



US00D437667S

(12) **United States Design Patent**  
**Hwang**

(10) **Patent No.:** **US D437,667 S**

(45) **Date of Patent:** **\*\* Feb. 13, 2001**

(54) **PLUNGER**

**FOREIGN PATENT DOCUMENTS**

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0233961 \* 9/1987 (EP) ..... 4/255.11 X

\* cited by examiner

(73) Assignee: **Chien Cheng Business Co., Ltd**, Tainan Hsien (TW)

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

(74) *Attorney, Agent, or Firm*—Pro-Techtor International Services

(21) Appl. No.: **29/112,005**

(57) **CLAIM**

(22) Filed: **Oct. 6, 1999**

The ornamental design for a plunger, as shown and described.

(51) **LOC (7) Cl.** ..... **08-99**

(52) **U.S. Cl.** ..... **D32/35**

(58) **Field of Search** ..... D32/35; D8/14;  
4/255.01, 255.02, 255.03, 255.11, 255.12,  
256.1; 92/35; 417/472

**DESCRIPTION**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D. 202,979	*	11/1965	Krusche	.....	D32/35
D. 381,147	*	7/1997	Tash	.....	D32/35
1,575,102	*	3/1926	Fiset	.....	4/255.01
3,994,032	*	11/1976	Spickofsky	.....	4/255.11

FIG. 1 is a perspective view of a plunger showing my new design;

FIG. 2 is a right side elevational view thereof;

FIG. 3 is a top plan view thereof;

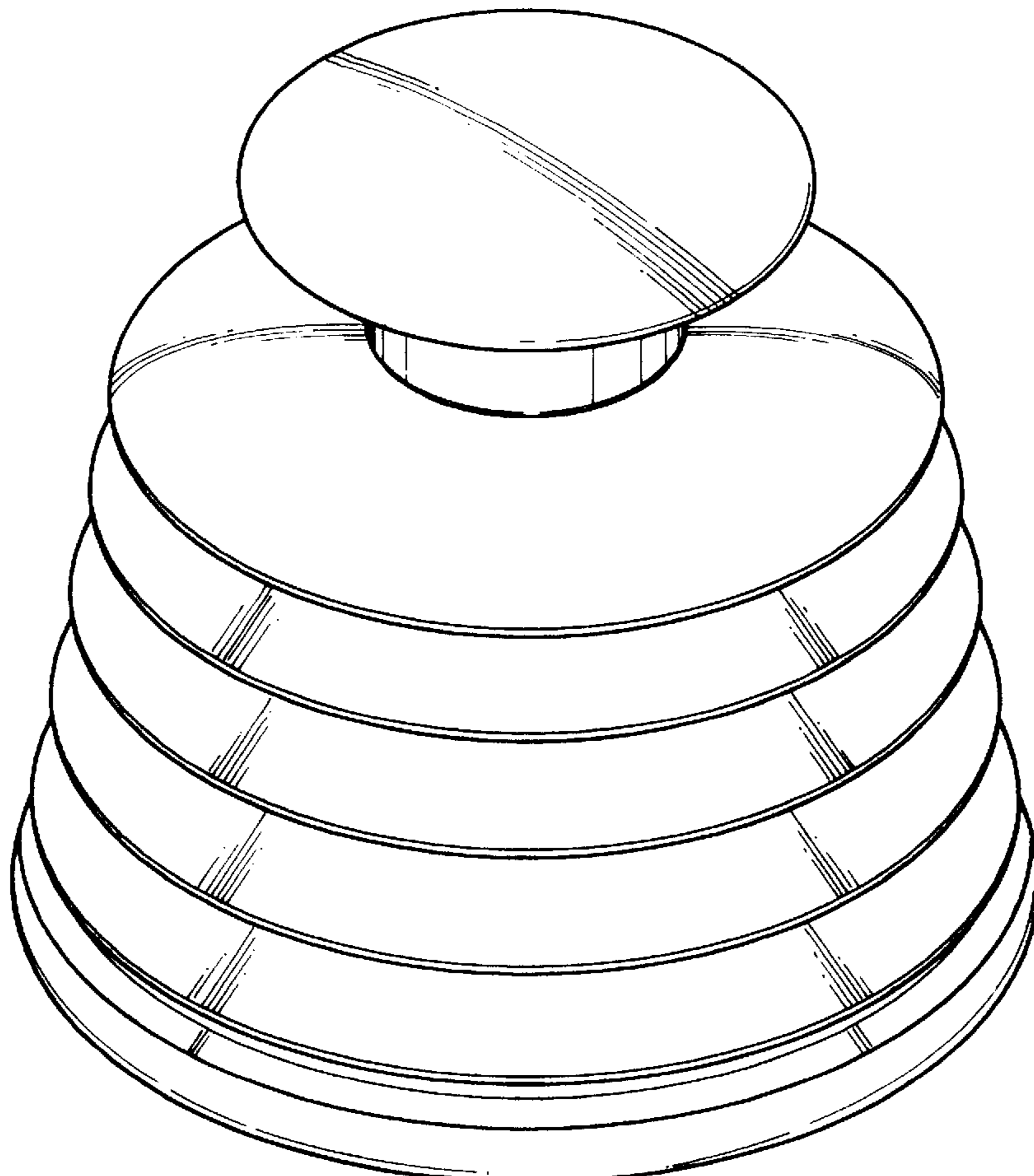
FIG. 4 is a front elevational view thereof;

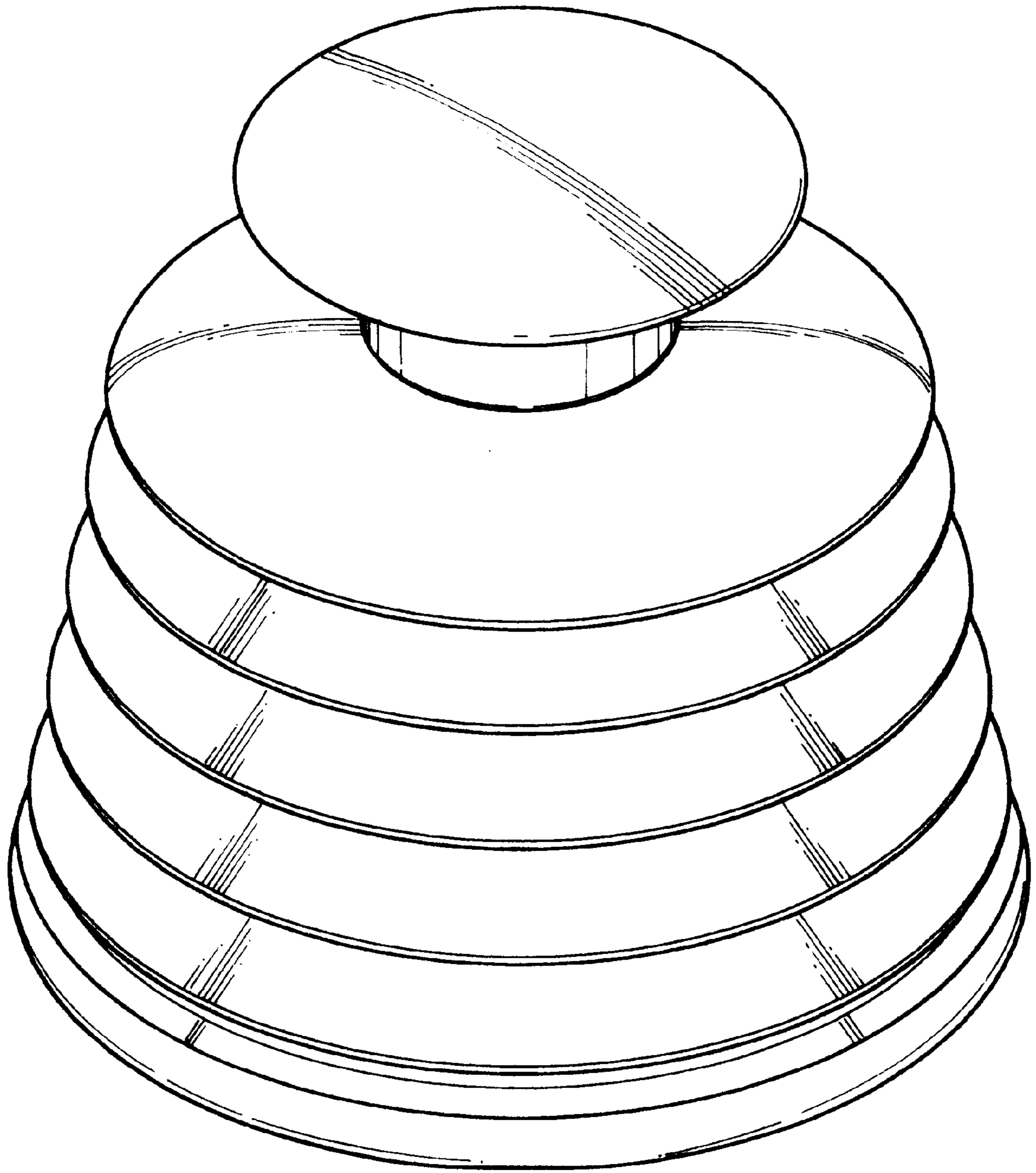
FIG. 5 is a bottom plan view thereof;

FIG. 6 is a left elevational view thereof; and,

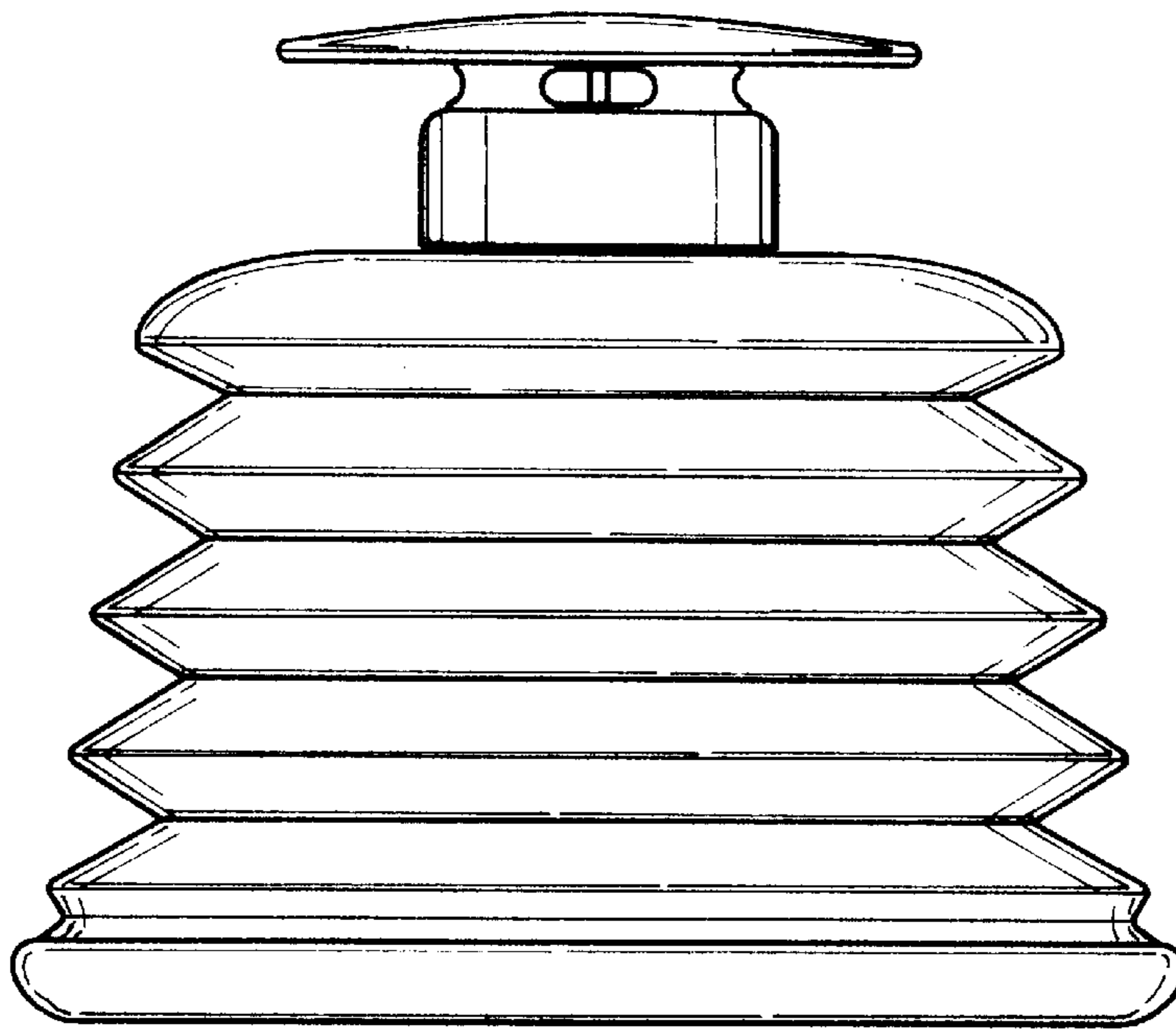
FIG. 7 is a rear elevational view.

**1 Claim, 4 Drawing Sheets**

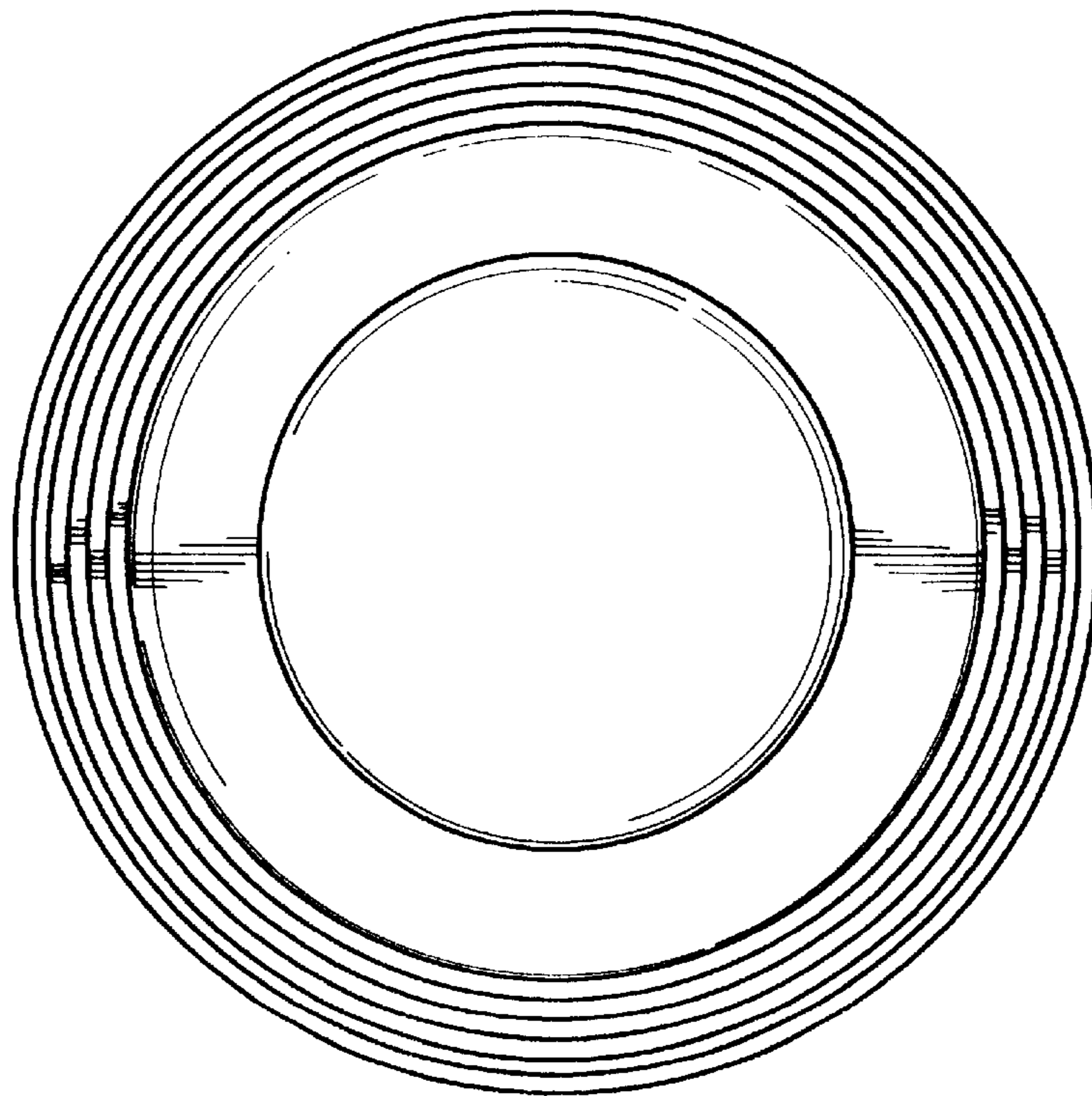




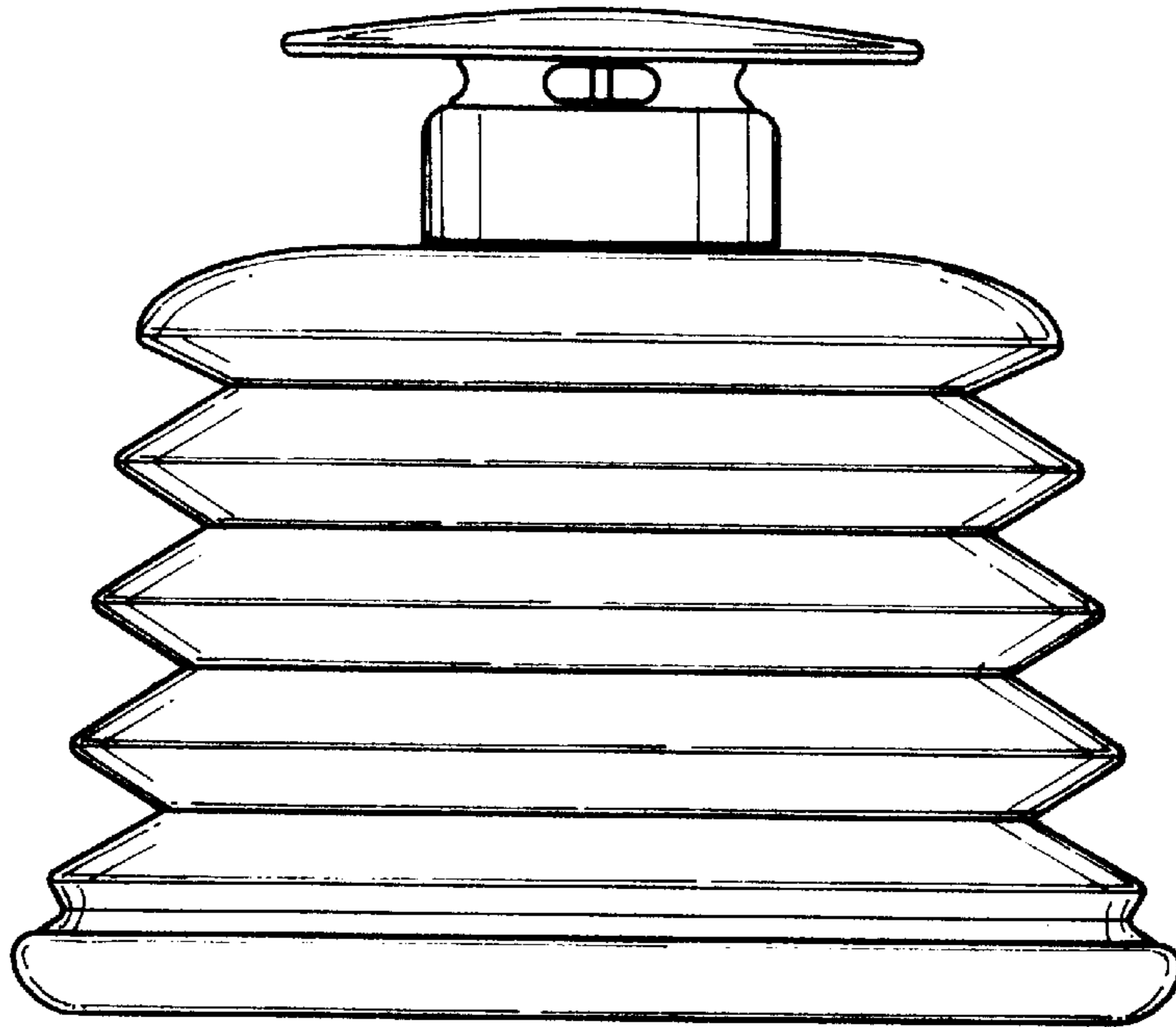
*FIG. 1*



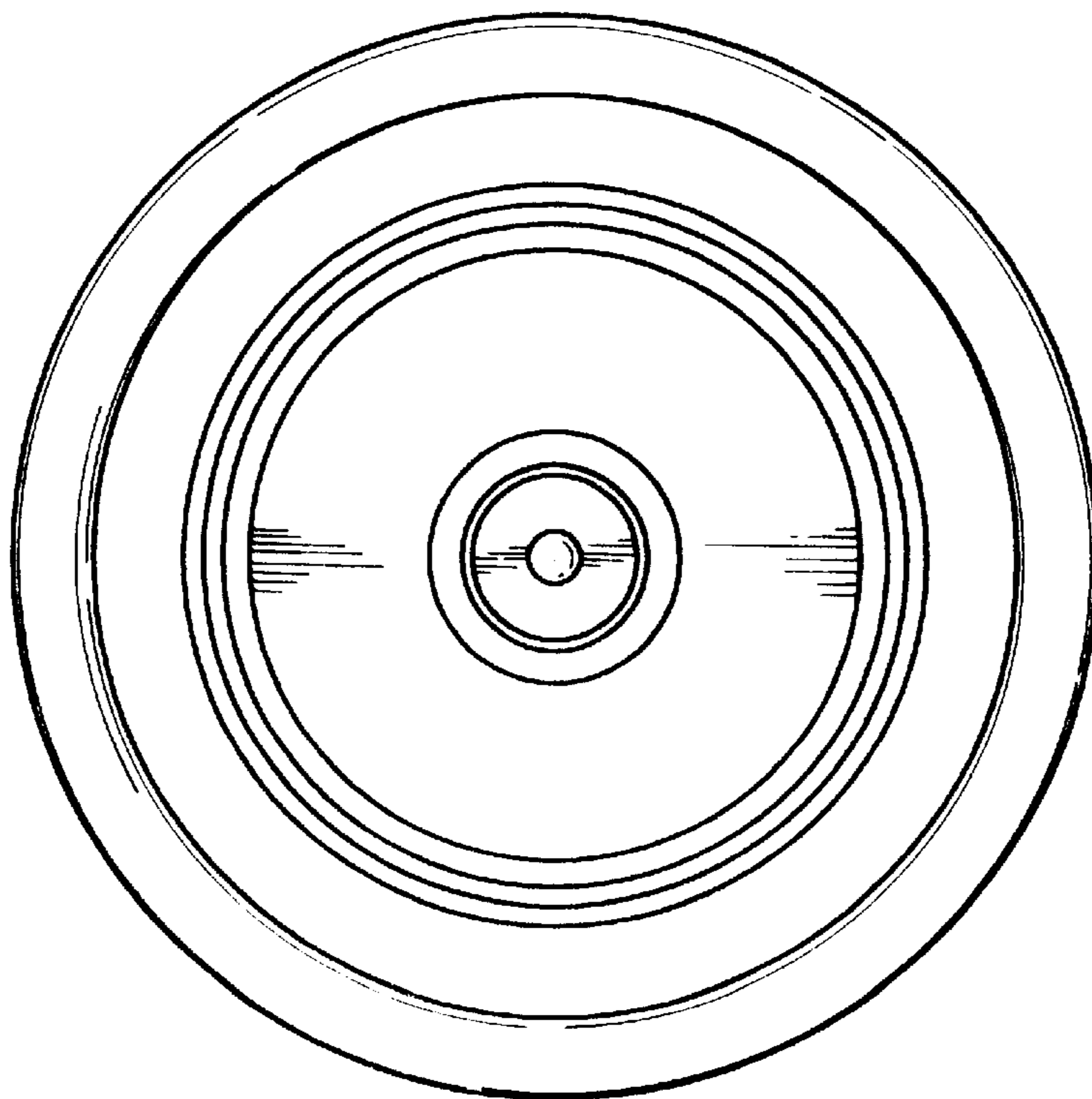
*FIG. 2*



*FIG. 3*

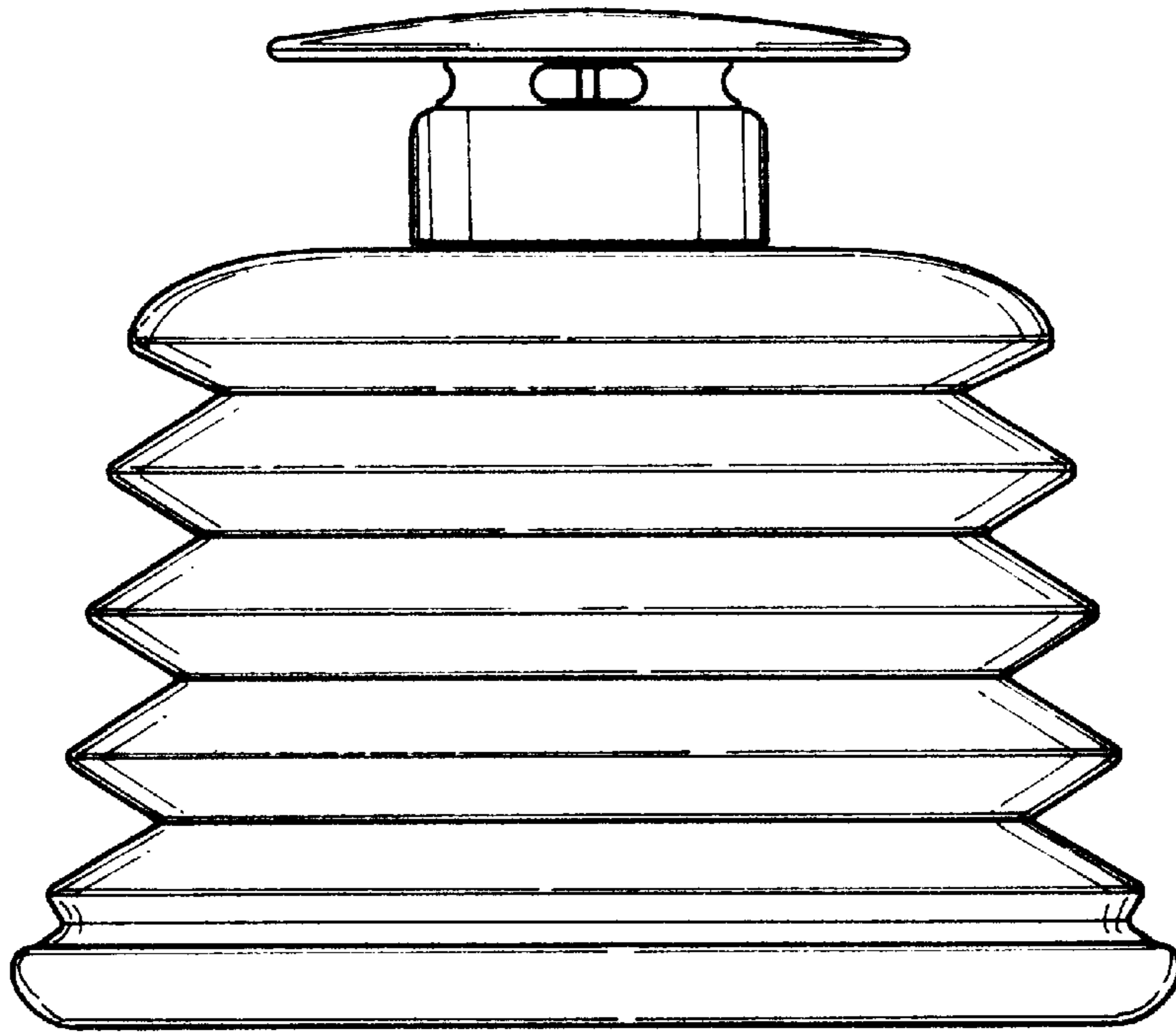


*FIG. 4*

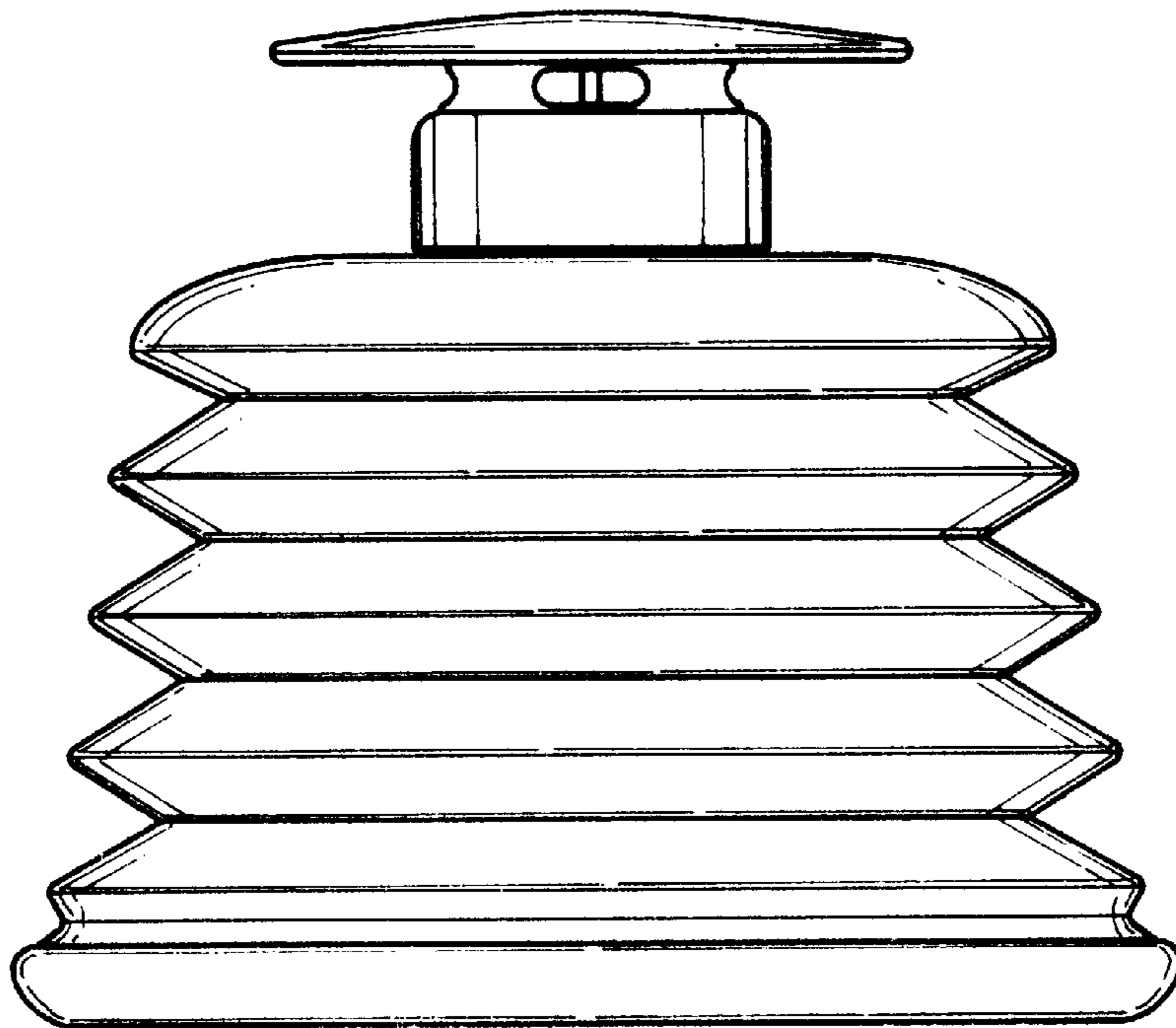


*FIG. 5*





*FIG. 6*



*FIG. 7*