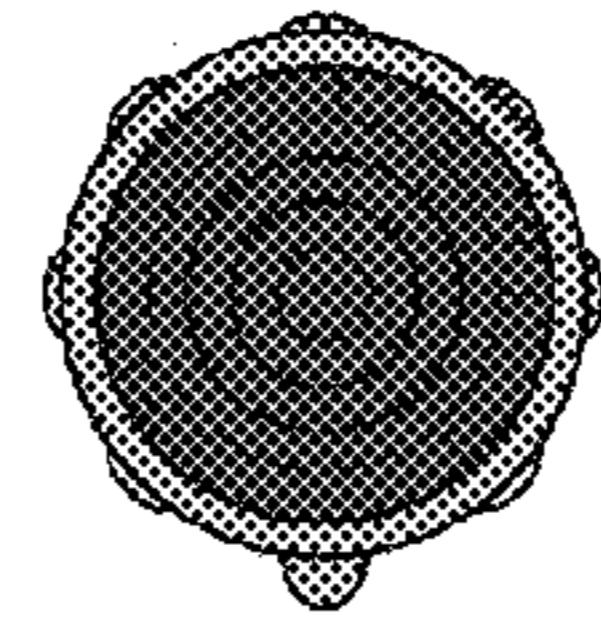


FIG. 7

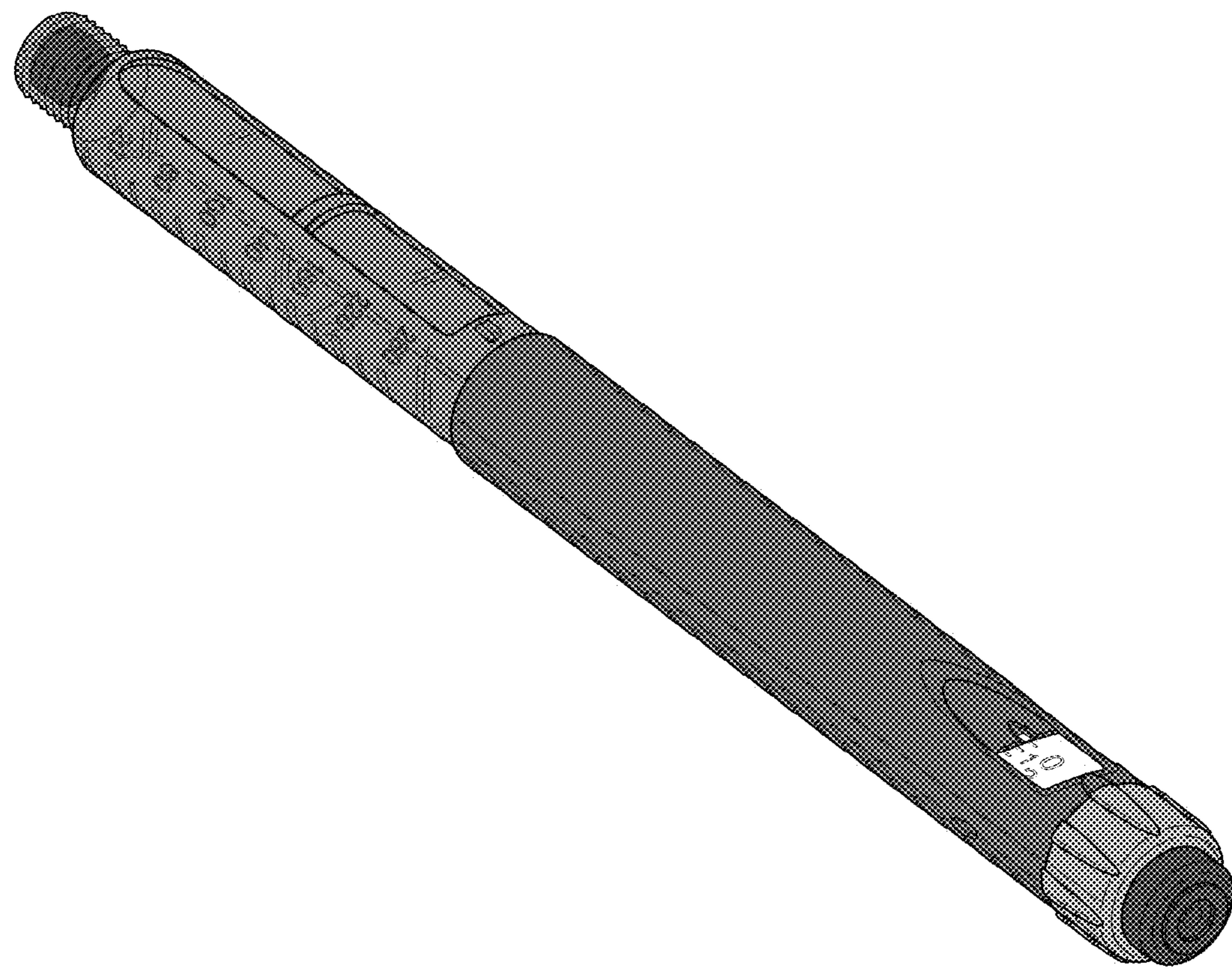


FIG. 8