



US00D818004S

(12) **United States Design Patent** (10) **Patent No.:** **US D818,004 S**  
**Lee** (45) **Date of Patent:** **\*\* May 15, 2018**

(54) **PORTABLE VACUUM PUMP**  
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 (72) Inventor: **Wen-Ching Lee**, Taichung (TW)  
 (\*\*) Term: **15 Years**

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(21) Appl. No.: **29/599,643**  
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(30) **Foreign Application Priority Data**

Oct. 12, 2016 (TW) ..... 105306120

(51) **LOC (11) Cl.** ..... **15-02**

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

(58) **Field of Classification Search**  
 USPC ..... D15/7-9; D23/231, 232, 225; 417/60,  
 417/235, 265, 321, 355, 358, 363, 359,  
 417/410.1, 415-416, 405, 900, 269, 539;  
 60/408, 412; 184/26-37; 415/140-147;  
 123/495, 509; 137/565.34  
 CPC ..... F02M 37/04; F02M 37/14; F04B 53/92;  
 F04B 1/005; F04D 13/06; F04D 29/22;  
 F04D 29/046; F04D 29/2266

See application file for complete search history.

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(57) **CLAIM**

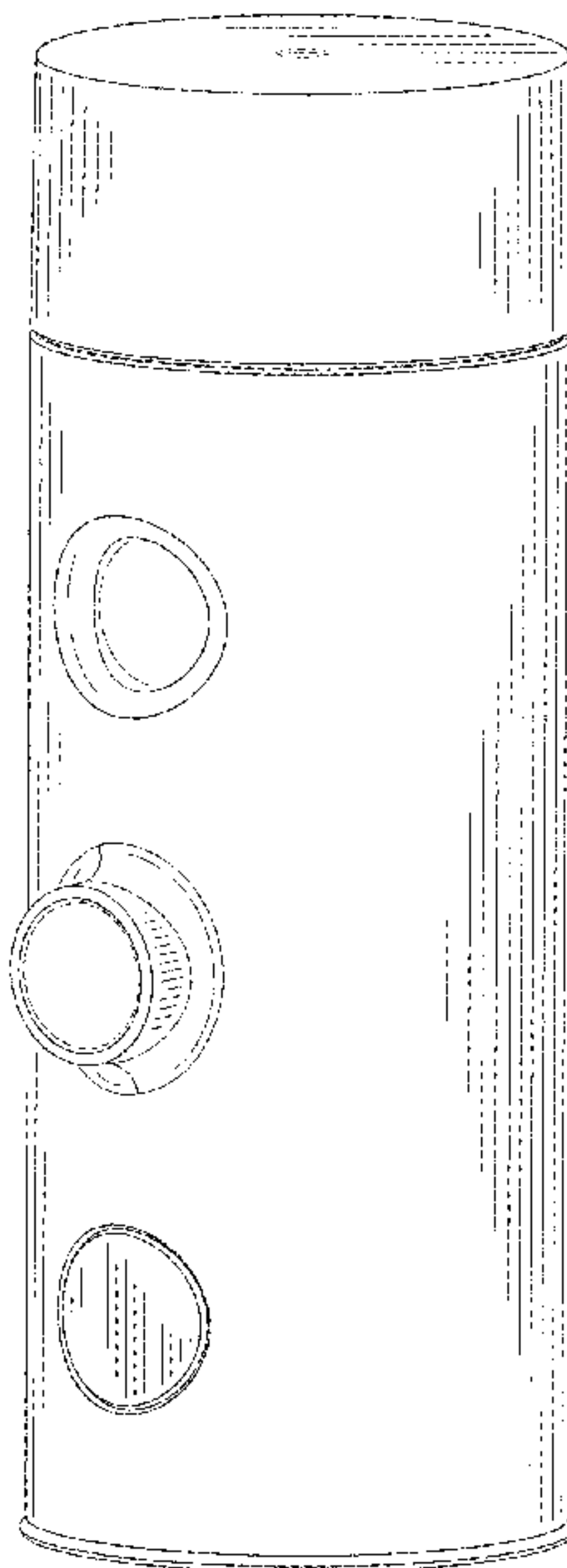
The ornamental design for a portable vacuum pump, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a portable vacuum pump in accordance with my design;  
 FIG. 2 is a front side view of the portable vacuum pump in accordance with my design;  
 FIG. 3 is a rear side view of the portable vacuum pump in accordance with my design;  
 FIG. 4 is a left side view of the portable vacuum pump in accordance with my design;  
 FIG. 5 is a right side view of the portable vacuum pump in accordance with my design;  
 FIG. 6 is a top plan view of the portable vacuum pump in accordance with my design; and,  
 FIG. 7 is a bottom plan view of the portable vacuum pump in accordance with my design.

The broken lines showing structural features are for illustrative purposes only and form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



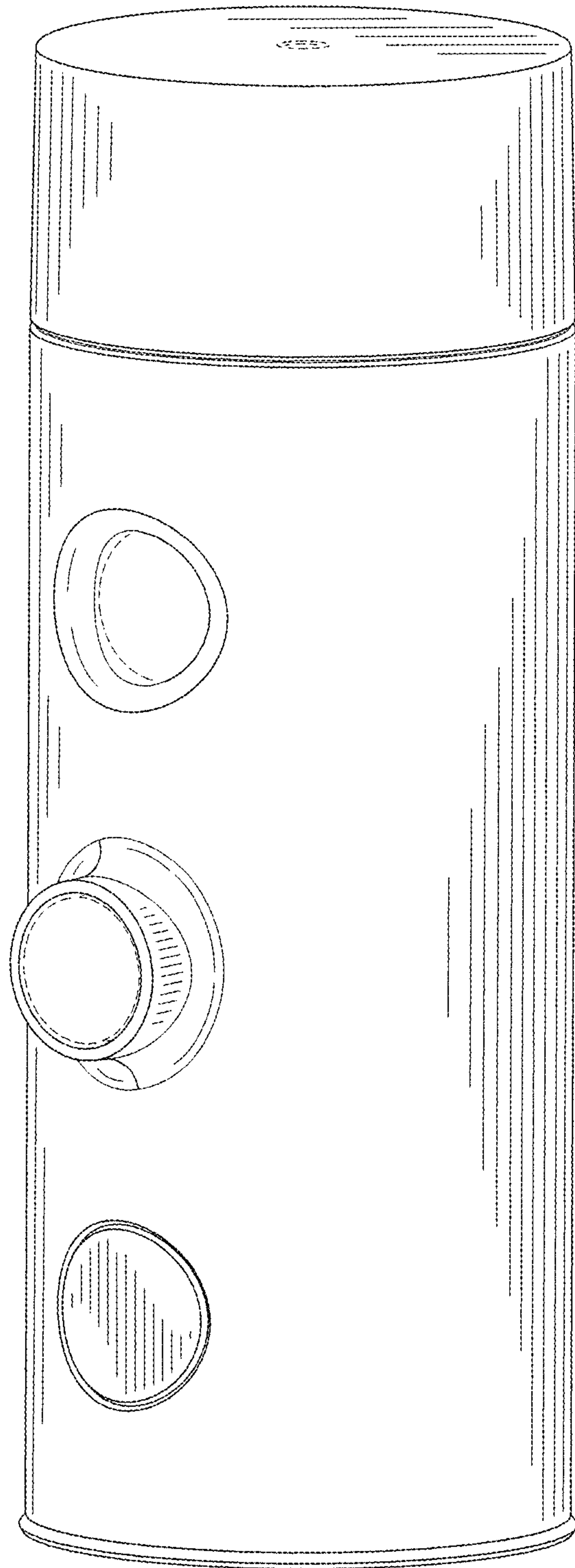


FIG. 1

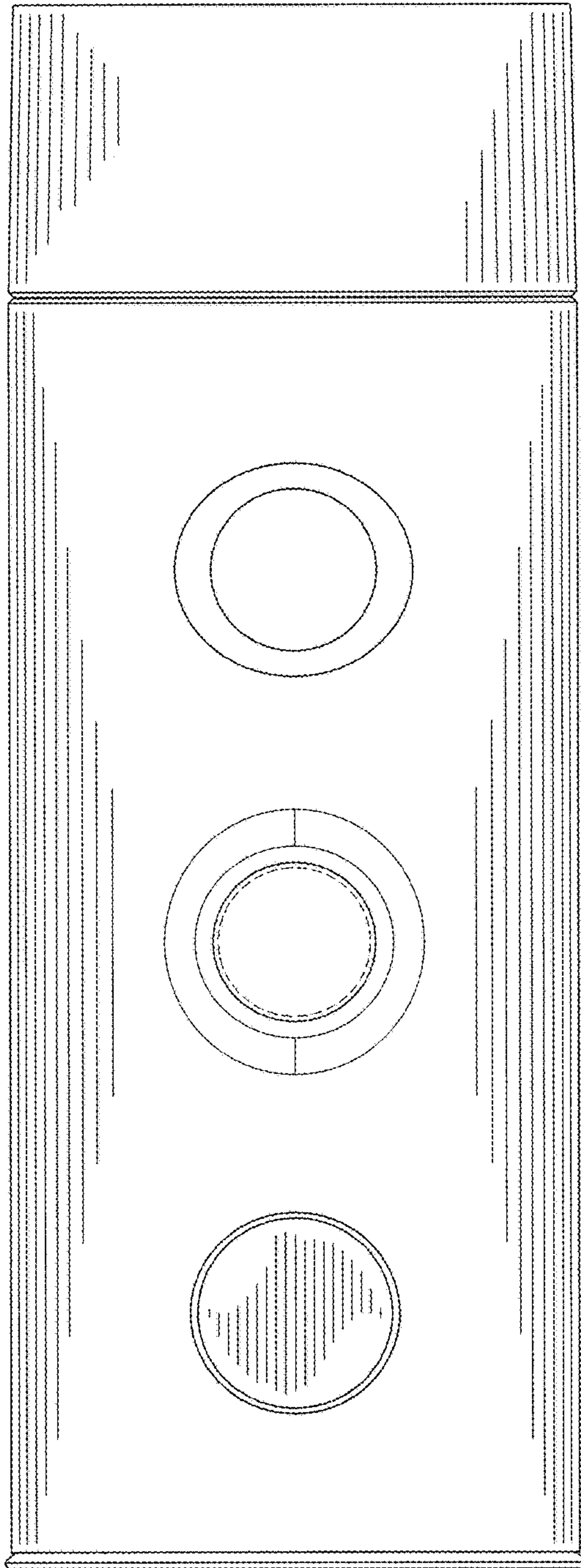


FIG. 2

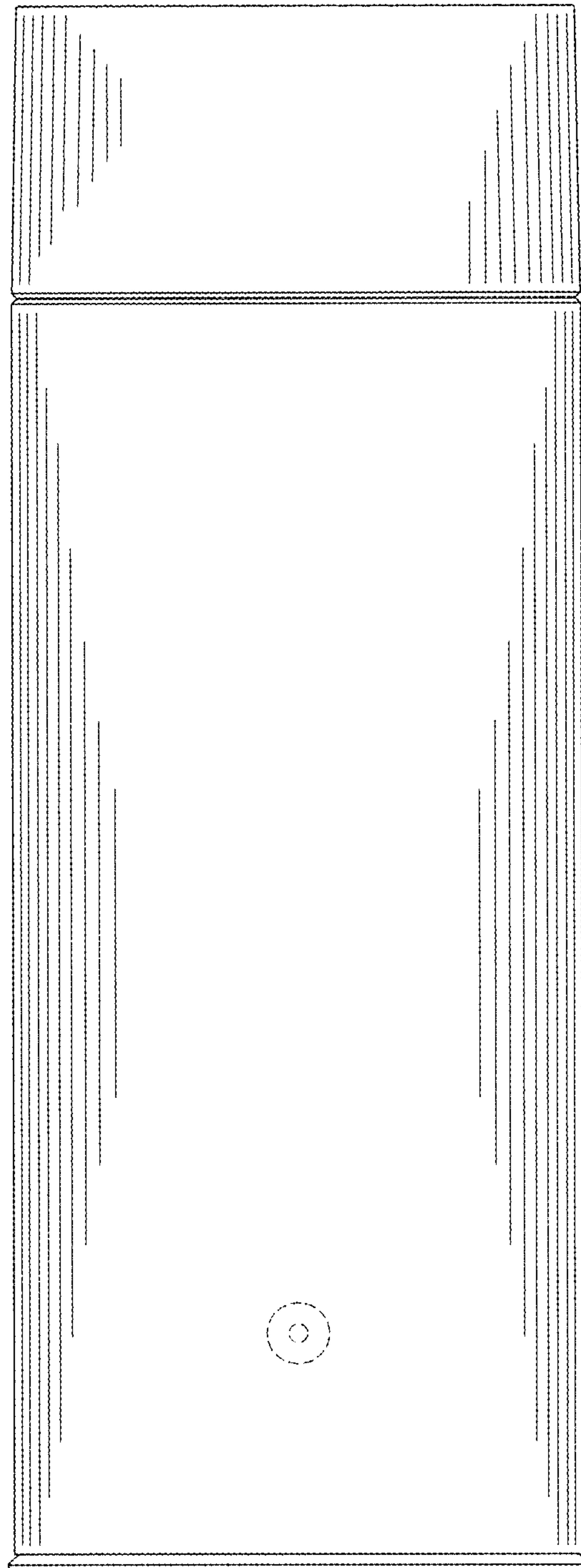


FIG. 3

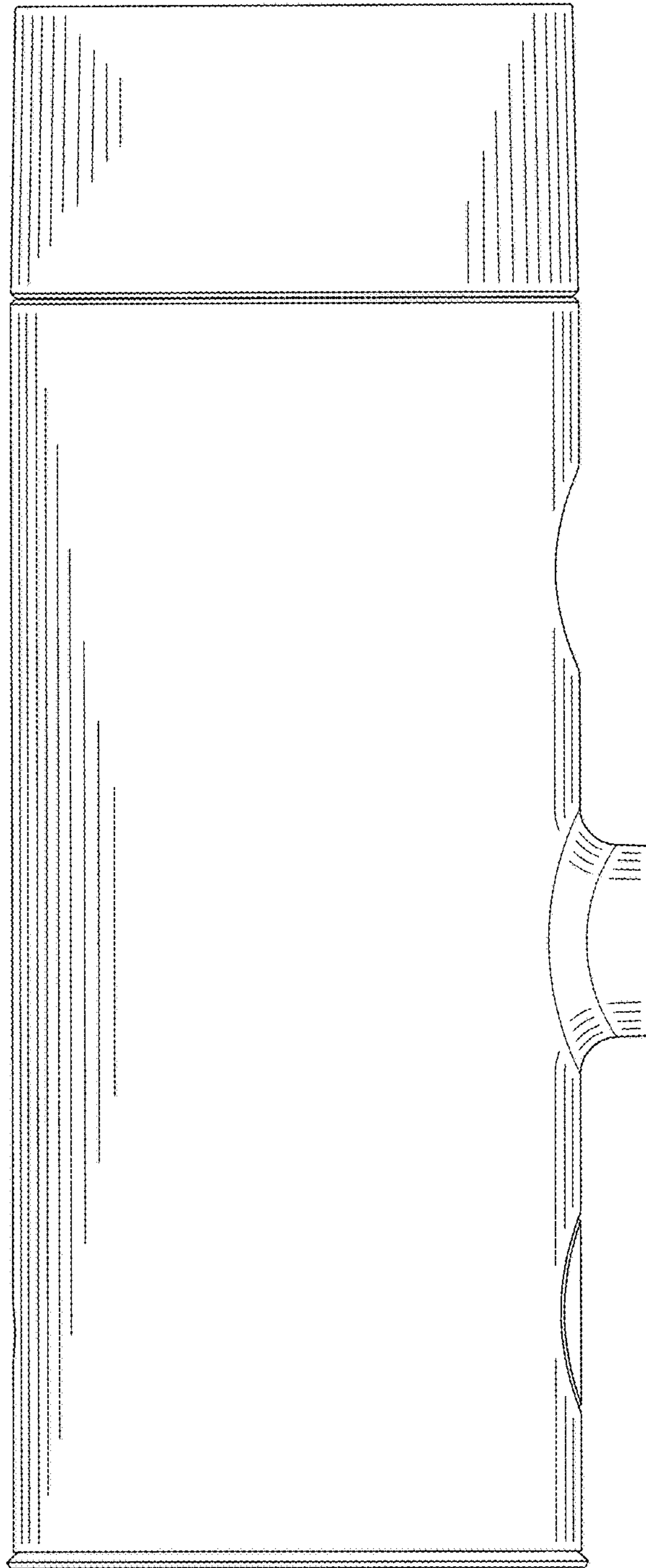


FIG. 4



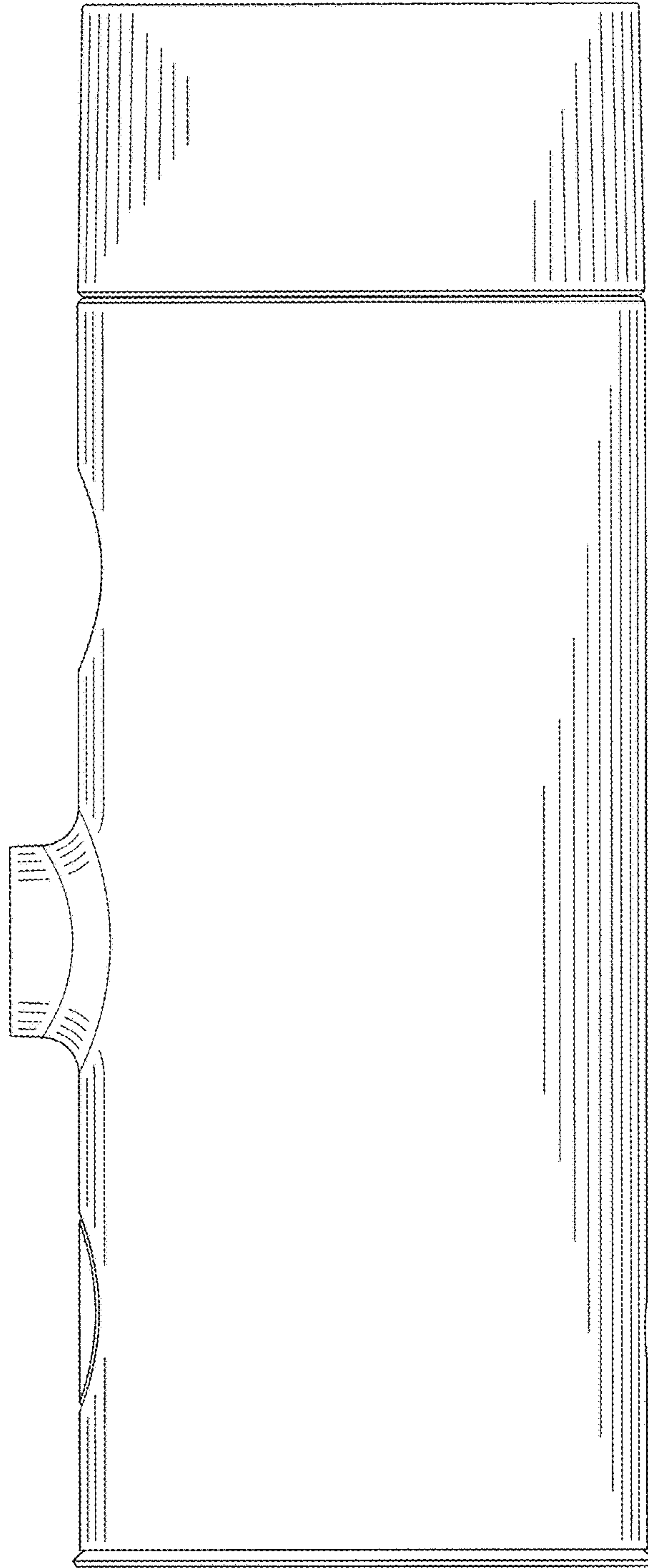


FIG. 5

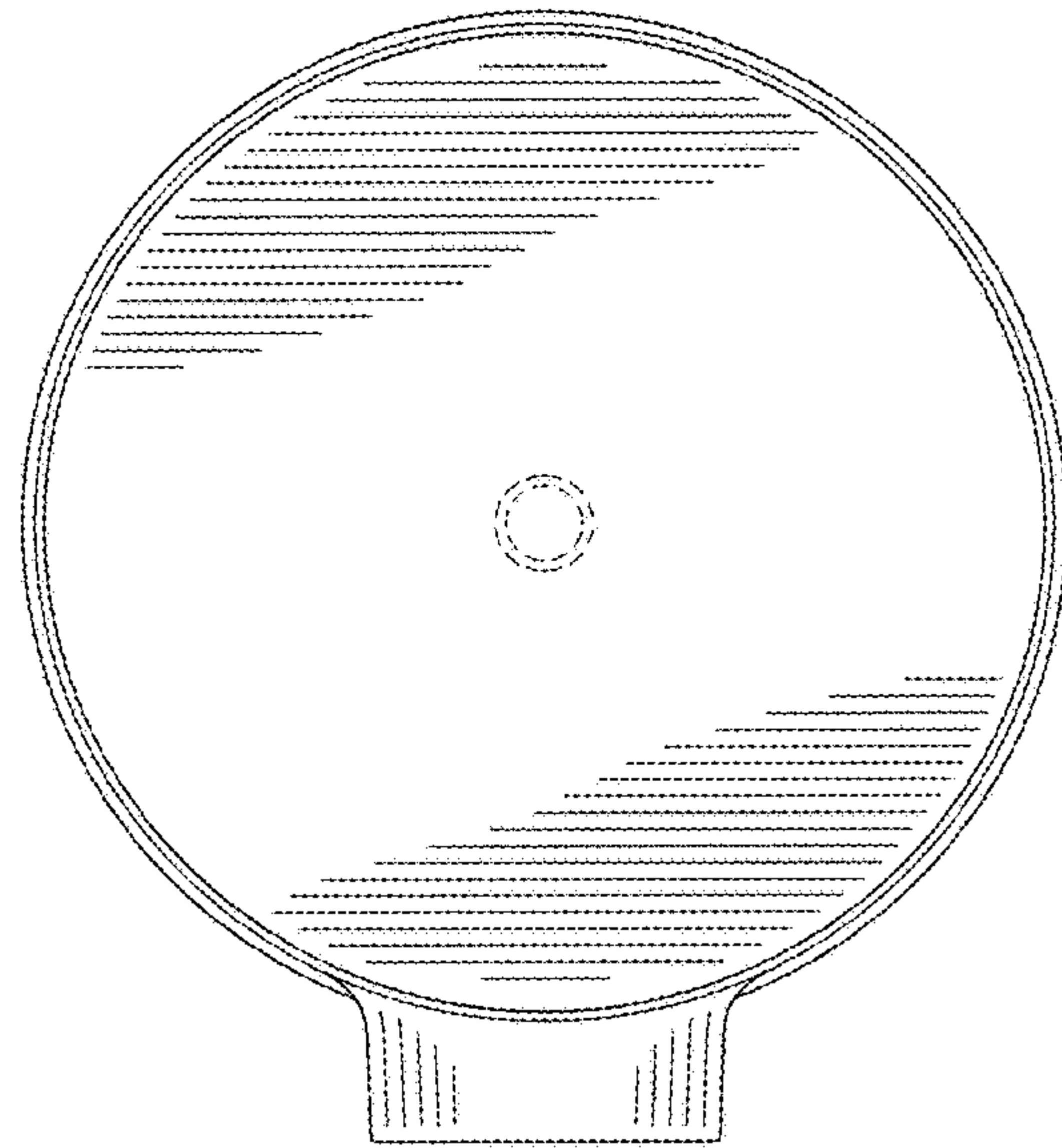


FIG. 6

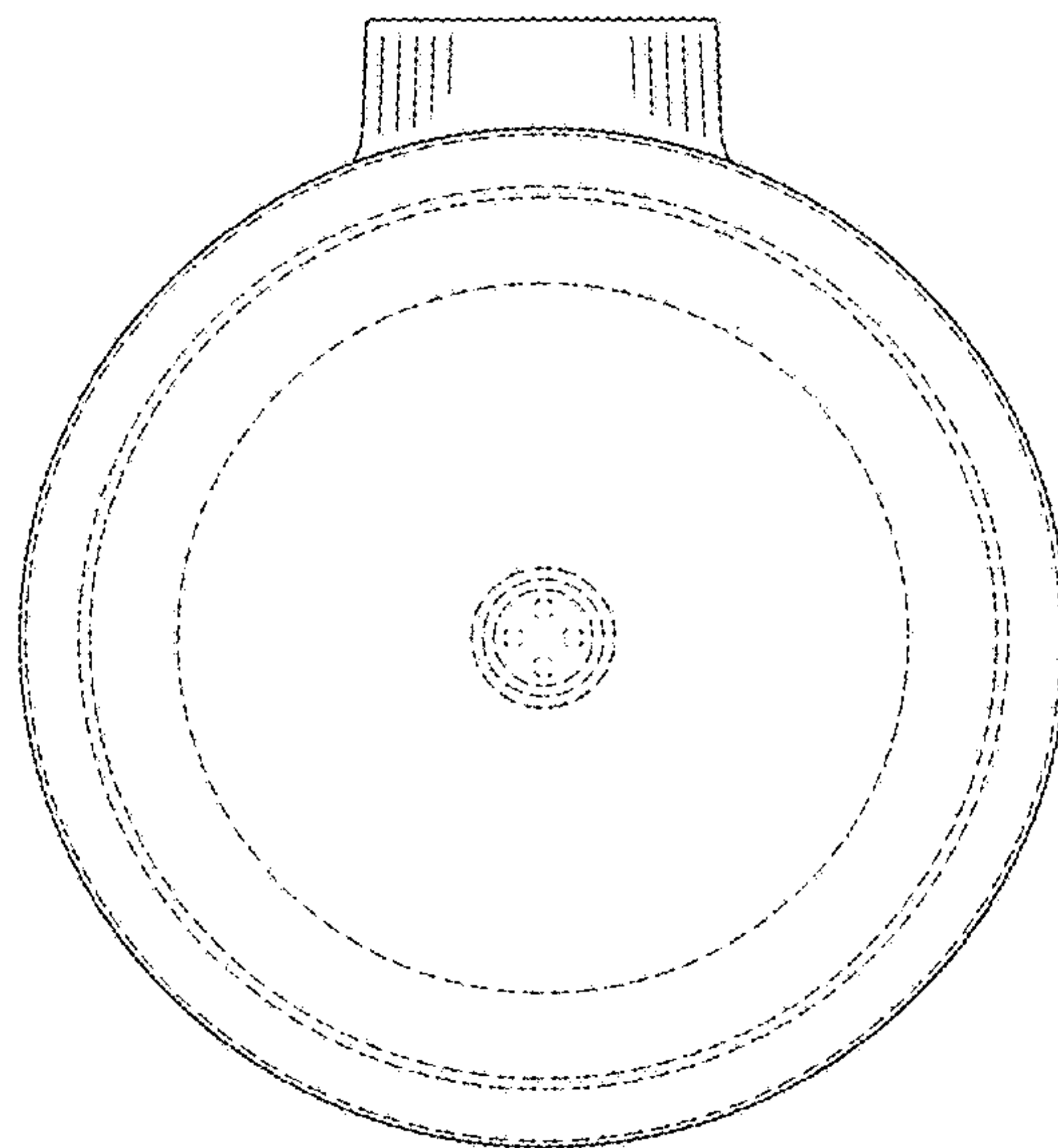


FIG. 7