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(12) **United States Design Patent** (10) **Patent No.:** **US D499,746 S**  
**Suehiro et al.** (45) **Date of Patent:** **\*\* Dec. 14, 2004**

(54) **GAS GENERATOR FOR AN AIR BAG SYSTEM**

(75) Inventors: **Akihiko Suehiro**, Himeji (JP);  
**Takayoshi Dosai**, Himeji (JP); **Tetsuo Saito**, Himeji (JP)

(73) Assignee: **Nippon Kayaku Kabushiki Kaisha**,  
Tokyo (JP)

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

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(30) **Foreign Application Priority Data**

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May 22, 2003	(JP)	2003-014164
May 22, 2003	(JP)	2003-014165

(51) **LOC (7) Cl.** ..... **15-02**

(52) **U.S. Cl.** ..... **D15/9**

(58) **Field of Search** ..... D15/7-9; 417/321,  
417/410, 413.1, 415, 423.3, 486, 521, 534;  
415/148

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,934,984	A *	1/1976	Marlow et al.	422/166
3,958,949	A *	5/1976	Plantif et al.	422/166
4,923,212	A *	5/1990	Cuevas	280/736
5,106,119	A *	4/1992	Swann et al.	280/731
5,346,251	A *	9/1994	Burnard et al.	280/737
5,488,118	A *	1/1996	Koshigoe et al.	549/518
5,547,213	A *	8/1996	Lang et al.	280/728.2
5,582,428	A *	12/1996	Buchanan et al.	280/741
6,056,319	A *	5/2000	Ruckdeschel et al.	280/741
6,328,332	B1 *	12/2001	Schutz	280/728.2
6,435,540	B1 *	8/2002	Durre	280/728.2
6,540,256	B2 *	4/2003	Iwai et al.	280/736

\* cited by examiner

*Primary Examiner*—Ralf Seifert

(74) *Attorney, Agent, or Firm*—Oblon, Spivak, McClelland,  
Maier & Neustadt, P.C.

(57) **CLAIM**

The ornamental design for a gas generator for an air bag system, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevation view of a gas generator for an air bag system showing our design, the rear elevational view being an mirror image of the front view shown;

FIG. 2 is a right side elevational view therefore, the left side elevational view being a mirror image of the side view shown;

FIG. 3 is a top plan view thereof;

FIG. 4 is a bottom plan view thereof;

FIG. 5 is a cross-sectional view taken in the direction of the arrows along line 5—5 of FIG. 3;

FIG. 6 is a cross-sectional view taken in the direction of the arrows along line 6—6 of FIG. 3;

FIG. 7 is a front elevational view of a second embodiment thereof, the rear elevational view being a mirror image of the front view shown;

FIG. 8 is a right side elevational view thereof, the left side elevational view being a mirror image of the side view shown;

FIG. 9 is a top plan view thereof;

FIG. 10 is a bottom plan view thereof;

FIG. 11 is a cross-sectional view taken in the direction of the arrows along line 11—11 of FIG. 9;

FIG. 12 is a cross-sectional view taken in the direction of the arrows along line 12—12 of FIG. 9;

FIG. 13 is a front elevational view of a third embodiment thereof, the rear elevational view being a mirror image of the view shown;

FIG. 14 is a right side elevational view thereof, the left side elevational view being a mirror image of the side view shown;

FIG. 15 is a top plan view thereof;

FIG. 16 is a bottom plan view thereof;

FIG. 17 is a cross-sectional view taken in the direction of the arrows along line 17—17 of FIG. 15;

FIG. 18 is a cross-sectional view taken in the direction of the arrows along line 18—18 of FIG. 15;

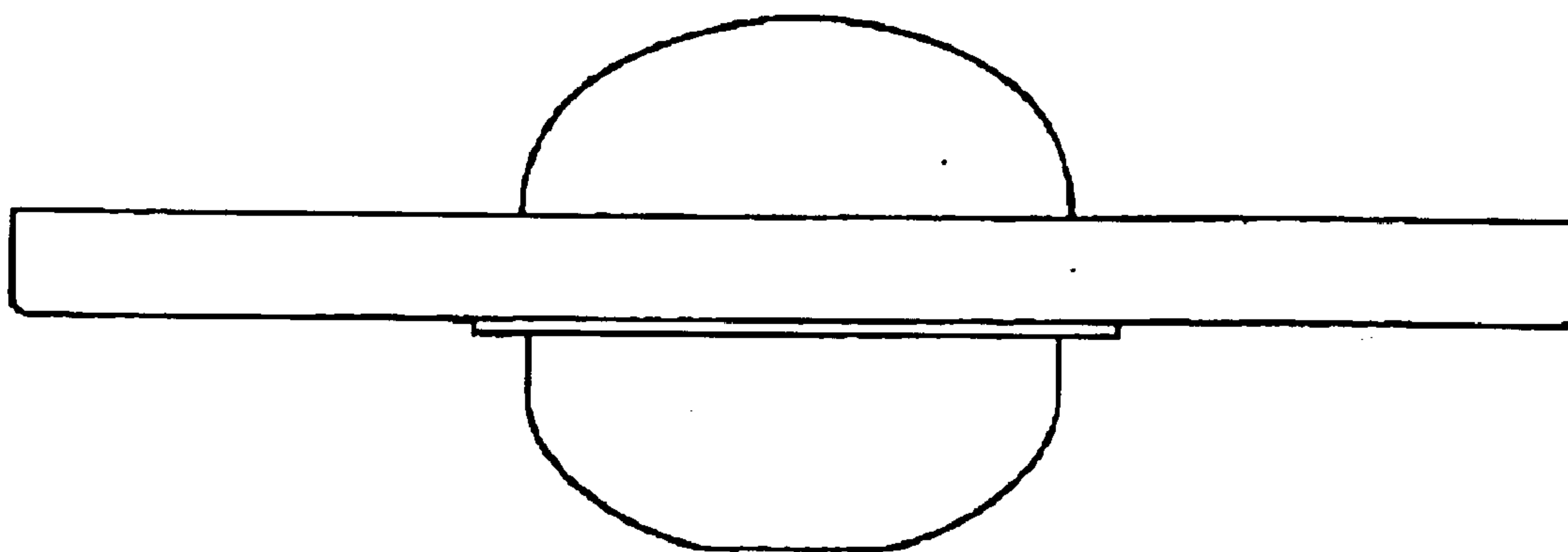


FIG. **19** is a front elevational view of a fourth embodiment thereof, the rear elevational view being a mirror image of the front view shown;

FIG. **20** is a right side elevational view thereof, the left side elevational view being a mirror image of the side view shown;

FIG. **21** is a top plan view thereof;

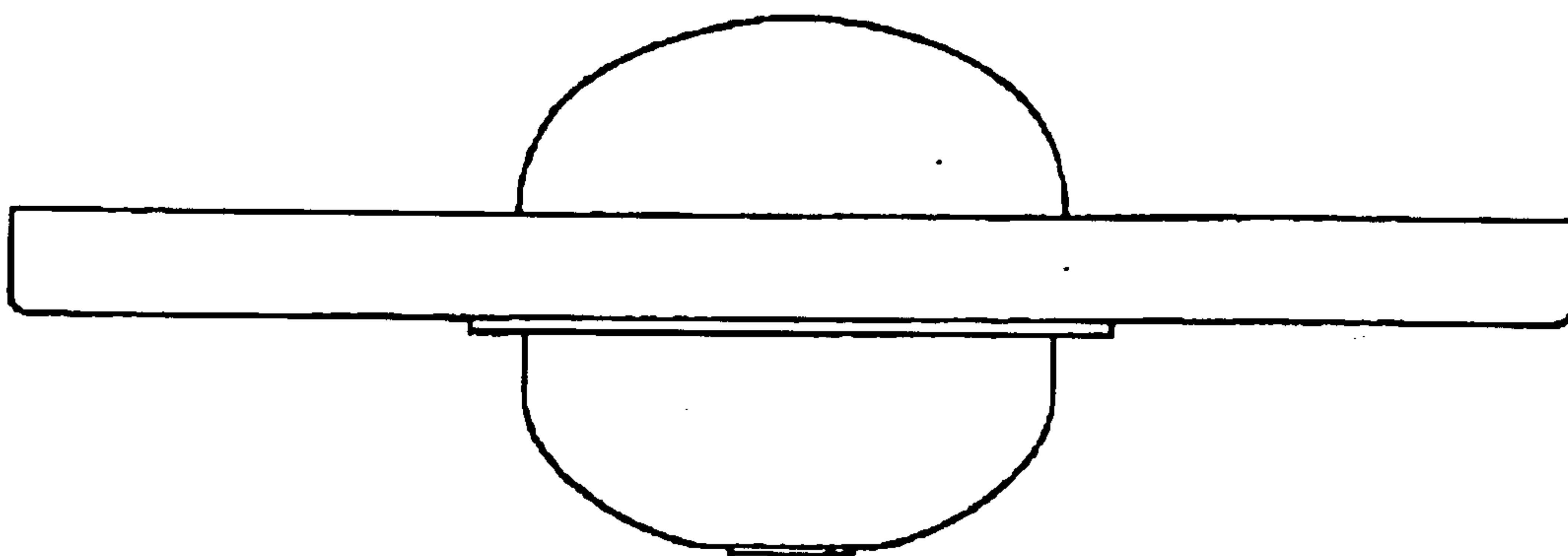
FIG. **22** is a bottom plan view thereof;

FIG. **23** is a cross-sectional view taken in the direction of the arrows along line **23—23** of FIG. **21**; and,

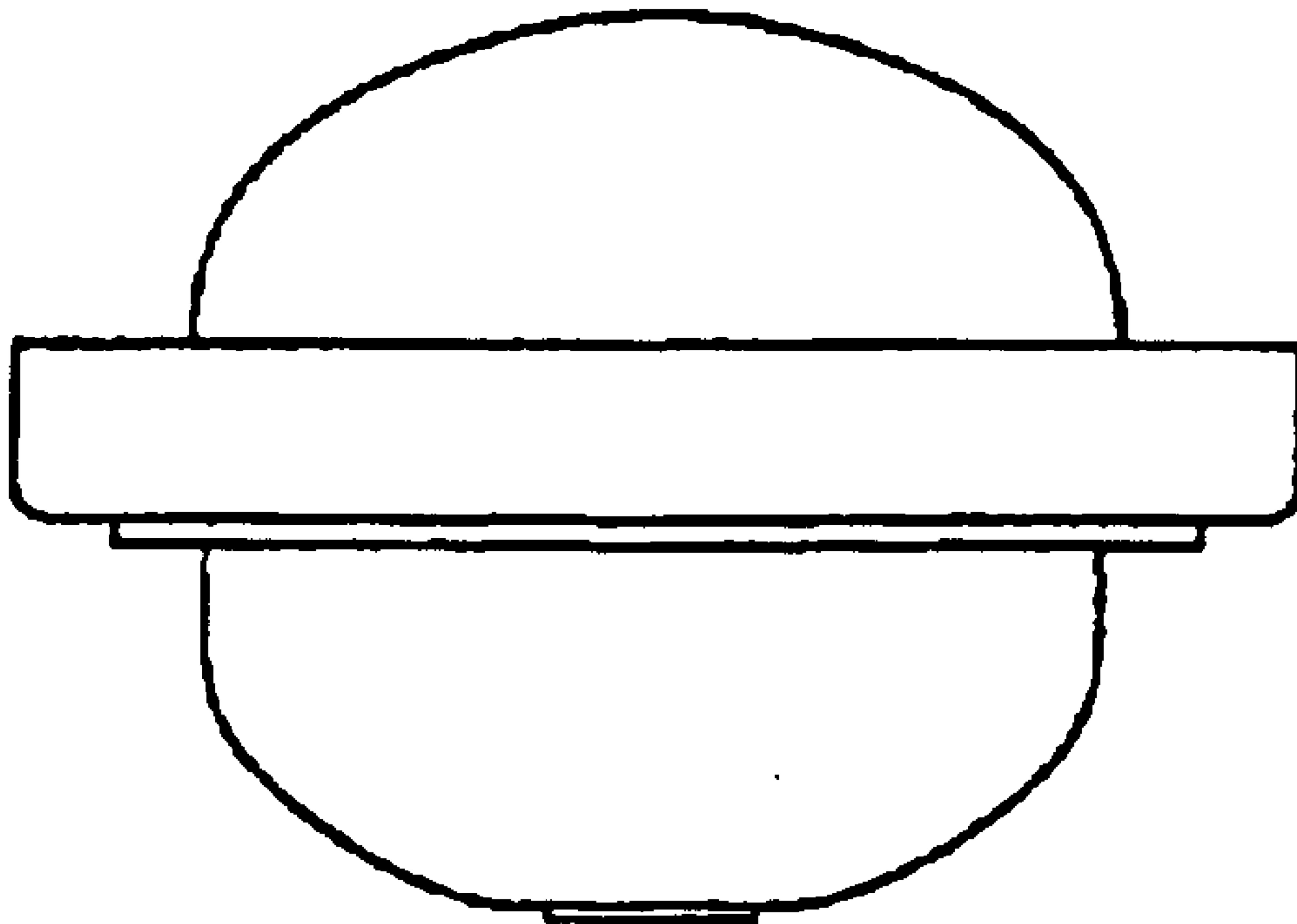
FIG. **24** is a cross-sectional view taken in the direction of the arrows along line **24—24** of FIG. **21**.

**1 Claim, 24 Drawing Sheets**

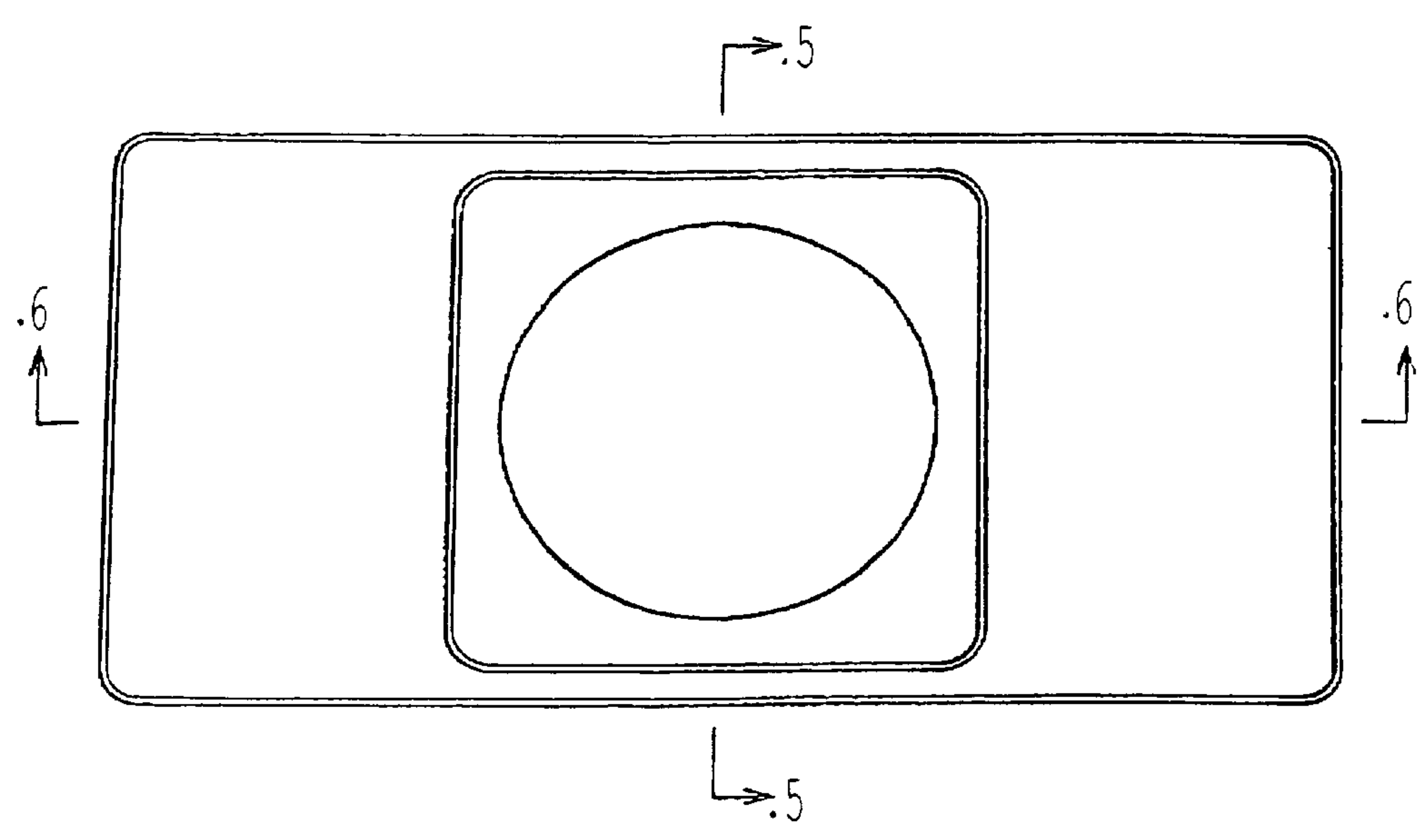
***FIG. 1***



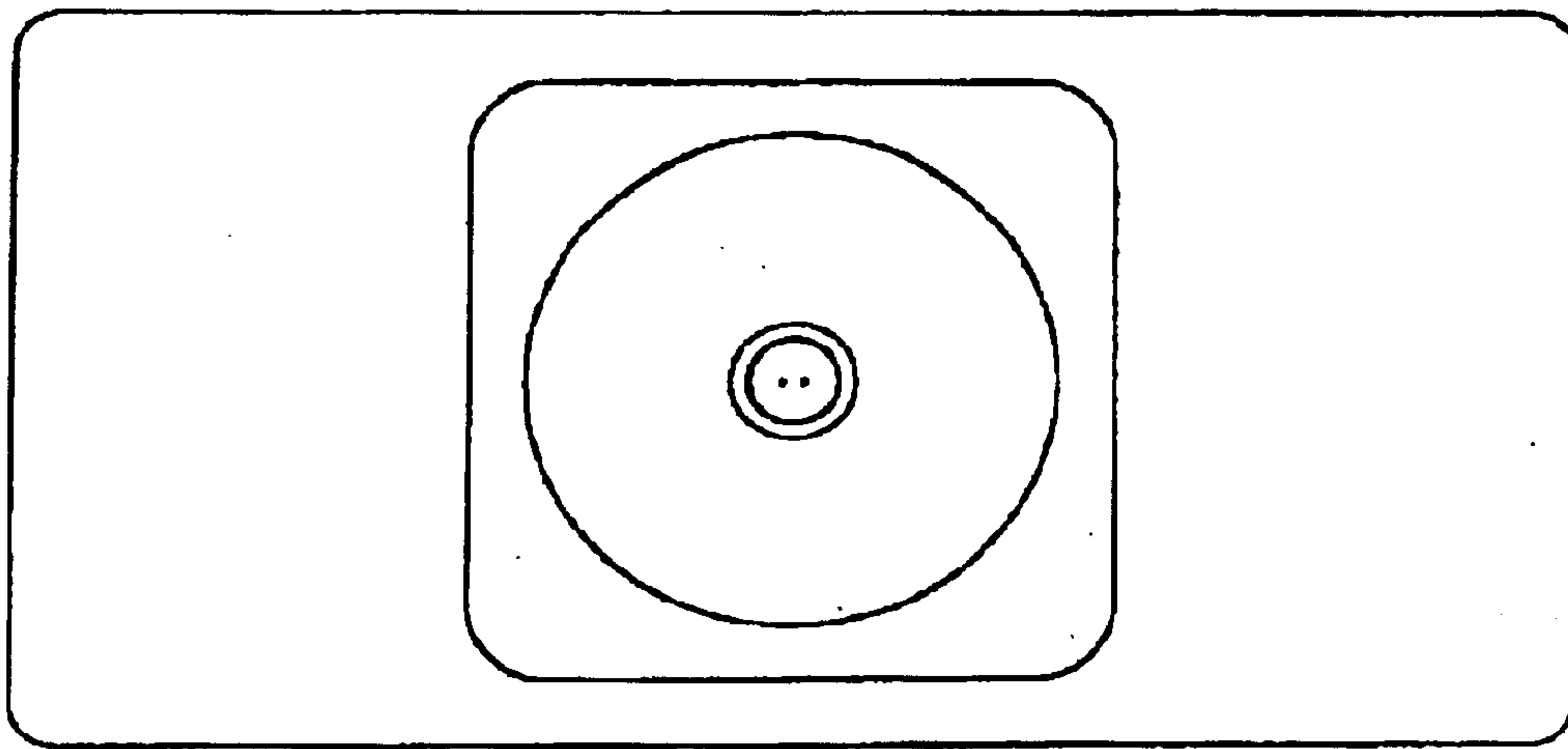
***FIG.2***



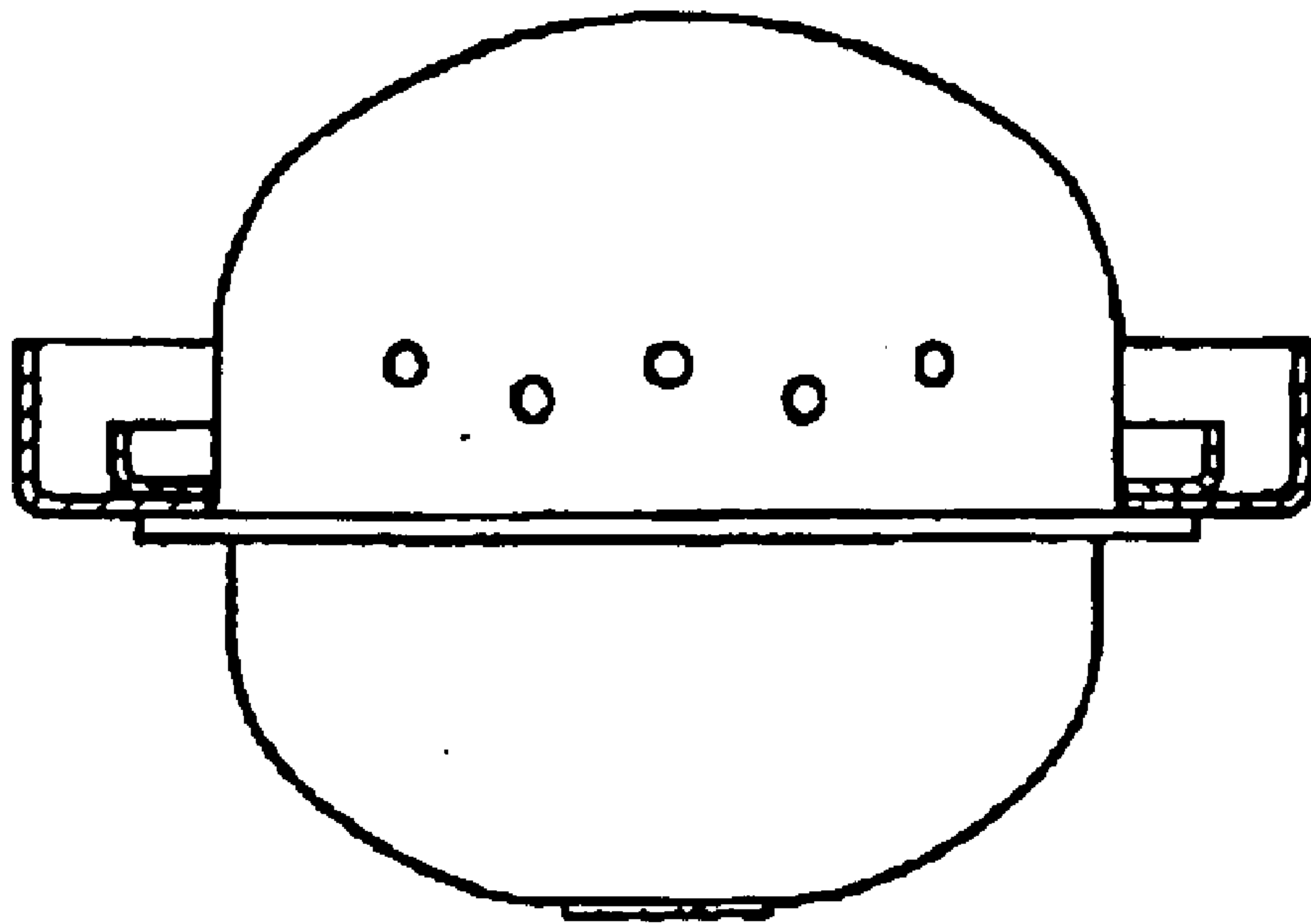
*FIG.3*



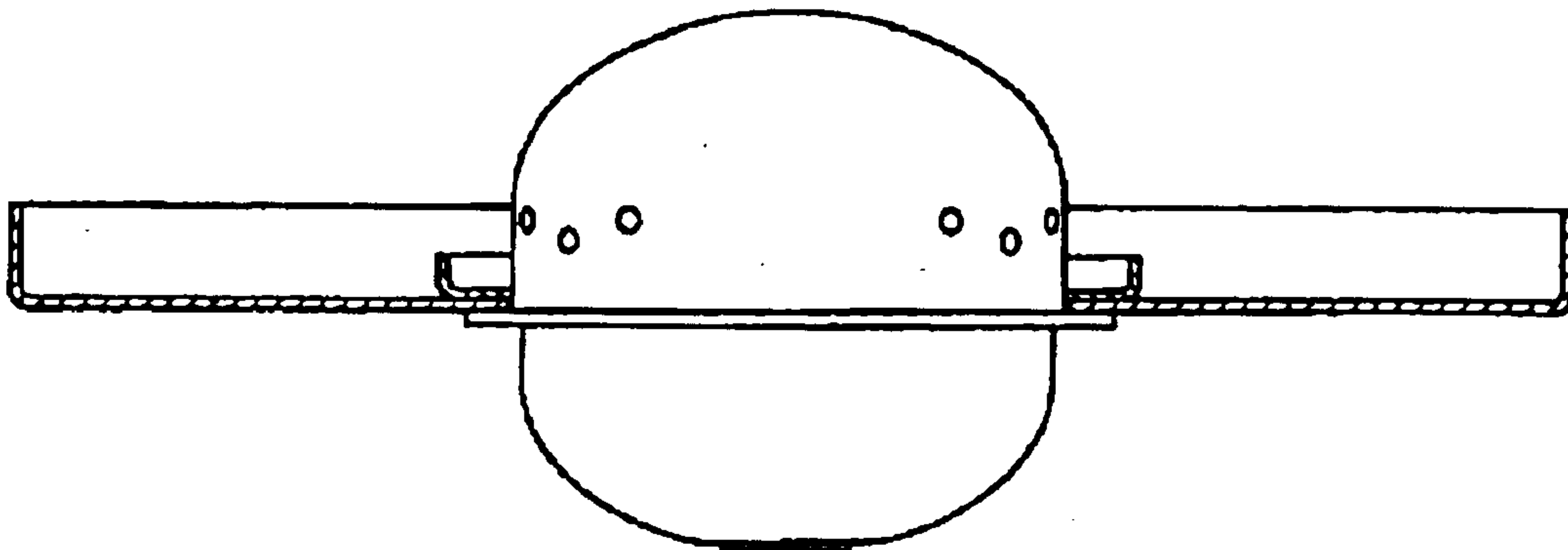
***FIG.4***



***FIG. 5***

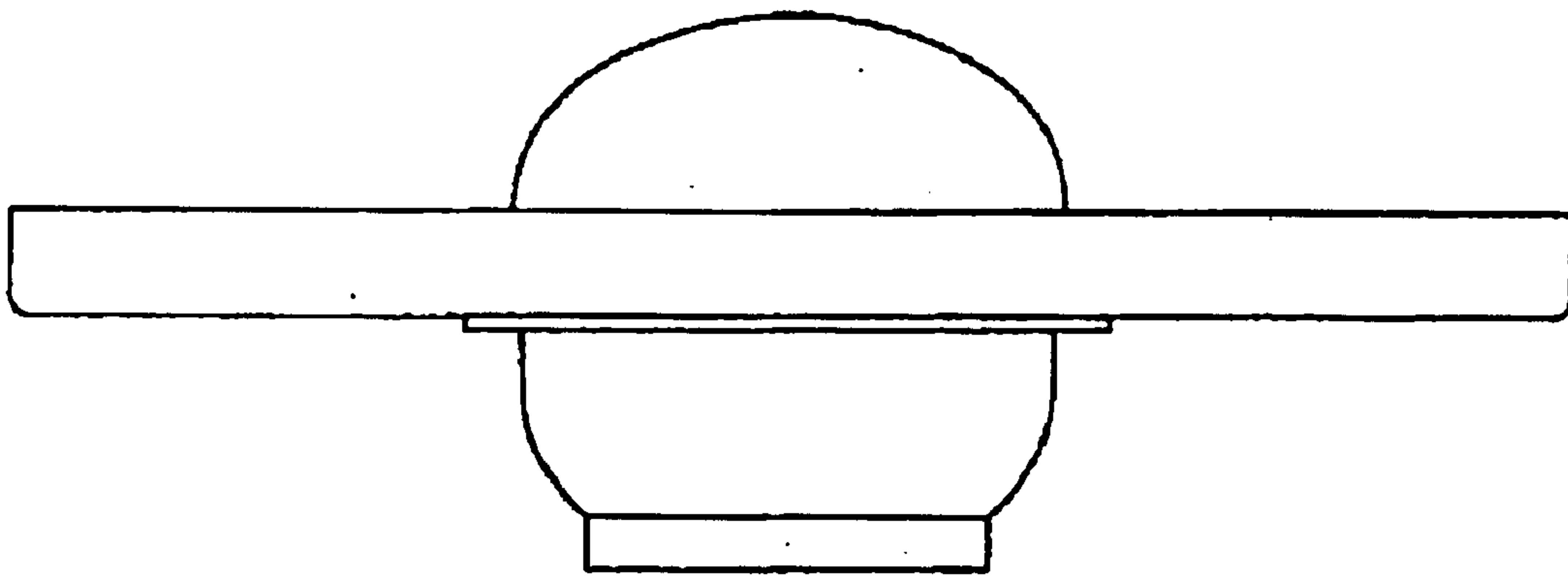


***FIG. 6***

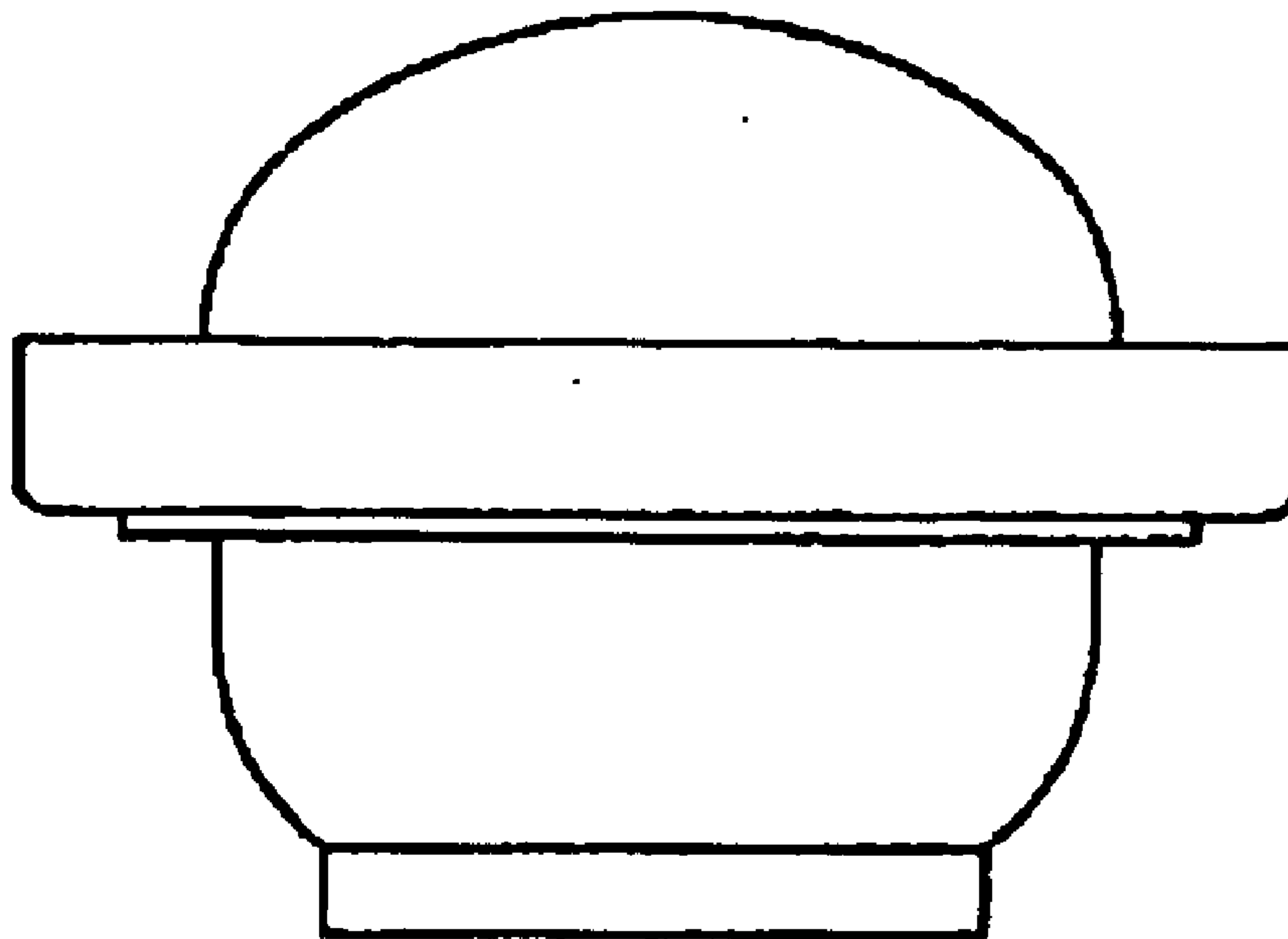




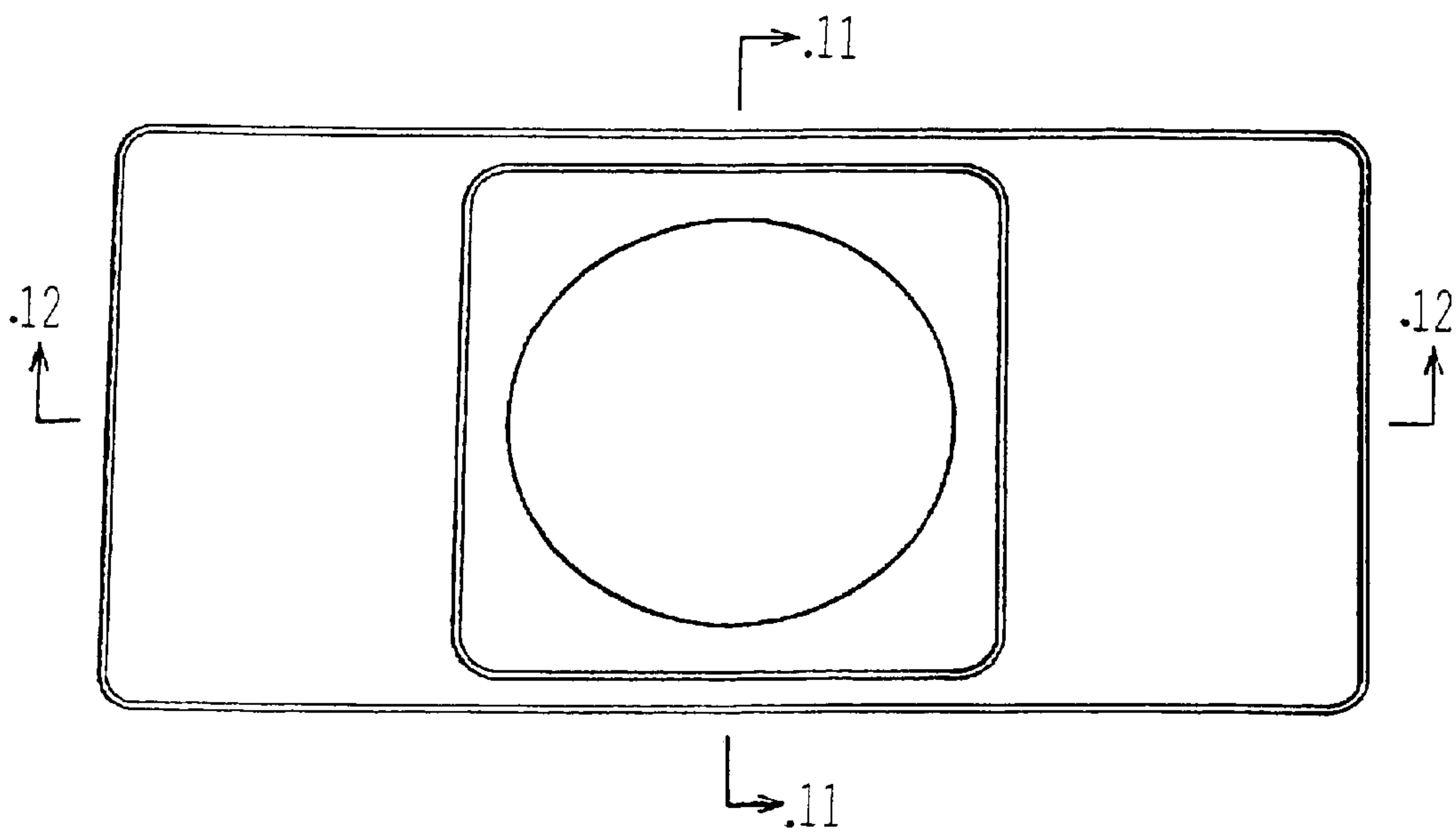
***FIG. 7***



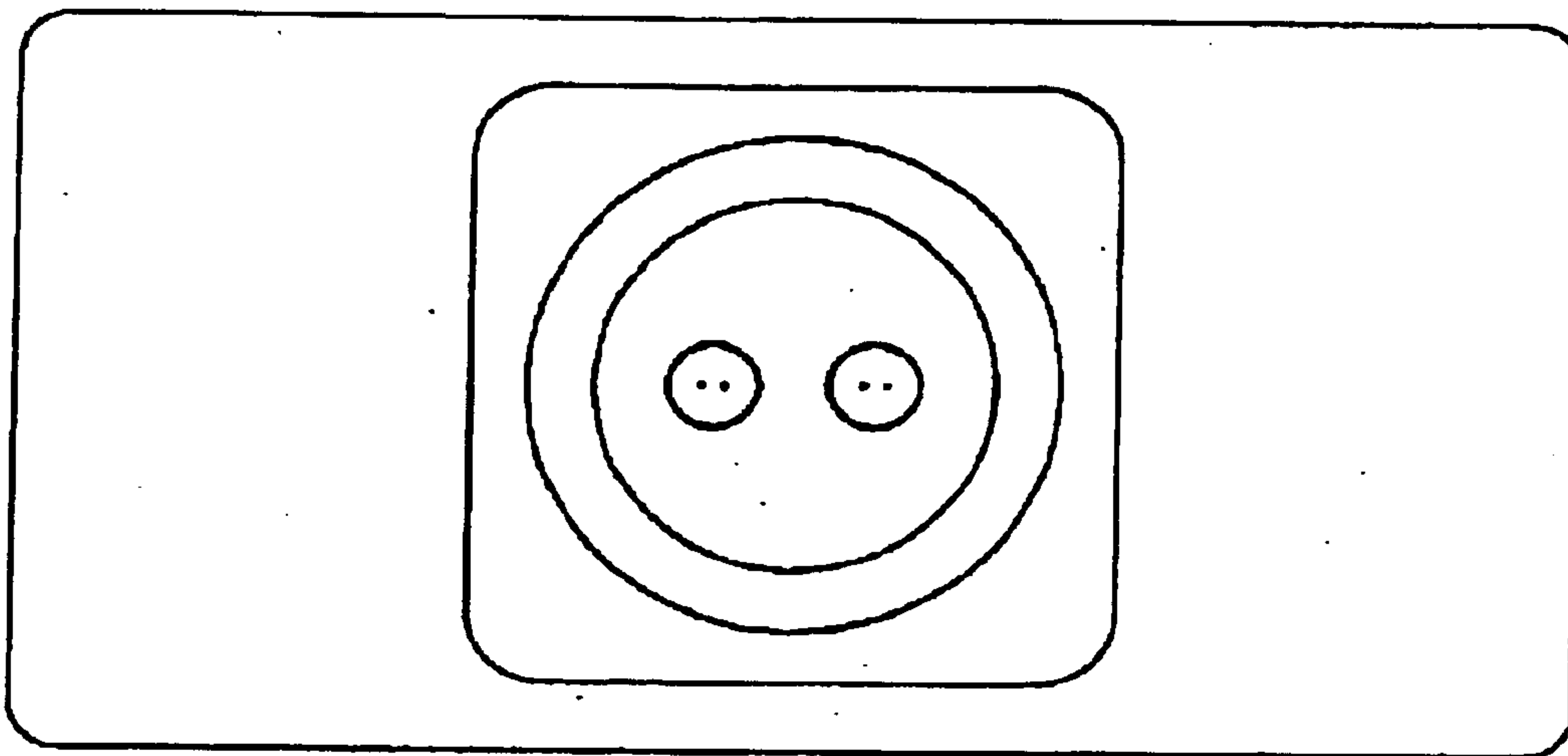
***FIG. 8***



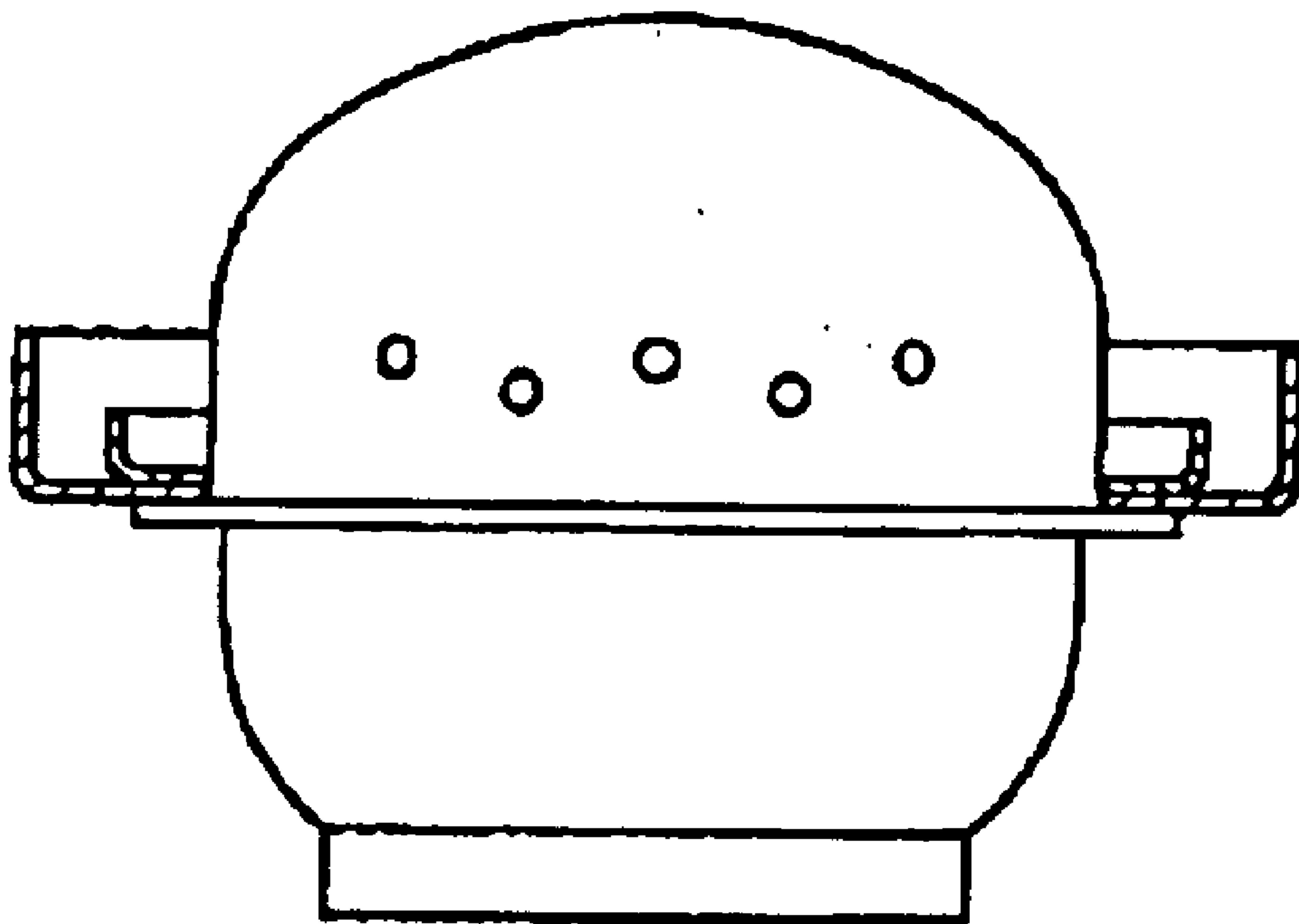
*FIG. 9*



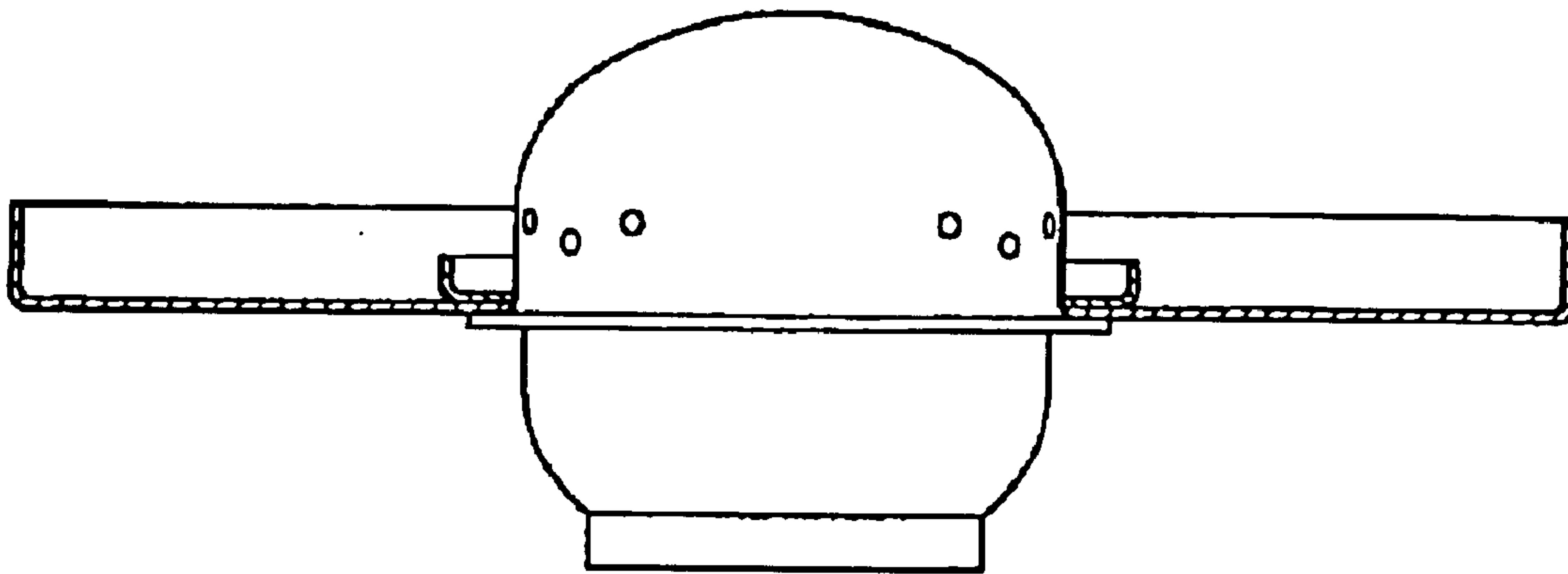
***FIG. 10***



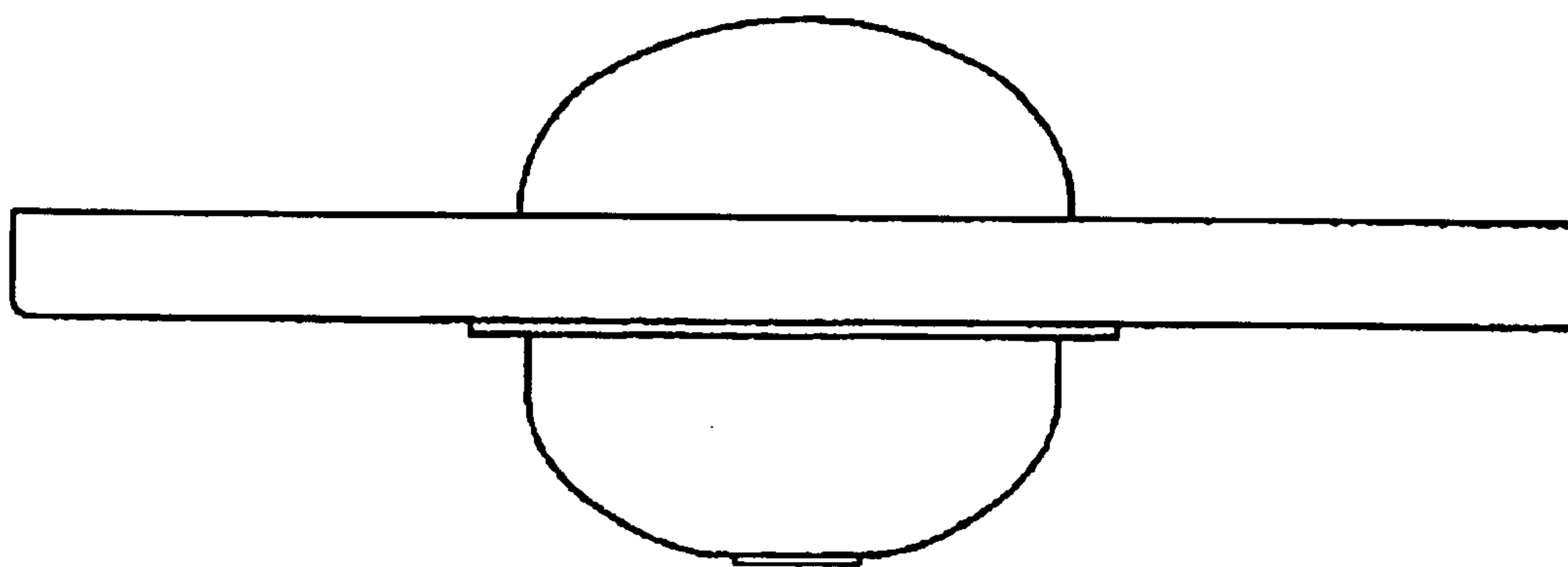
***FIG. 11***



***FIG. 12***



***FIG. 13***



***FIG. 14***

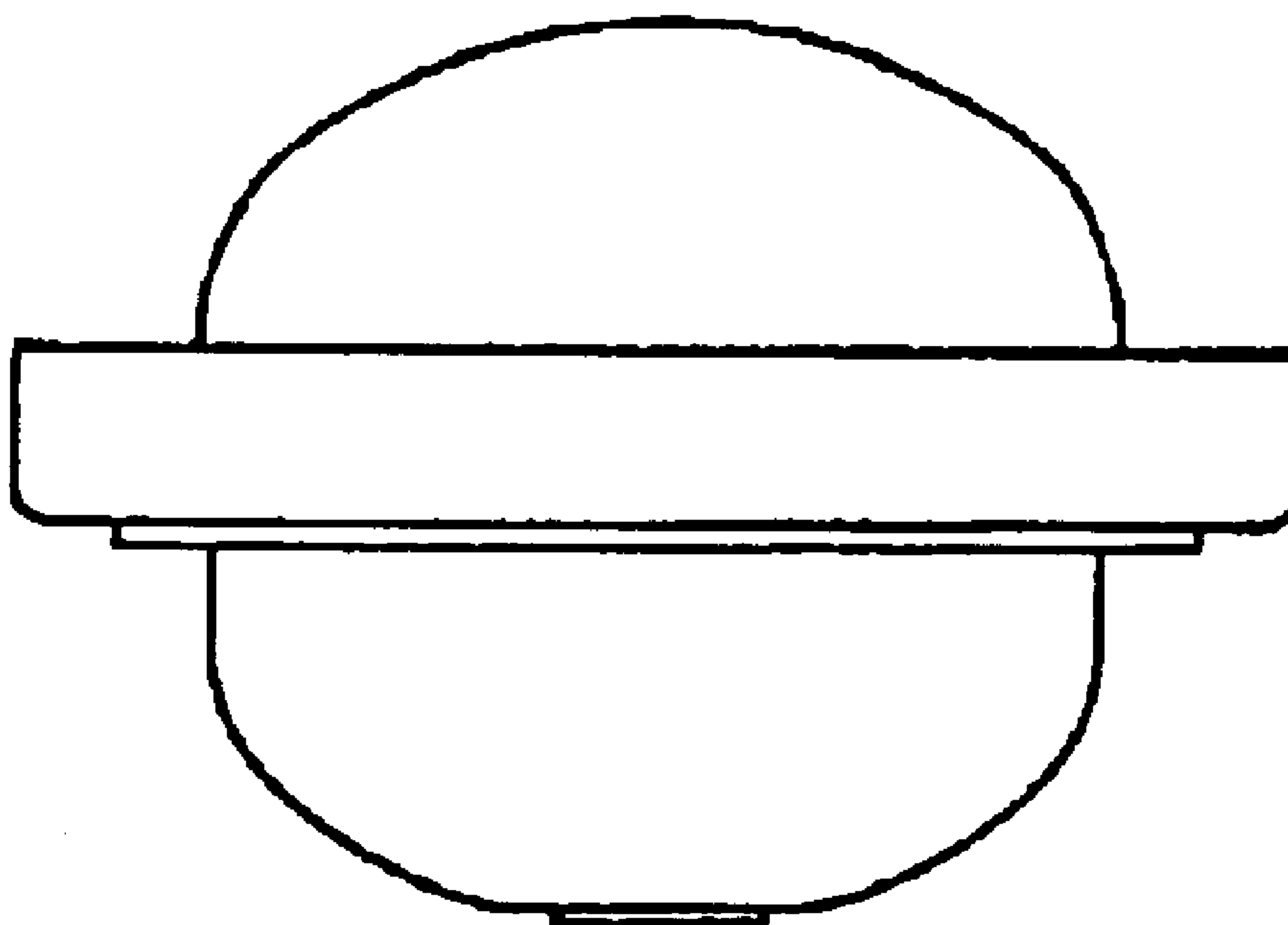




FIG. 15

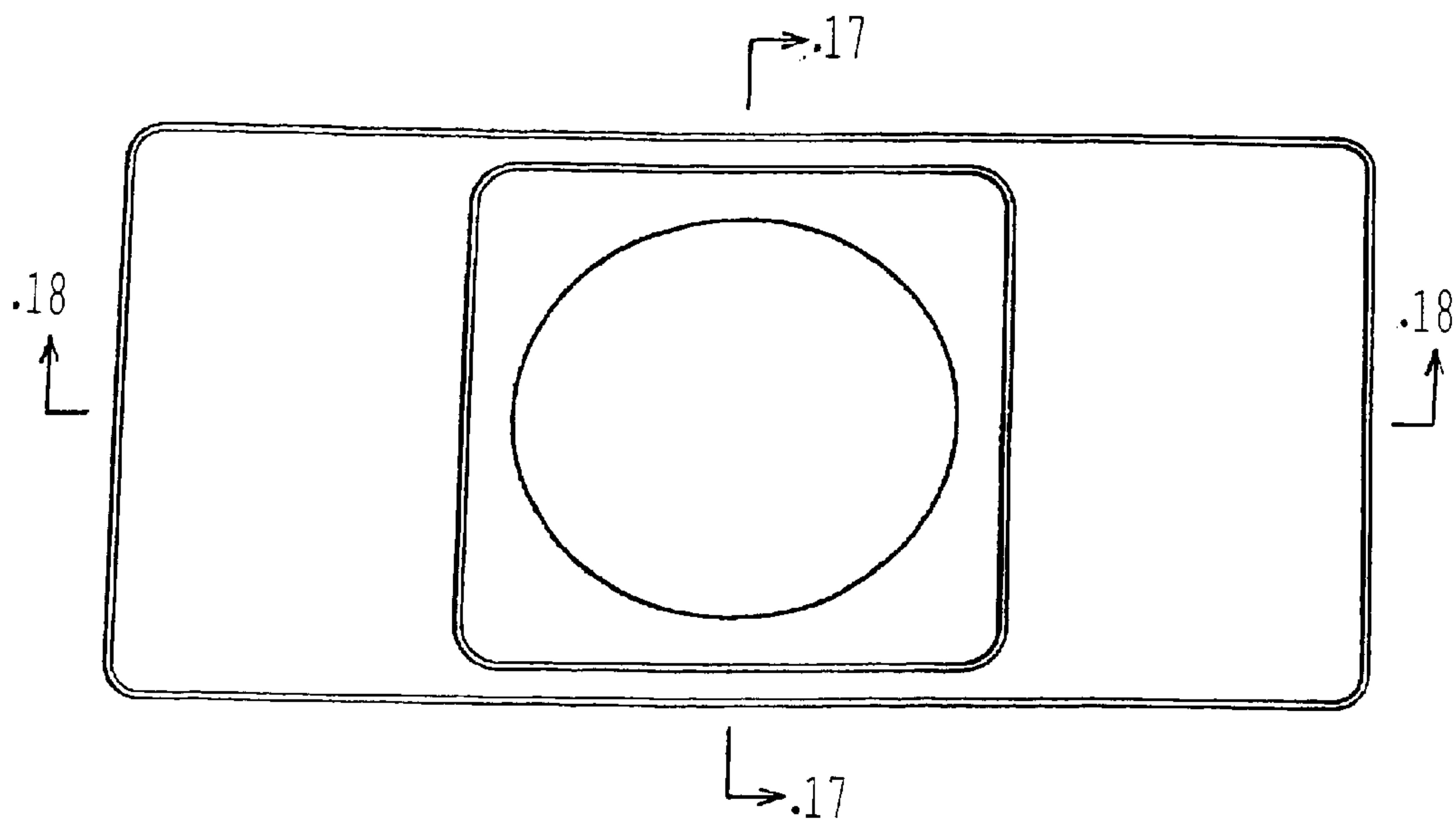


FIG.16

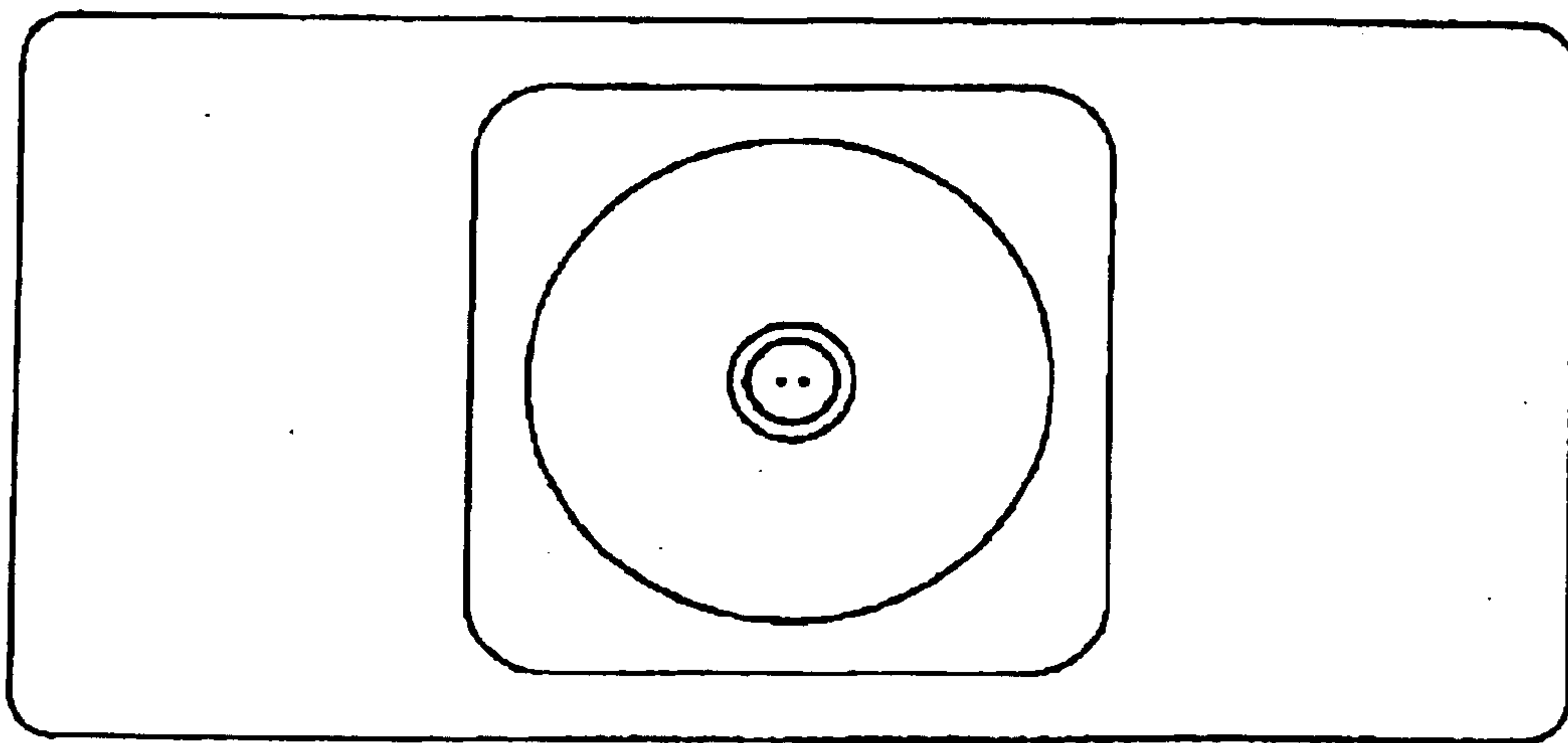


FIG.17

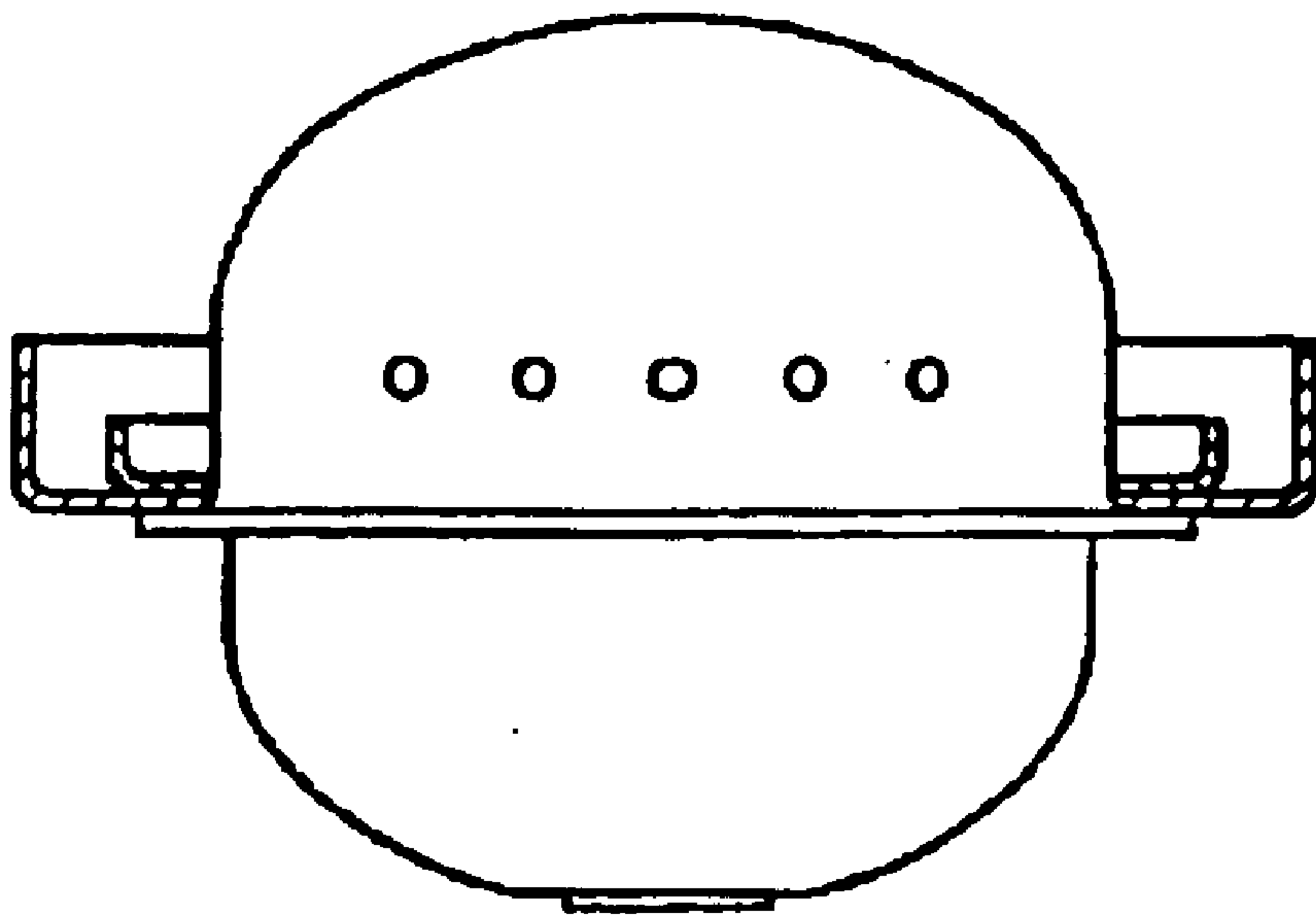


FIG.18

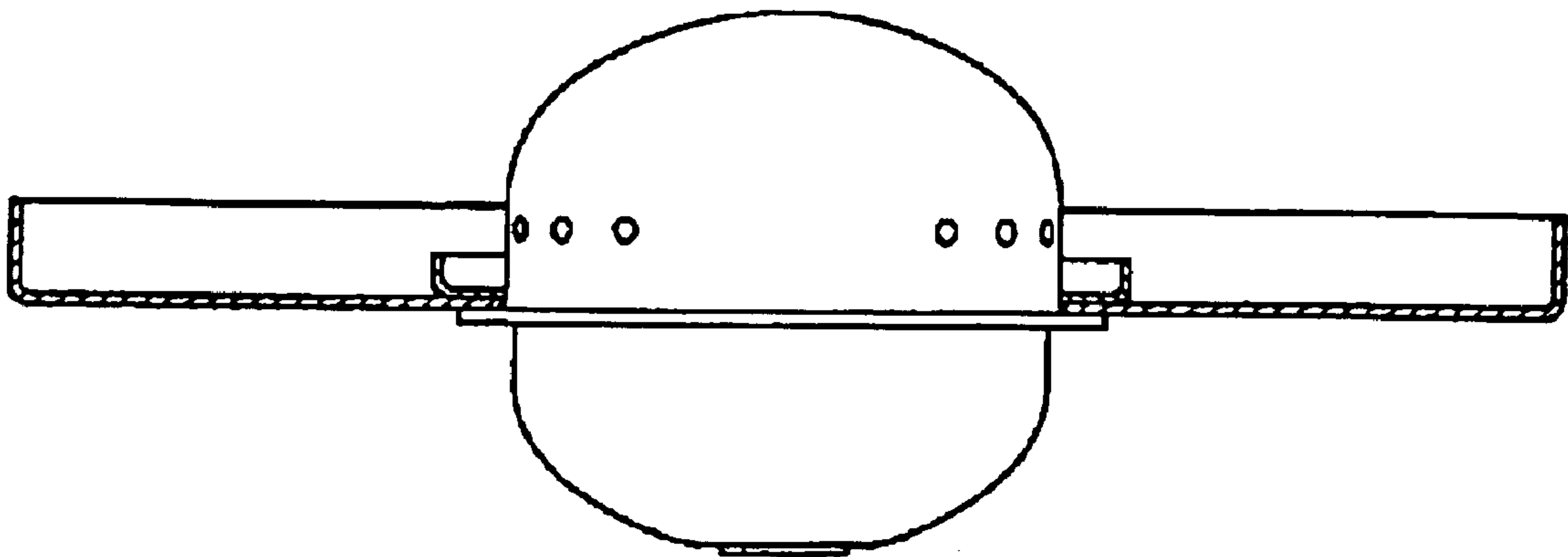


FIG.19

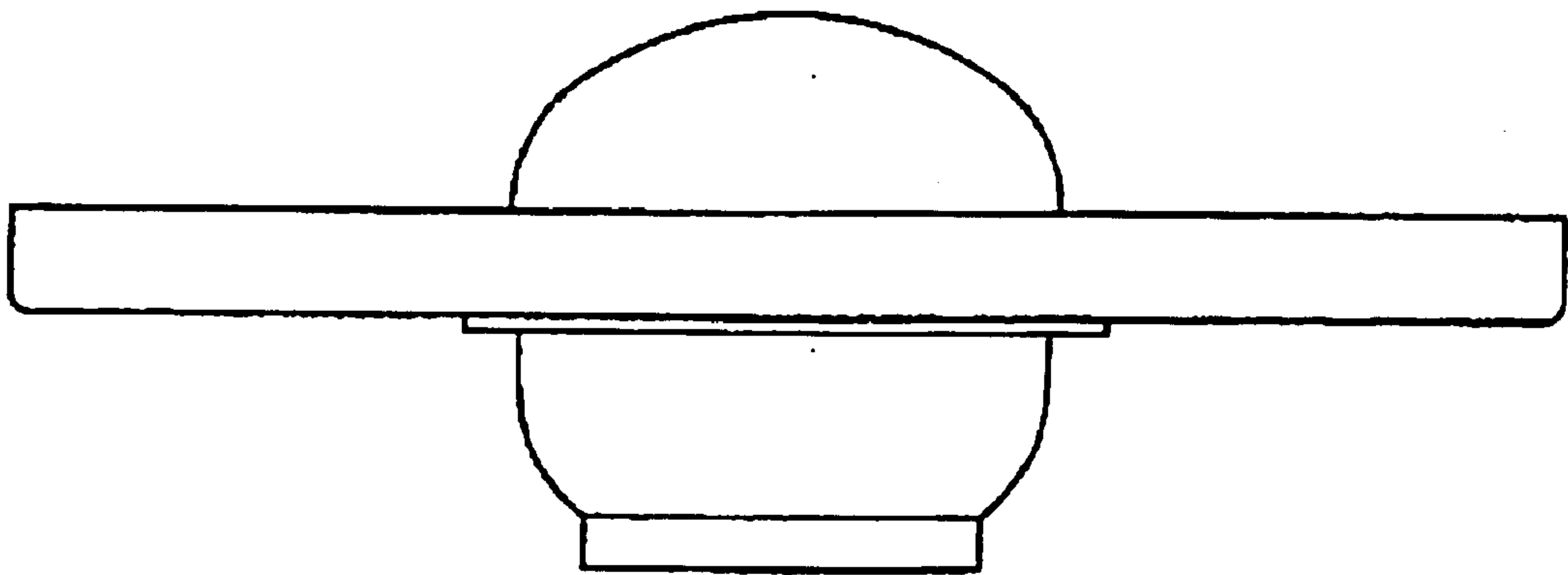


FIG. 20

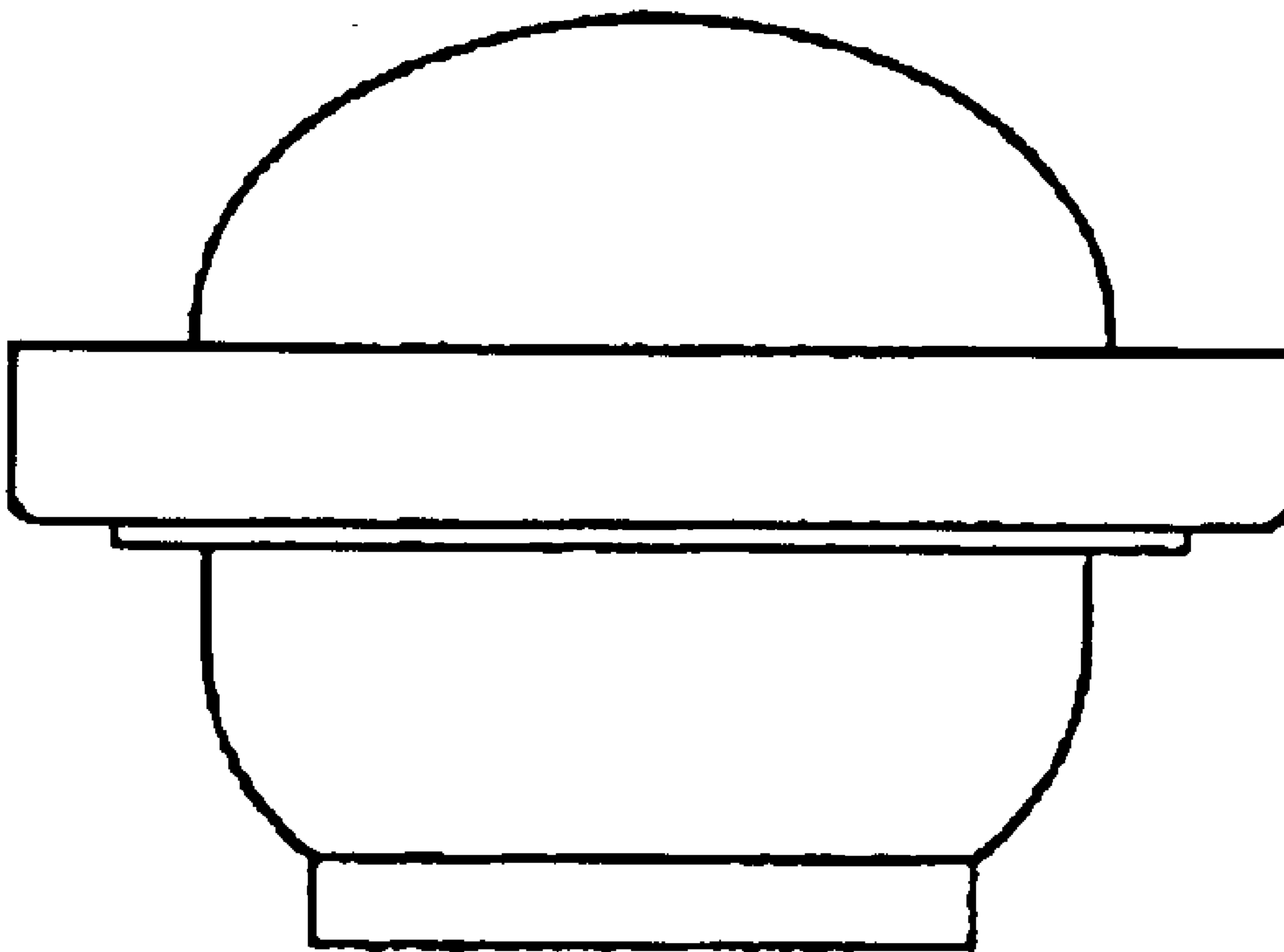


FIG.21

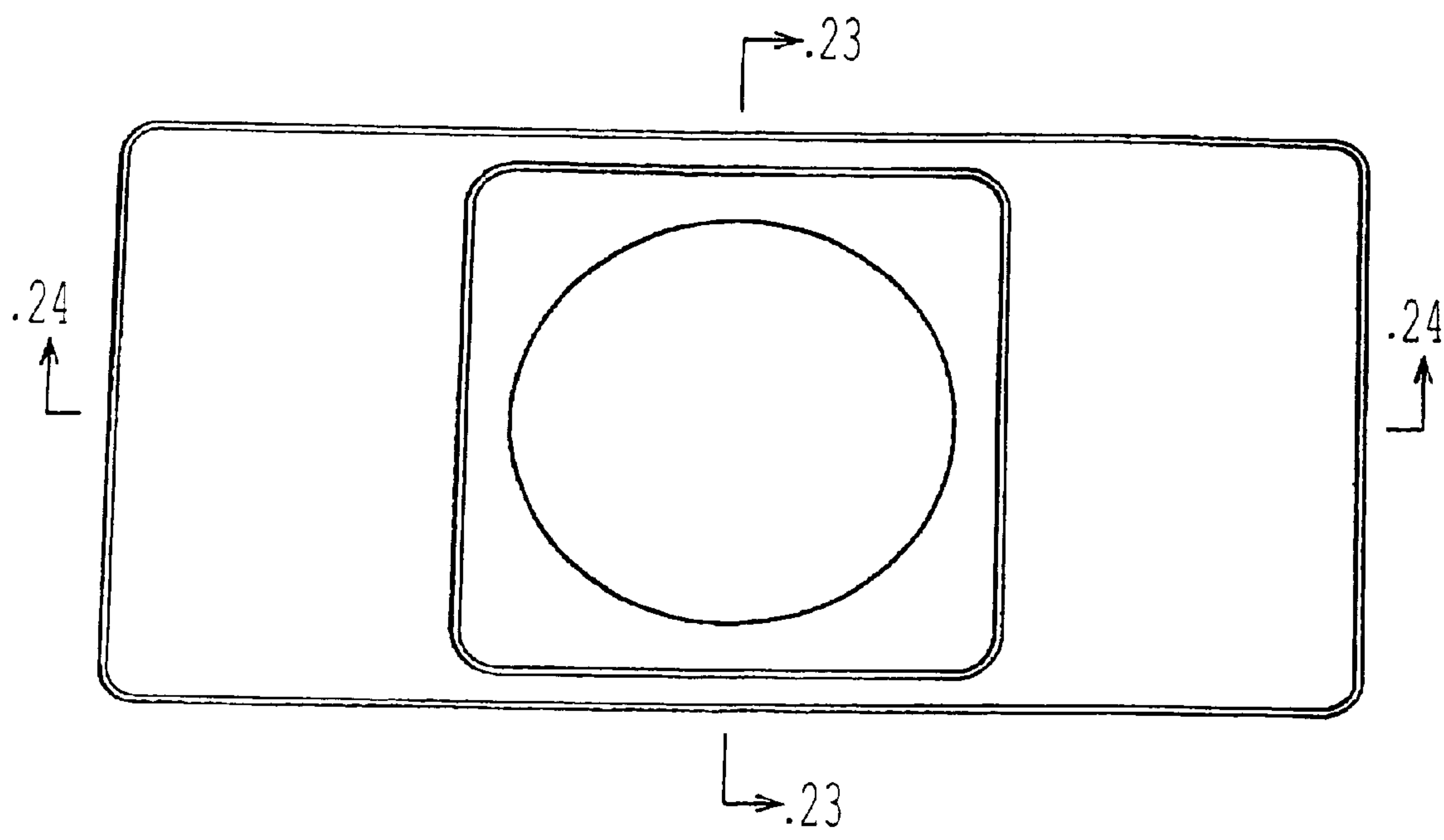


FIG.22

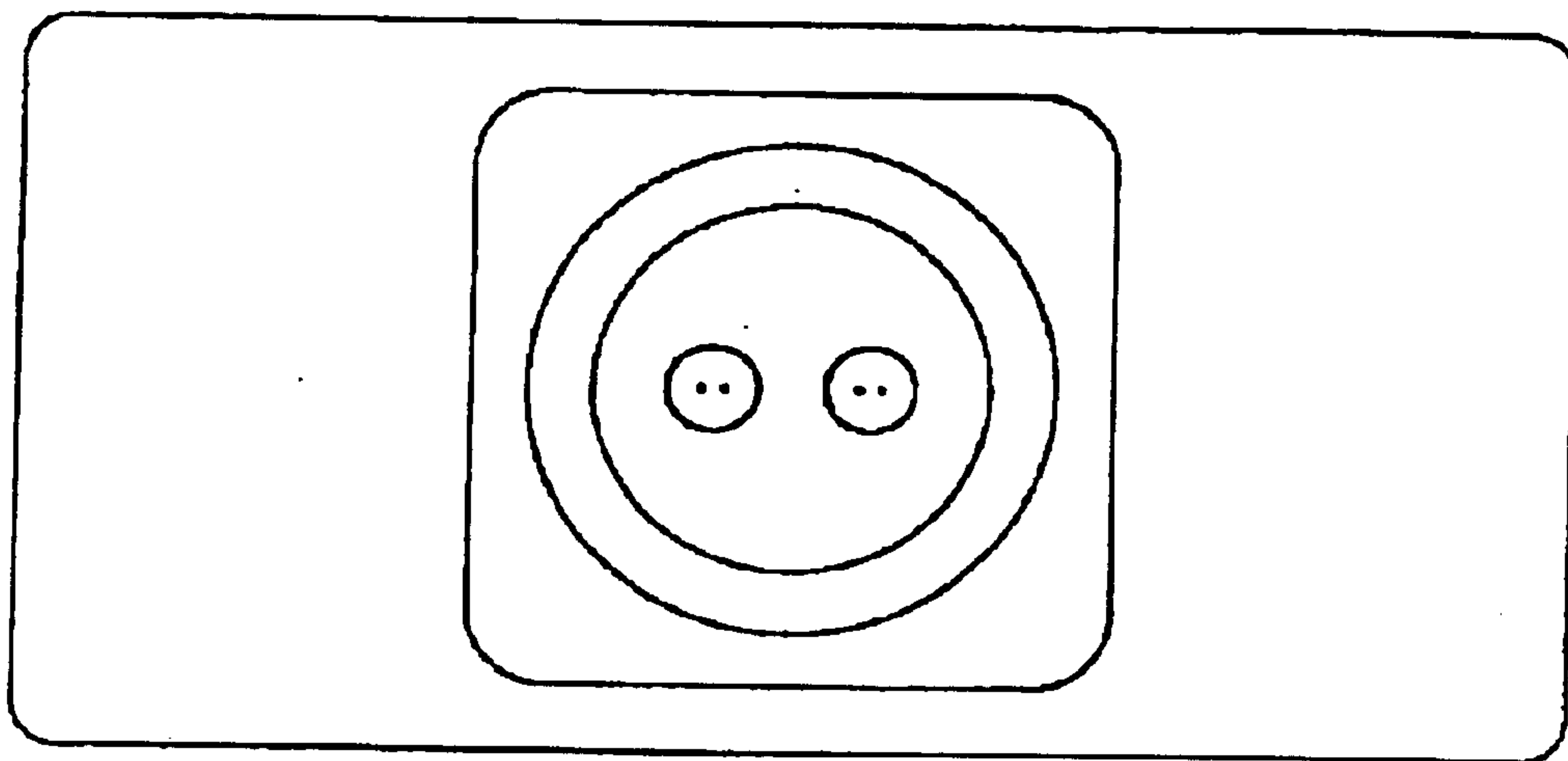




FIG.23

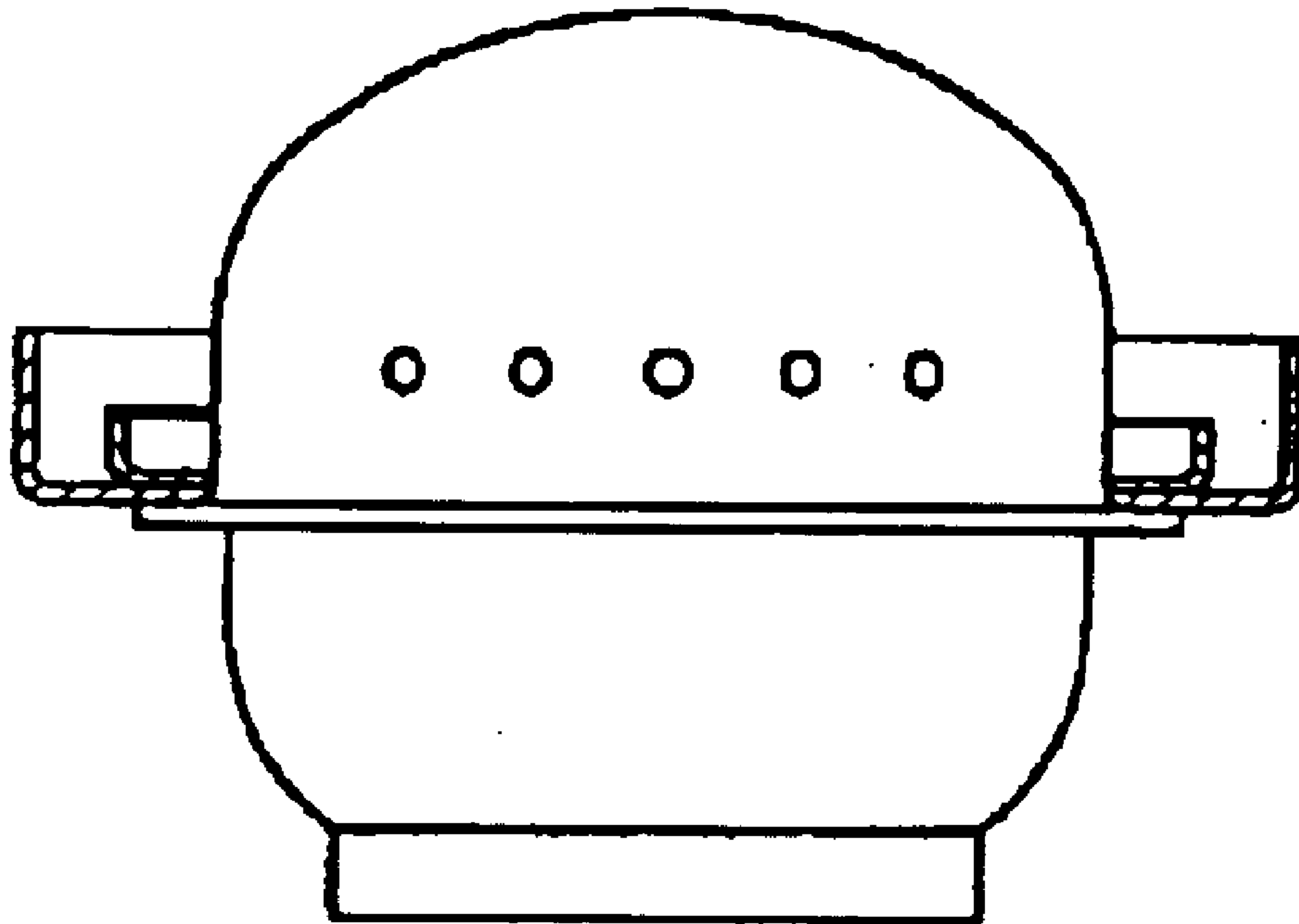


FIG.24

