



US00D559866S

(12) **United States Design Patent** (10) **Patent No.:** **US D559,866 S**  
**Saunders et al.** (45) **Date of Patent:** **\*\* Jan. 15, 2008**

(54) **HANDHELD VACUUM PUMP UNIT**

(57) **CLAIM**

(75) Inventors: **Craig M. Saunders**, Rocky River, OH (US); **Marc L. Vitantonio**, South Russell, OH (US); **Giles Douglas Powell, Jr.**, Richmond, VA (US); **Paul J. Tretina**, Glen Allen, VA (US)

The ornamental design for a handheld vacuum pump unit, as shown and described.

(73) Assignee: **Alcoa Inc.**, Pittsburgh, PA (US)

**DESCRIPTION**

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

(21) Appl. No.: **29/250,134**

(22) Filed: **Nov. 3, 2006**

(51) **LOC (8) Cl.** ..... **15-02**

(52) **U.S. Cl.** ..... **D15/7**

(58) **Field of Classification Search** ..... D15/7-9;  
D23/232, 231; 417/359, 415-416, 410.1,  
417/321, 265, 405

See application file for complete search history.

FIG. 1 is a perspective view of the handheld vacuum pump unit, showing an embodiment of the present design comprising a curved rear panel;

FIG. 2 is a bottom plan view of the embodiment of the present design illustrated in FIG. 1;

FIG. 3 is a top plan view of the embodiment of the present design illustrated in FIG. 1;

FIG. 4 is a right elevation view of the embodiment of the present design illustrated in FIG. 1;

FIG. 5 is a left elevation view of the embodiment of the present design illustrated in FIG. 1;

FIG. 6 is a front elevation view of the embodiment of the present design illustrated in FIG. 1;

FIG. 7 is a rear elevation view of the embodiment of the present design illustrated in FIG. 1.

FIG. 8 is a perspective view of the handheld vacuum pump unit, showing an embodiment of the present design having a flat rear panel;

FIG. 9 is a bottom plan view of the embodiment of the present design illustrated in FIG. 8;

FIG. 10 is a top plan view of the embodiment of the present design illustrated in FIG. 8;

FIG. 11 is a right elevation view of the embodiment of the present design illustrated in FIG. 8;

FIG. 12 is a left elevation view of the embodiment of the present design illustrated in FIG. 8;

FIG. 13 is a front elevation view of the embodiment of the present design illustrated in FIG. 8; and,

FIG. 14 is a rear elevation view of the embodiment of the present design illustrated in FIG. 8.

(56) **References Cited**

U.S. PATENT DOCUMENTS

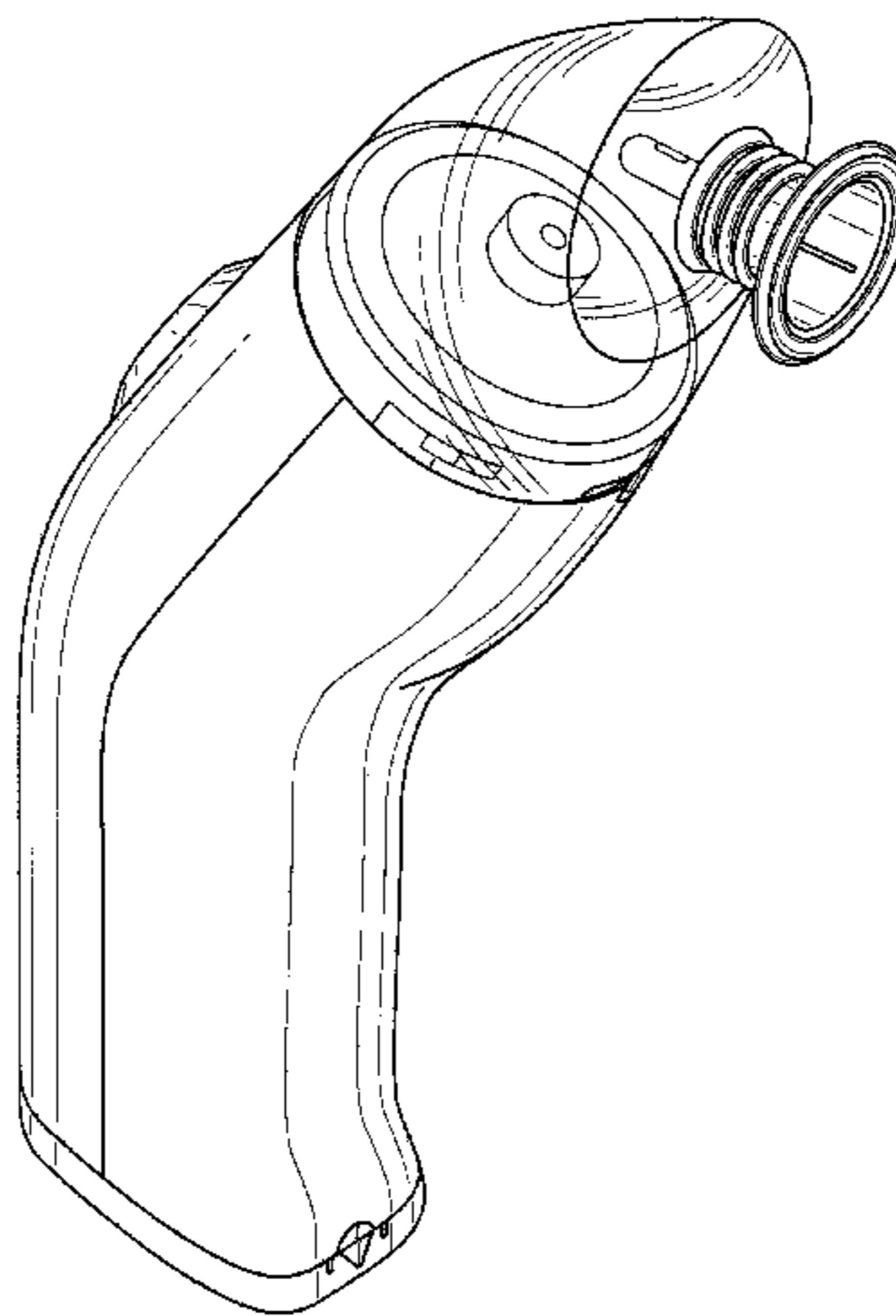
D248,396 S	*	7/1978	Sendak	.....	D15/7
D336,090 S	*	6/1993	Lacorazza	.....	D15/7
D348,677 S	*	7/1994	Phillips et al.	.....	D15/7
D358,397 S	*	5/1995	Phillips et al.	.....	D15/7
D405,097 S	*	2/1999	Wong	.....	D15/7
D415,500 S	*	10/1999	Poon	.....	D15/7
D425,912 S	*	5/2000	Poon	.....	D15/7
D451,521 S	*	12/2001	Poon	.....	D15/7
D464,976 S	*	10/2002	Krieger et al.	.....	D15/9
D467,048 S		12/2002	Masaki		
D467,593 S	*	12/2002	Williams	.....	D15/7
D467,941 S	*	12/2002	Duncan	.....	D15/7
D467,942 S	*	12/2002	Duncan	.....	D15/7
D525,823 S		8/2006	Littmann		

\* cited by examiner

*Primary Examiner*—Ralf Seifert

(74) *Attorney, Agent, or Firm*—Greenberg Traurig LLP;  
Paul F. McQuade; James Goepel

**1 Claim, 10 Drawing Sheets**



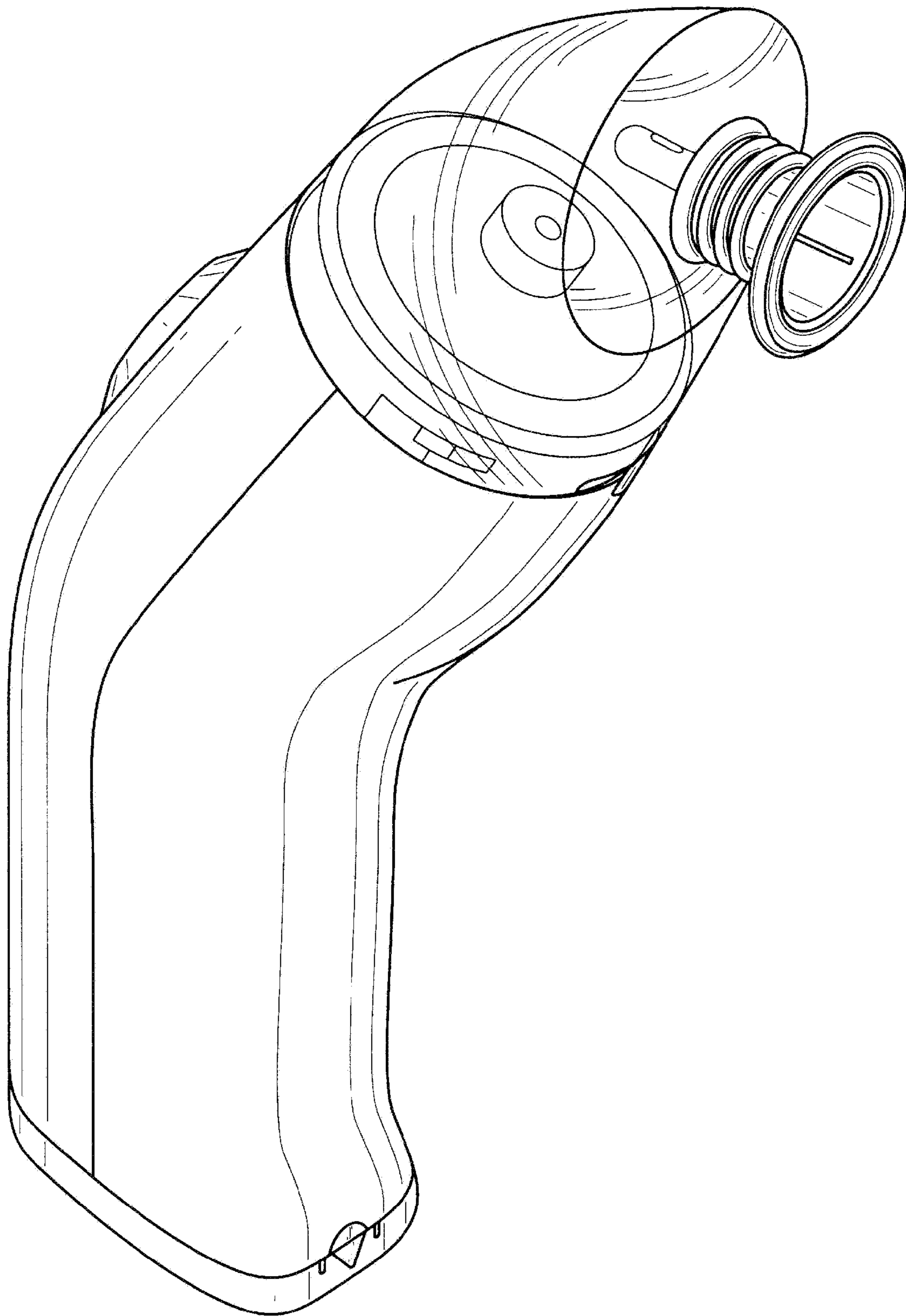


FIG. 1

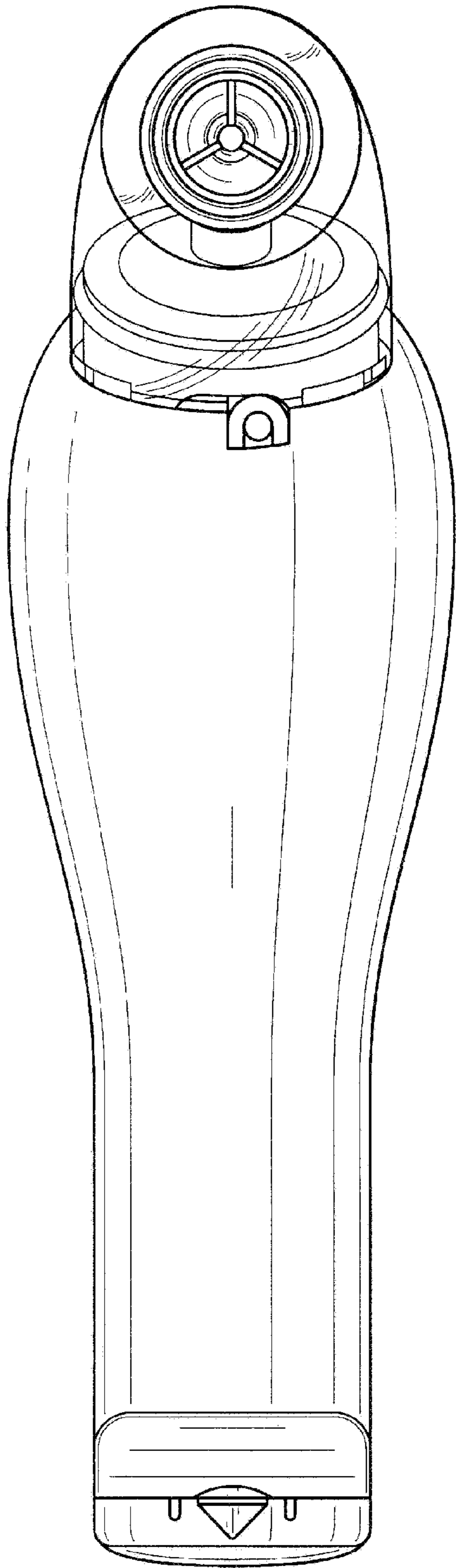


FIG. 2

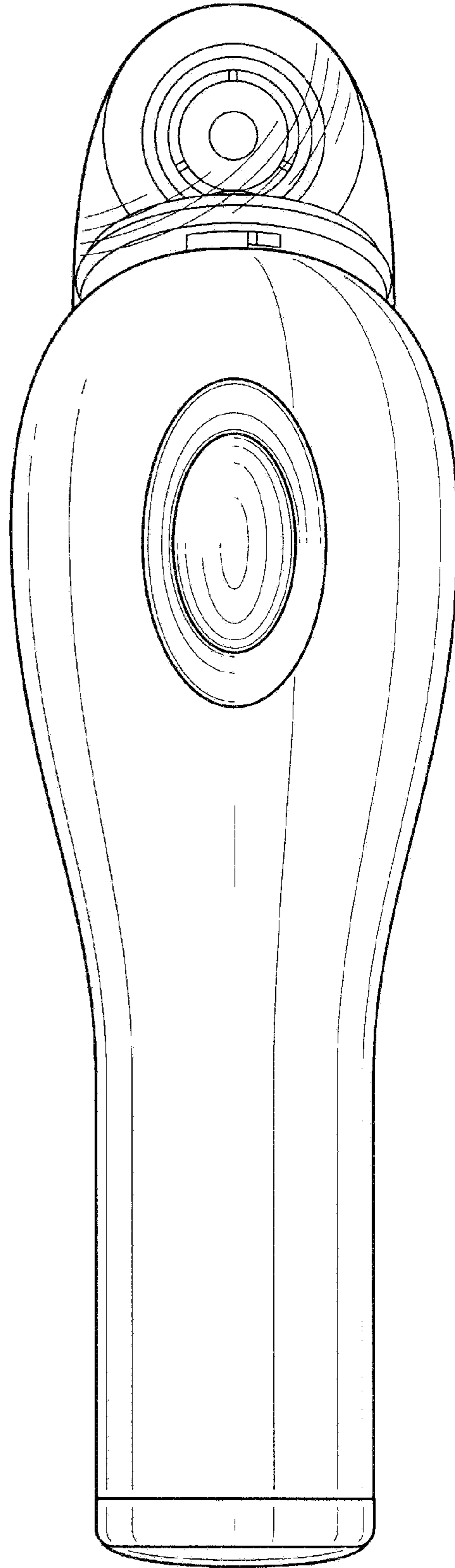


FIG. 3

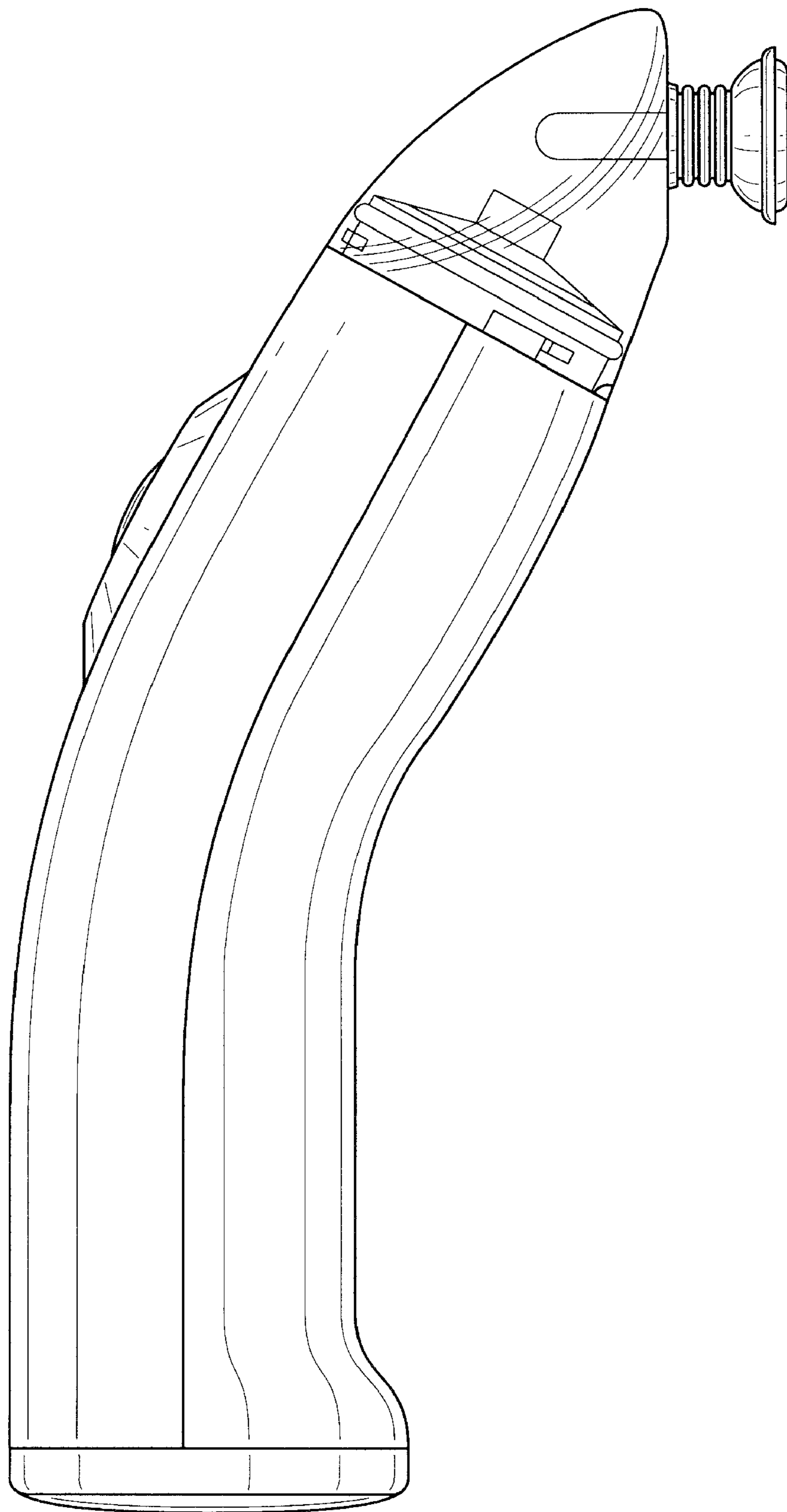


FIG. 4

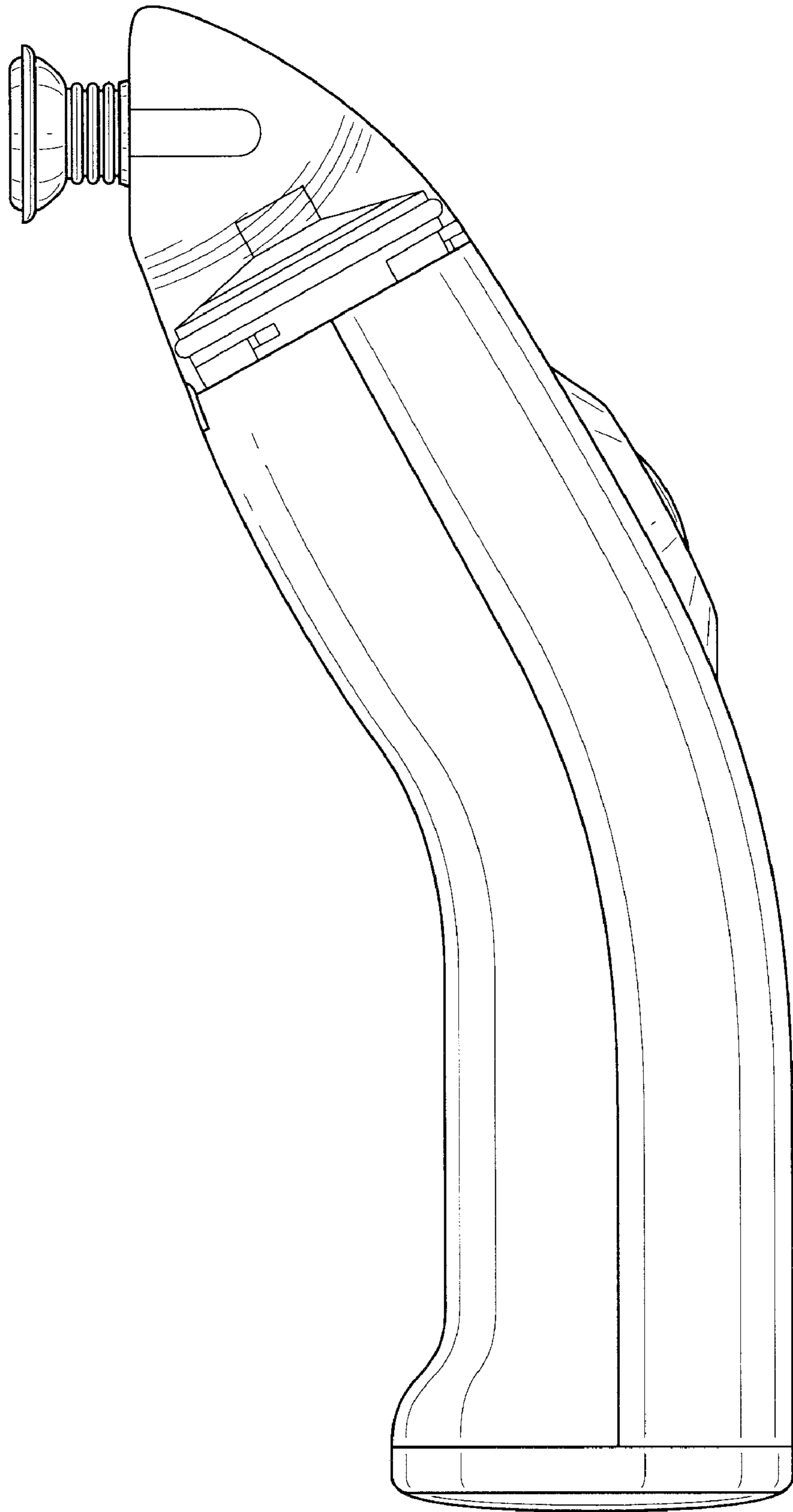


FIG. 5

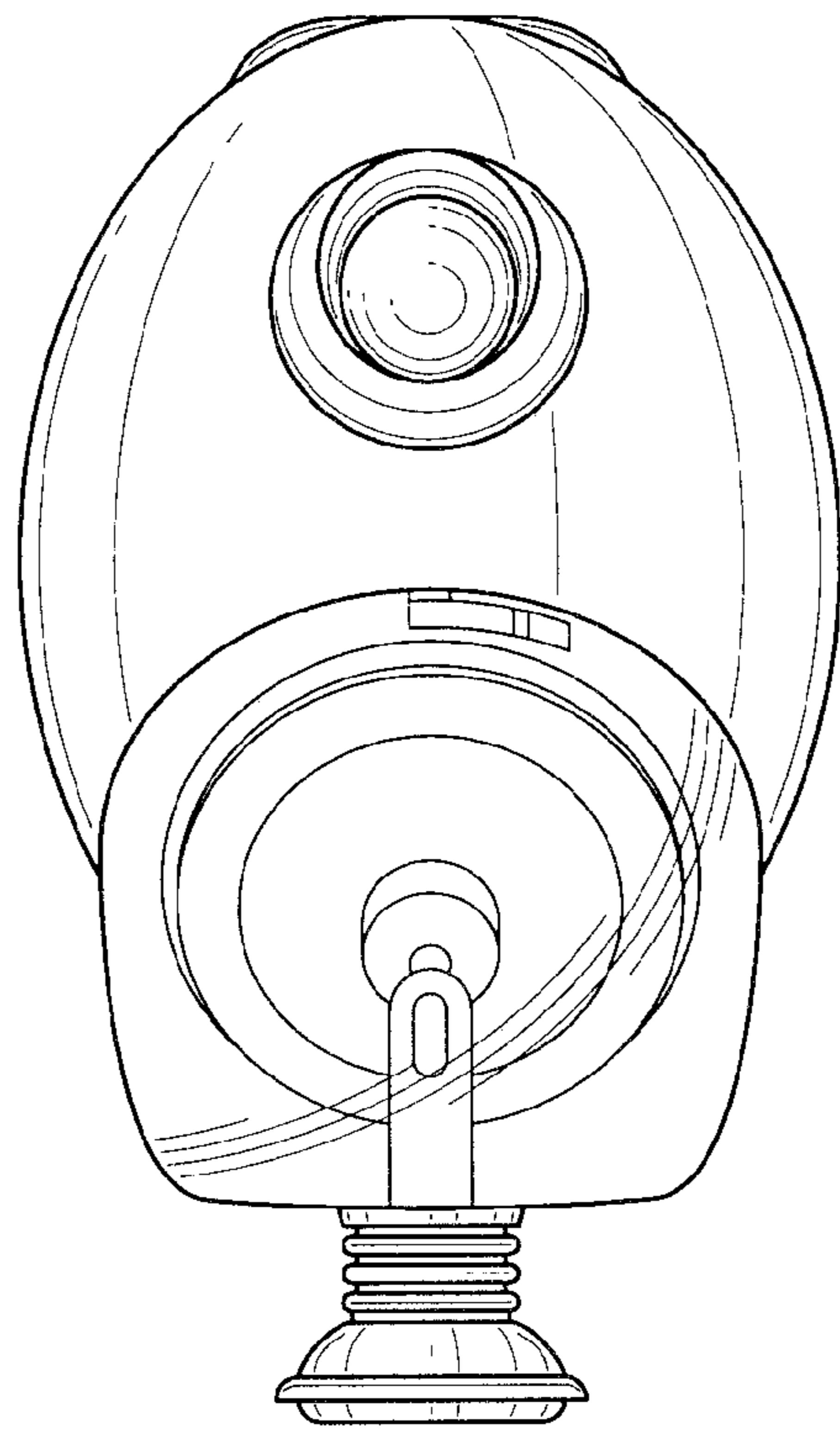


FIG. 6

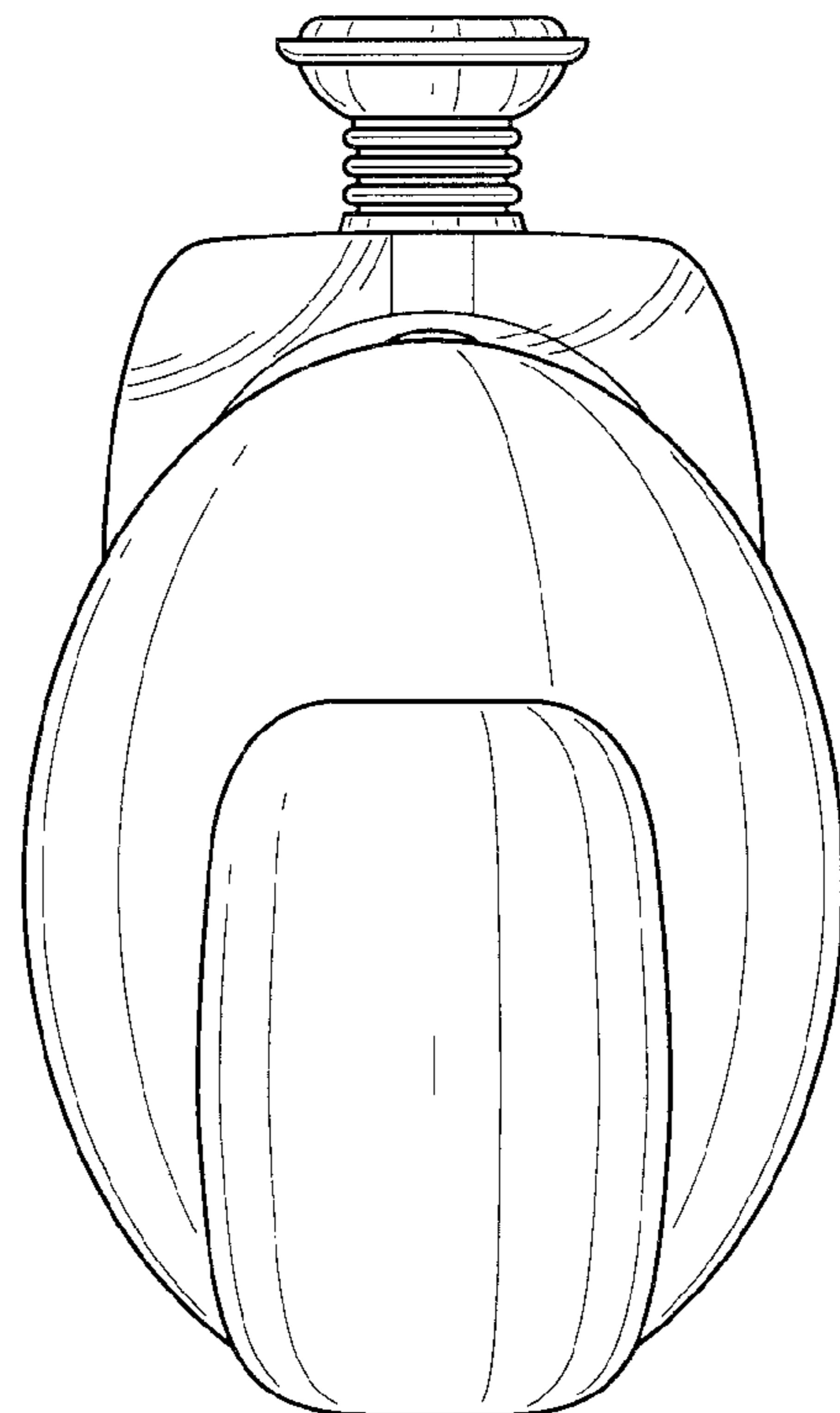


FIG. 7

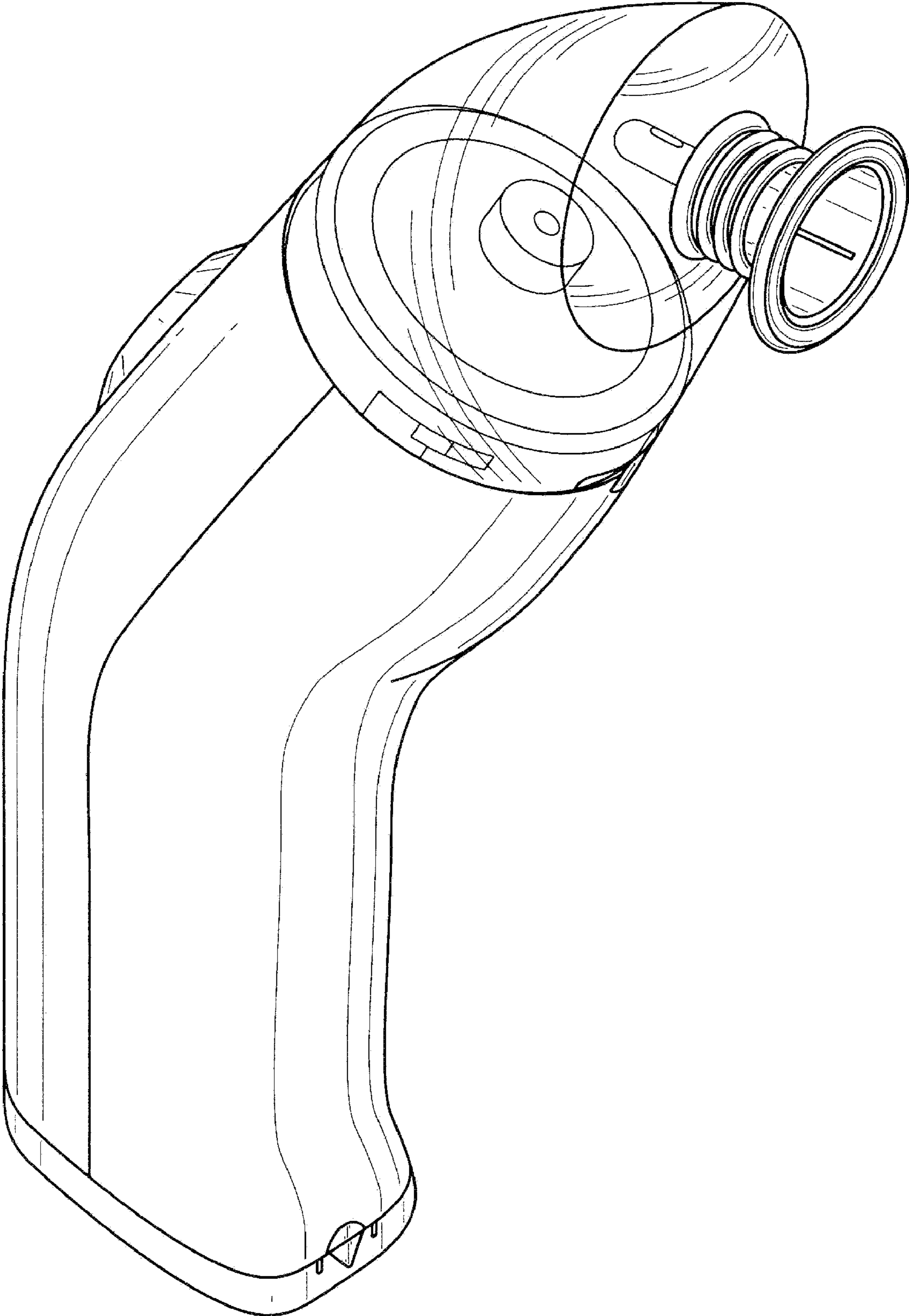


FIG. 8

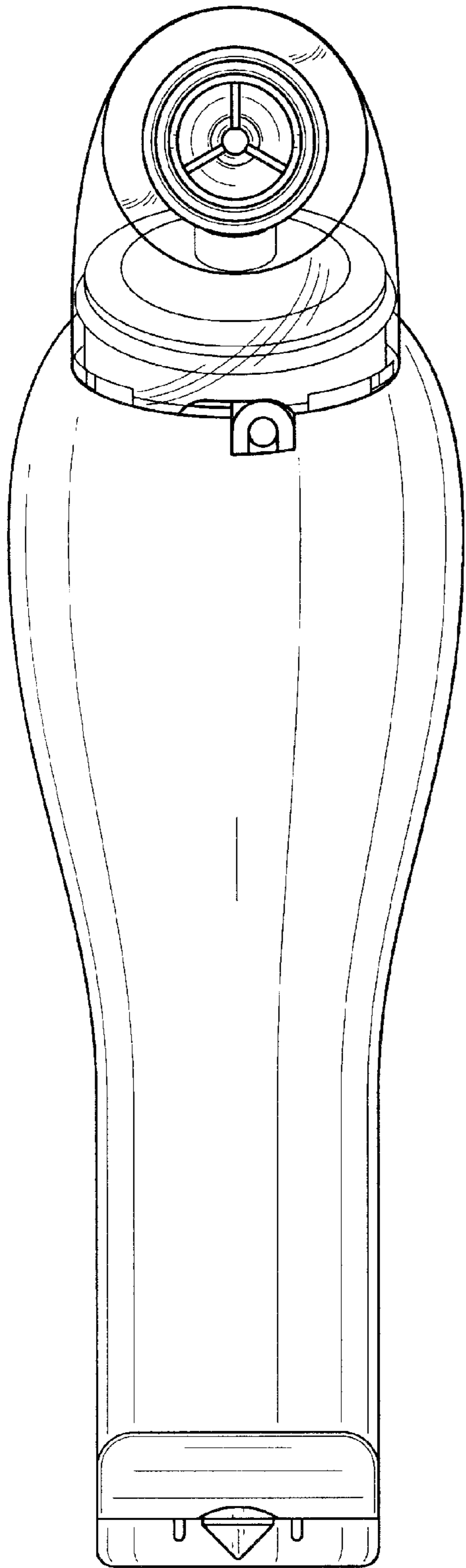


FIG. 9

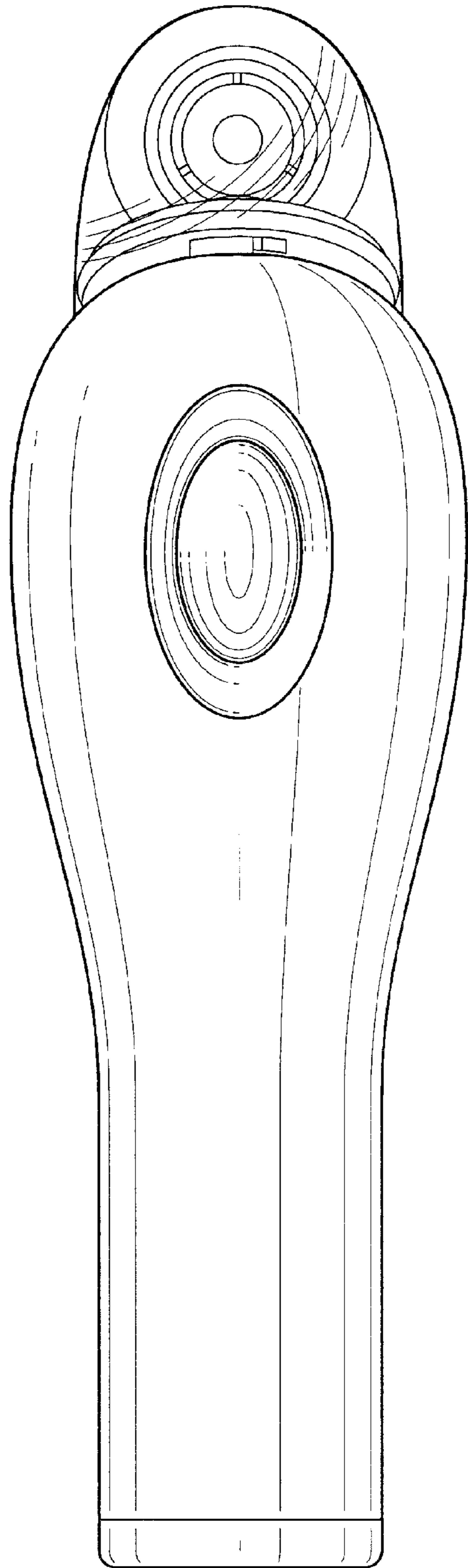


FIG. 10



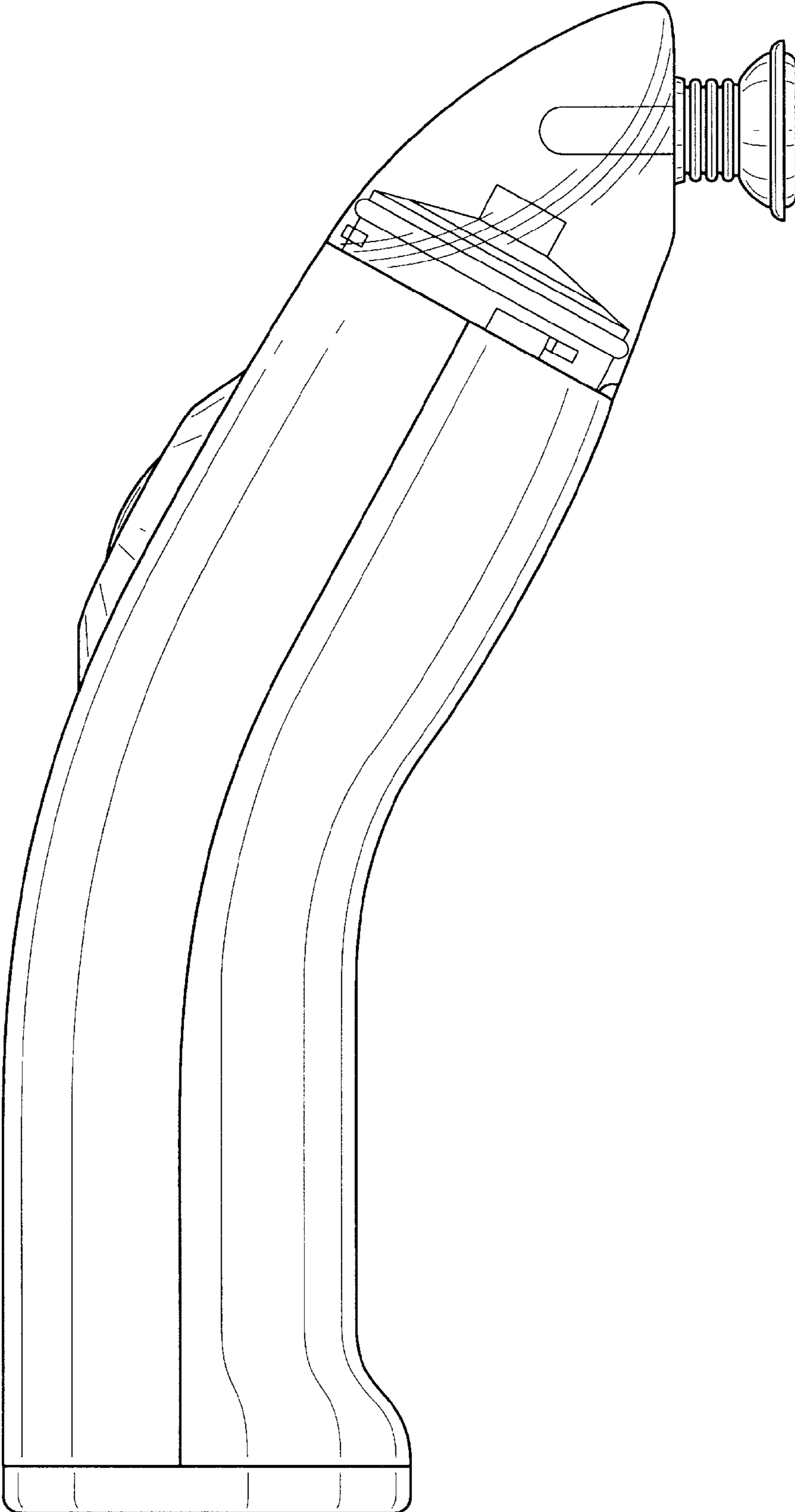


FIG. 11

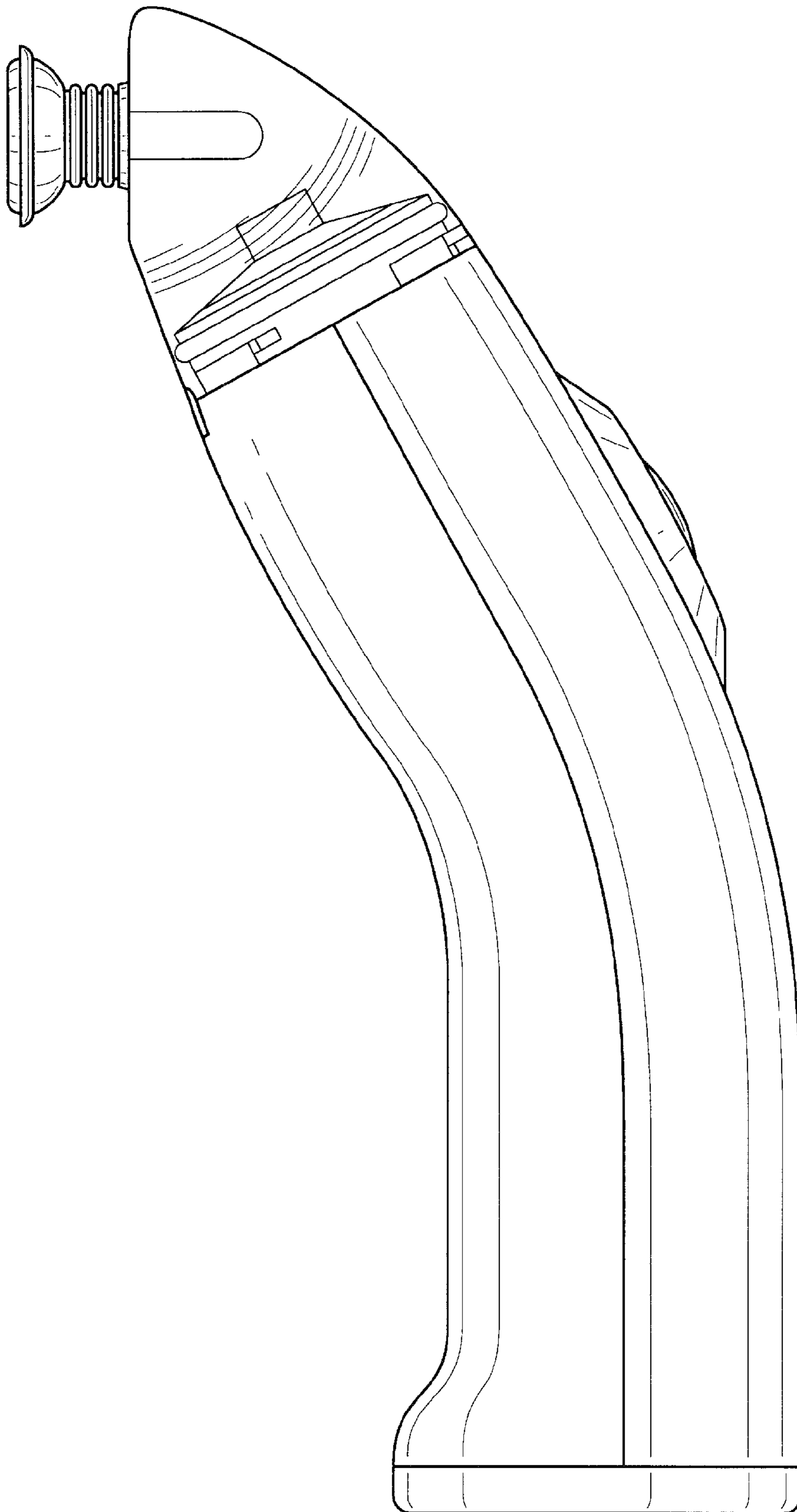


FIG. 12

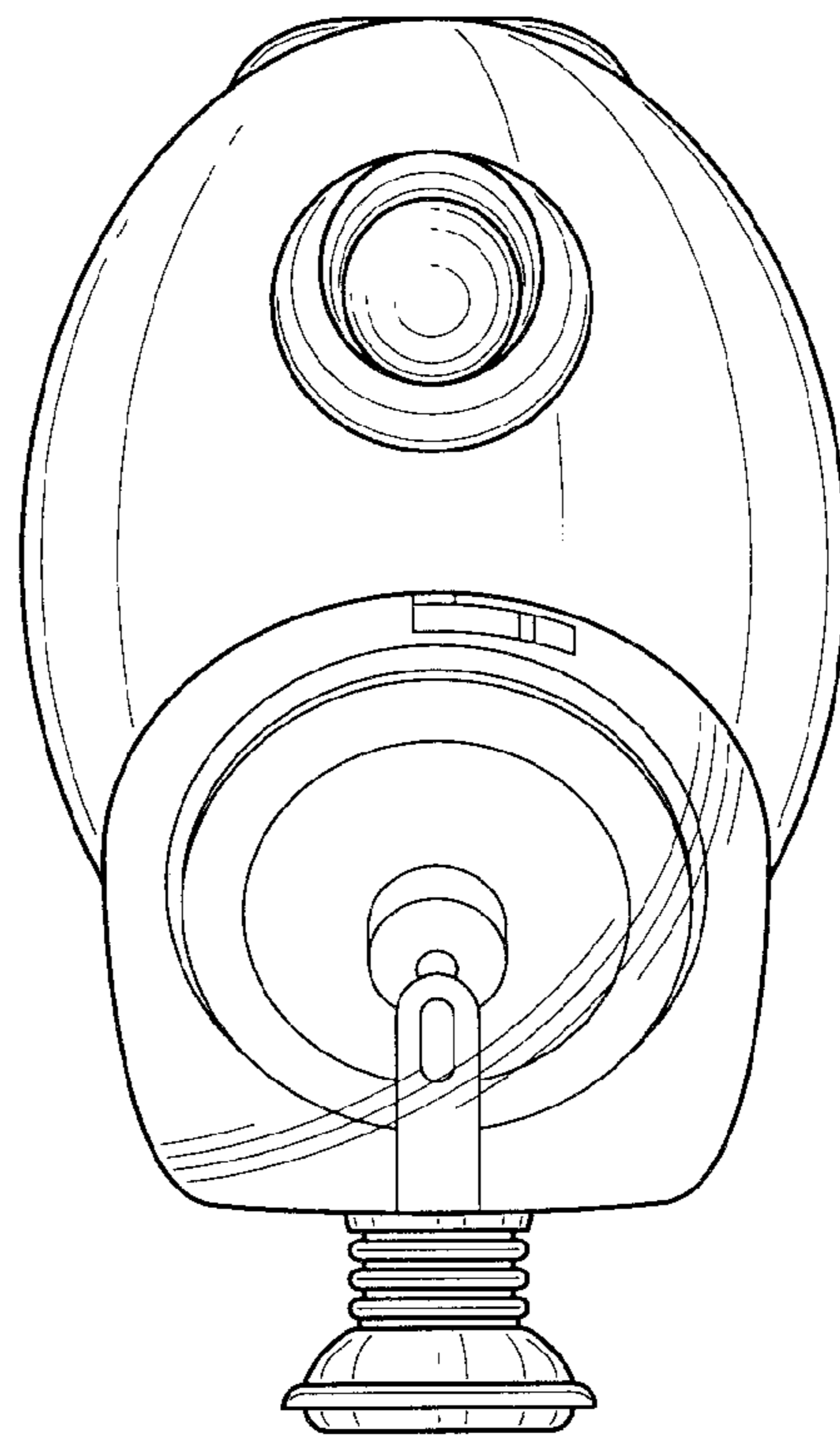


FIG. 13

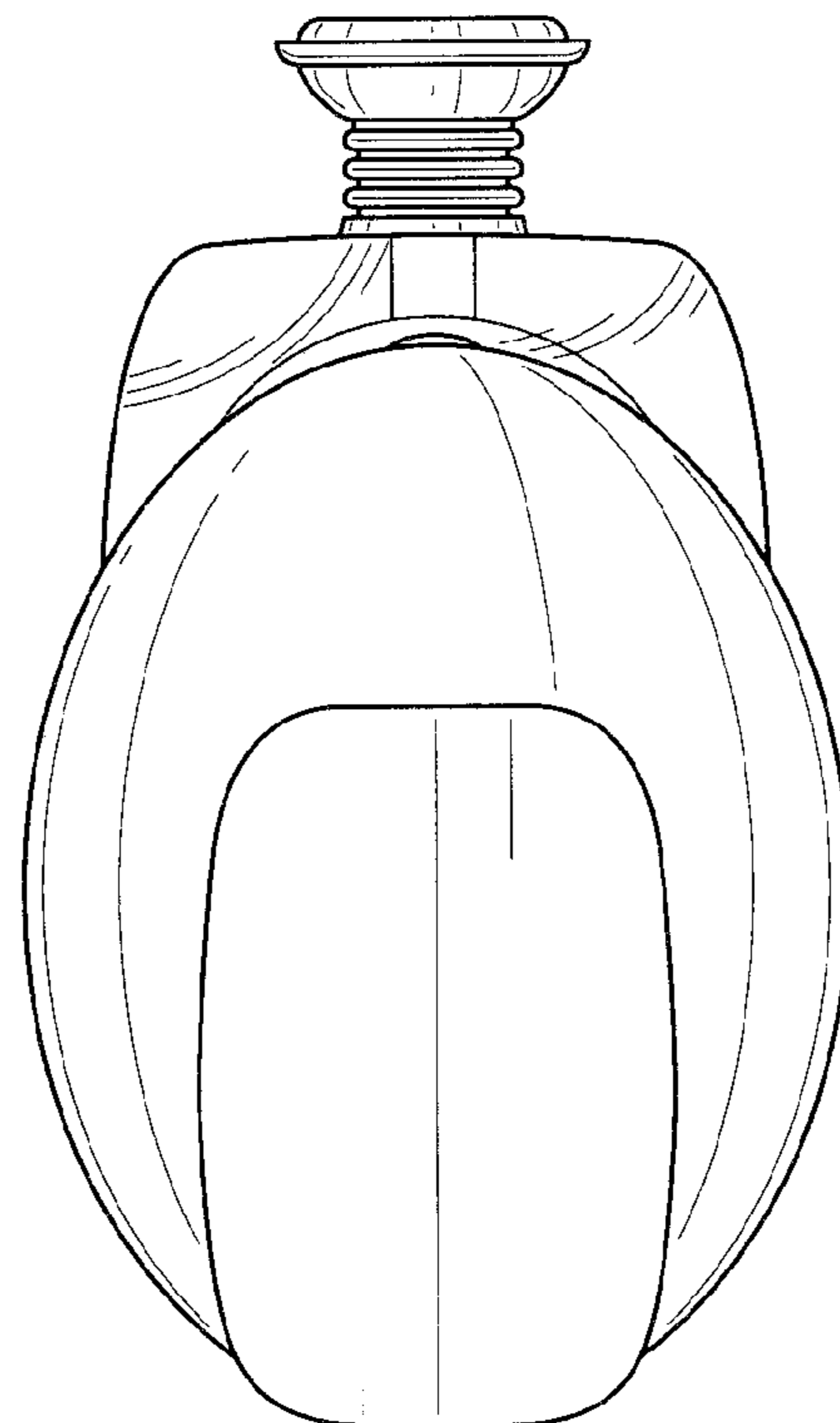


FIG. 14