



US00D518884S

(12) **United States Design Patent** (10) **Patent No.:** **US D518,884 S**  
**Haneishi** (45) **Date of Patent:** **\*\* Apr. 11, 2006**

(54) **HEATING TUBE FOR SEMICONDUCTOR-MAKING FURNACE**

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(73) Assignee: **Tokyo Electron Limited**, Tokyo (JP)

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

(21) Appl. No.: **29/182,226**

(22) Filed: **May 22, 2003**

(30) **Foreign Application Priority Data**

Nov. 22, 2002 (JP) ..... 2002-032298

(51) **LOC (8) Cl.** ..... **23-03**

(52) **U.S. Cl.** ..... **D23/386**

(58) **Field of Classification Search** ..... 126/110,  
126/106, 109, 102, 114; 34/247; 432/209;  
D9/549, 575; D23/398, 386

See application file for complete search history.

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(57) **CLAIM**

I claim the ornamental design for heating tube for semiconductor-making furnace, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of a first embodiment of a heating tube for semiconductor-making furnace showing my new design;

FIG. 2 is a rear elevational view thereof;

FIG. 3 is a left-side elevational view thereof;

FIG. 4 is a right-side elevational view thereof;

FIG. 5 is a top plan view thereof;

FIG. 6 is a bottom plan view thereof;

FIG. 7 is a sectional view on line 7—7 in FIG. 3;

FIG. 8 is a front elevational view of a second embodiment of the heating tube for semiconductor-making furnace;

FIG. 9 is a rear elevational view thereof;

FIG. 10 is a left-side elevational view thereof;

FIG. 11 is a right-side elevational view thereof;

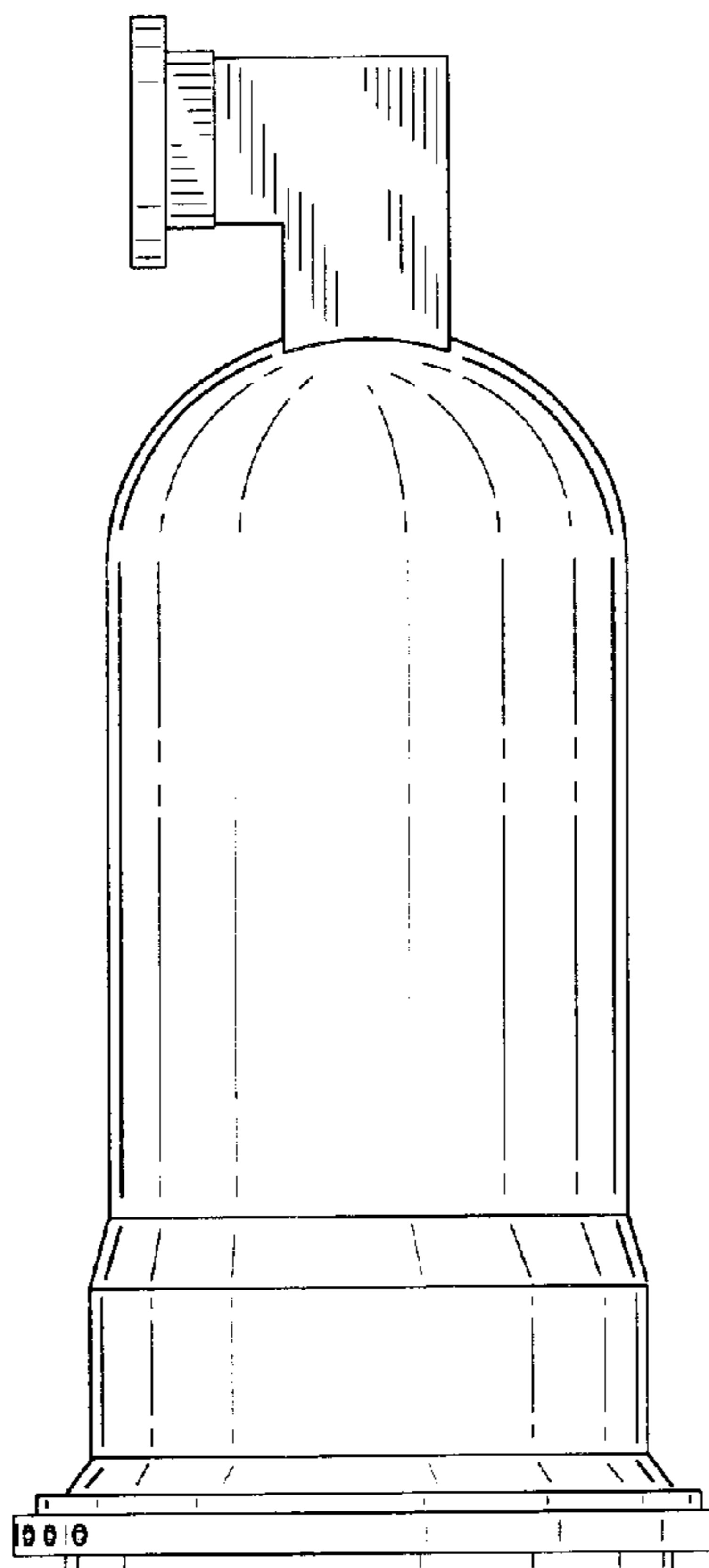
FIG. 12 is a top plan view thereof;

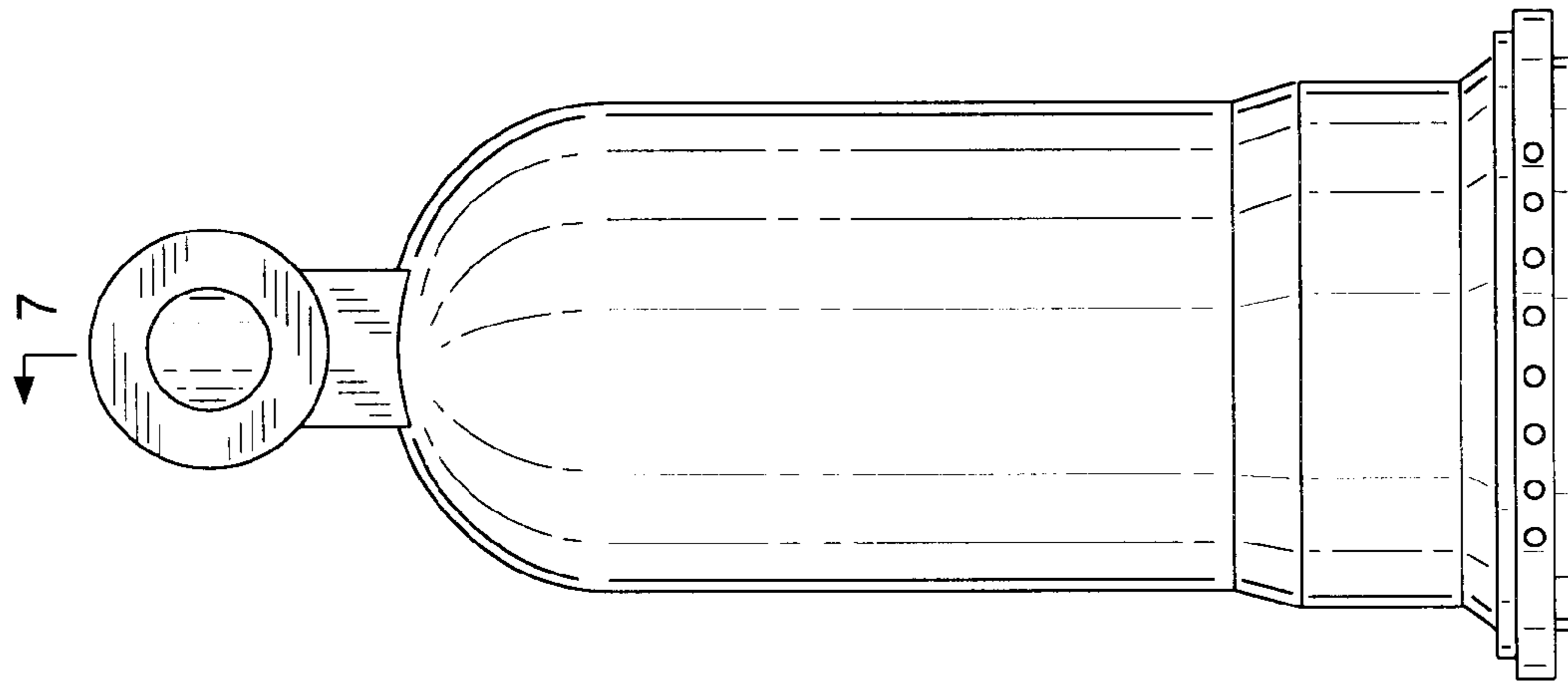
FIG. 13 is a bottom plan view thereof; and,

FIG. 14 is a sectional view on line 14—14 in FIG. 10.

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

**1 Claim, 4 Drawing Sheets**





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FIG. 3

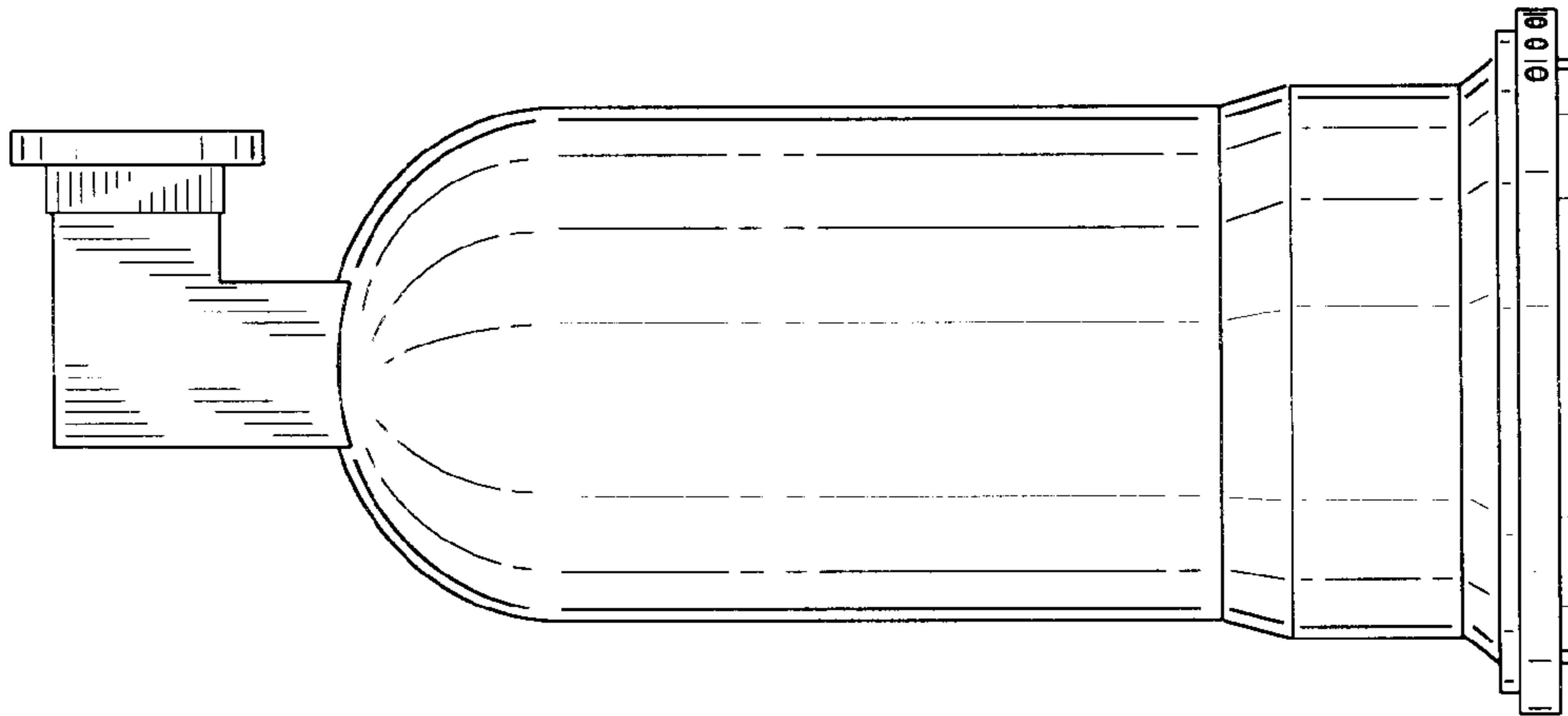


FIG. 2

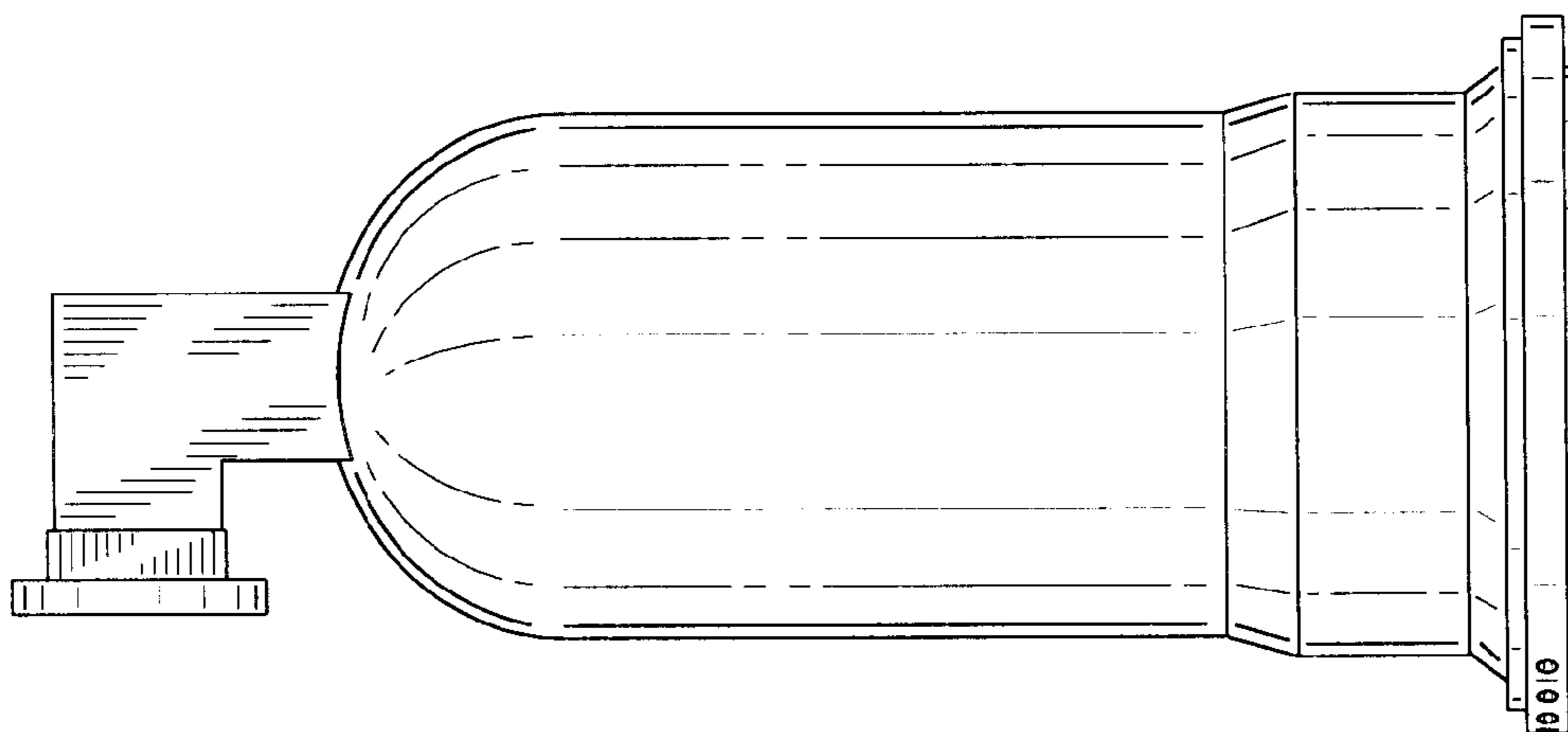


FIG. 1

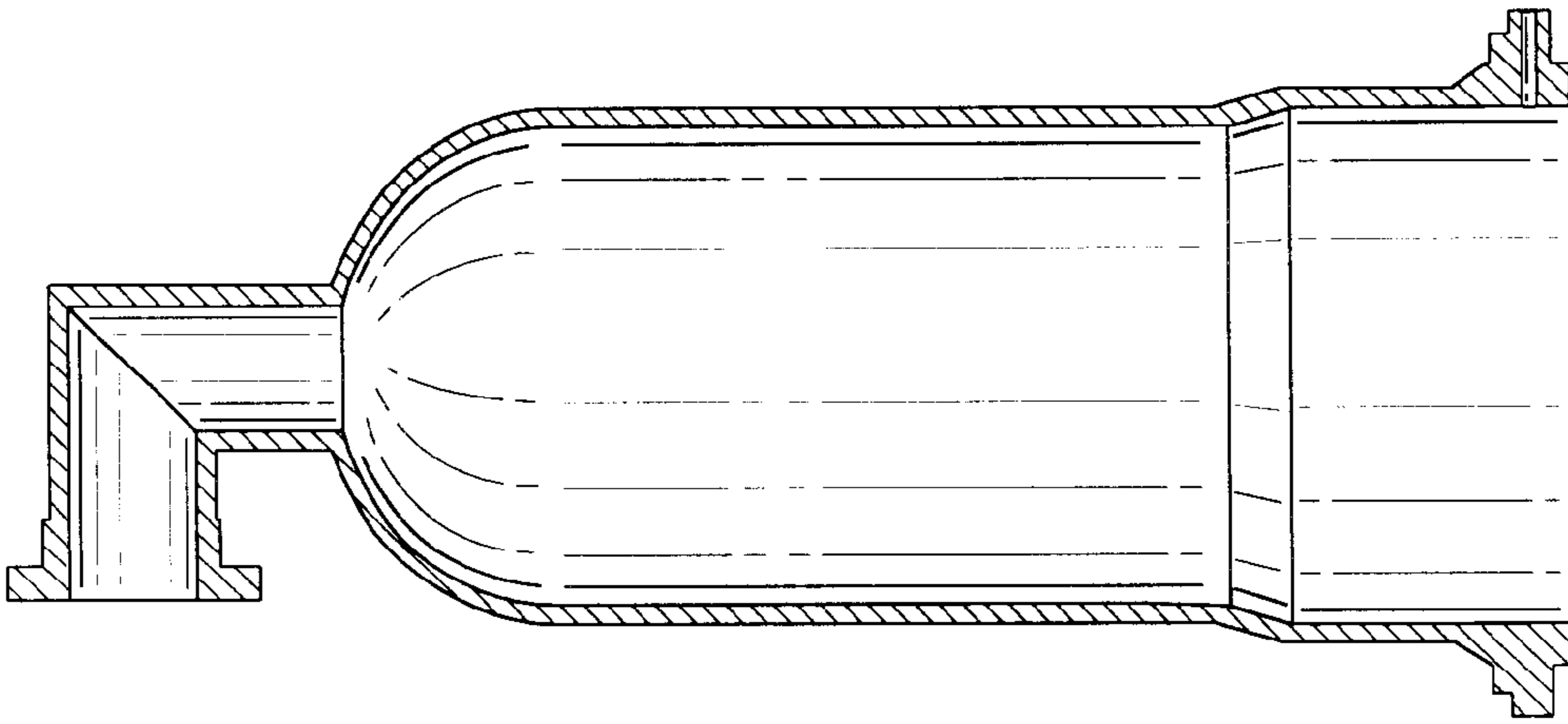


FIG. 7

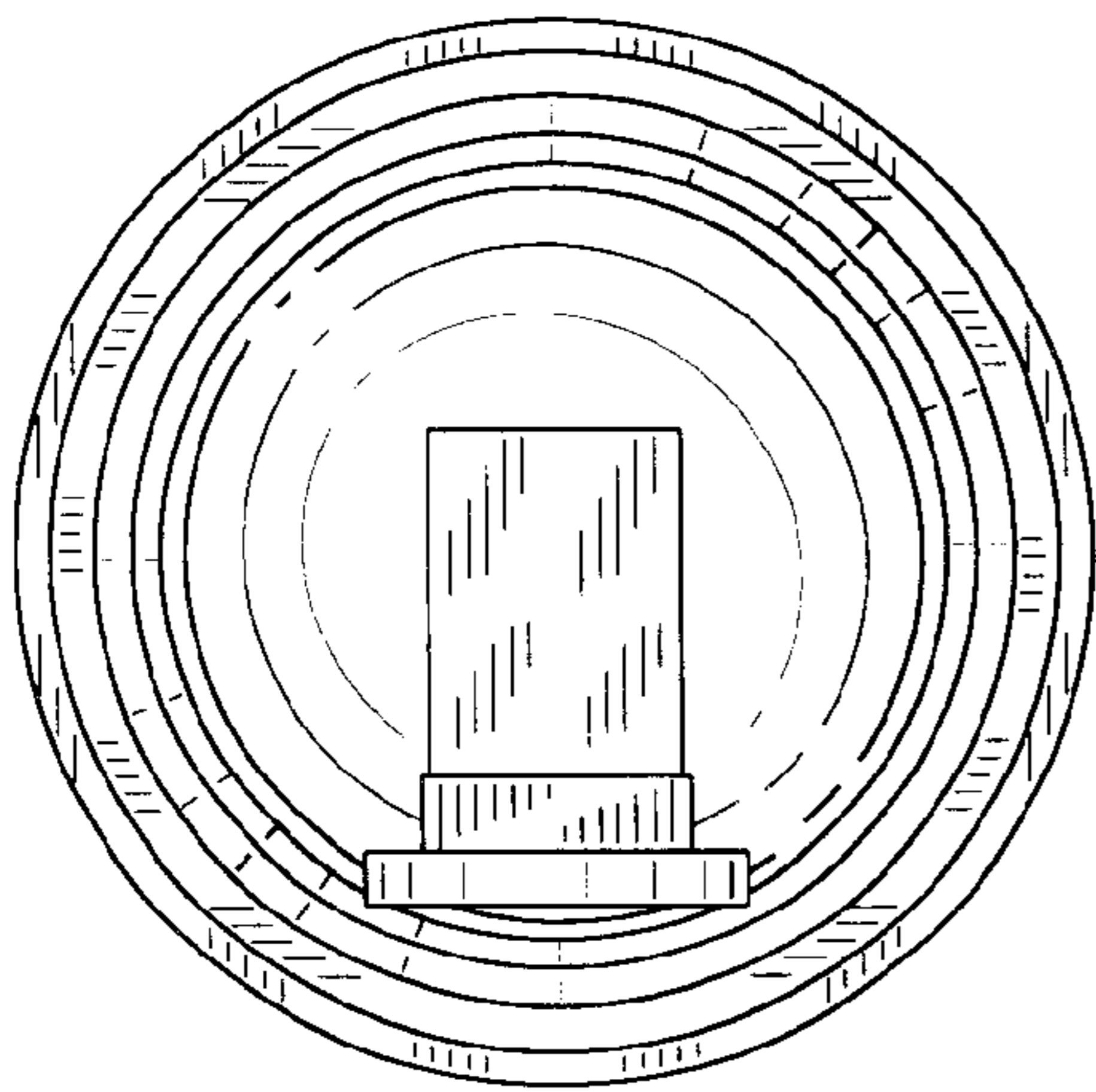


FIG. 5

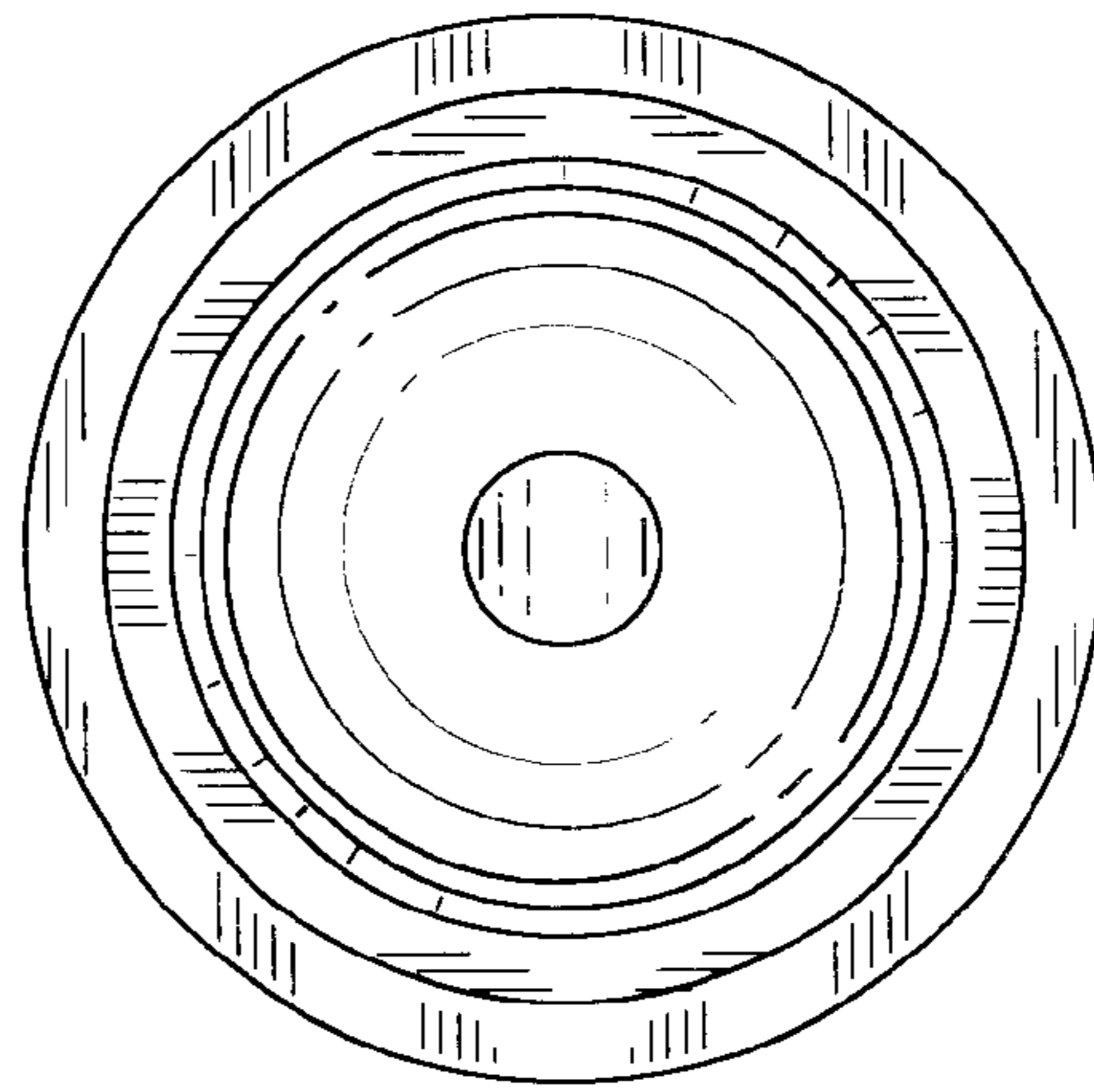


FIG. 6

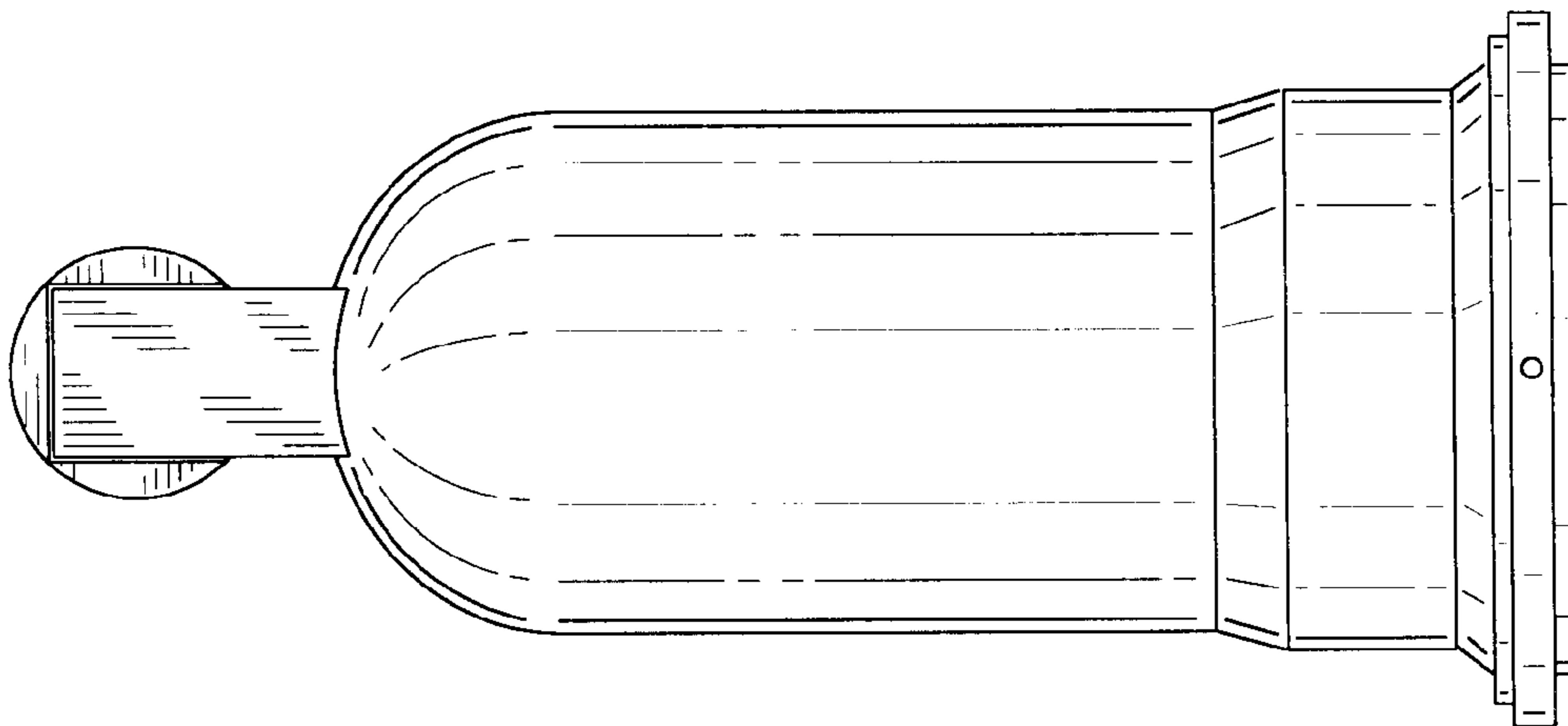


FIG. 4

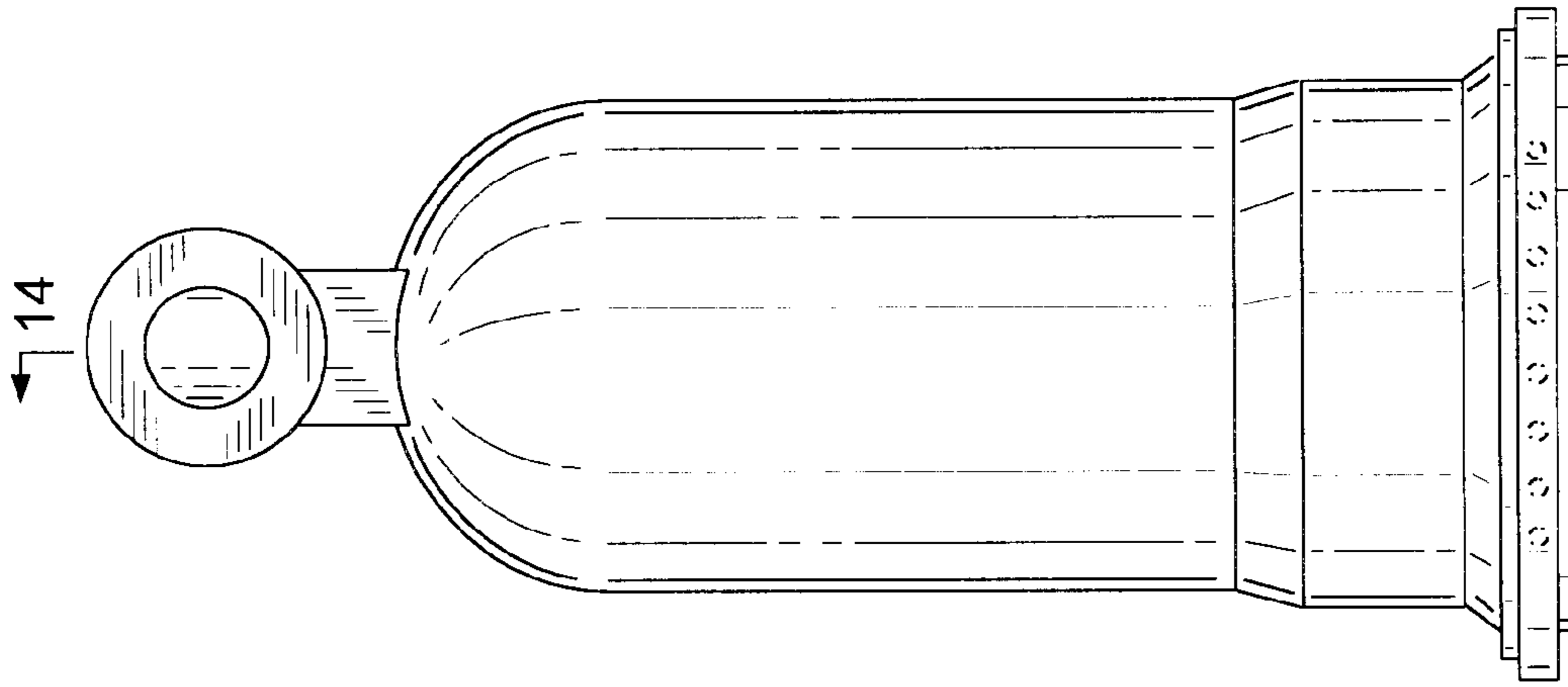


FIG. 10

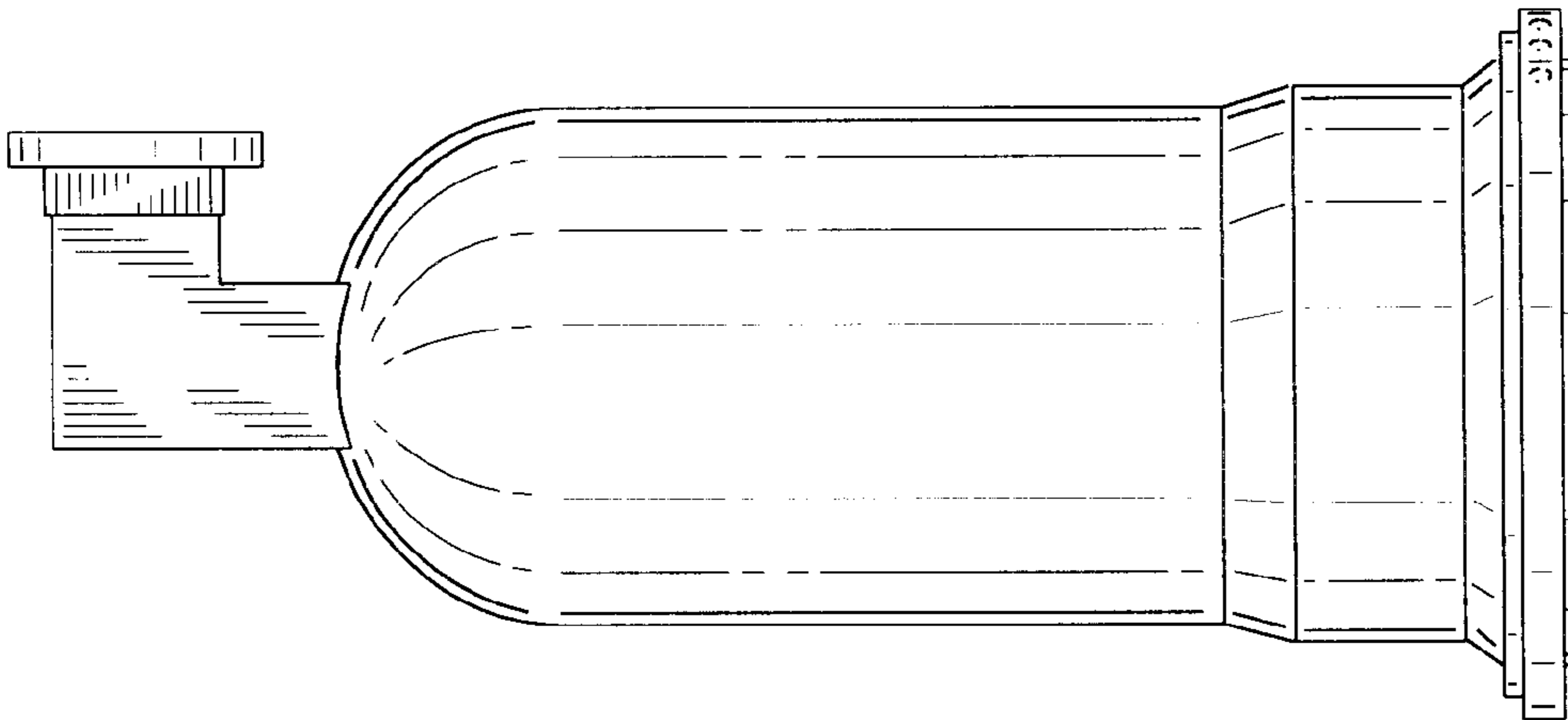


FIG. 9

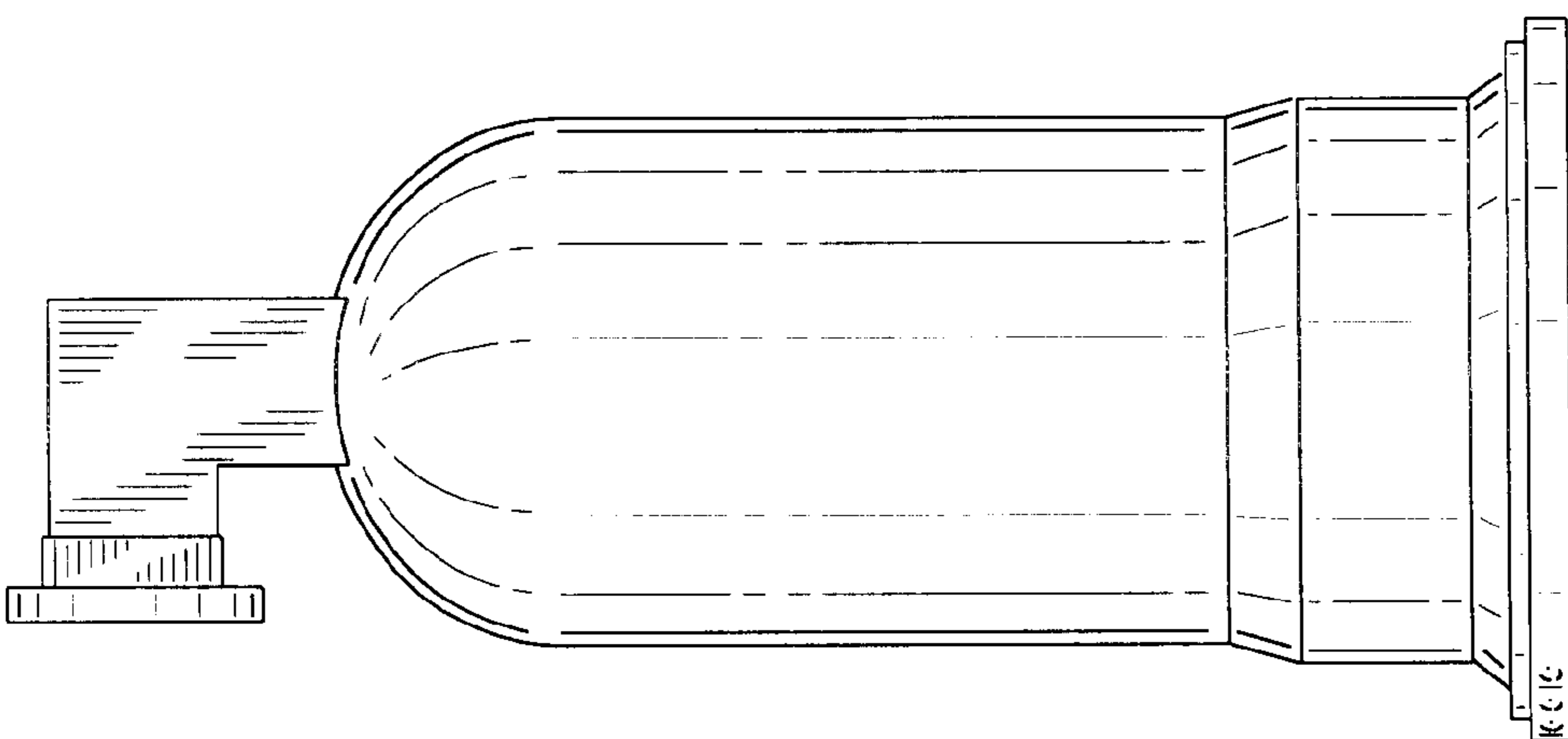


FIG. 8

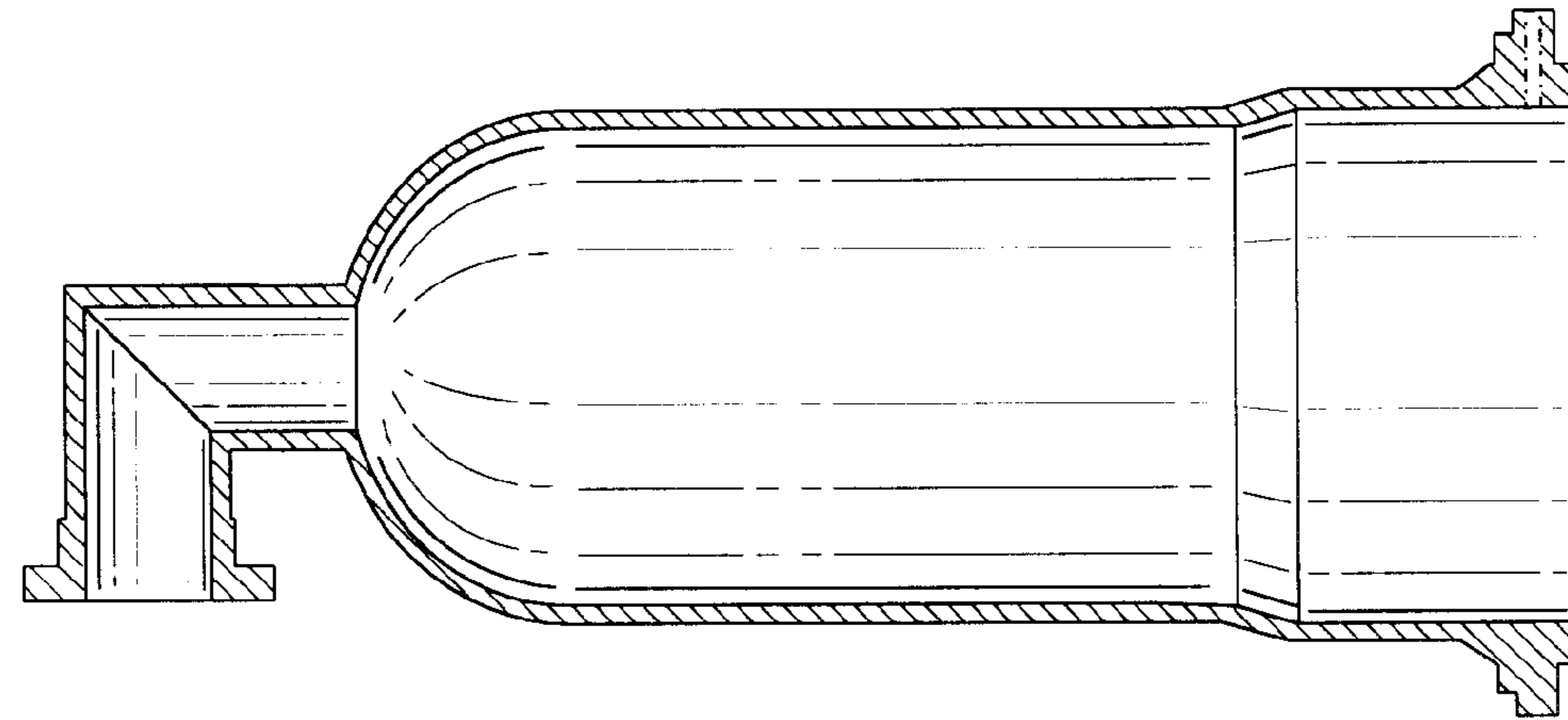


FIG. 14

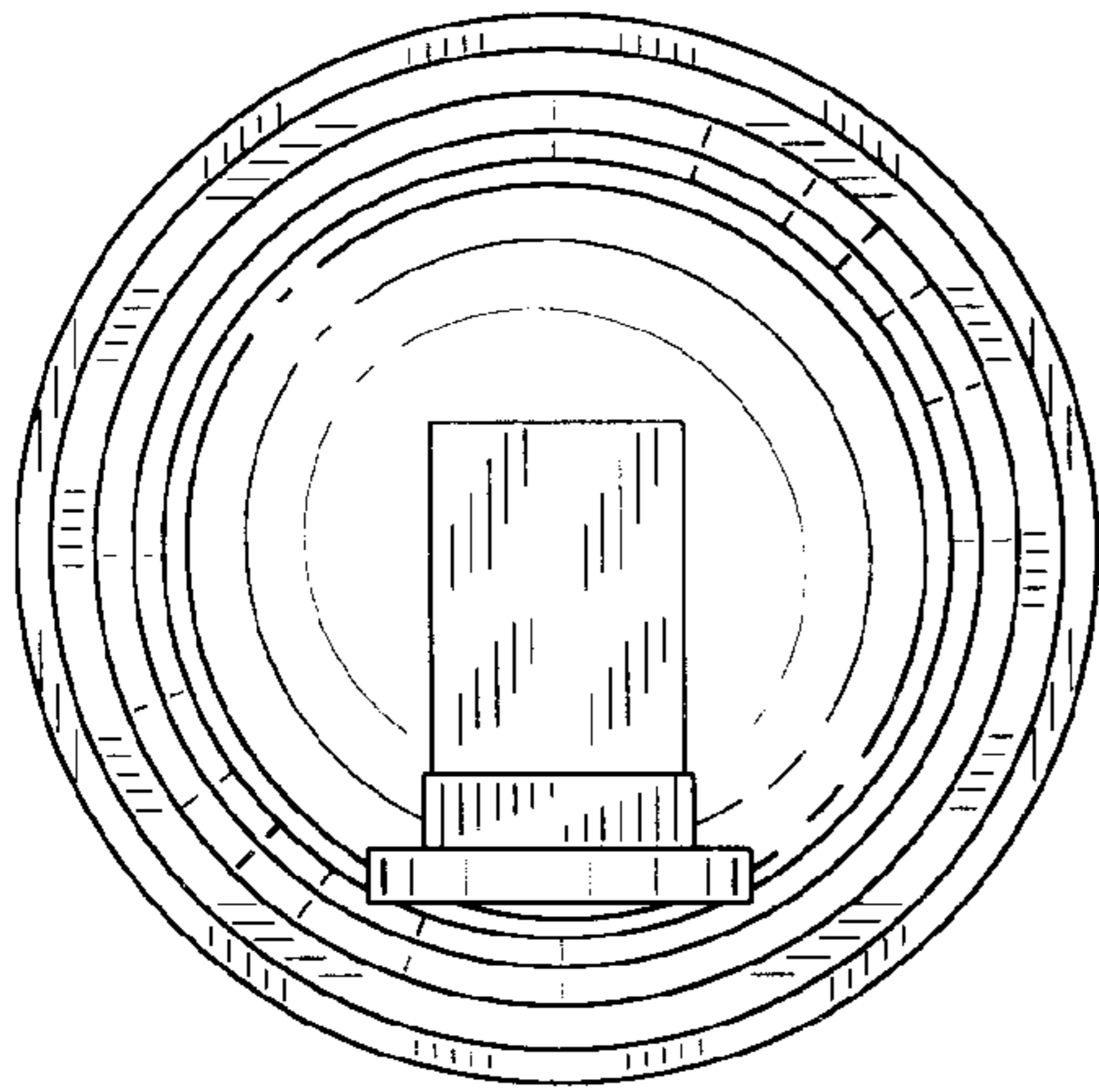


FIG. 12

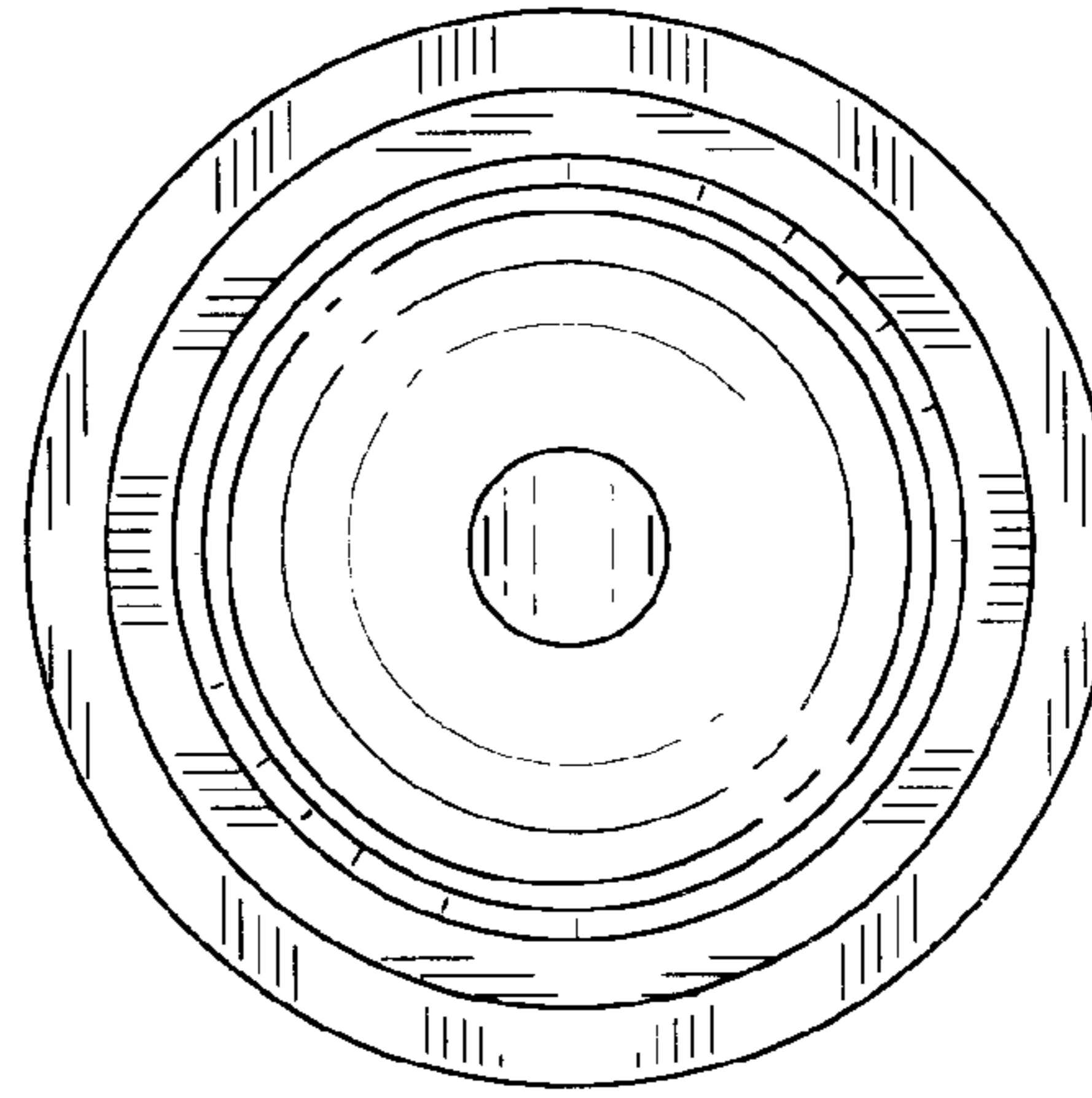


FIG. 13

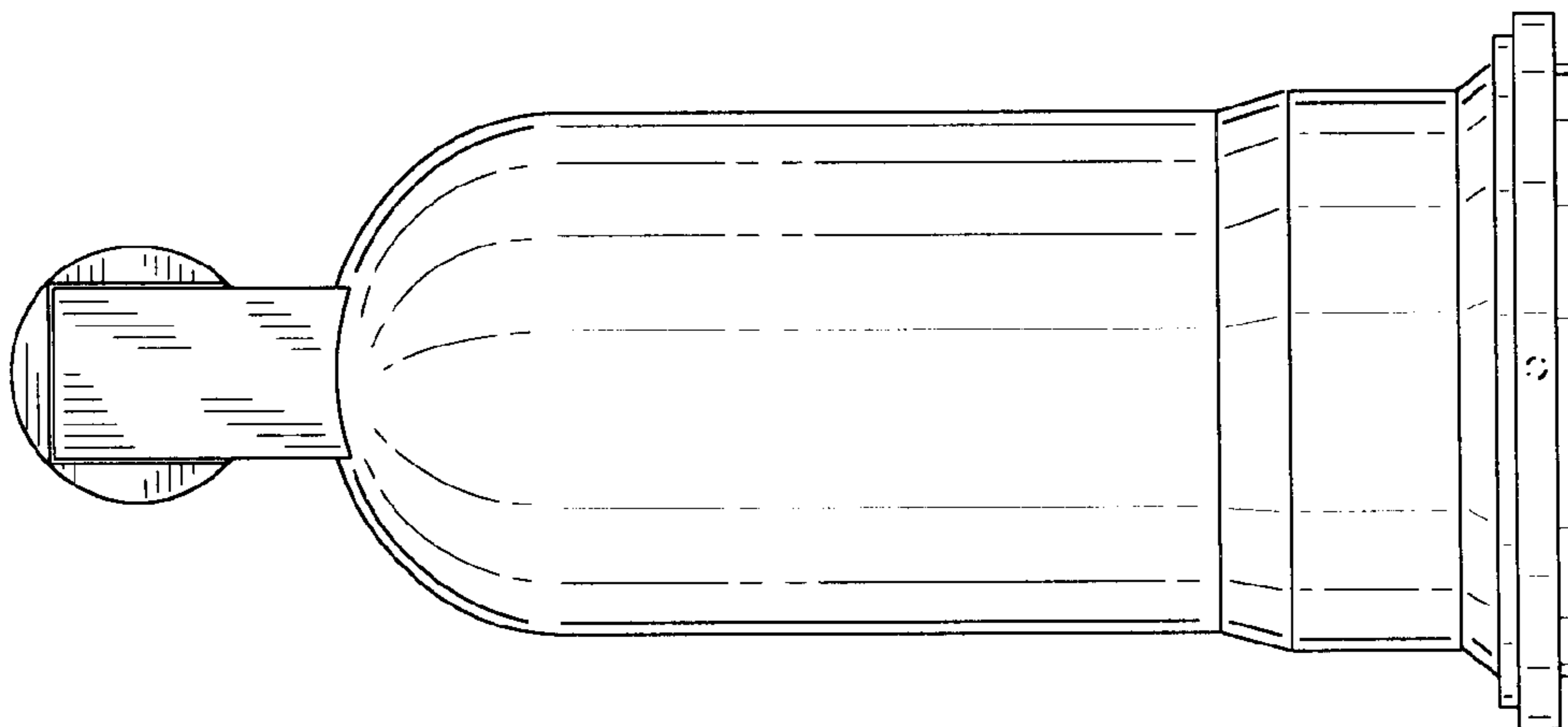


FIG. 11