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(12) **United States Design Patent** (10) **Patent No.:** **US D942,621 S**  
**Cheng et al.** (45) **Date of Patent:** **\*\* Feb. 1, 2022**

(54) **BENDABLE URETERAL ACCESS SHEATH**  
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(\*\*) Term: **15 Years**

(57) **CLAIM**

We claim, the ornamental design for a bendable ureteral access sheath, as shown and described.

(21) Appl. No.: **29/730,317**  
(22) Filed: **Apr. 2, 2020**  
(51) **LOC (13) Cl.** ..... **24-02**  
(52) **U.S. Cl.**  
USPC ..... **D24/130; D24/112**  
(58) **Field of Classification Search**  
USPC ..... D24/112, 122, 127, 129, 130, 135, 140, D24/222

**DESCRIPTION**

FIG. 1 is a perspective view of a bendable ureteral access sheath.  
FIG. 2 is a right side view of the bendable ureteral access sheath.  
FIG. 3 is a left side view of the bendable ureteral access sheath.  
FIG. 4 is a front view of the bendable ureteral access sheath.  
FIG. 5 is a rear view of the bendable ureteral access sheath.  
FIG. 6 is a top view of the bendable ureteral access sheath.  
FIG. 7 is a bottom view of the bendable ureteral access sheath.  
FIG. 8 is a perspective view of the bendable ureteral access sheath.  
FIG. 9 is a perspective view of a bendable ureteral access sheath.  
FIG. 10 is a right side view of the bendable ureteral access sheath.  
FIG. 11 is a left side view of the bendable ureteral access sheath.  
FIG. 12 is a front view of the bendable ureteral access sheath.  
FIG. 13 is a rear view of the bendable ureteral access sheath.  
FIG. 14 is a top view of the bendable ureteral access sheath.  
FIG. 15 is a bottom view of the bendable ureteral access sheath; and,  
FIG. 16 is a perspective view of the bendable ureteral access sheath.

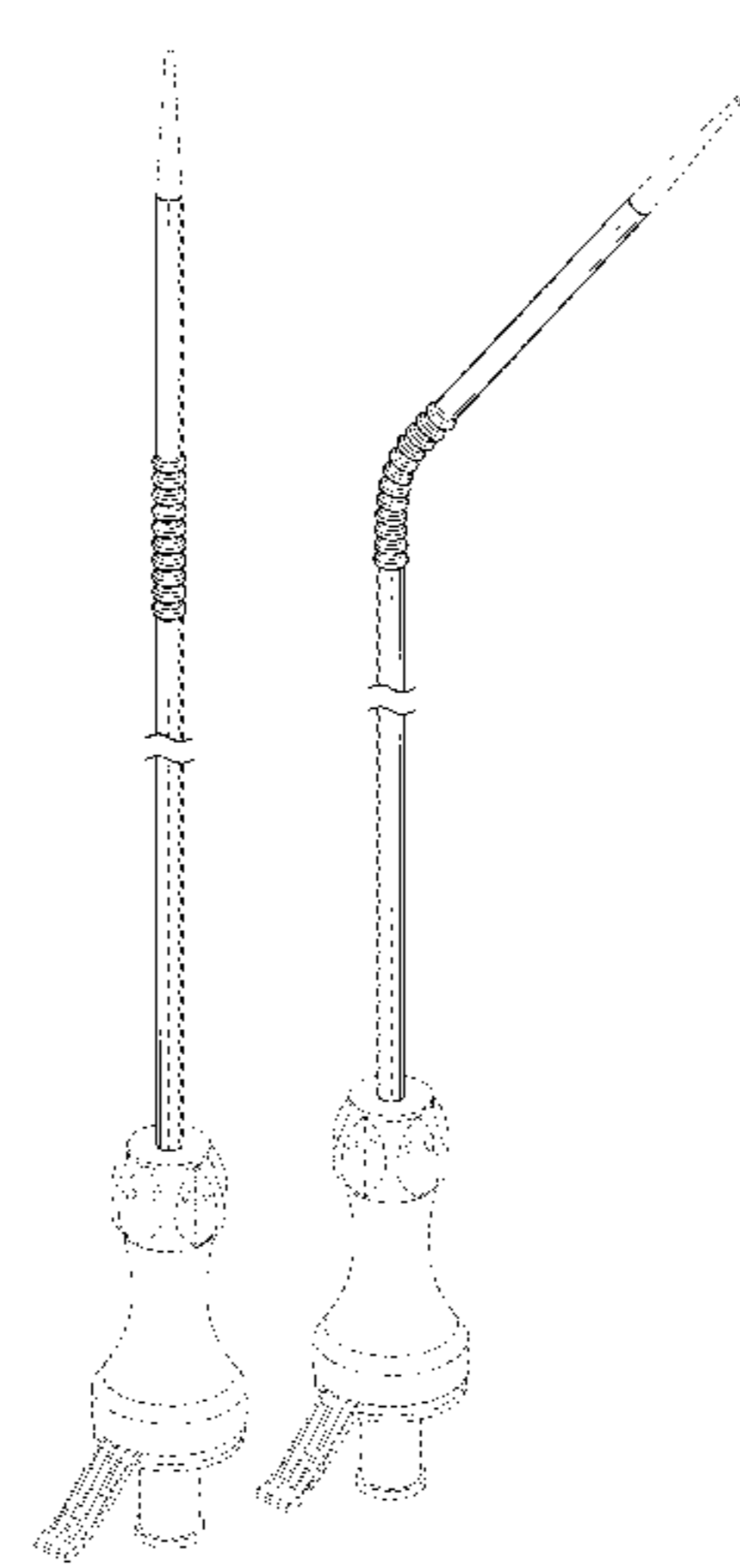
(Continued)

(56) **References Cited**  
**U.S. PATENT DOCUMENTS**  
3,409,224 A \* 11/1968 Harp ..... A47G 21/186 239/33  
D214,150 S \* 5/1969 Nardone ..... D7/300.2  
(Continued)

**FOREIGN PATENT DOCUMENTS**  
CN 209952029 U 1/2020  
WO 2007081706 A2 7/2007  
WO 2010132560 A1 11/2010

**OTHER PUBLICATIONS**  
Ureteral Access Sheath by UROTECH, Amazon, [Post date Dec. 17, 2019], [Site Visited Sep. 22, 2021], Seen at URL: <https://www.youtube.com/watch?v=Lh7PdQHjSLg> (Year: 2019).\*  
(Continued)

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claimed design. The broken lines in the figures show portions of the bendable ureteral access sheath that form no part of the claimed design.

**1 Claim, 10 Drawing Sheets**

**(58) Field of Classification Search**

CPC ... A61B 1/0057; A61B 17/3421; A61B 1/303;  
A61M 25/0138; A61M 25/0133; A61F  
2/042

See application file for complete search history.

**(56) References Cited**

U.S. PATENT DOCUMENTS

D248,774	S *	8/1978	Vallfors	.....	604/264
D248,969	S *	8/1978	Hodge	.....	604/268
D284,892	S *	7/1986	Glassman	.....	D24/112
D318,733	S	7/1991	Wyzgala		
D413,382	S *	8/1999	Maissami	.....	D24/152
6,398,266	B1 *	6/2002	Crump	.....	F16L 11/15 138/121

D687,542	S *	8/2013	Esposito	.....	D24/112
D753,289	S *	4/2016	Shimon	.....	D24/112
D753,290	S	4/2016	Shimon		
9,782,566	B1	10/2017	Paprocki et al.		
D858,751	S *	9/2019	Fischman	.....	D24/112
10,655,759	B2 *	5/2020	Elliott	.....	F16L 11/15
D887,000	S *	6/2020	Campo	.....	D24/138
D890,878	S *	7/2020	Rae	.....	D22/117
D898,499	S *	10/2020	Pisarevsky	.....	D7/300.2
D902,387	S *	11/2020	Oellgaard	.....	D24/112
D918,383	S *	5/2021	Kim	.....	D24/112
D927,911	S *	8/2021	Cran	.....	D7/300.2
2006/0247602	A1 *	11/2006	Dulak	.....	A61M 25/0662 604/523
2015/0112142	A1 *	4/2015	Ando	.....	A61B 1/0052 600/149
2016/0089515	A1 *	3/2016	Hansen	.....	A61M 25/09 604/510
2020/0315445	A1 *	10/2020	Cheng	.....	A61M 25/0052

OTHER PUBLICATIONS

Kaplan et al., "Use of ureteral access sheaths in ureteroscopy," Nat. Rev. Urol. 2016, 13, 135-40.

\* cited by examiner

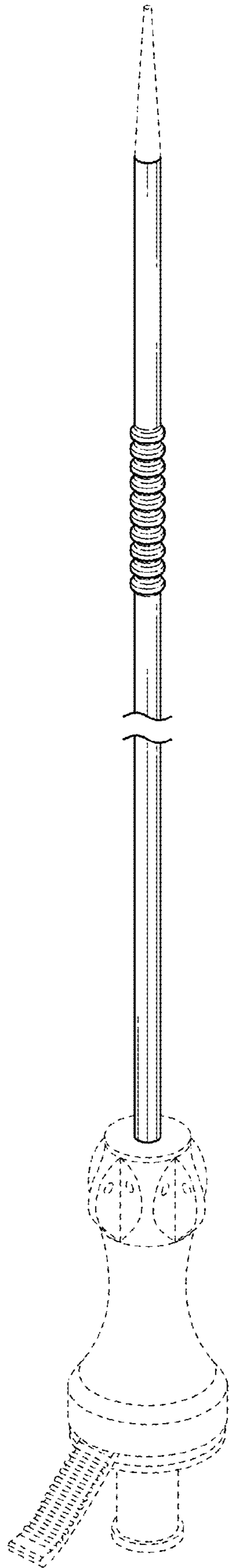


FIG. 1

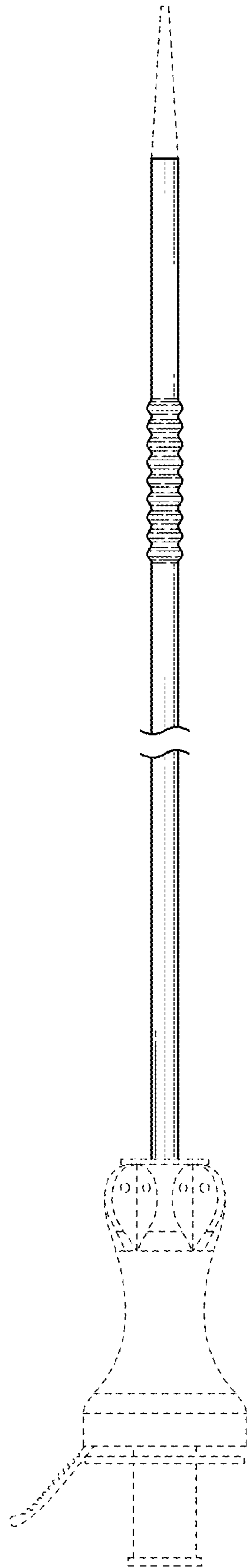


FIG. 2

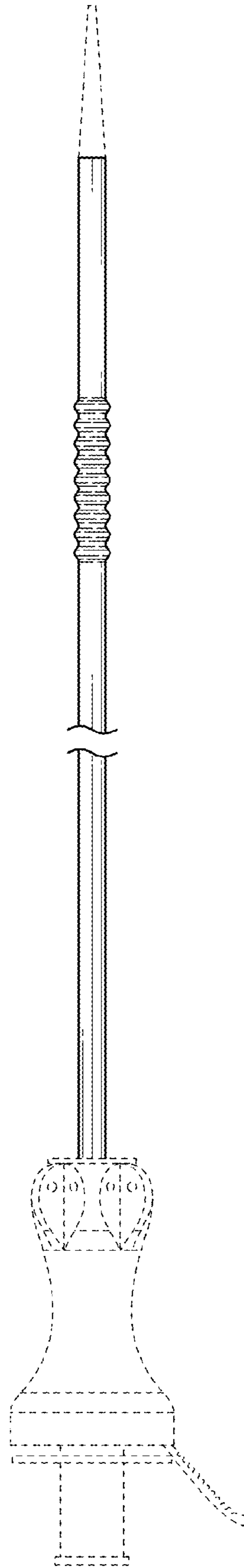


FIG. 3

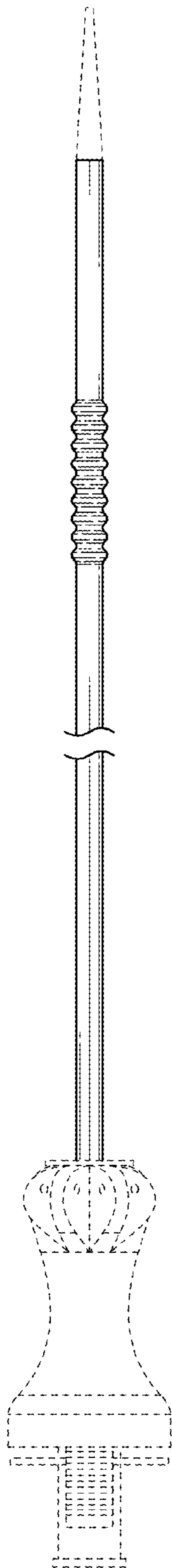


FIG. 4

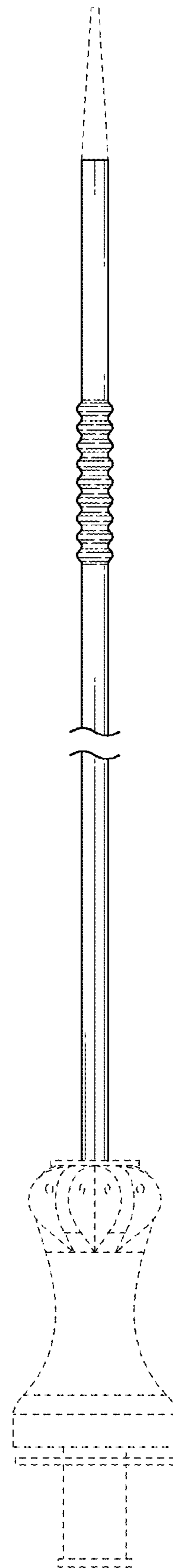
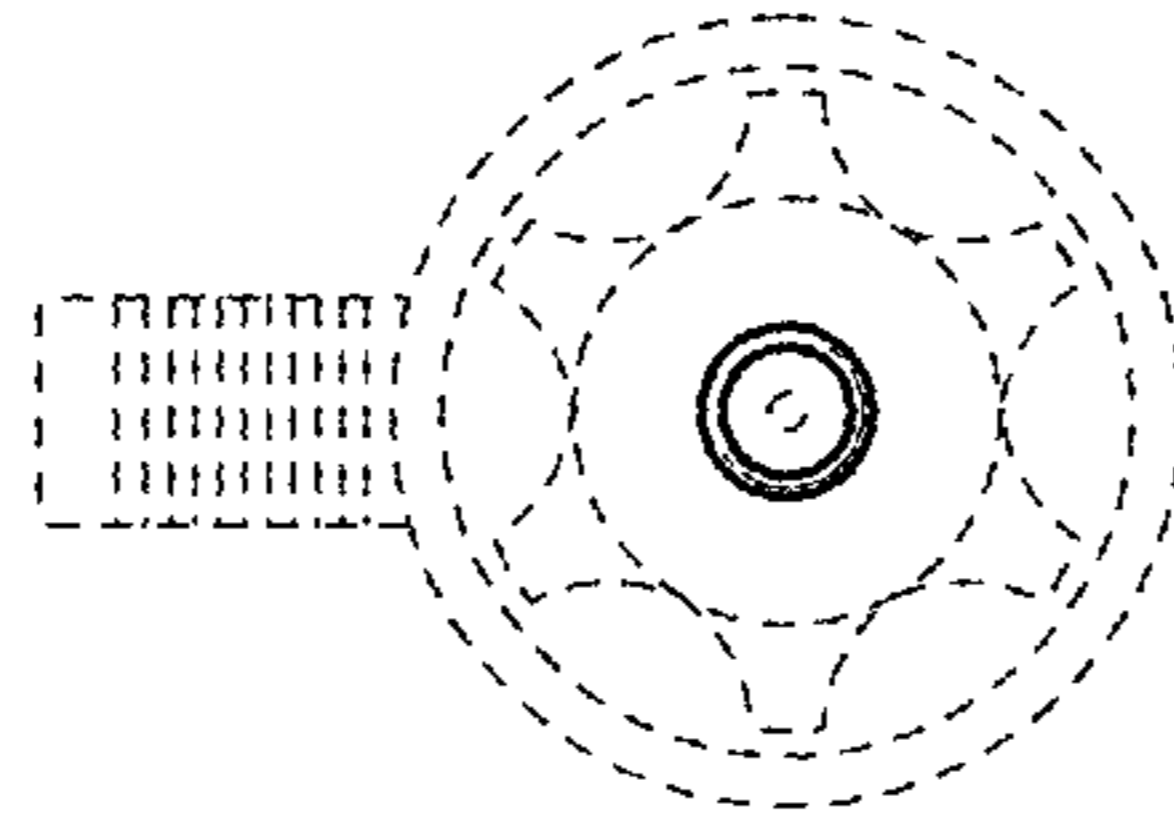
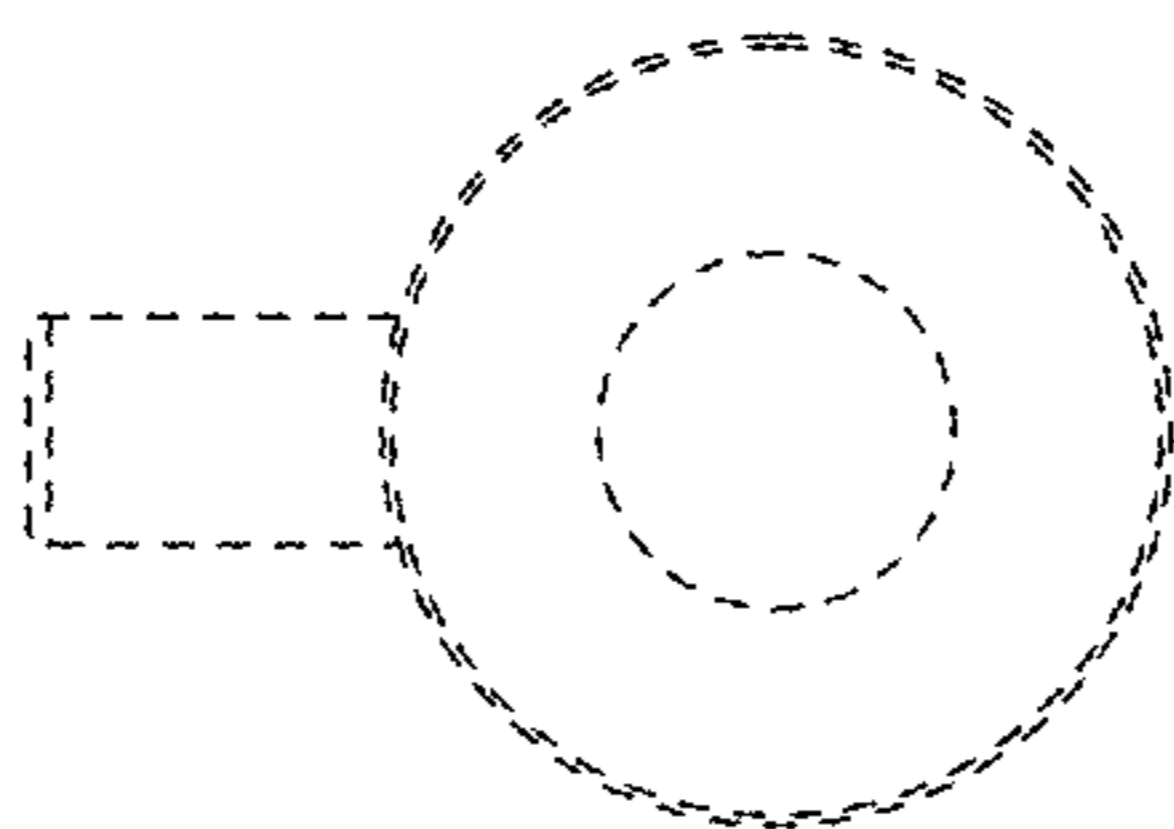


FIG. 5



**FIG. 6**



**FIG. 7**

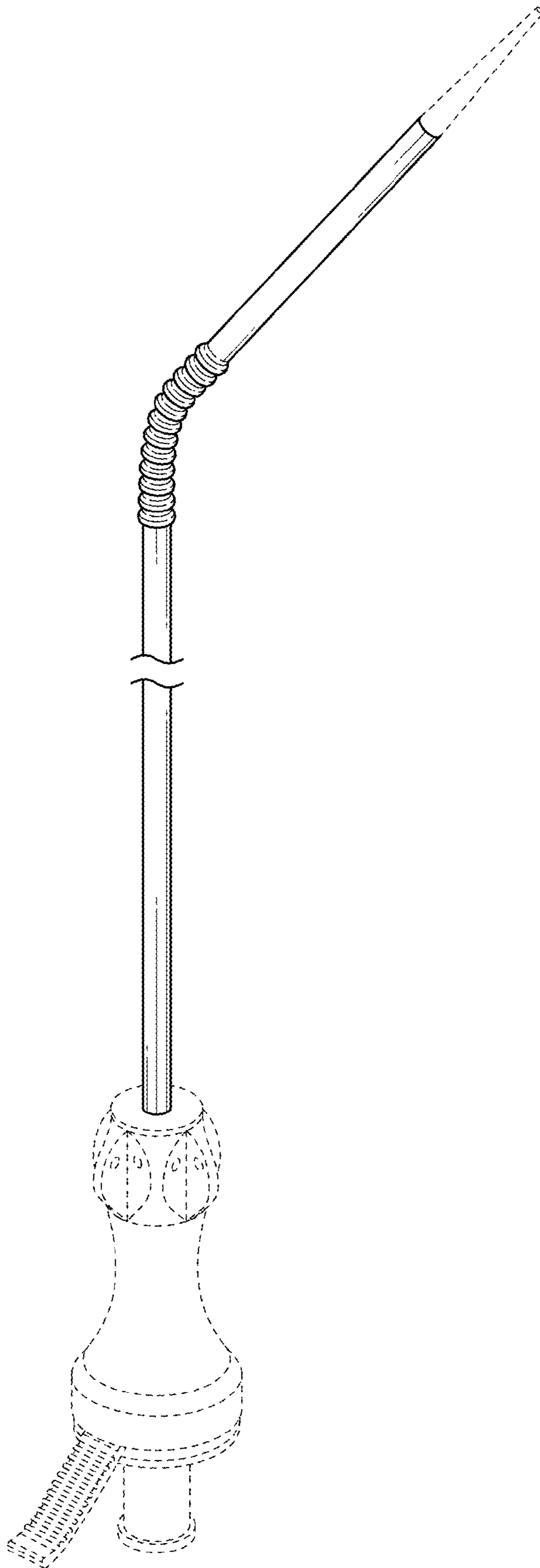


FIG. 8

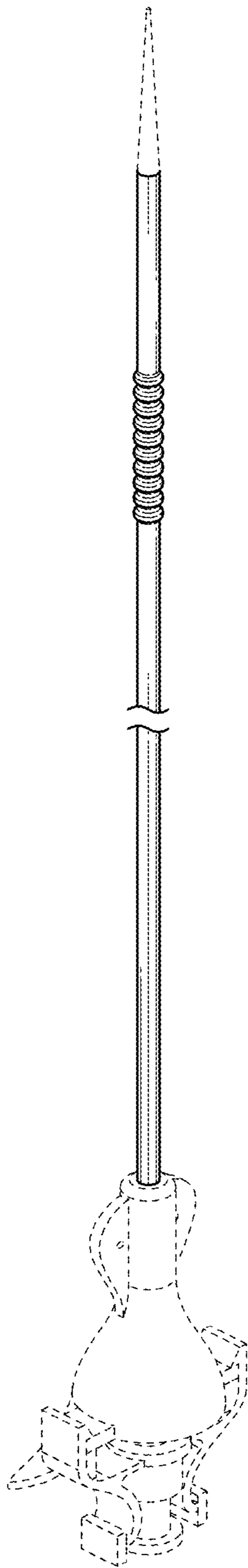


FIG. 9



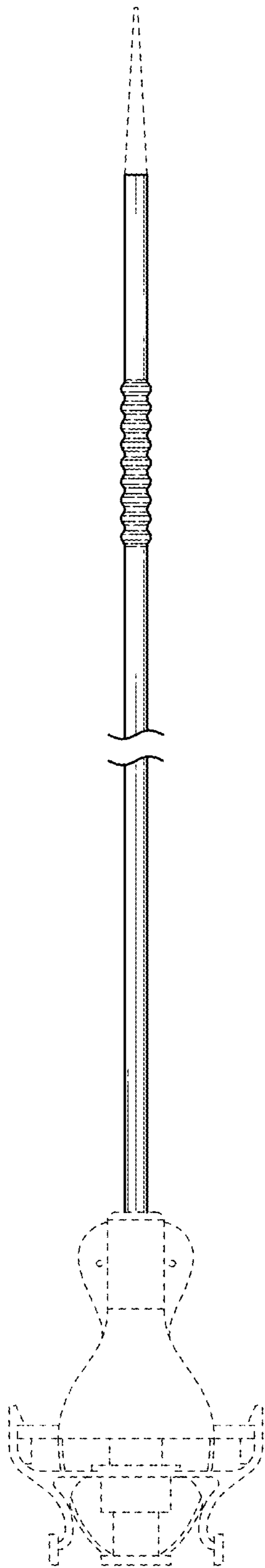


FIG. 10

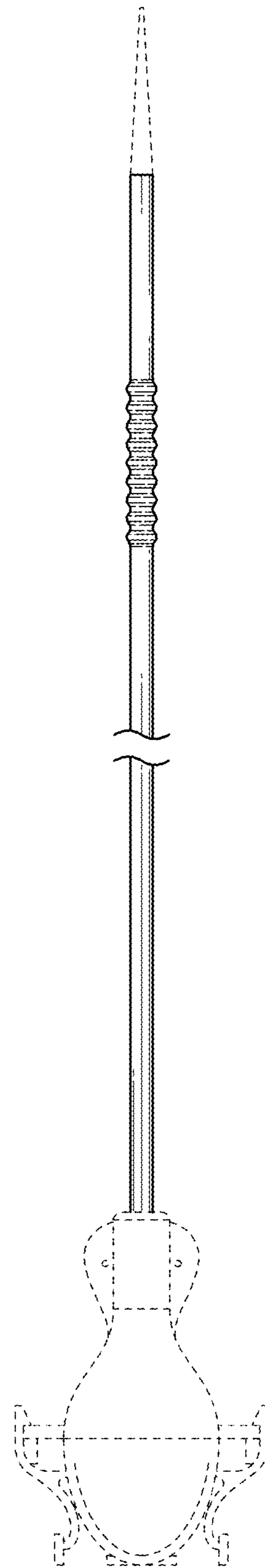


FIG. 11

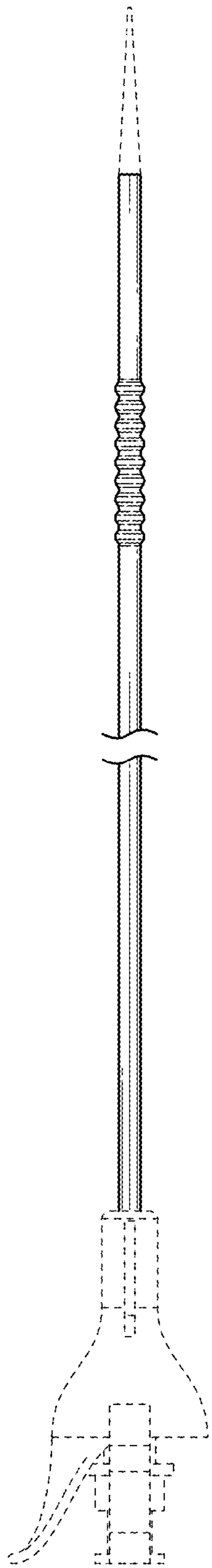


FIG. 12

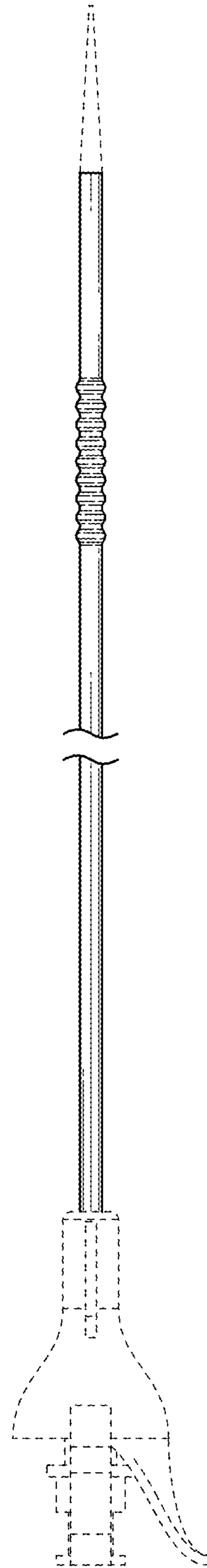
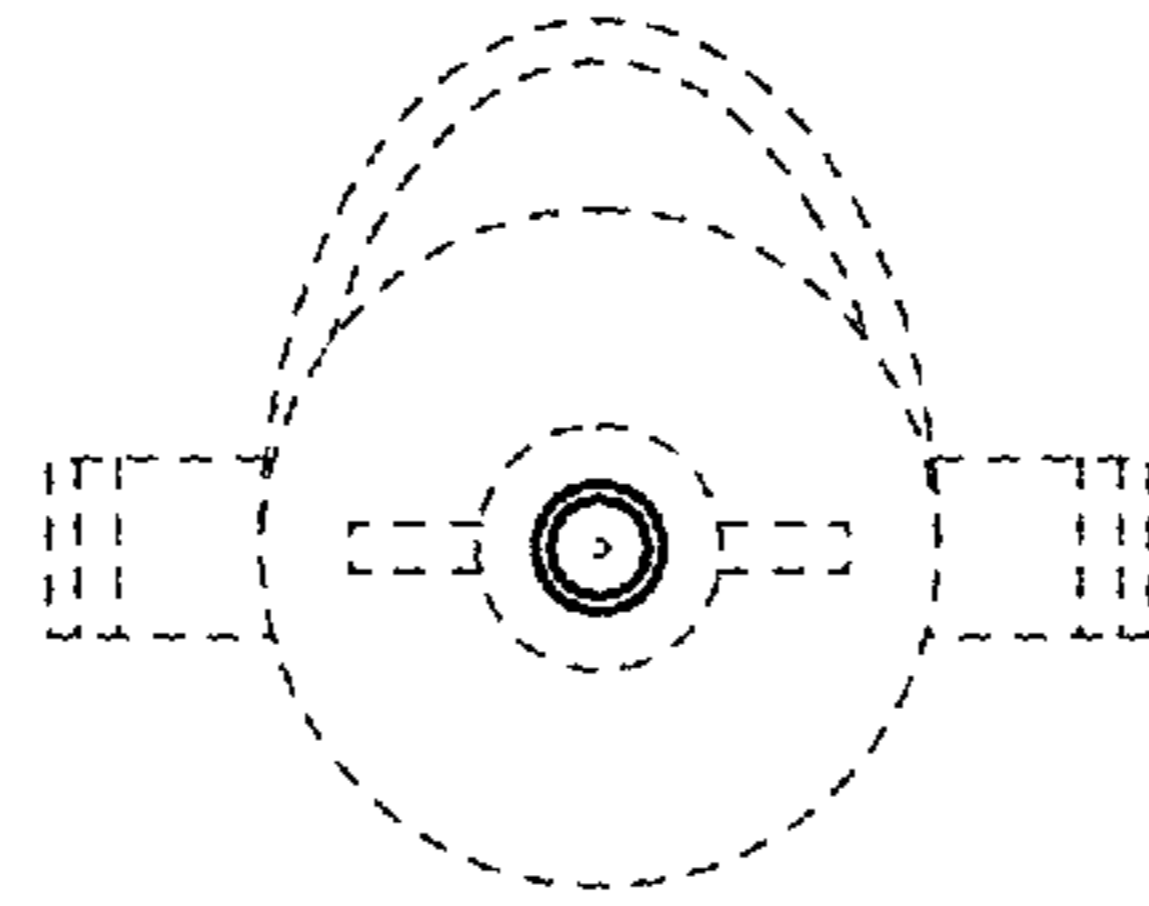
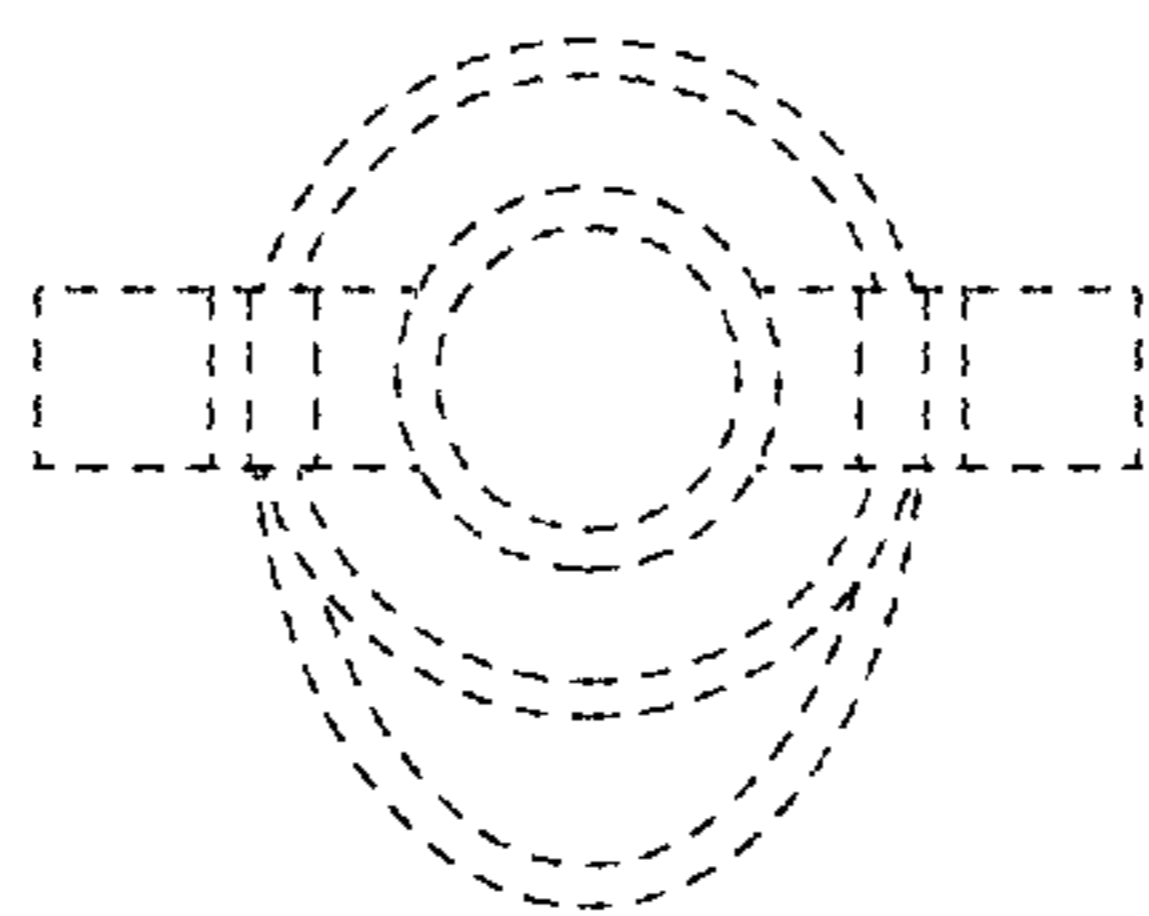


FIG. 13



**FIG. 14**



**FIG. 15**

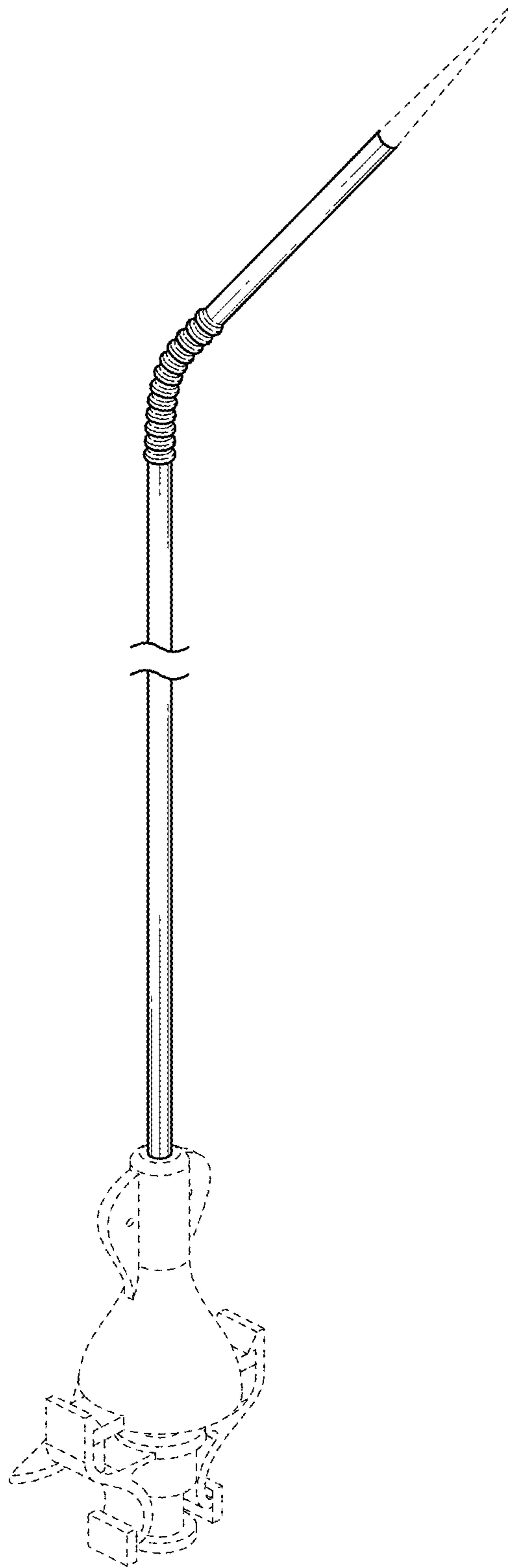


FIG. 16