



US00D546769S

(12) **United States Design Patent** (10) **Patent No.:** **US D546,769 S**  
**Sengupta et al.** (45) **Date of Patent:** **\*\* Jul. 17, 2007**

(54) **THREE-PORT HIGH PERFORMANCE MINI HOLLOW FIBER MEMBRANE CONTACTOR**

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

(21) Appl. No.: **29/249,676**

(22) Filed: **Oct. 17, 2006**

**Related U.S. Application Data**

(62) Division of application No. 29/203,207, filed on Apr. 9, 2004.

(51) **LOC (8) Cl.** ..... **13-03**

(52) **U.S. Cl.** ..... **D13/151; D13/133; D13/146**

(58) **Field of Classification Search** ..... D13/133, D13/146, 151-156, 154, 184; D8/349, 352, D8/354, 387; D23/207, 209; 174/167, 152 R; 210/321.83, 321.87, 321.89, 644; 264/234; 439/207, 252, 249, 933-934

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for a three-port high performance mini hollow fiber membrane contactor, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a three-port high performance mini hollow fiber membrane contactor showing our new design;

FIG. 2 is first side elevational view thereof;

FIG. 3 is a second side elevational view thereof;

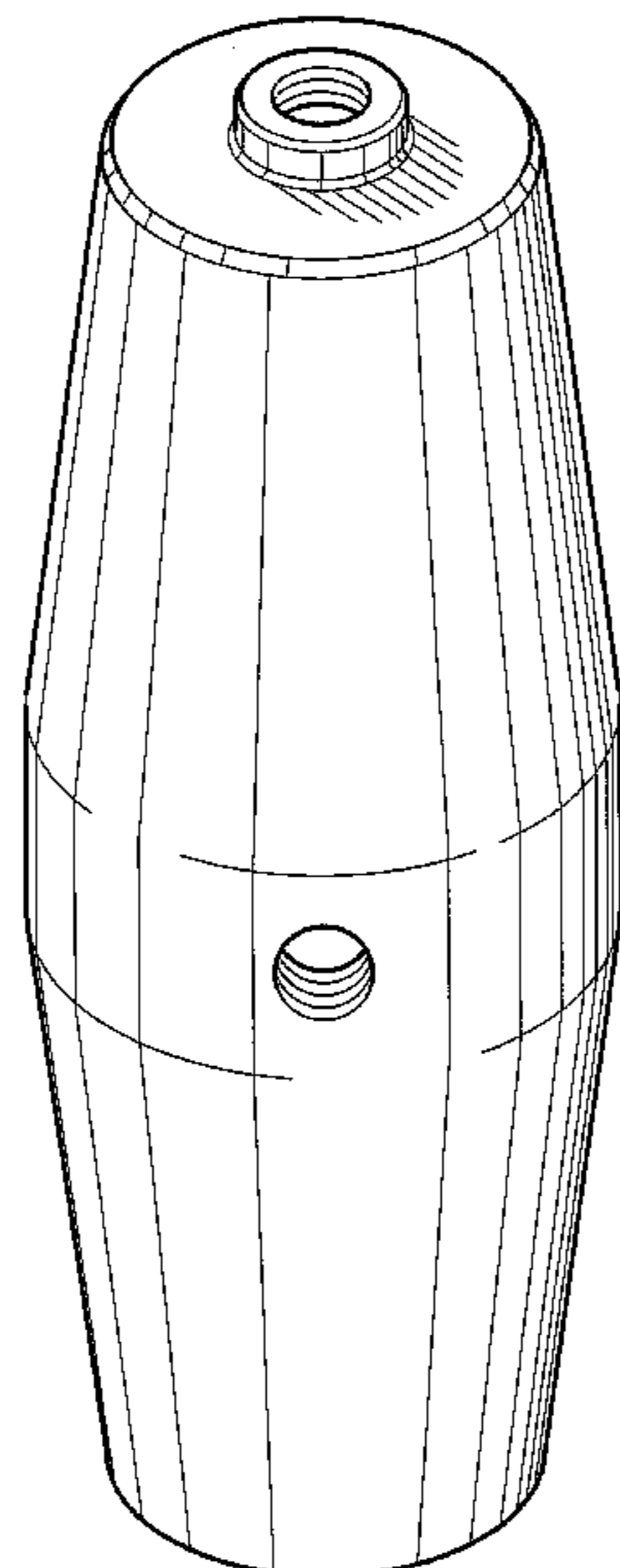
FIG. 4 is a third side elevational view thereof;

FIG. 5 is a fourth side elevational view thereof;

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof.

**1 Claim, 4 Drawing Sheets**



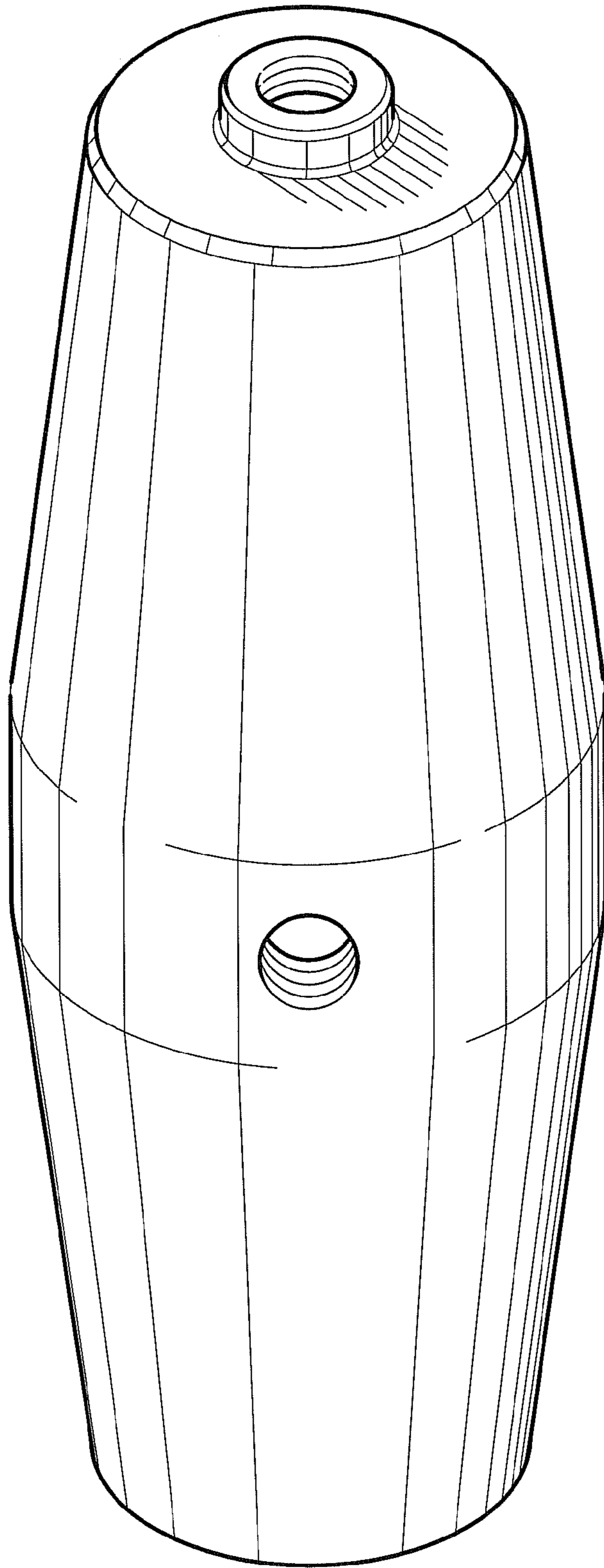


Fig. 1

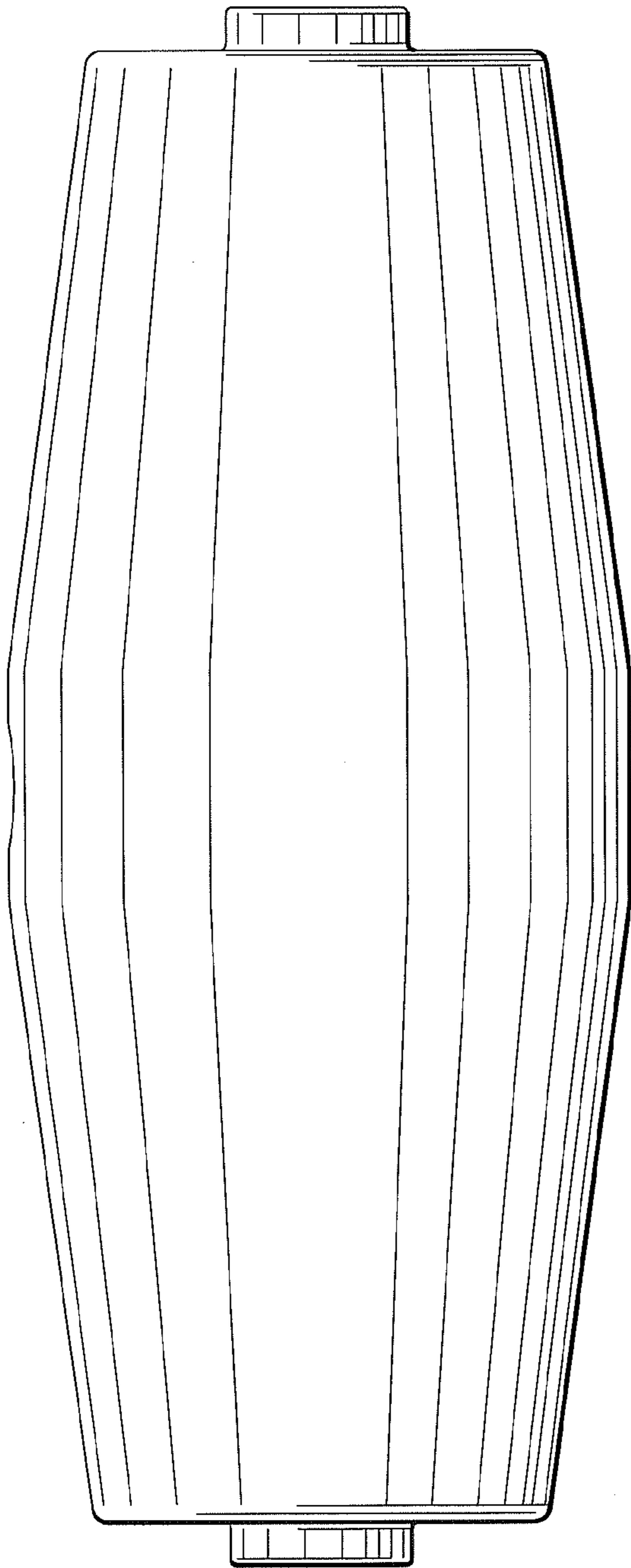


Fig. 2

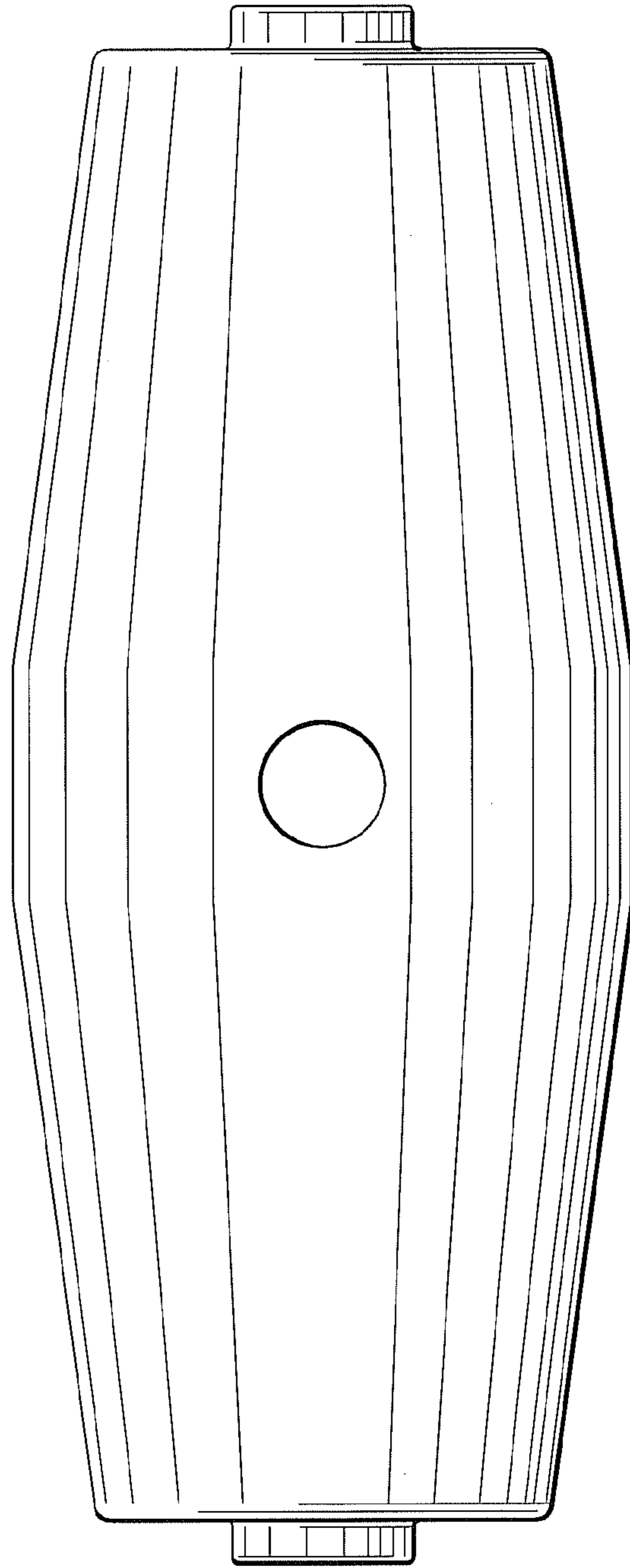


Fig. 3

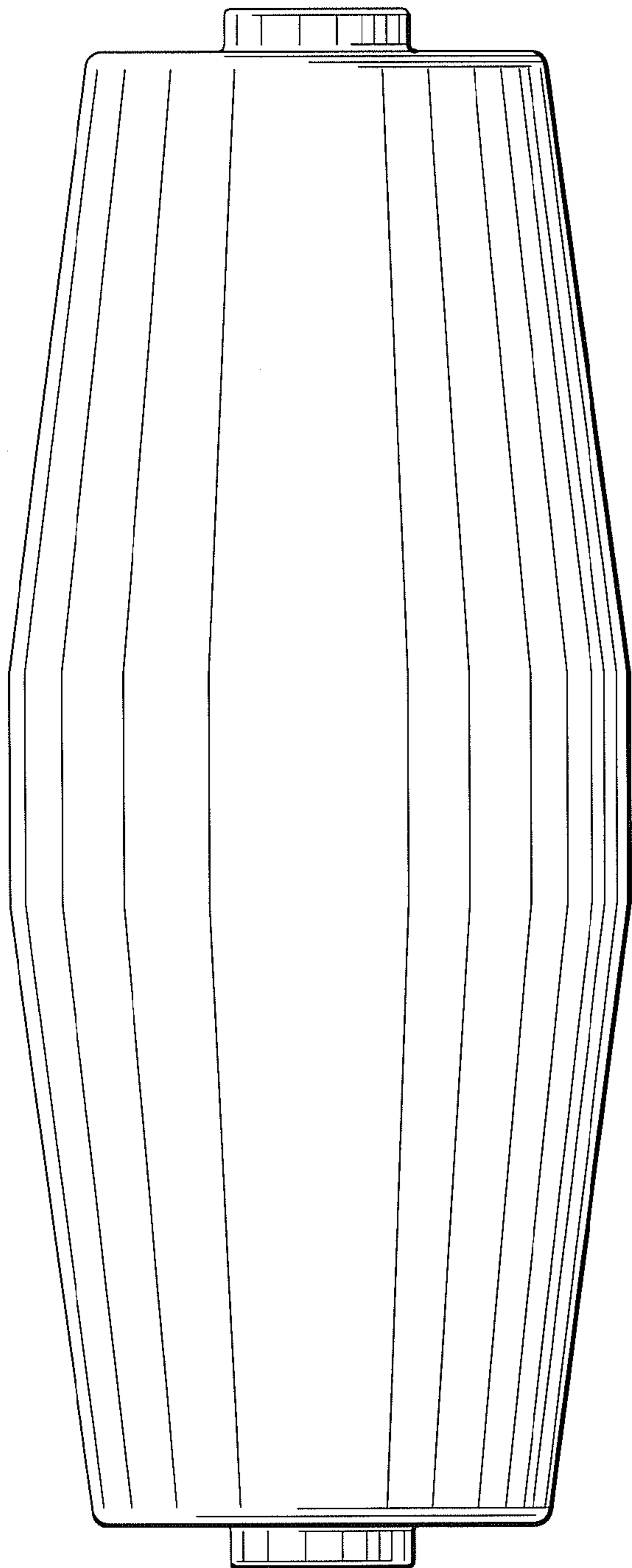


Fig. 4

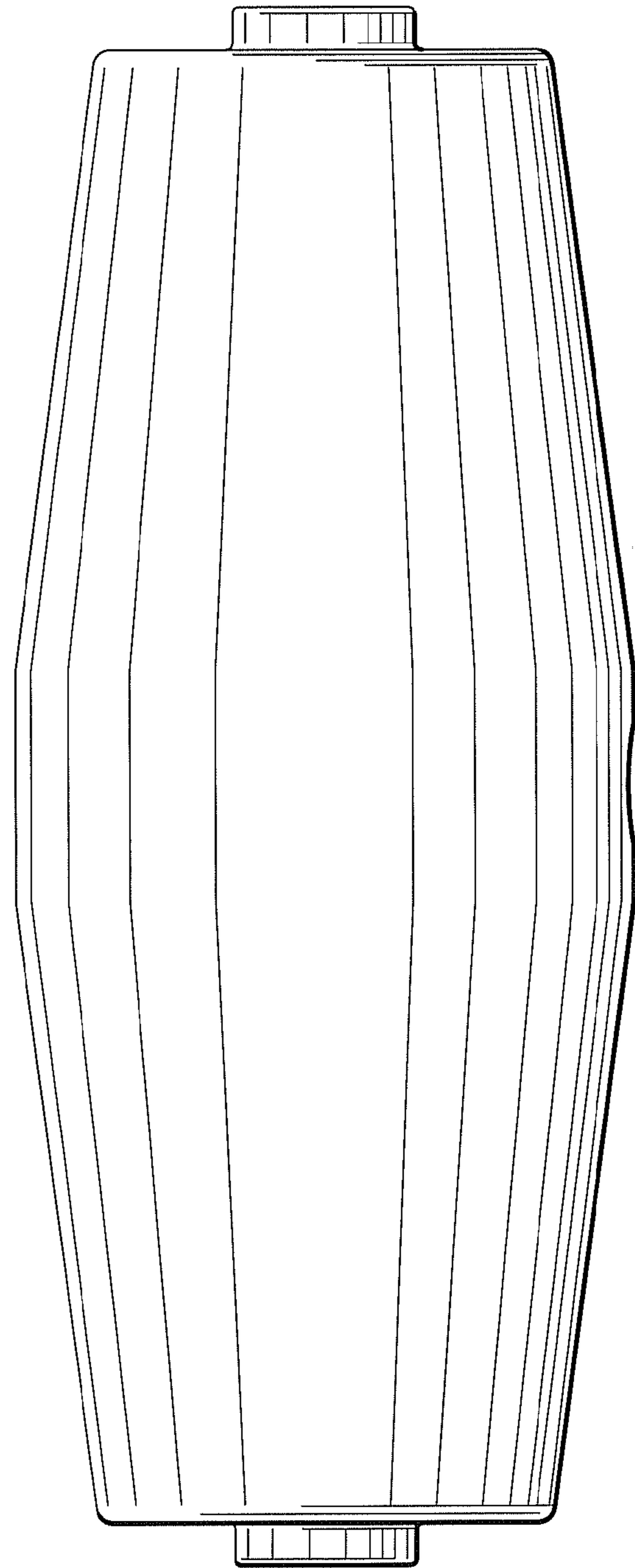


Fig. 5

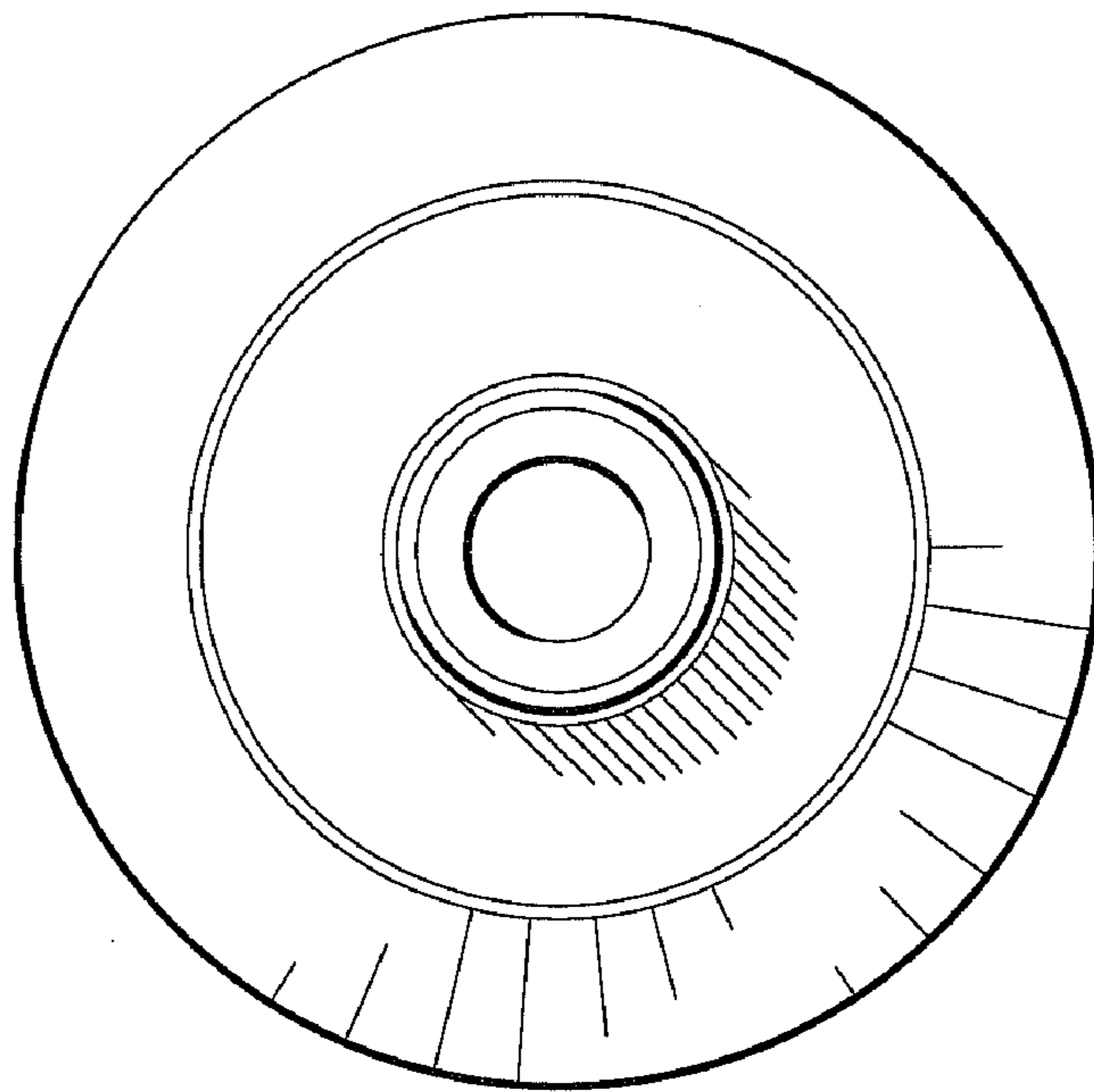


Fig. 6

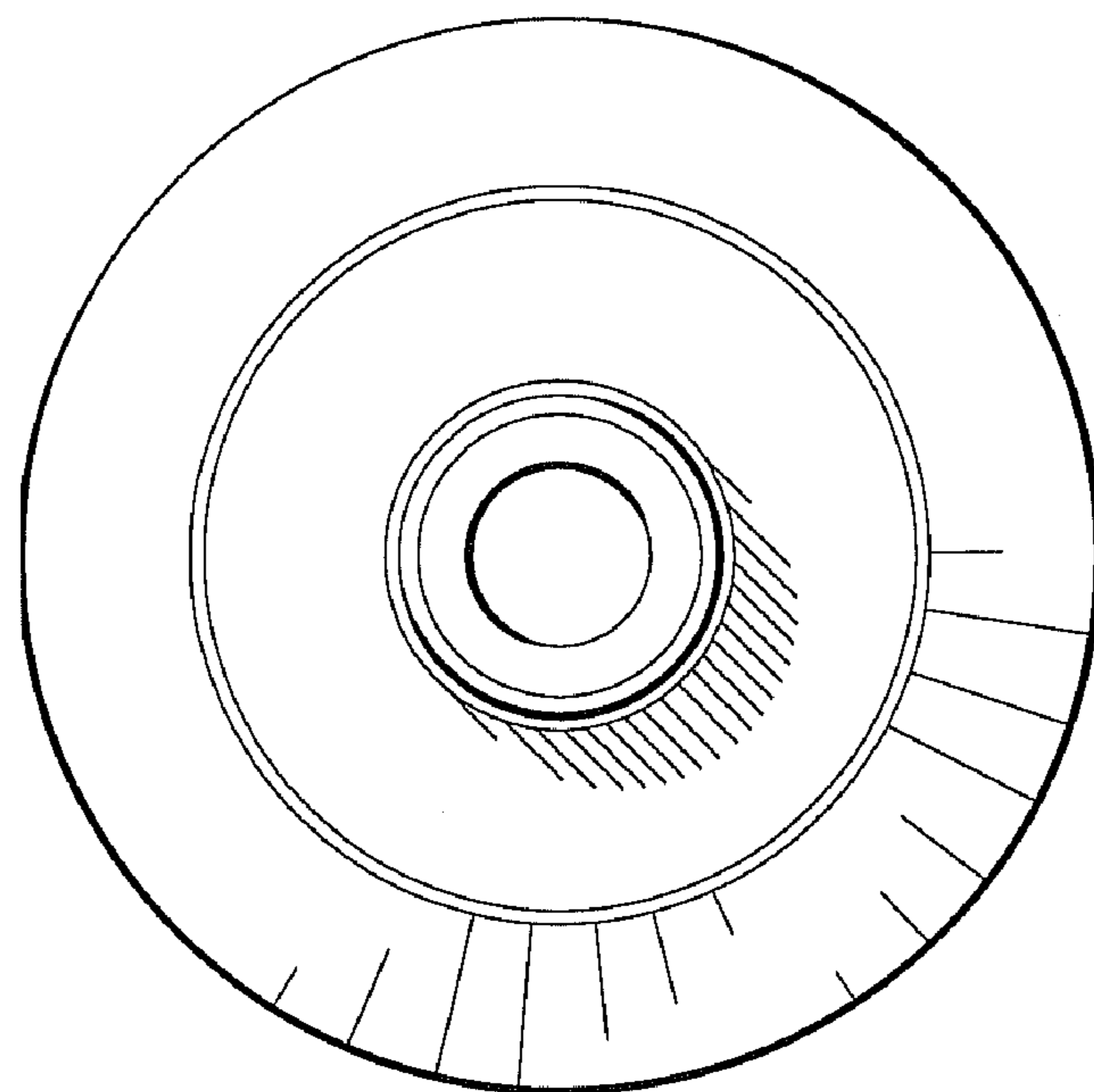


Fig. 7