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

(10) **Patent No.:** **US D466,775 S**

(45) **Date of Patent:** **\*\* Dec. 10, 2002**

(54) **FLEXIBLE SHAFT CUTTING TOOL**

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(73) Assignee: **Roto Zip Tool Corporation**, Cross Plains, WI (US)

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

(21) Appl. No.: **29/146,531**

(22) Filed: **Aug. 10, 2001**

(51) **LOC (7) Cl.** ..... **08-03**

(52) **U.S. Cl.** ..... **D8/61**

(58) **Field of Search** ..... D8/61-70, 51,  
D8/60, 98, 104, 106; D24/146; 30/DIG. 6,  
276; 173/164, 168, 169, 171; 407/9; 408/702;  
409/181, 182; 451/313, 442, 526

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,976,093	A	*	12/1990	Everts	.....	56/11.3
D324,981	S	*	3/1992	Viehe	.....	D8/61
5,143,490	A		9/1992	Kopras		
5,323,823	A		6/1994	Kopras		
5,813,805	A		9/1998	Kopras		
5,902,080	A		5/1999	Kopras		
6,048,260	A		4/2000	Kopras		
6,062,318	A	*	5/2000	Andrews	.....	172/15
D439,122	S		3/2001	Adler et al.		
D439,484	S		3/2001	Adler et al.		

**OTHER PUBLICATIONS**

Dremel® “Flex-Shaft Attachment” photos, product available at least by Jul. 20, 2001, 4 color sheets.

Dremel® “Flex-Shaft Attachment Instructions Model 225,” available at least by Jul. 20, 2001, 4 pages.

Dremel® “Tools For The Imagination Catalog,” available at least by Nov. 2001, pp. 1-70.

Black & Decker® “Wizard” photos, product available at least by Jul. 20, 2001, 4 color sheets.

Black & Decker® Wizard Rotary Tool product package for “Flexible Shaft,” available at least by Jul. 20, 2001, 1 (two-sided) color page.

\* cited by examiner

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(57) **CLAIM**

We claim the ornamental design for a flexible shaft cutting tool, as shown and described.

**DESCRIPTION**

FIG. 1 is a first isometric view of the claimed design of the flexible shaft cutting tool according to the invention;

FIG. 2 is a second isometric view thereof;

FIG. 3 is a first side view of a first end portion thereof;

FIG. 4 is a second side view of the first end portion thereof;

FIG. 5 is a third side view of the first end portion thereof;

FIG. 6 is a fourth view of the first end portion thereof;

FIG. 7 is a first end view of the first end portion thereof;

FIG. 8 is a second end view of the first end portion thereof;

FIG. 9 is a first side view of a second end portion thereof;

FIG. 10 is a second side view of the second end portion thereof;

FIG. 11 is a third side view of the second end portion thereof;

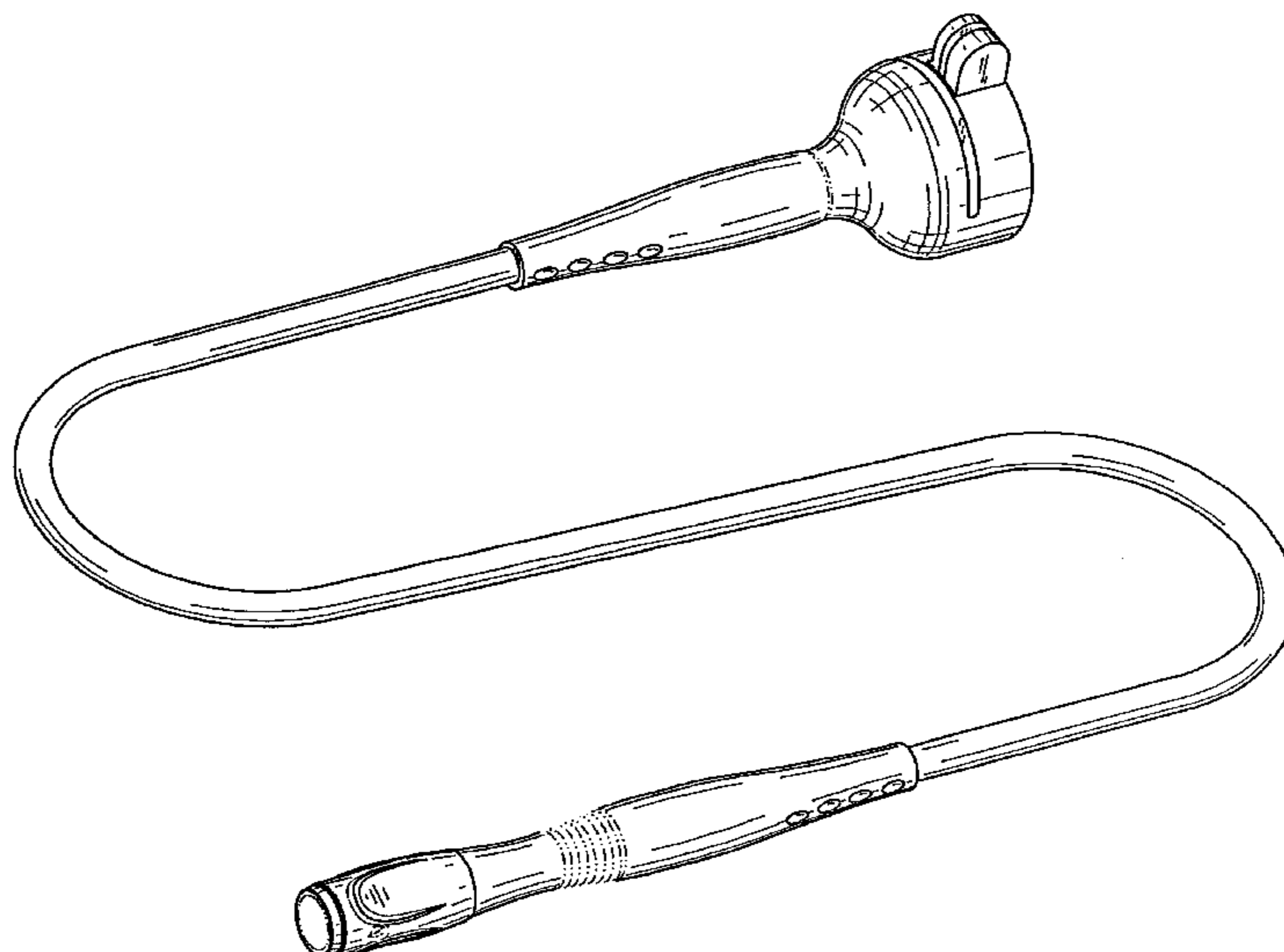
FIG. 12 is a fourth side view of the second end portion thereof;

FIG. 13 is a first end view of the second end portion thereof;

and,

FIG. 14 is a second end view of the second end portion thereof.

**1 Claim, 5 Drawing Sheets**



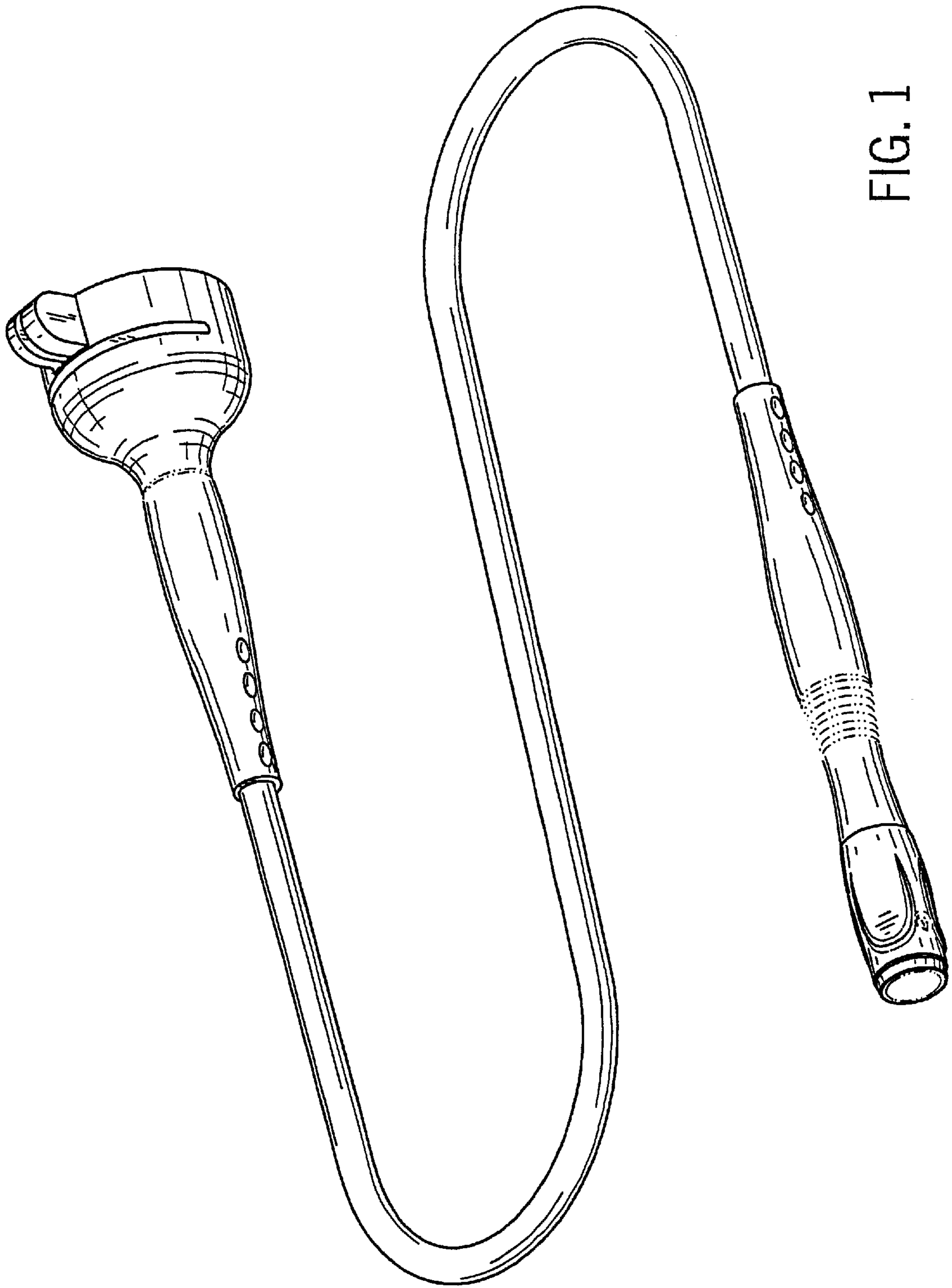


FIG. 1

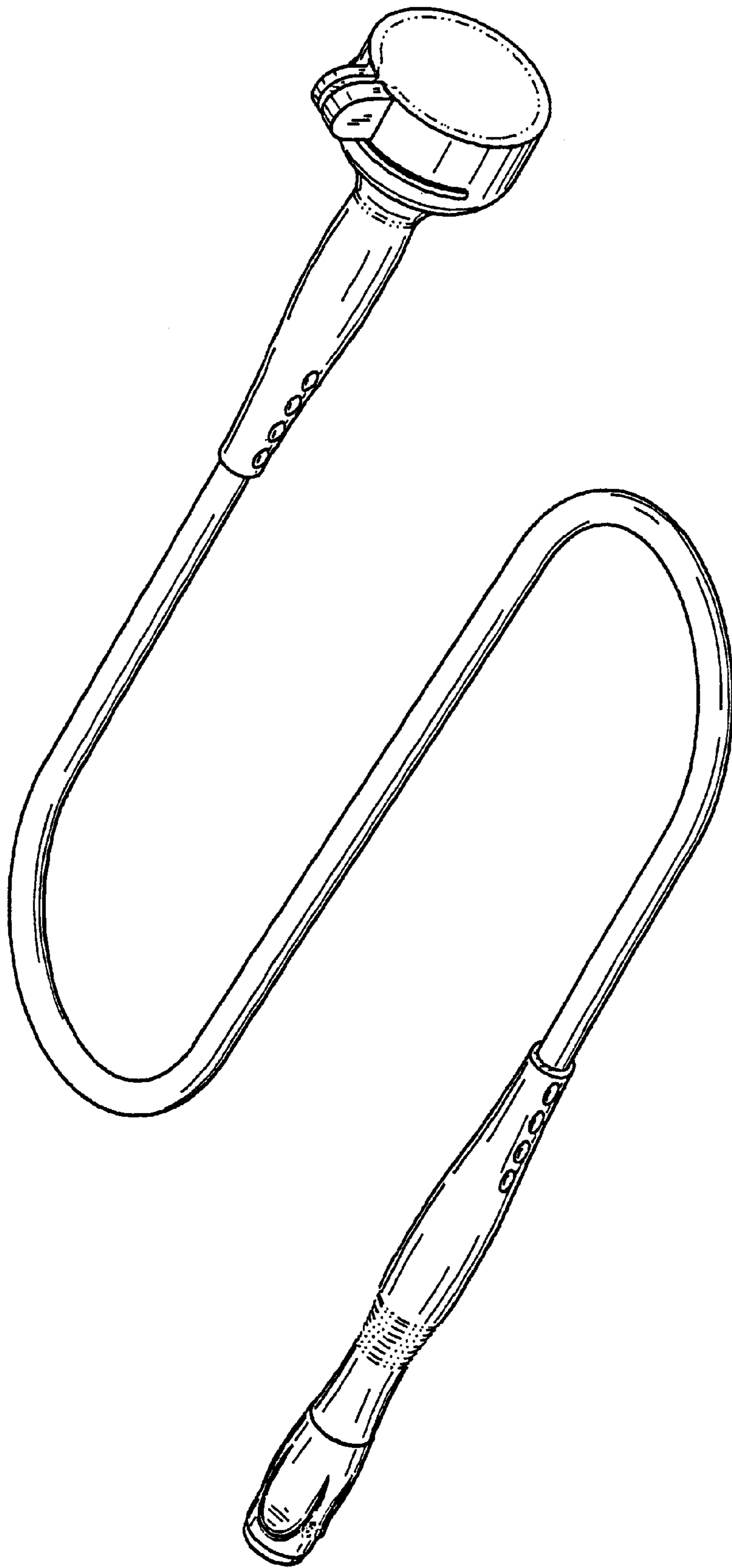


FIG. 2

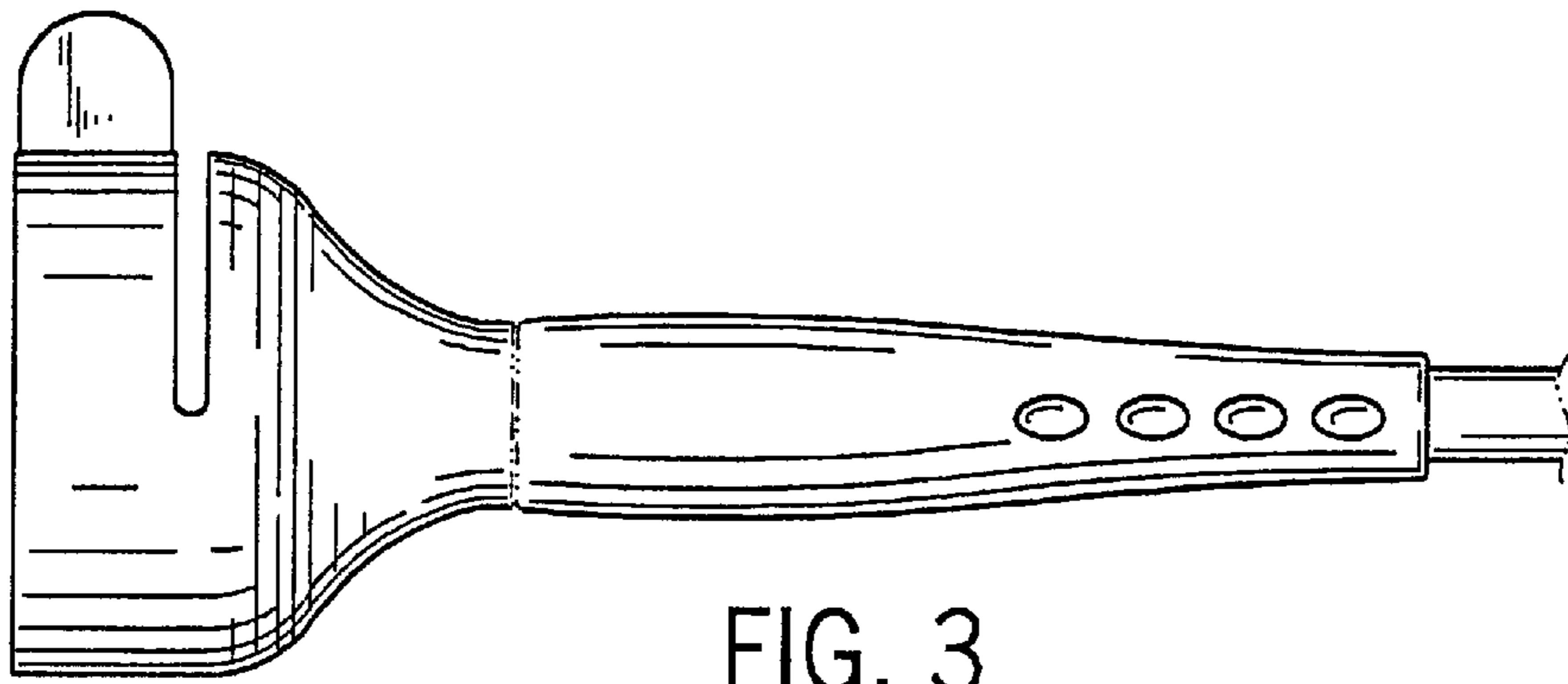


FIG. 3

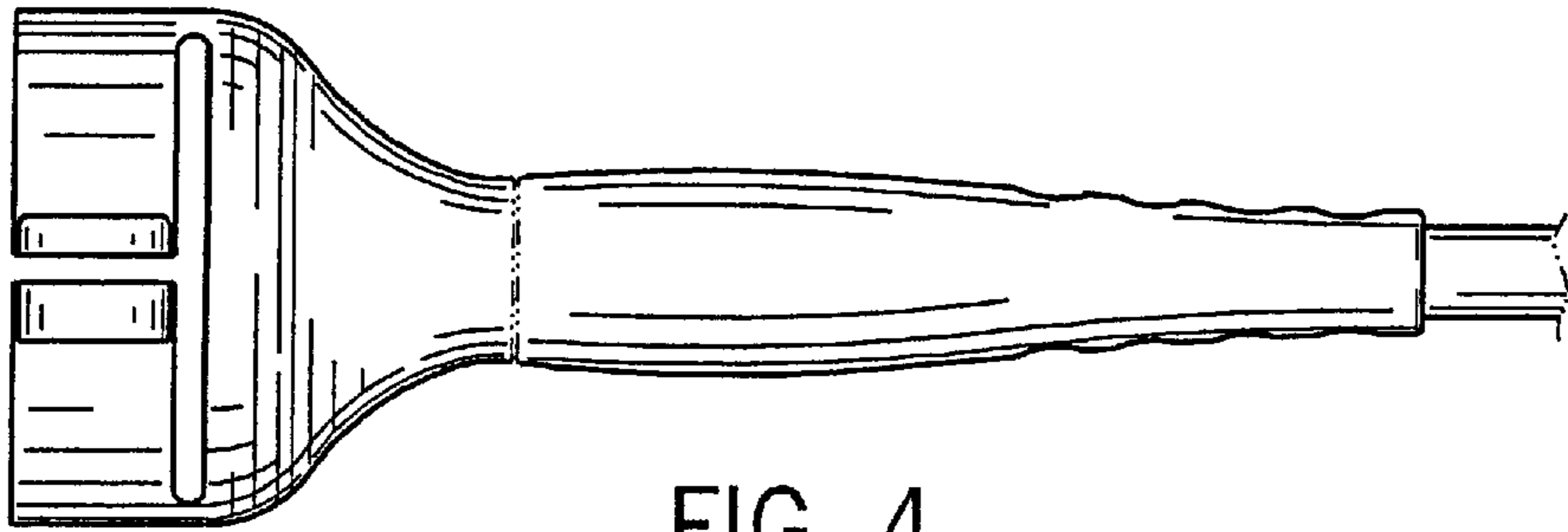


FIG. 4

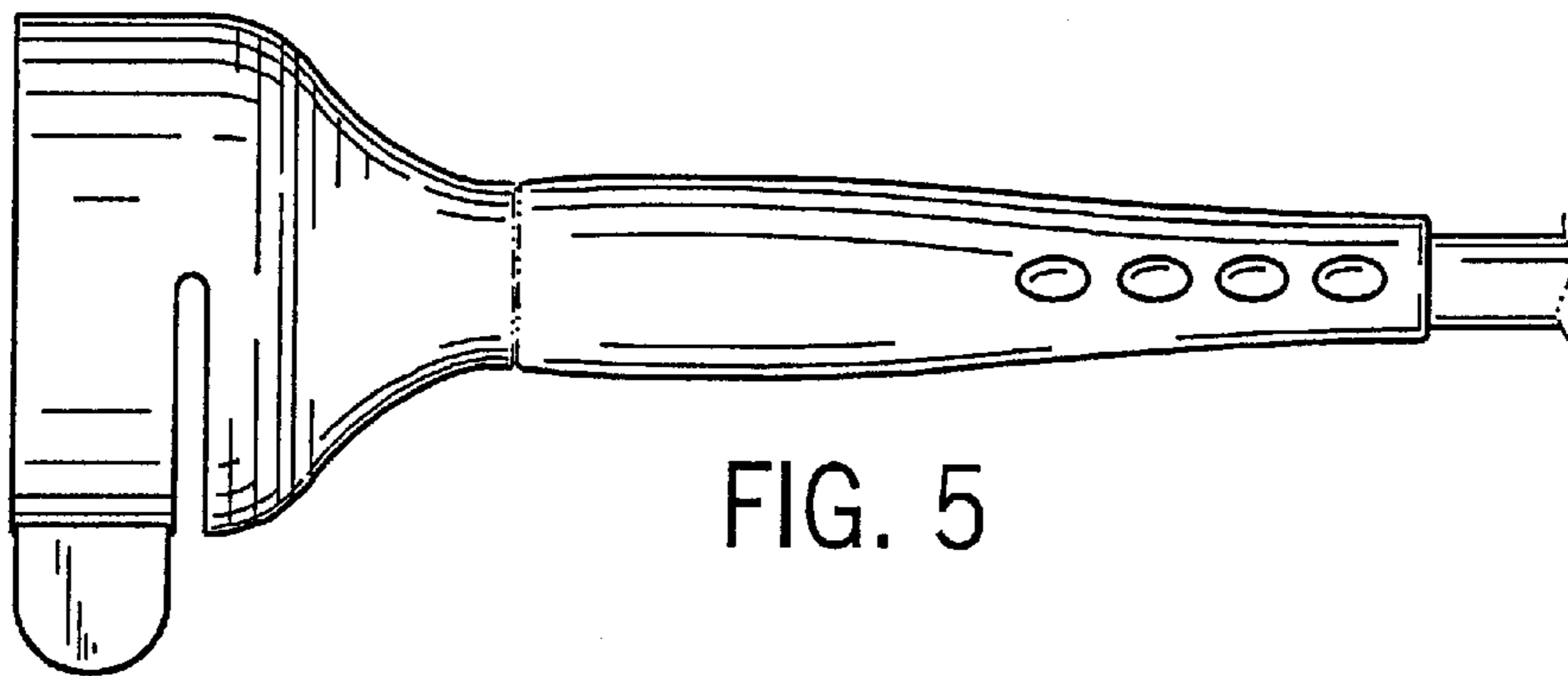


FIG. 5

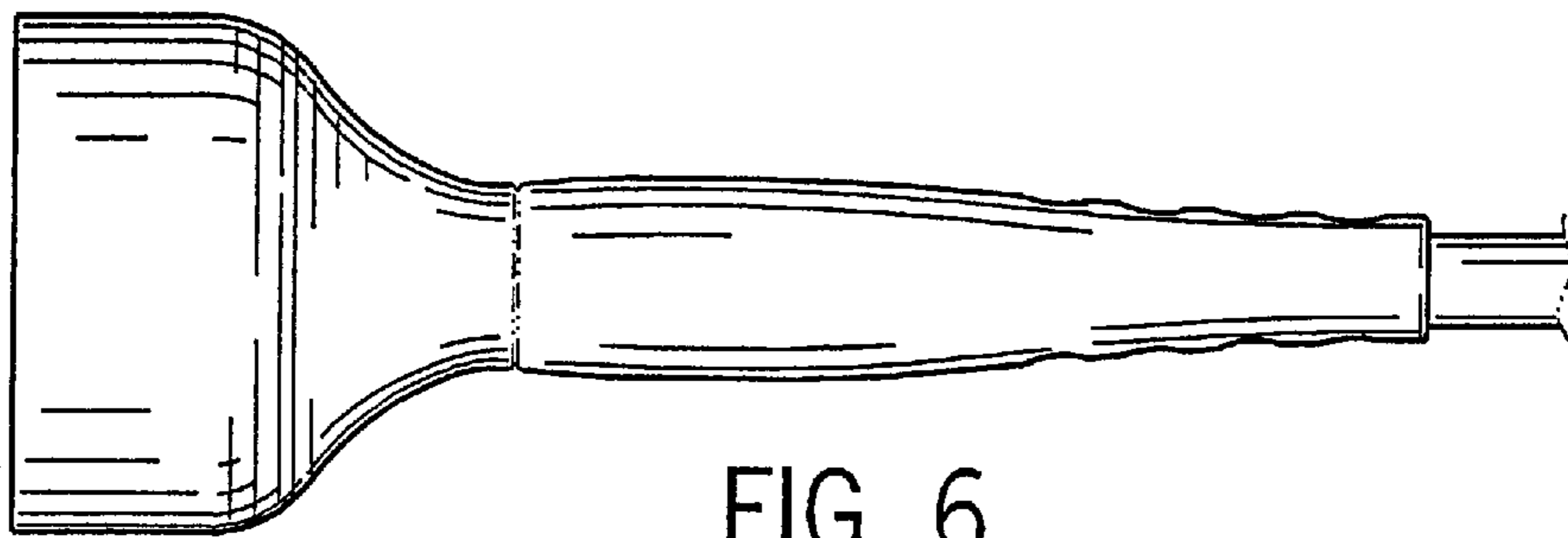


FIG. 6

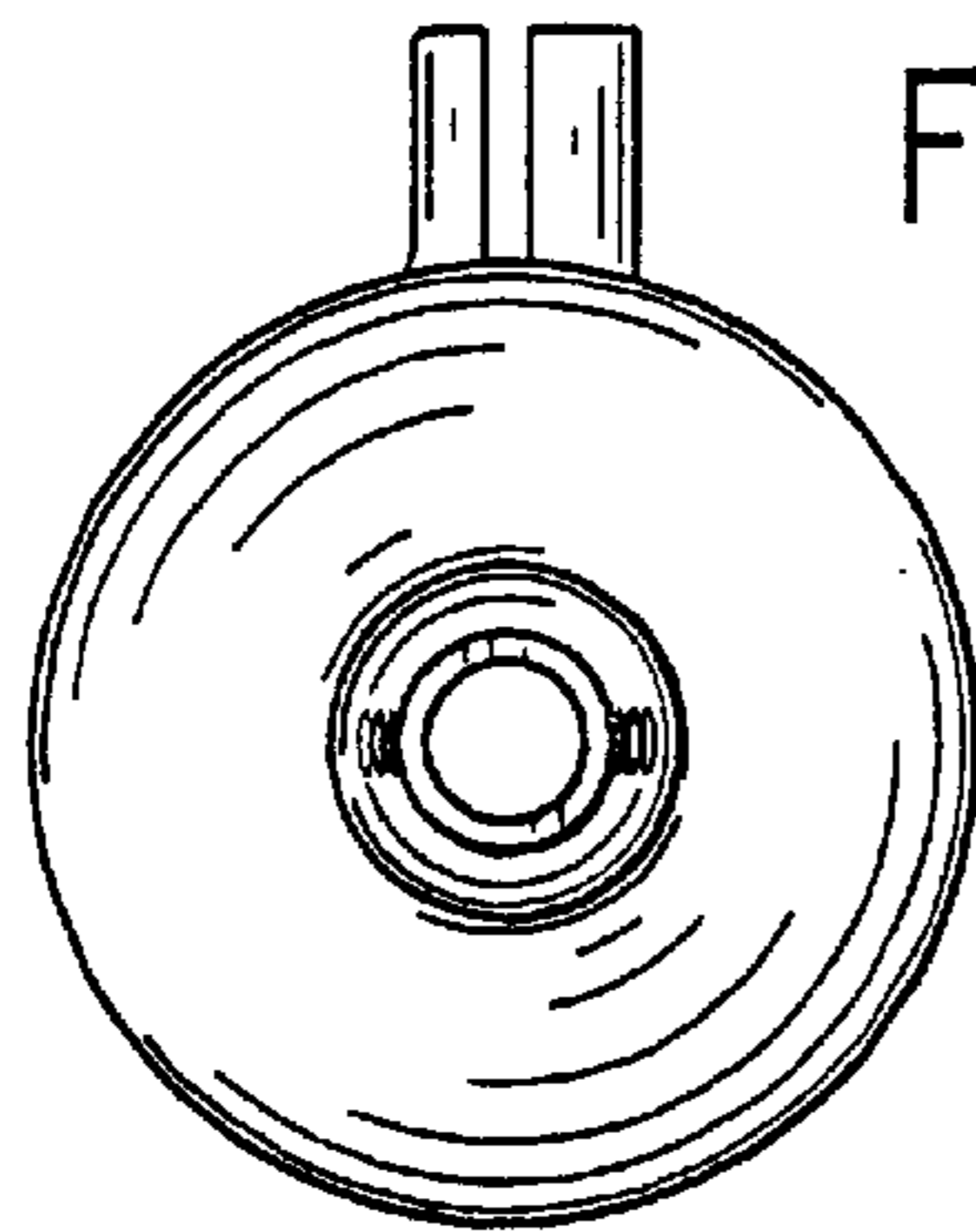


FIG. 7

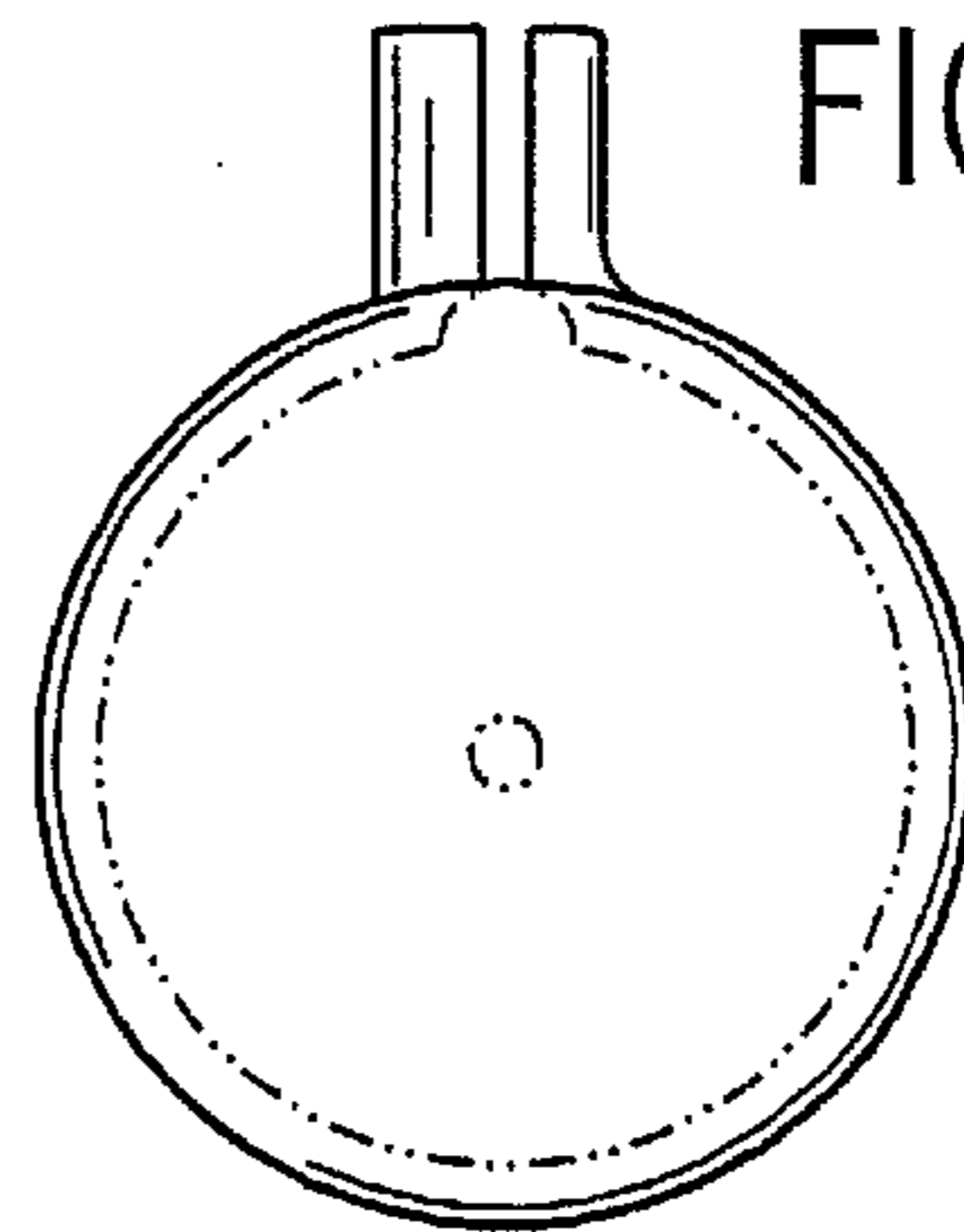


FIG. 8

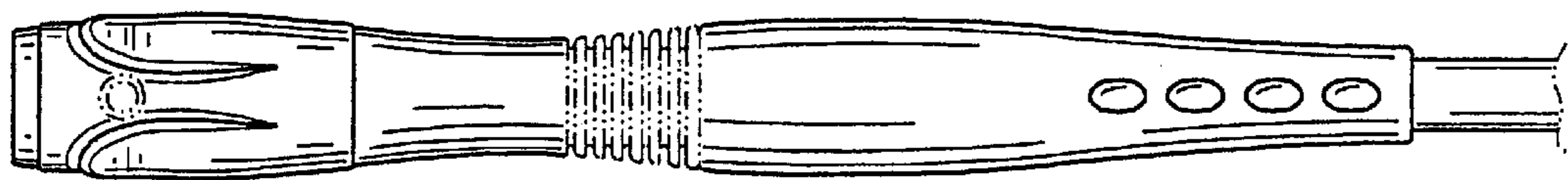


FIG. 9

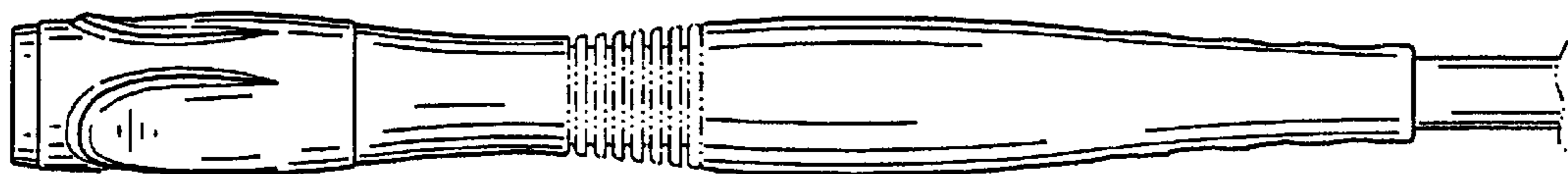


FIG. 10

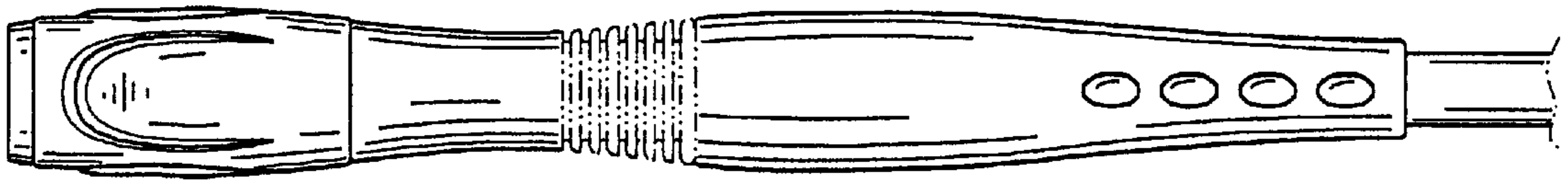


FIG. 11

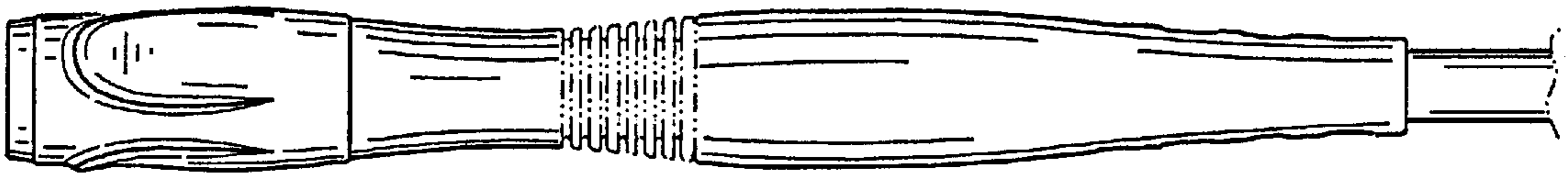


FIG. 12

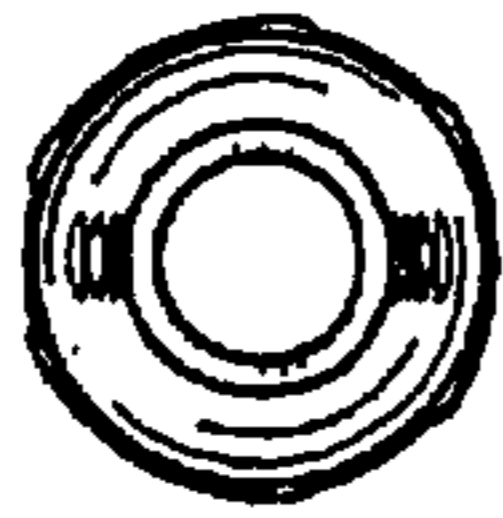


FIG. 13

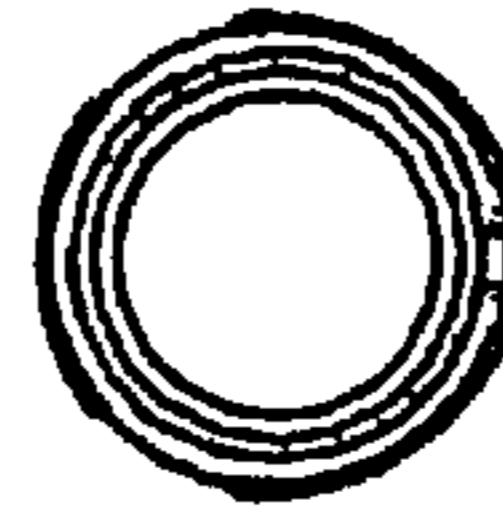


FIG. 14