



US00D449887B1

(12) **United States Design Patent**  
**Haberland et al.**

(10) **Patent No.: US D449,887 S**

(45) **Date of Patent: \*\* Oct. 30, 2001**

(54) **COMBINED OBTURATOR, CANNULA AND VALVE ASSEMBLY**

(75) Inventors: **Gary Haberland**, Orlando; **Sam R. Marchand**, Dunedin, both of FL (US)

(73) Assignee: **Genicon LC**, Orlando, FL (US)

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/117,520**

(22) Filed: **Jan. 26, 2000**

(51) **LOC (7) Cl.** ..... **24-02**

(52) **U.S. Cl.** ..... **D24/146**

(58) **Field of Search** ..... D24/146; 604/164.1, 604/164.2, 165, 185, 192; 606/167, 184, 185

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D. 354,562	1/1995	Medema	.....	D24/129
D. 364,924	12/1995	Medema	.....	D24/146
D. 426,635 *	6/2000	Haberland et al.	.....	D24/146
3,861,416	1/1975	Wichterle	.....	137/525.3
3,994,287	11/1976	Turp et al.	.....	128/6
4,143,853	3/1979	Abramson	.....	251/149

(List continued on next page.)

*Primary Examiner*—Ian Simmons

(74) *Attorney, Agent, or Firm*—Allen, Dyer, Doppelt, Milbrath & Gilchrist, P.A.

(57) **CLAIM**

The ornamental design for a combined obturator, cannula and valve assembly, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a combined obturator, cannula and valve assembly showing our new design new design;

FIG. 2 is a right side elevational view thereof;

FIG. 3 is a left side elevational view thereof;

FIG. 4 is a front elevational view thereof;

FIG. 5 is a rear elevational view thereof;

FIG. 6 is a top plan thereof;

FIG. 7 is a top plan thereof;

FIG. 8 is a perspective view of the Cannula and Valve Assembly showing our new design new design, with the Obturator removed;

FIG. 9 is a right side elevational view thereof;

FIG. 10 is a left side elevational view thereof;

FIG. 11 is a front elevational view thereof;

FIG. 12 is a rear elevational view thereof;

FIG. 13 is a top plan thereof;

FIG. 14 is a top plan thereof;

FIG. 15 is a perspective view of the Cannula showing our new design new design, with the Obturator and Valve removed;

FIG. 16 is a right side elevational view thereof;

FIG. 17 is a left side elevational view thereof;

FIG. 18 is a front elevational view thereof;

FIG. 19 is a rear elevational view thereof;

FIG. 20 is a top plan thereof;

FIG. 21 is a bottom plan thereof;

FIG. 22 is a perspective view of the Obturator showing our new design new design;

FIG. 23 is a right side elevational view thereof;

FIG. 24 is a front elevational view thereof;

FIG. 25 is an enlarged fragmentary elevational view of the tip portion, shown in an extended position;

FIG. 26 is a left side elevational view of FIG. 23;

FIG. 27 is a rear elevational view thereof;

FIG. 28 is a top plan thereof;

FIG. 29 is a bottom plan thereof;

FIG. 30 is a perspective view of the valve showing our new design new design;

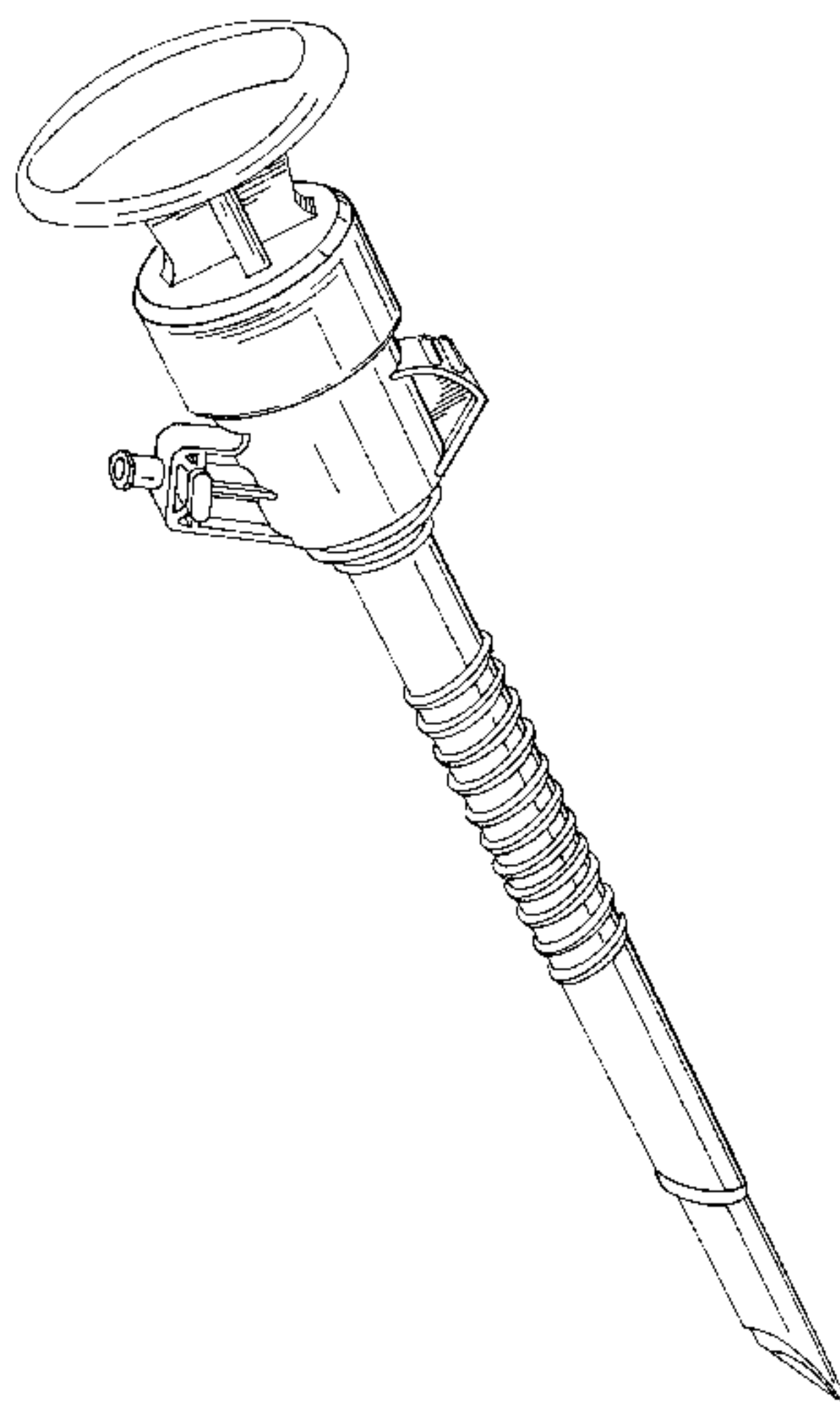
FIG. 31 is a top plan thereof;

FIG. 32 is a bottom plan thereof;

FIG. 33 is a front elevational view thereof, the rear elevational view being a mirror image thereto; and,

FIG. 34 is a right side elevational view thereof, the left side elevational view being a mirror image thereto.

**1 Claim, 13 Drawing Sheets**



# US D449,887 S

Page 2

U.S. PATENT DOCUMENTS				
		5,385,552	1/1995	Haber et al. .... 604/167
4,177,814	12/1979	5,385,553	1/1995	Hart et al. .... 604/167
4,222,126	9/1980	5,389,081	2/1995	Castro ..... 604/167
4,233,982	11/1980	5,391,154	2/1995	Young ..... 604/167
4,364,127	12/1982	5,407,433	4/1995	Loomas ..... 604/167
4,375,864	3/1983	5,411,483	5/1995	Loomas et al. .... 604/167
4,424,833	1/1984	5,431,666	7/1995	Sauer et al. .... 606/139
4,475,548	10/1984	5,443,452	8/1995	Hart et al. .... 604/167
4,492,253	1/1985	5,445,617	8/1995	Yoon ..... 604/165
4,535,773	8/1985	5,456,284	10/1995	Ryan et al. .... 137/522
4,535,819	8/1985	5,476,475	12/1995	Gadberry ..... 606/185
4,566,493	1/1986	5,492,304	2/1996	Smith et al. .... 251/149.1
4,601,710	7/1986	5,496,280	3/1996	Vandenbroek et al. .... 604/167
4,654,030	3/1987	5,507,755	4/1996	Gresl et al. .... 606/139
4,673,393	6/1987	5,527,321	6/1996	Hinchliffe ..... 606/144
4,705,709	11/1987	5,538,509	7/1996	Dunlap et al. .... 604/264
4,765,588	8/1988	5,542,931	8/1996	Gravener et al. .... 604/167
4,798,584	1/1989	5,545,150	8/1996	Danks et al. .... 606/256
4,798,593	1/1989	5,569,206	10/1996	Gorman, Jr. et al. .... 604/167
4,809,679	3/1989	5,575,800	11/1996	Gordon ..... 606/144
4,876,126	10/1989	5,578,044	11/1996	Gordon et al. .... 606/144
4,902,280	2/1990	5,584,850	12/1996	Hart et al. .... 606/185
4,906,237	3/1990	5,603,702	2/1997	Smith et al. .... 606/256
4,931,042	6/1990	5,618,290	4/1997	Toy et al. .... 606/139
4,943,280	7/1990	5,618,297	4/1997	Hart et al. .... 606/185
4,977,901	12/1990	5,637,108	6/1997	Vidal et al. .... 606/1
4,990,357	2/1991	5,657,963	8/1997	Hinchliffe et al. .... 251/149
5,009,391	4/1991	5,674,237	10/1997	Ott ..... 606/185
5,009,643 *	4/1991	5,676,683	10/1997	Yoon ..... 606/185
5,010,925	4/1991	5,688,286	11/1997	Yoon ..... 606/185
5,030,206	7/1991	5,690,663	11/1997	Stephens ..... 606/185
5,041,095	8/1991	5,709,664	1/1998	Vandenbroek et al. .... 604/167
5,053,016	10/1991	5,709,671	1/1998	Stephens et al. .... 604/264
5,066,288	11/1991	5,713,910	2/1998	Gordon et al. .... 606/144
5,104,382	4/1992	5,720,759	2/1998	Green et al. .... 606/167
5,104,383	4/1992	5,722,958	3/1998	Gravener et al. .... 604/169
5,112,321	5/1992	5,730,755	3/1998	Yoon ..... 606/185
5,122,122	6/1992	5,741,279	4/1998	Gordon et al. .... 606/144
5,127,909	7/1992	5,772,672	6/1998	Toy et al. .... 606/139
5,129,885	7/1992	5,776,112	7/1998	Stephens et al. .... 604/264
5,141,498	8/1992	5,782,812	7/1998	Hart et al. .... 604/167
5,147,316	9/1992	5,797,943	8/1998	Danks et al. .... 606/185
5,152,754	10/1992	5,800,451 *	9/1998	Buess et al. .... 606/185
5,209,737	5/1993	5,803,919	9/1998	Hart et al. .... 604/167
5,217,441	6/1993	5,807,338	9/1998	Smith et al. .... 604/164
5,226,890	7/1993	5,810,866	9/1998	Yoon ..... 606/185
5,226,891	7/1993	5,824,009	10/1998	Fukuda et al. .... 606/144
5,248,298	9/1993	5,843,039 *	12/1998	Klemm ..... 604/164
5,267,965	12/1993	5,855,566	1/1999	Dunlap et al. .... 604/164
5,273,545	12/1993	5,871,488	2/1999	Tovey et al. .... 606/139
5,292,310	3/1994	5,895,377	4/1999	Smith et al. .... 604/256
5,300,036	4/1994	5,935,107	8/1999	Taylor et al. .... 604/164
5,308,336	5/1994	5,941,852	8/1999	Dunlap et al. .... 604/165
5,309,896	5/1994	6,063,099 *	5/2000	Danks et al. .... 606/185
5,334,166	8/1994	6,099,544 *	8/2000	Wolf et al. .... 606/185
5,338,305	8/1994	6,106,539 *	8/2000	Fortier ..... 606/185
5,344,420	9/1994	6,168,607 *	1/2001	Wattiez et al. .... 606/185
5,360,417	11/1994			
5,364,408	11/1994			

\* cited by examiner



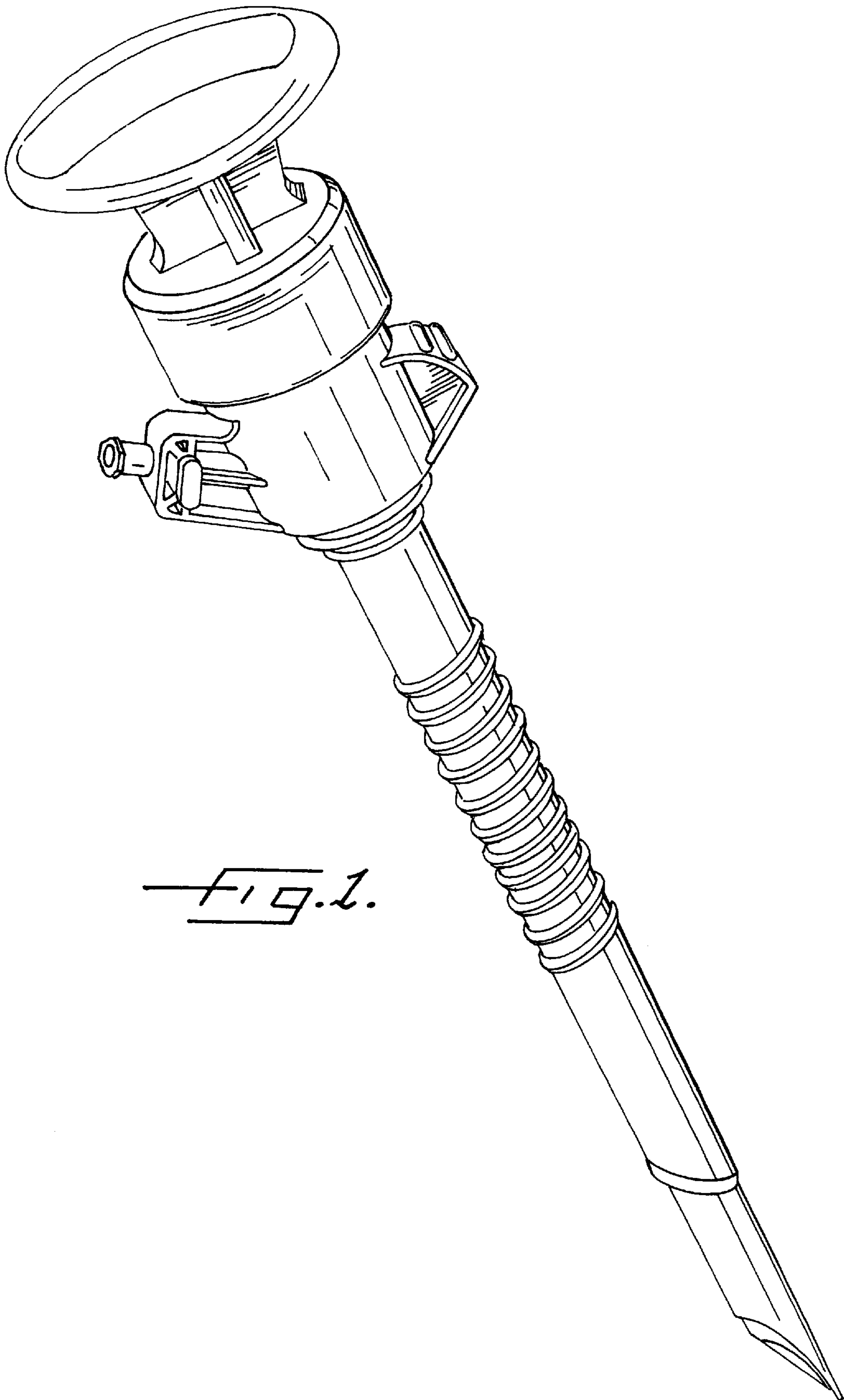


FIG. 1.

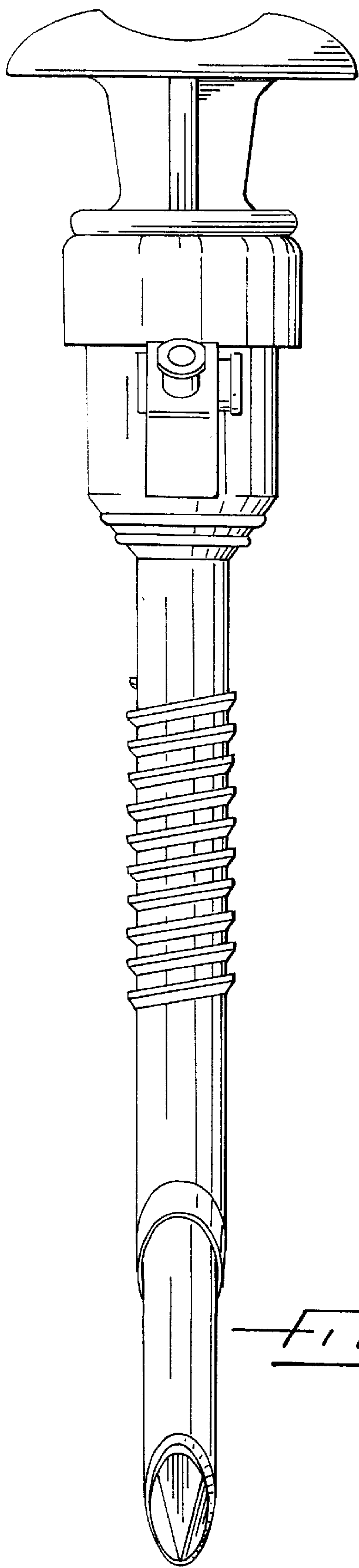


FIG. 2.

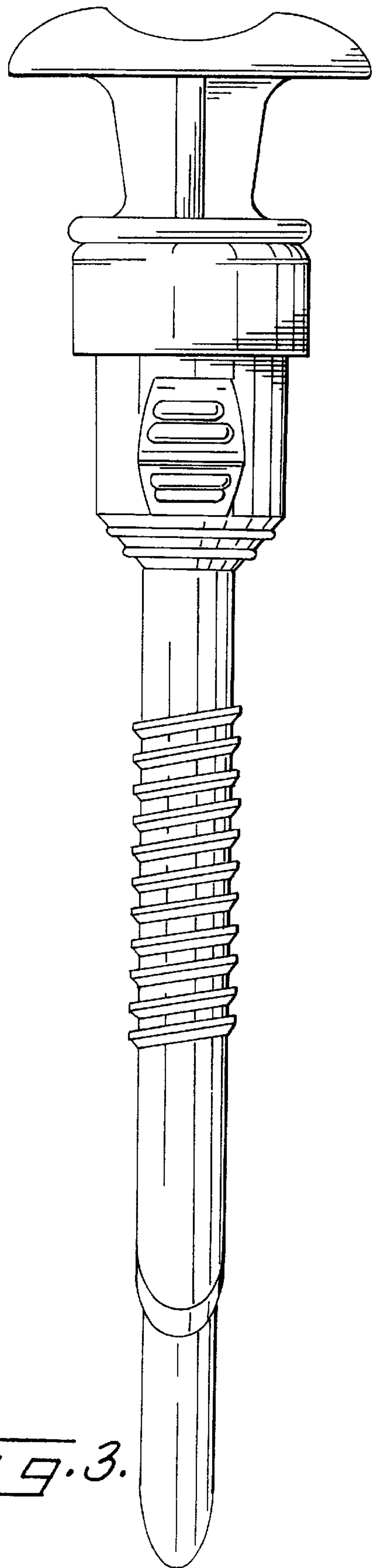
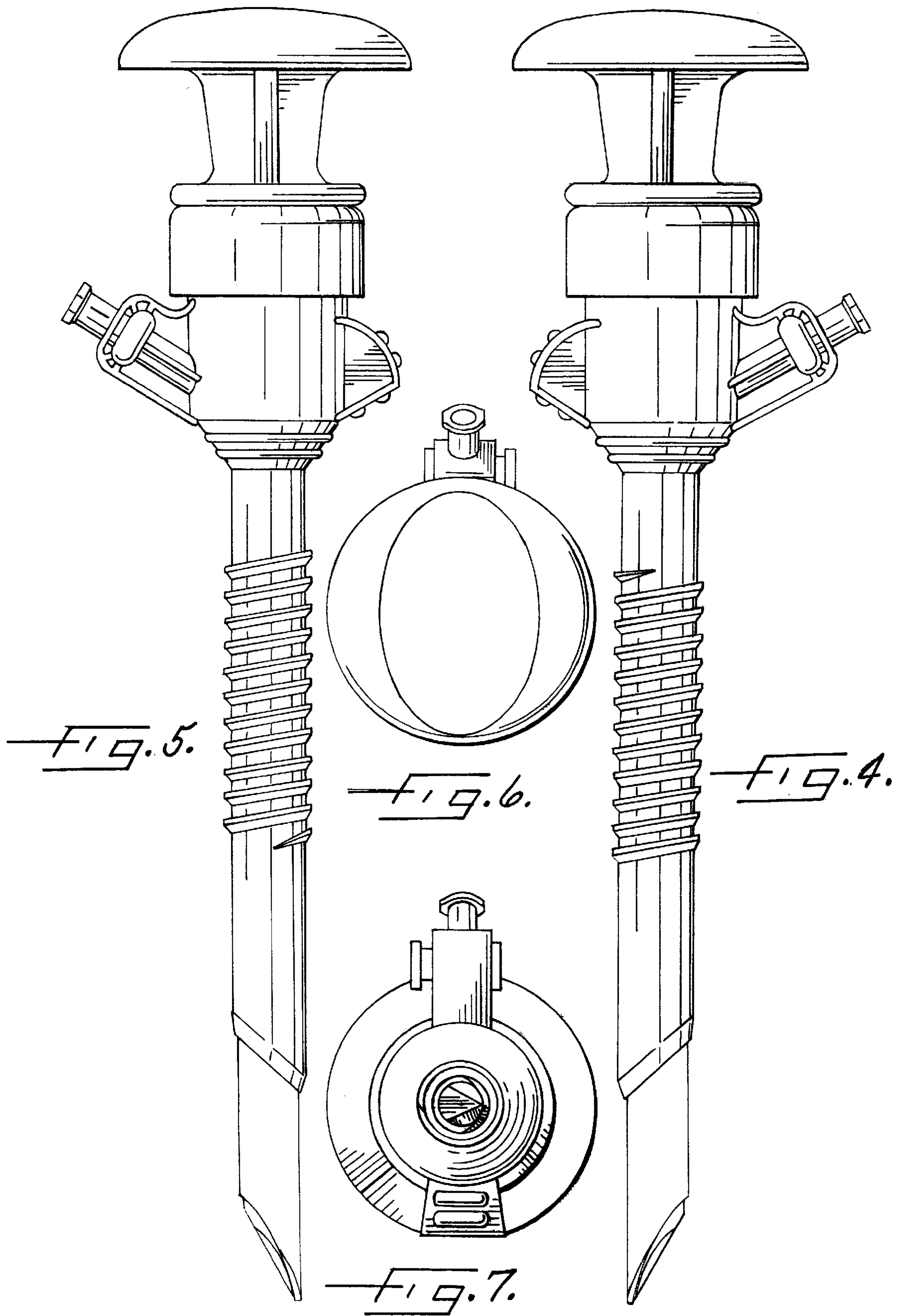


FIG. 3.



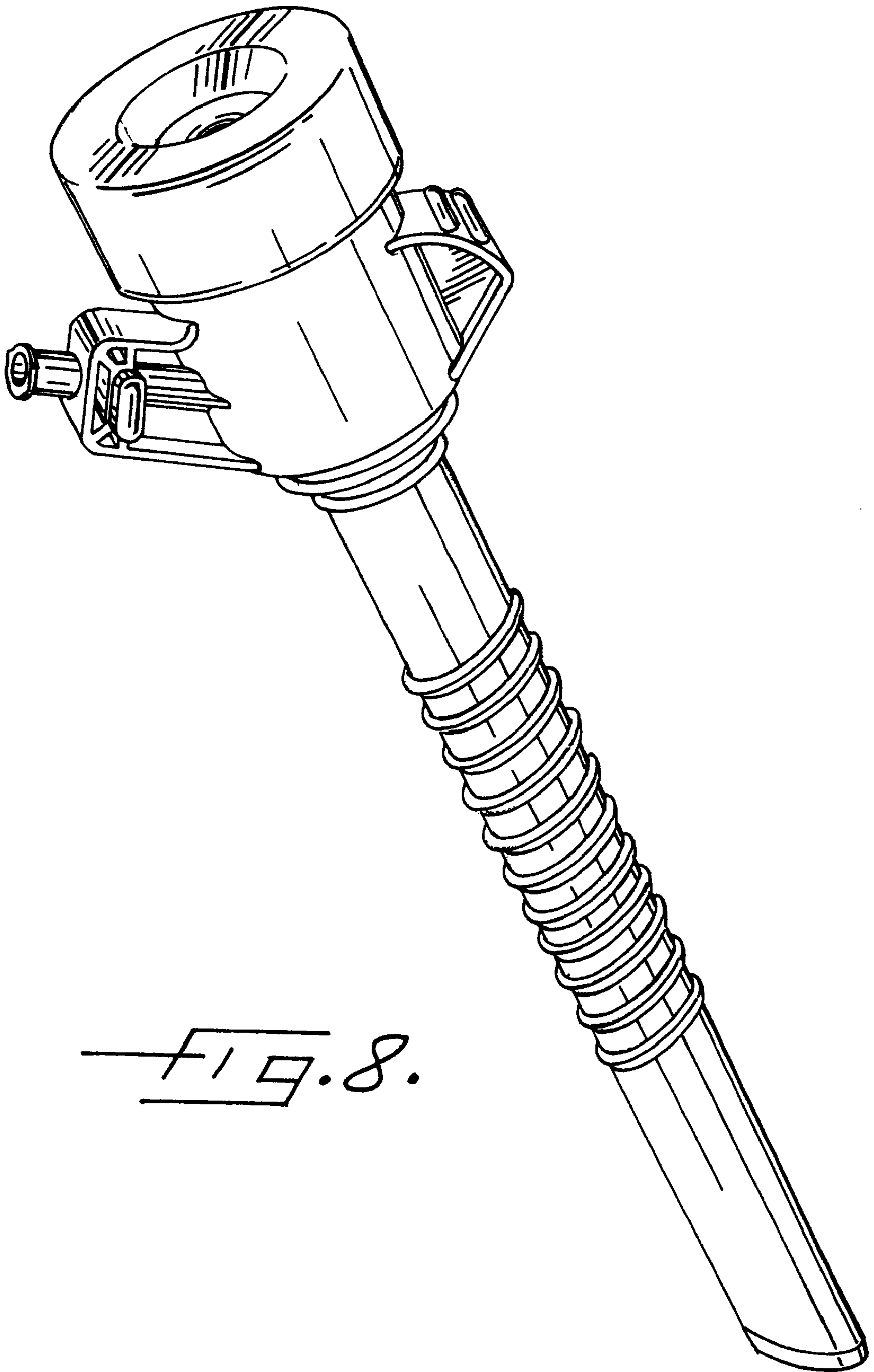


FIG. 8.

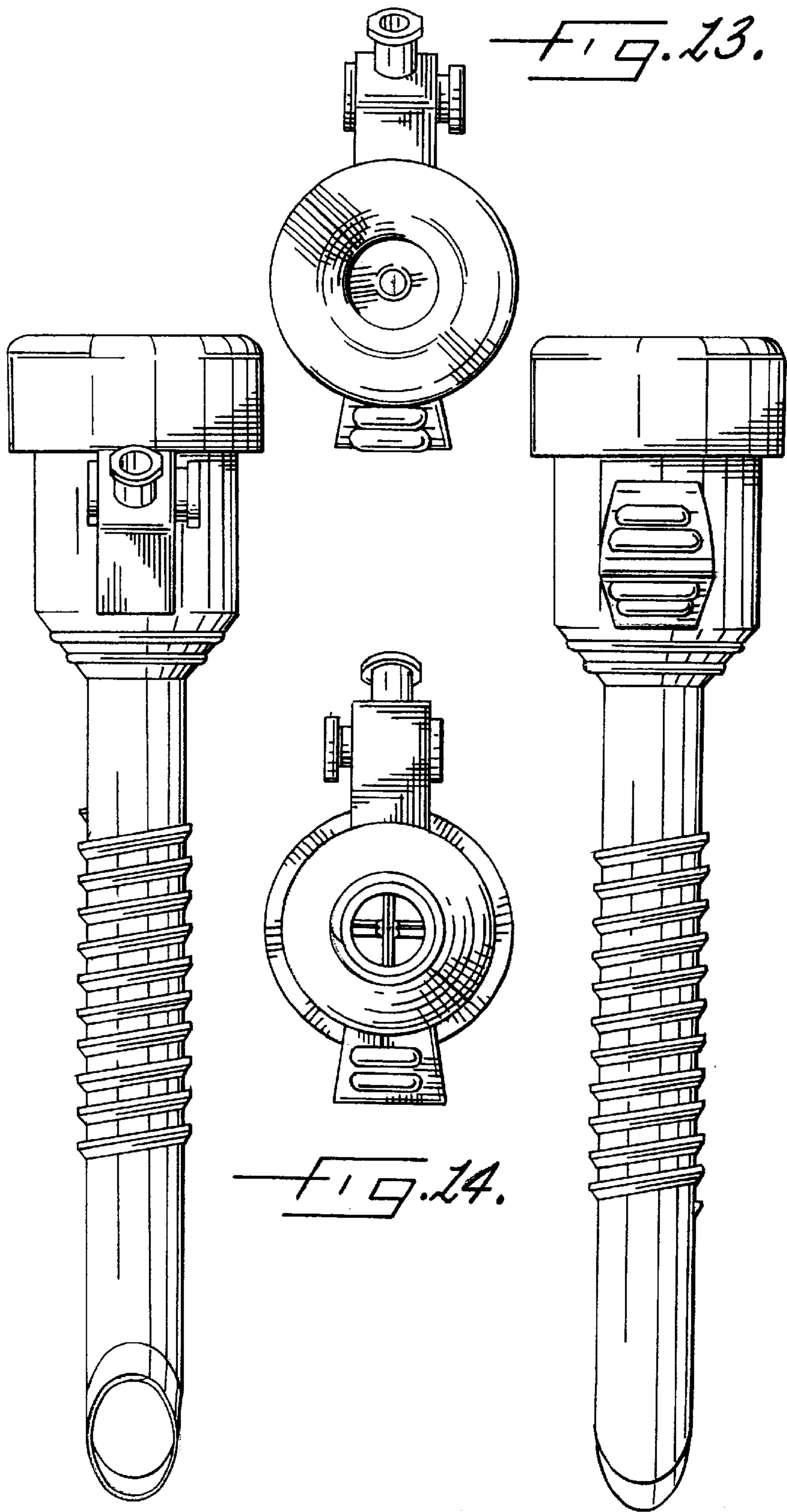




FIG. 11.

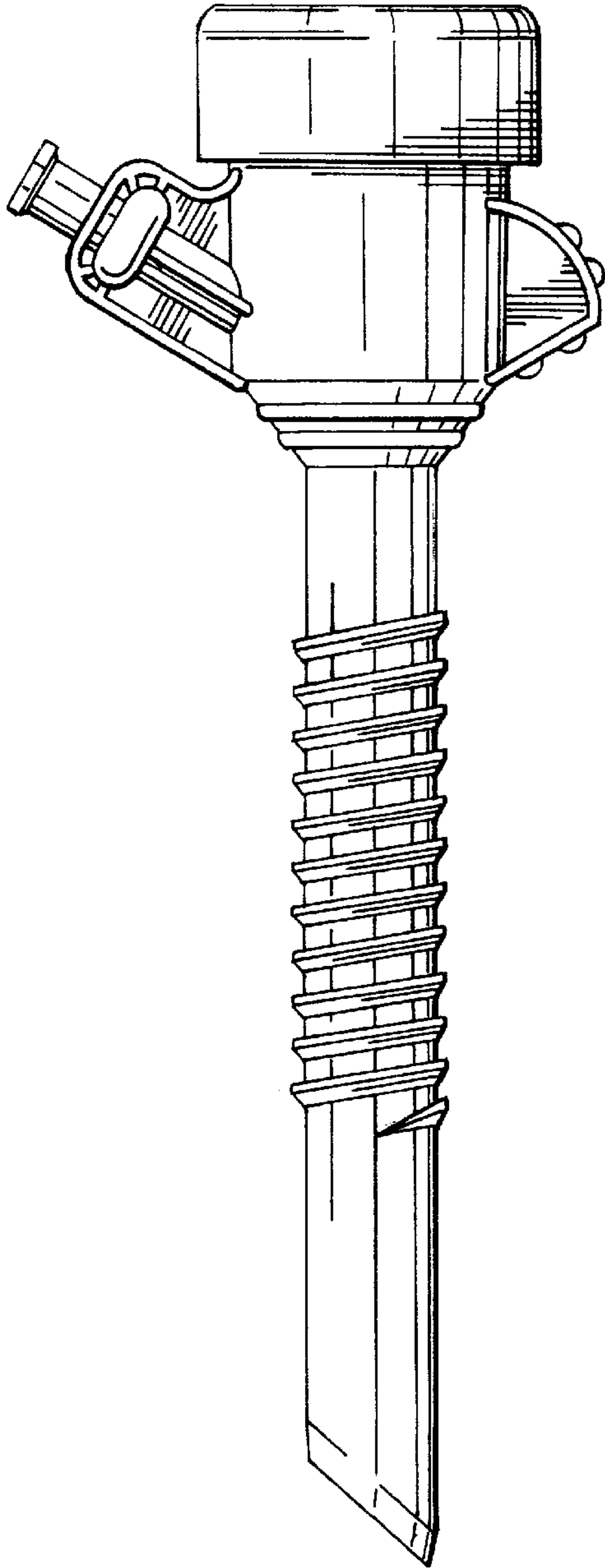
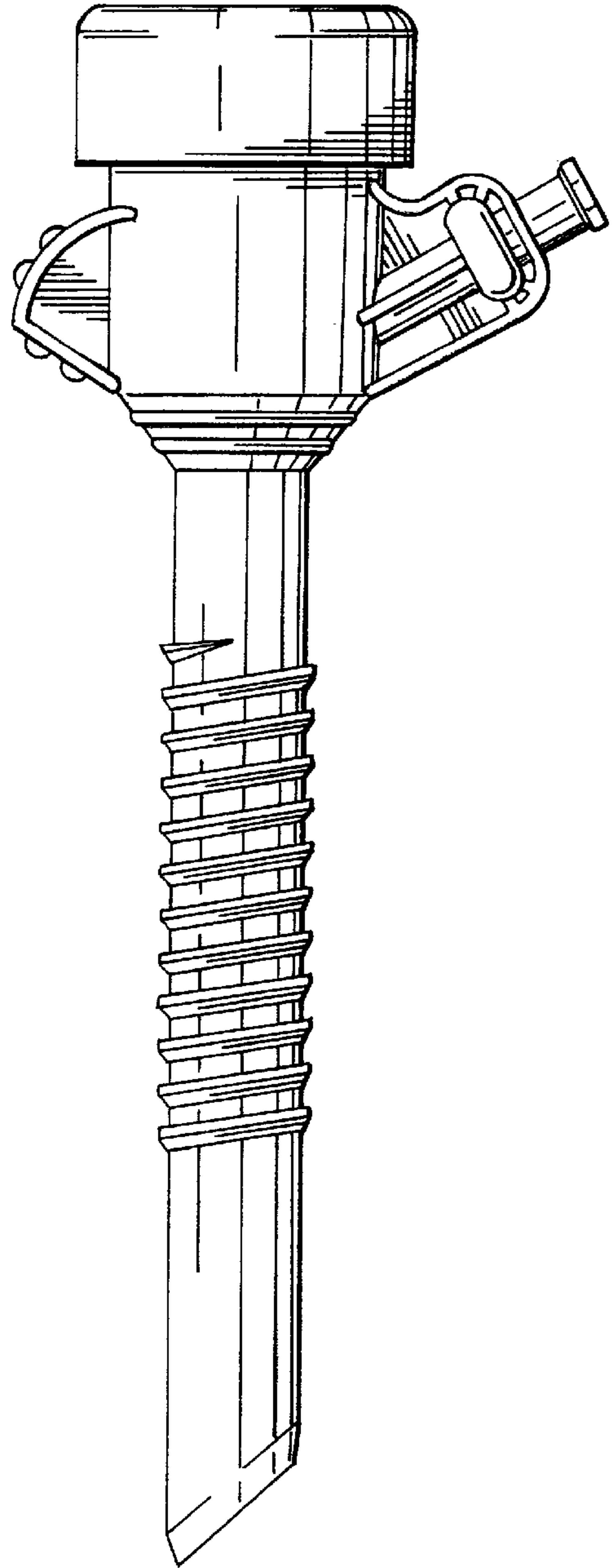


FIG. 12.





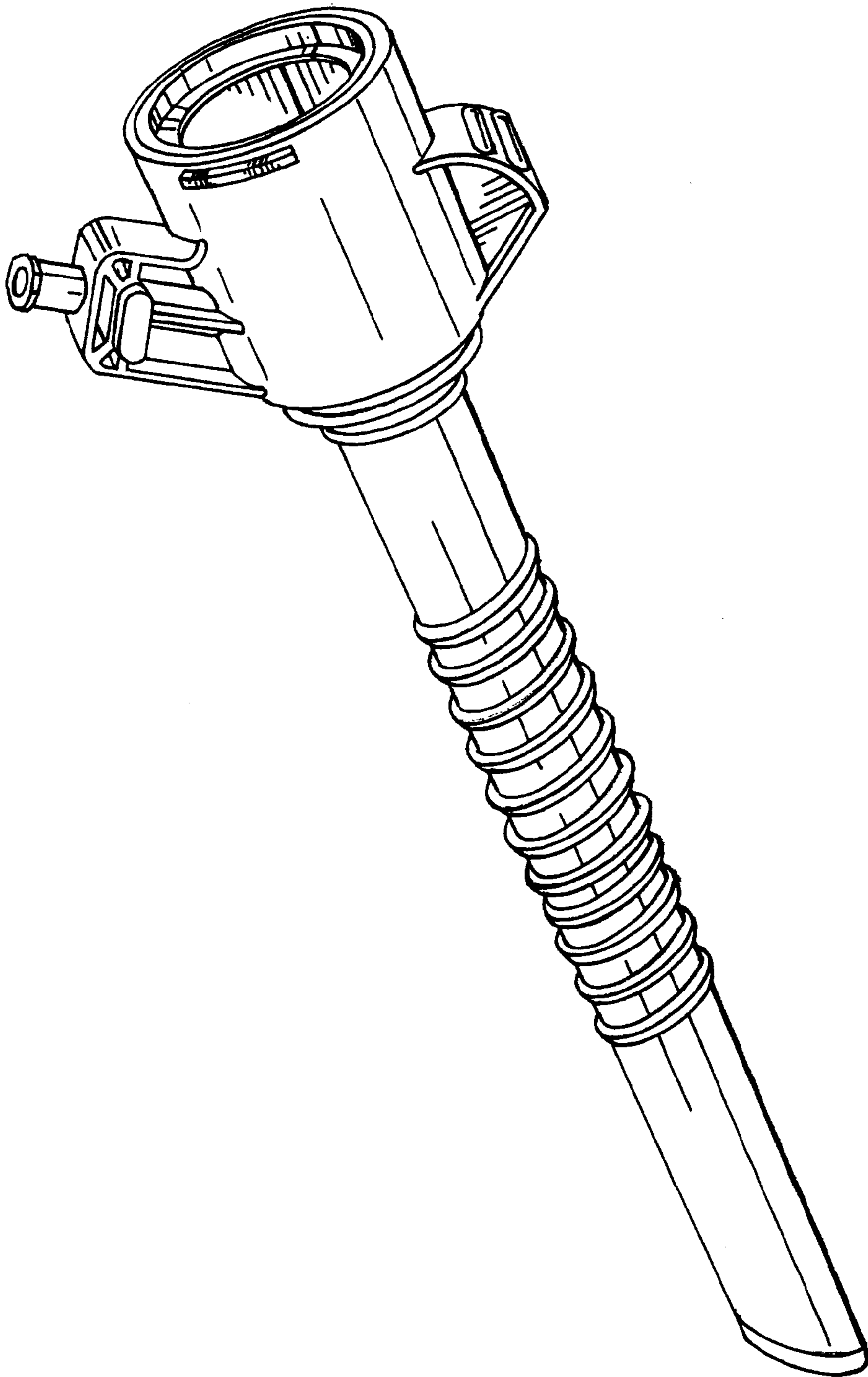
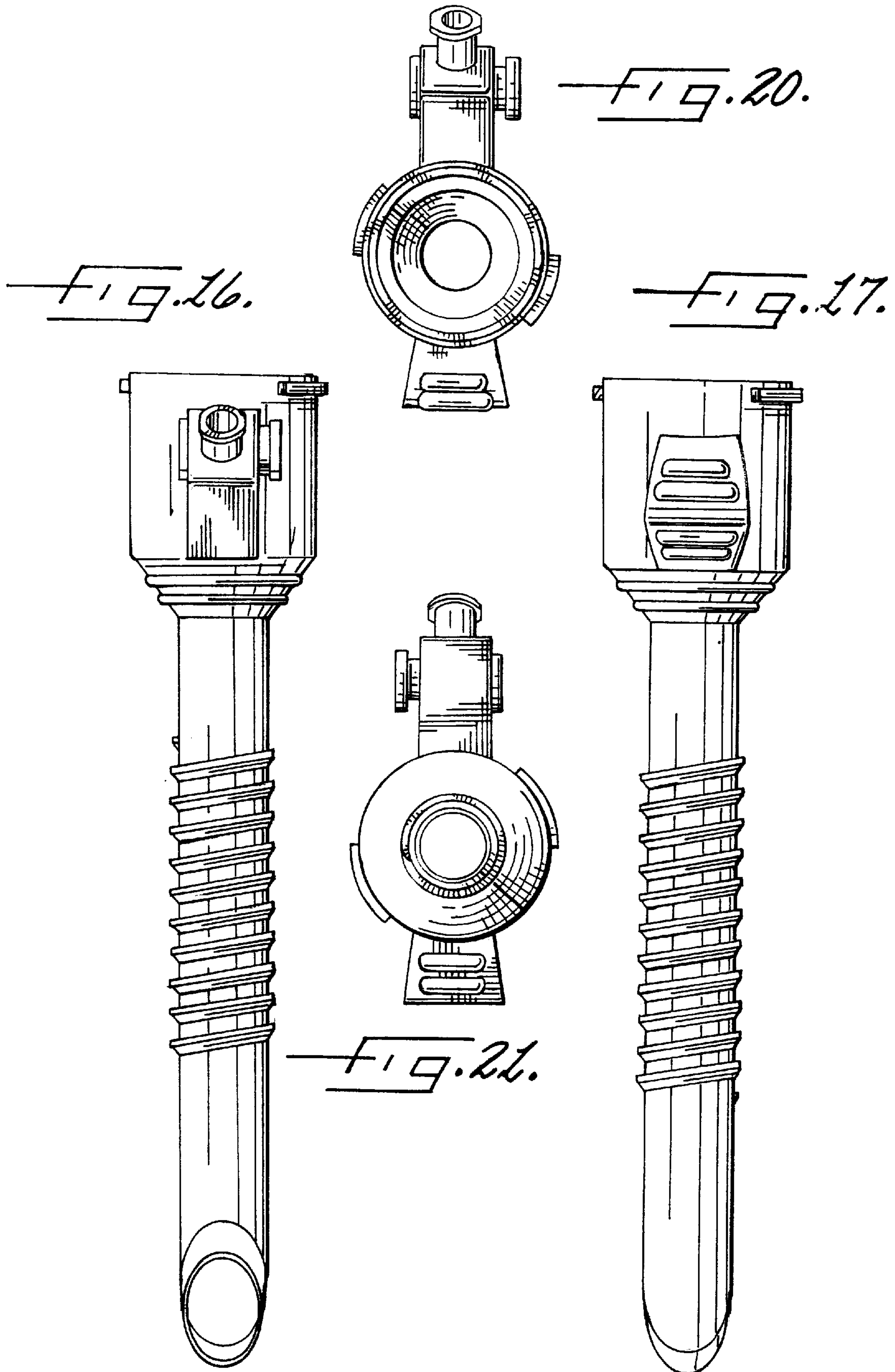


FIG. 15.



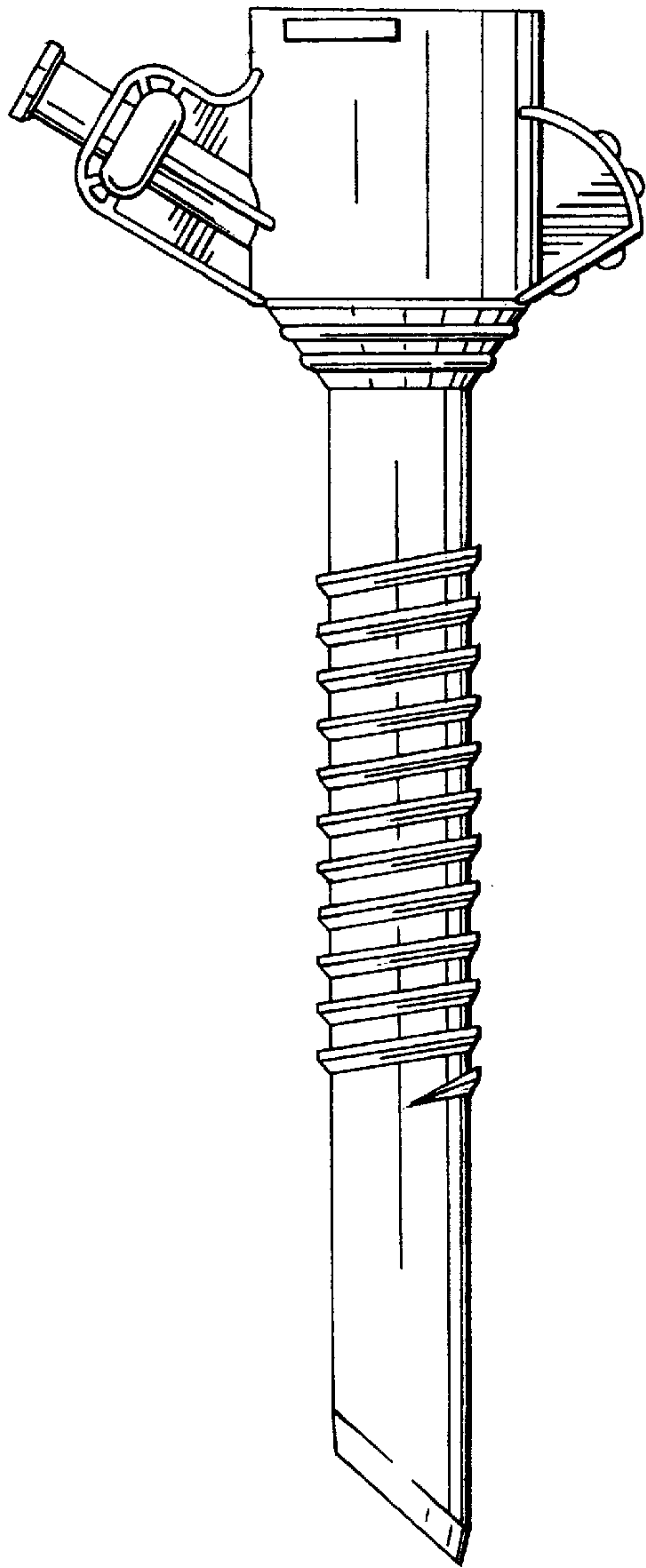


FIG. 18.

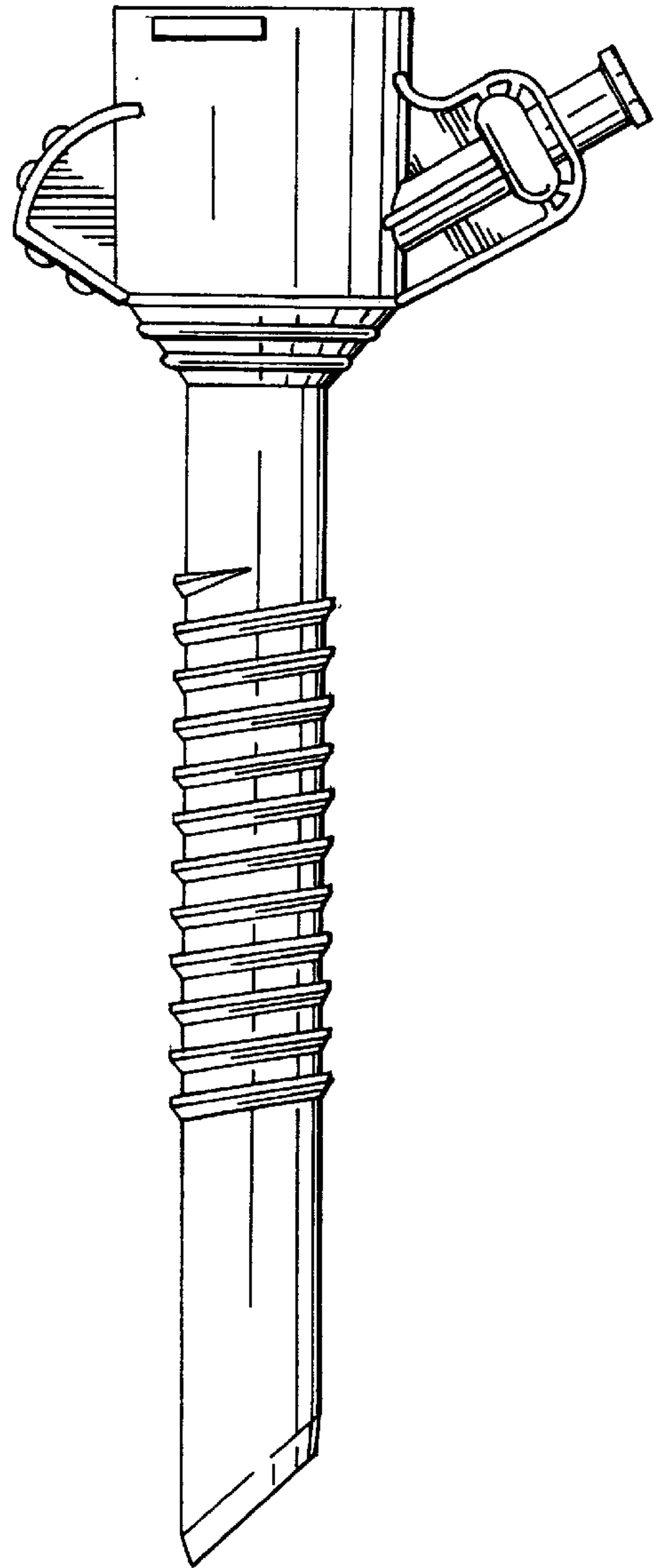


FIG. 19.



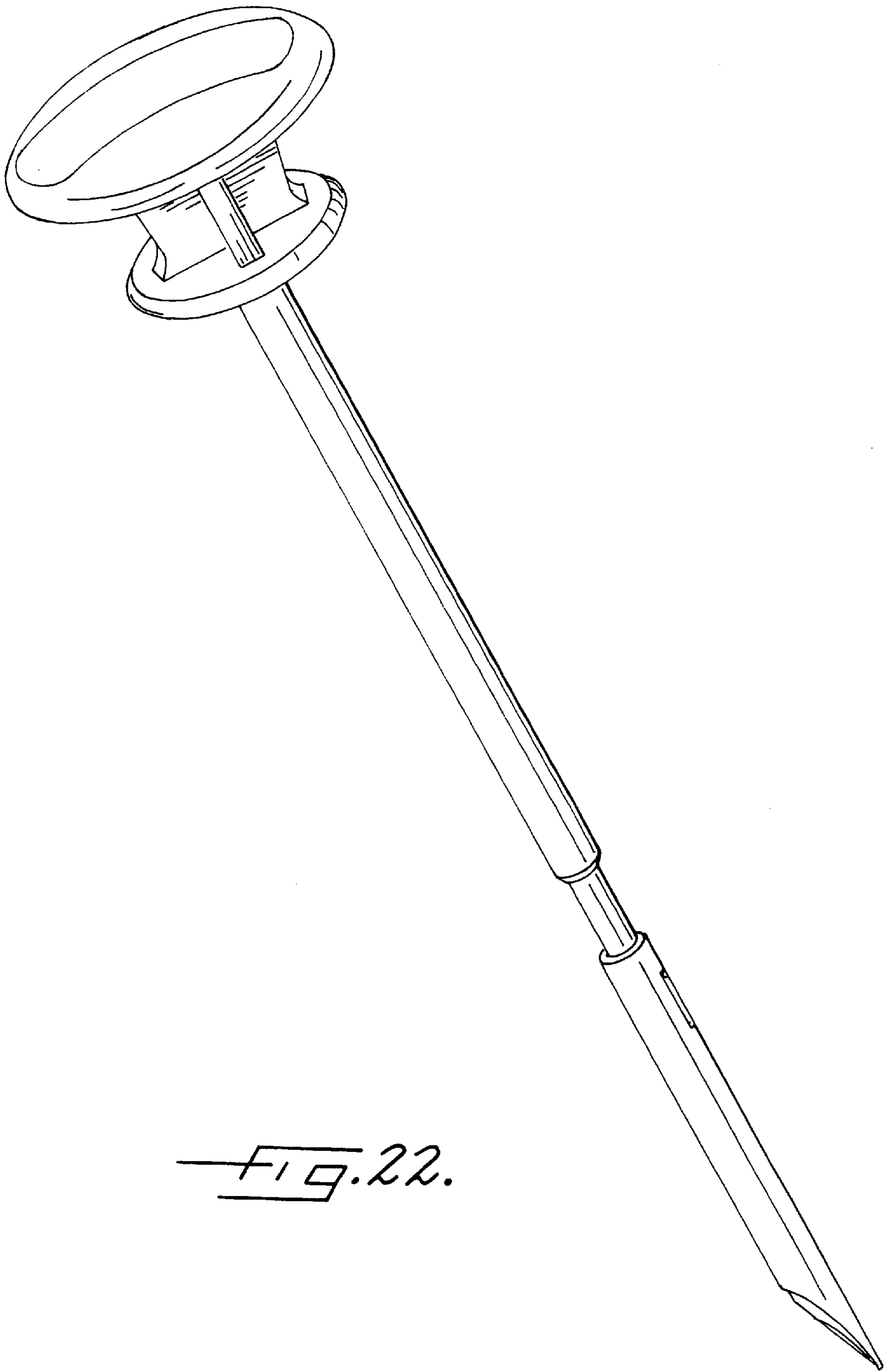
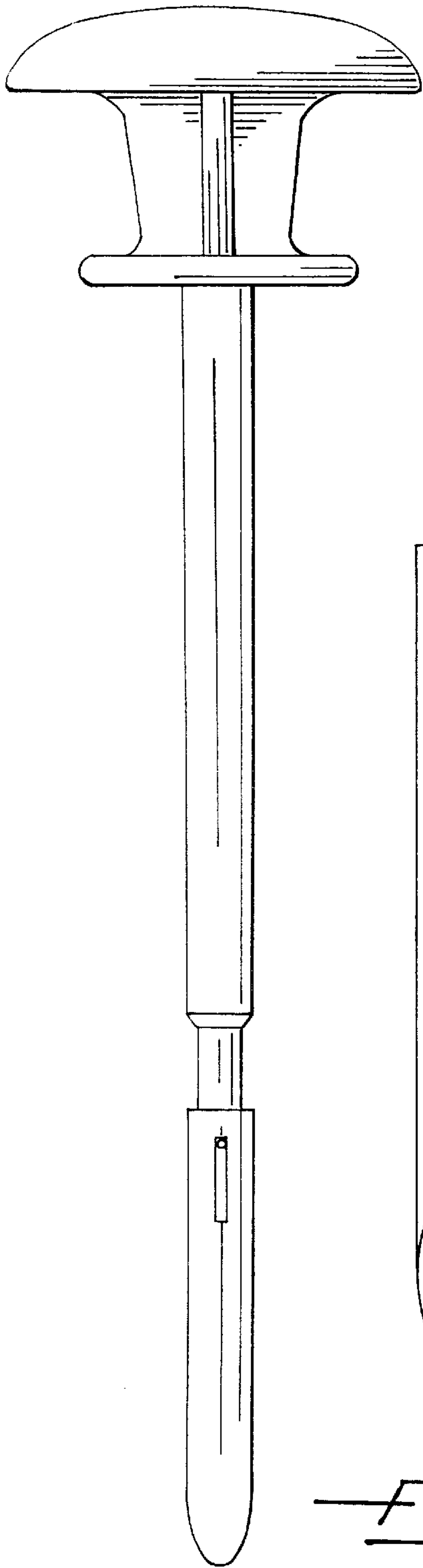
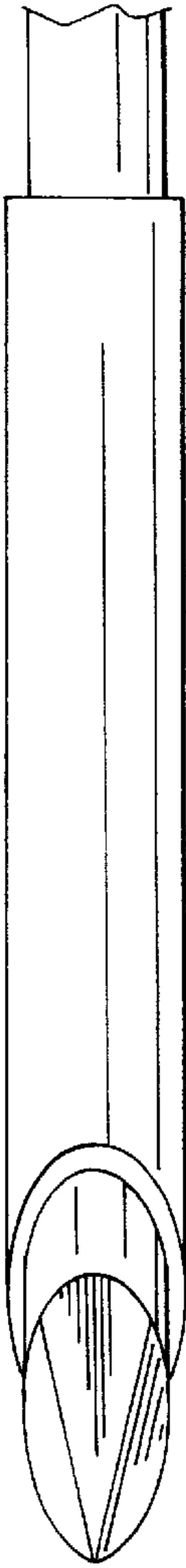


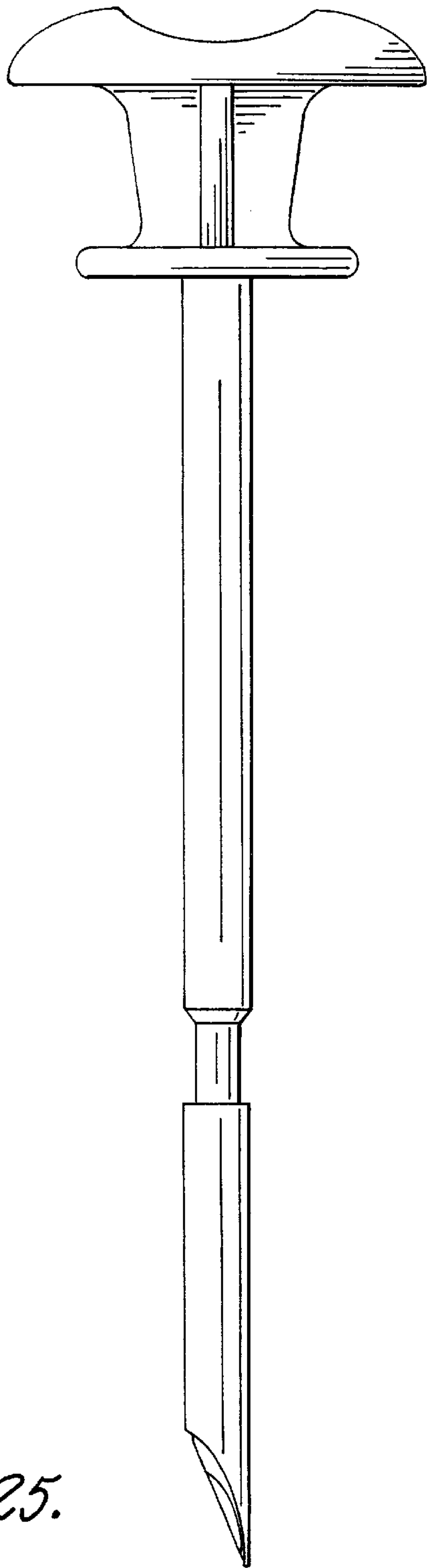
FIG. 22.



— FIG. 24.



— FIG. 25.



— FIG. 23.

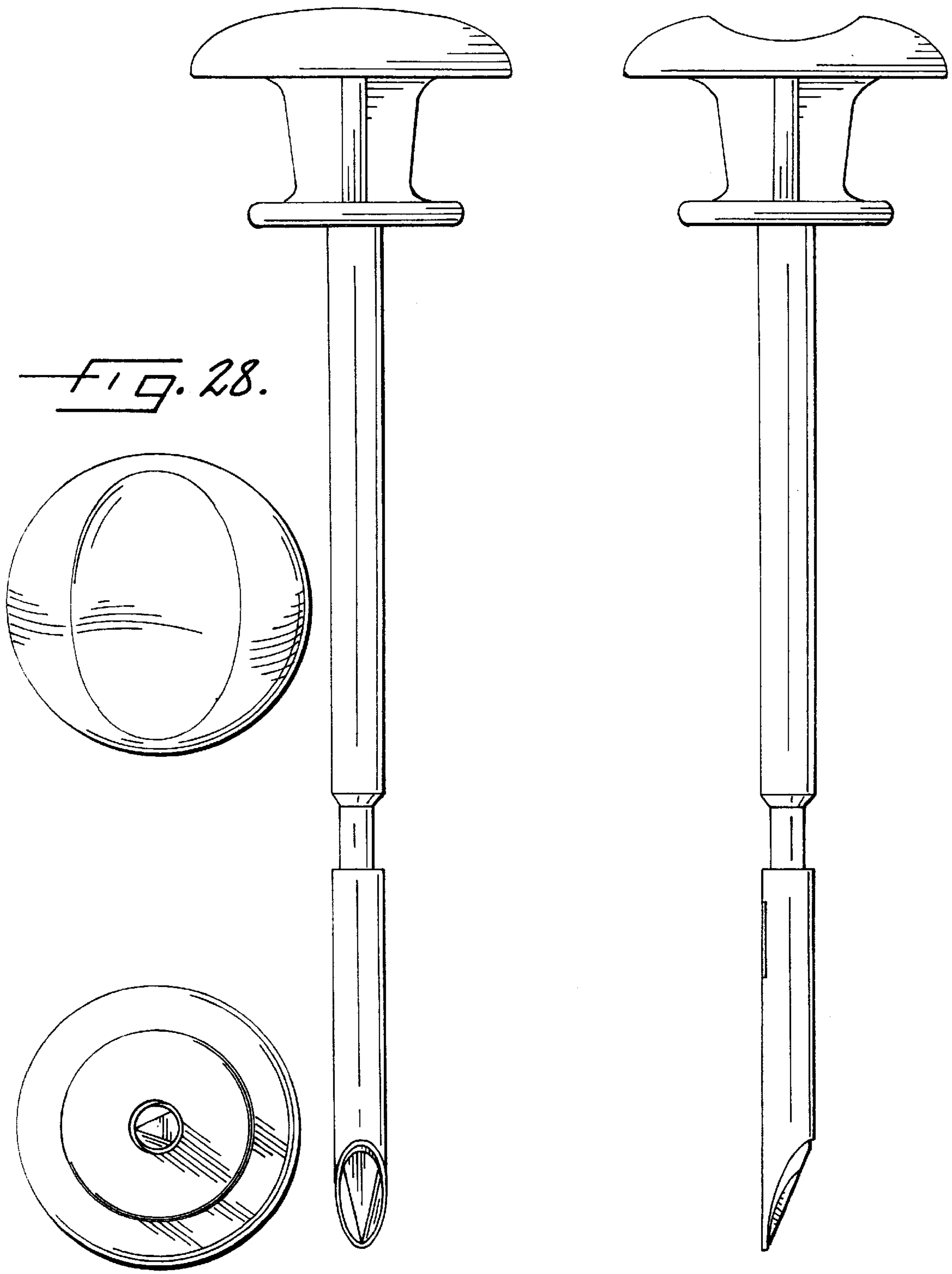


FIG. 28.

FIG. 29. FIG. 27.

FIG. 26.



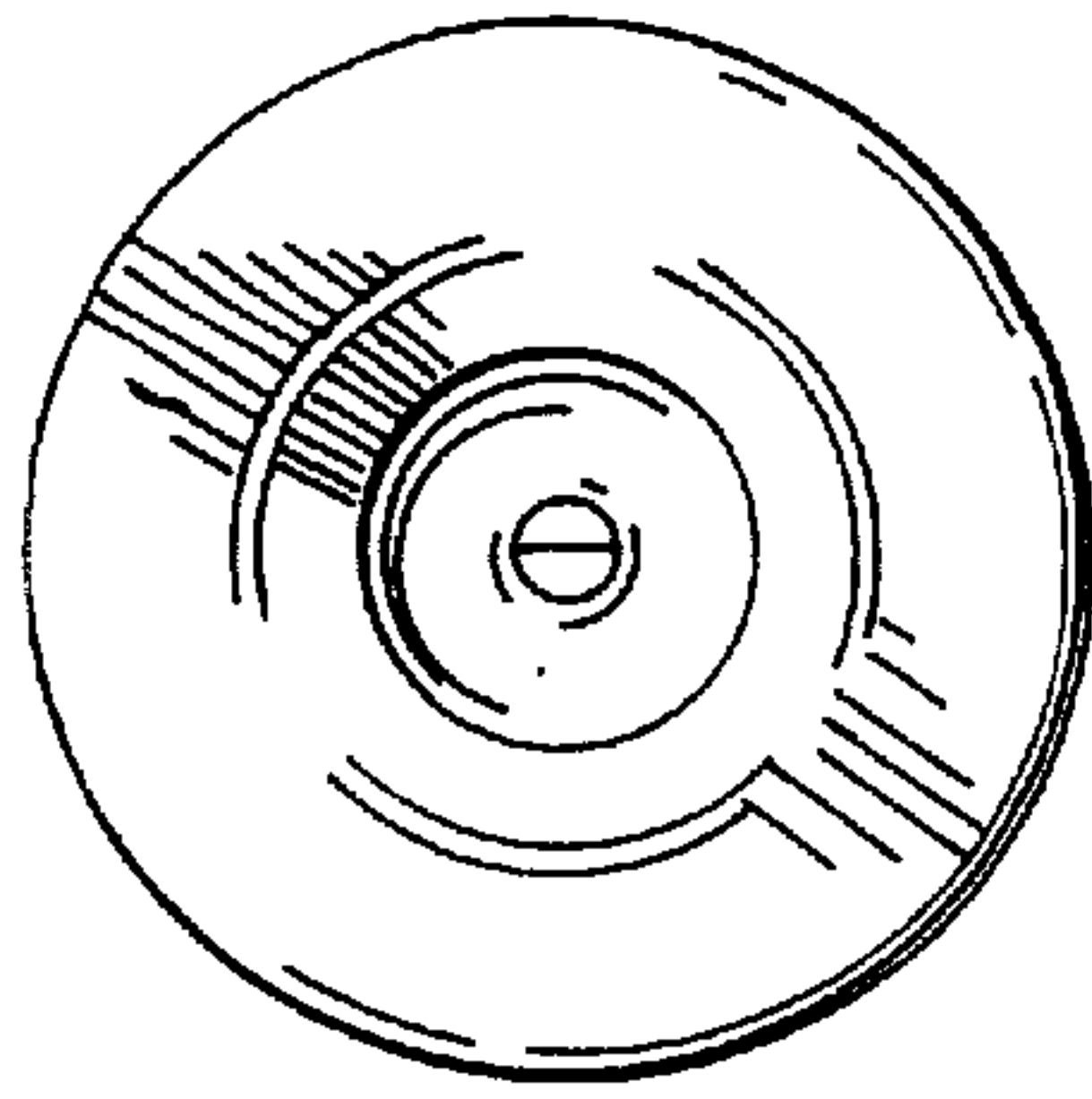


FIG. 31.

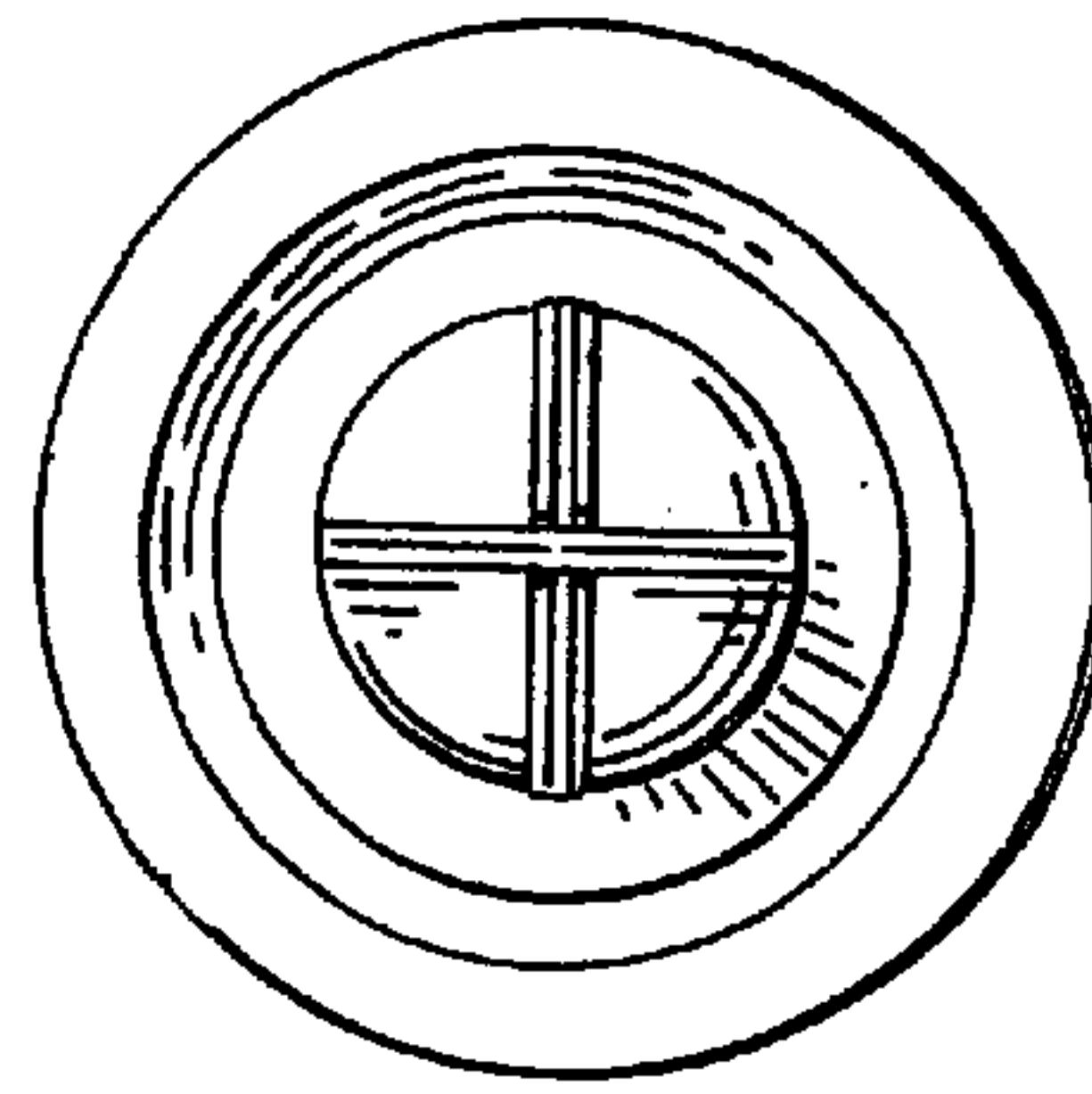


FIG. 32.

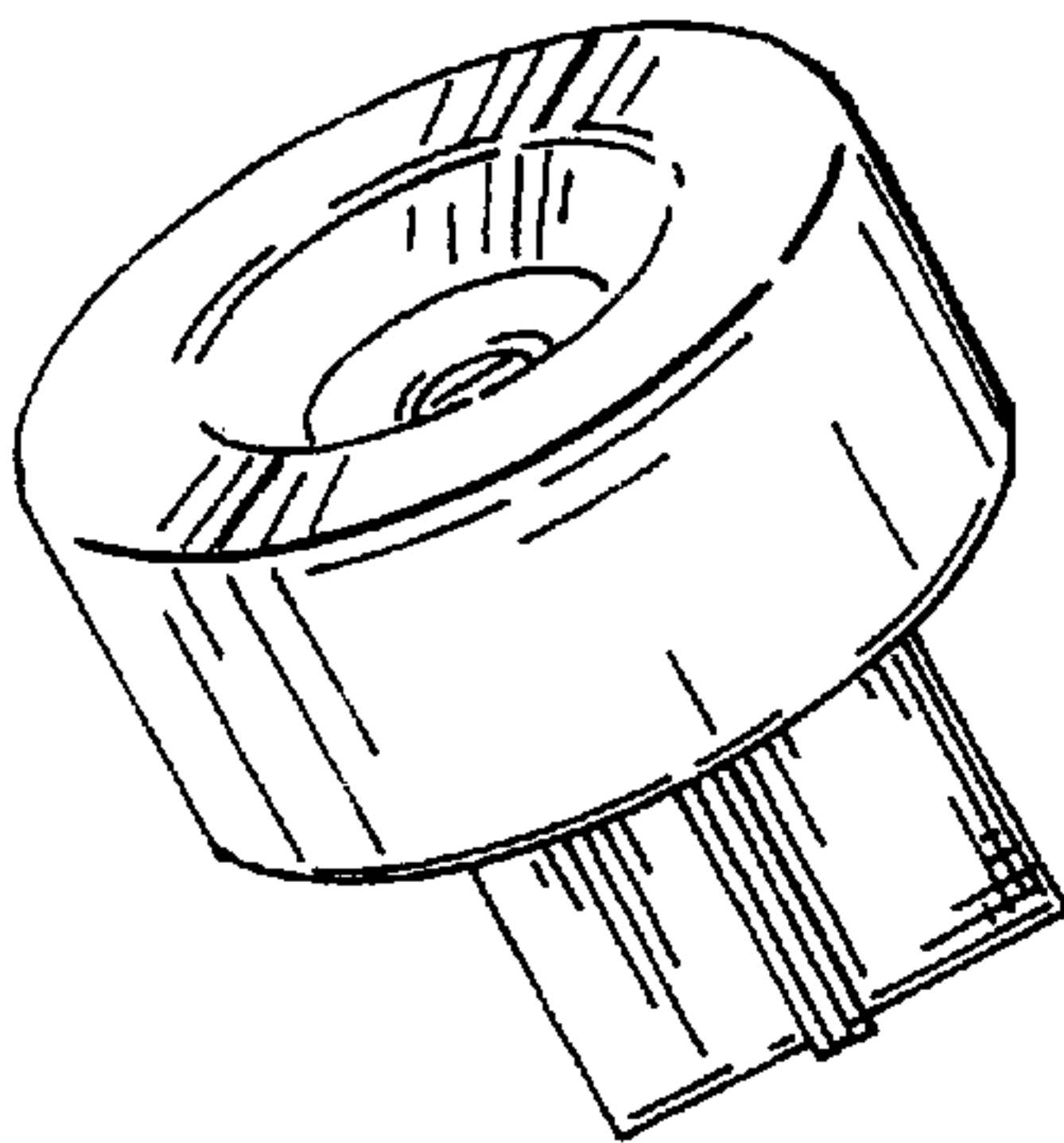


FIG. 30.

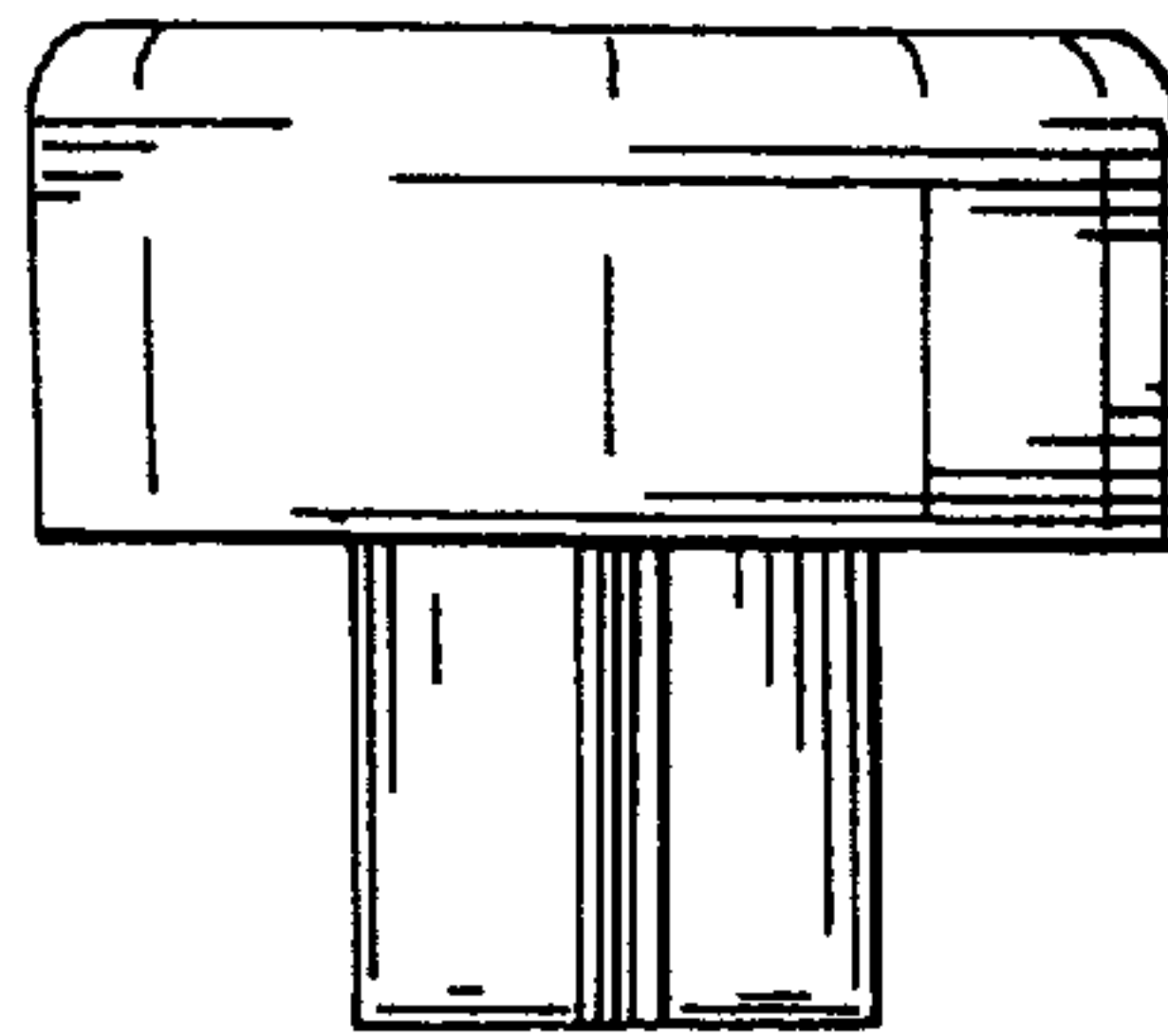


FIG. 33.

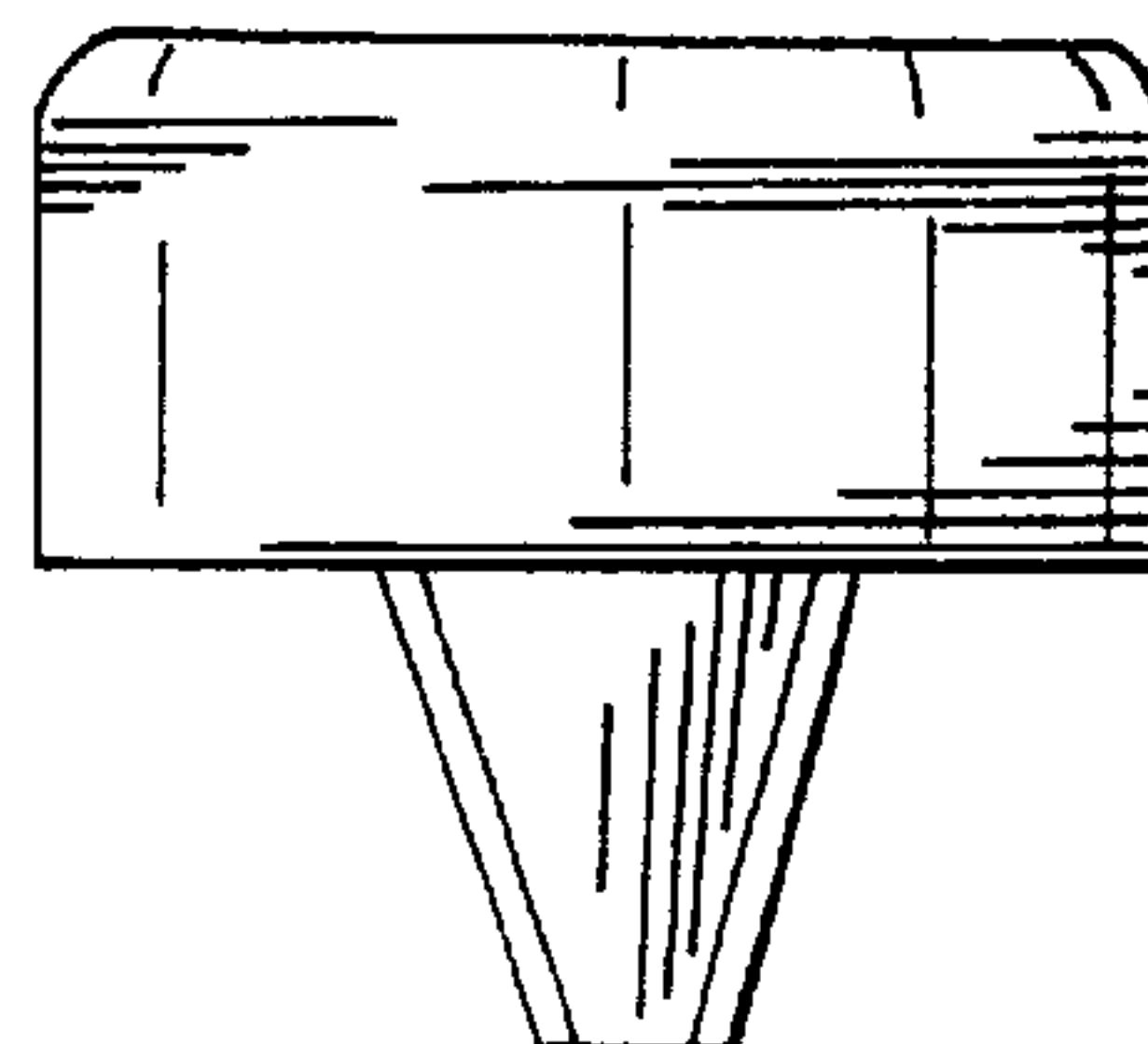


FIG. 34.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : Des. 449,887 S  
DATED : October 30, 2001  
INVENTOR(S) : Haberland et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page,

**DESCRIPTION,**


Fig. 1, please delete the first "new design"

Figs. 7 and 14, please delete "top" and insert -- bottom -- therefor.

Figs. 8, 15, 22 and 30, please delete the second "new design"

Signed and Sealed this

Nineteenth Day of August, 2003

A handwritten signature in black ink, appearing to read "James E. Rogan", with a horizontal line drawn underneath it.

JAMES E. ROGAN

*Director of the United States Patent and Trademark Office*