



US00D376550S

United States Patent [19]

[11] Patent Number: **Des. 376,550**

Sims et al.

[45] Date of Patent: ****Dec. 17, 1996**

[54] DOUBLE-ENDED BOTTLE FOR CHROMATOGRAPHY

[75] Inventors: **Carl W. Sims**, St. Paul, Minn.; **Ralf Jutvik**, Onsala, Sweden

[73] Assignee: **Systec, Inc.**, Minneapolis, Minn.

[**] Term: **14 Years**

[21] Appl. No.: **49,689**

[22] Filed: **Jan. 29, 1996**

[52] U.S. Cl. **D10/81; D9/341; D24/224**

[58] Field of Search **D9/341, 347, 516, D9/517, 520, 523, 548, 559, 560, 561; D10/81; D24/216, 224, 227; 206/504, 509; 215/48, 252, 10, 228, 386, 395; 220/23.4, 23.6, 23.8; 222/143; 422/99-104**

[56] References Cited

U.S. PATENT DOCUMENTS

D. 202,287	9/1965	Picco	D9/347
D. 320,949	10/1991	Kopf	D10/81
D. 369,279	4/1996	Rothschild, III	D9/341 X
604,191	5/1898	Monnet .	
1,163,888	12/1915	Bye .	
3,945,523	3/1976	Wertlake et al. . .	

FOREIGN PATENT DOCUMENTS

92/08648 . 5/1992 WIPO .

Primary Examiner—Antoine Duval Davis

Attorney, Agent, or Firm—Haugen & Nikolai, P.A.

[57] CLAIM

The ornamental design for a double-ended bottle for chromatography, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of one preferred embodiment of the double-ended bottle for chromatography of the present invention shown in a two-bottle array;

FIG. 2 is a front elevational view of the preferred embodiment of FIG. 1;

FIG. 3 is a top plan view of the embodiment of FIG. 1;

FIG. 4 is a bottom plan view of the embodiment of FIG. 1; FIG. 5 is a side elevational view of the embodiment of FIG. 1, with the opposite side being a mirror image;

FIG. 6 is a perspective view of an alternative preferred embodiment of the double-ended bottle for chromatography of the present invention shown in a four-bottle array;

FIG. 7 is a side elevational view of the embodiment of FIG. 6;

FIG. 8 is a top plan view of the embodiment of FIG. 6;

FIG. 9 is a bottom plan view of the embodiment of FIG. 6;

FIG. 10 is a side elevational view of the embodiment of FIG. 6, with the opposite side being a mirror image;

FIG. 11 is a perspective view of an alternative embodiment of the double-ended bottle for chromatography of the present invention shown in a two-bottle array of smaller size to that shown in FIGS. 1-5;

FIG. 12 is a front elevational view of the embodiment of FIG. 11;

FIG. 13 is a top plan view of the embodiment of FIG. 11;

FIG. 14 a bottom plan view of the embodiment of FIG. 11;

FIG. 15 is a side elevational view of the embodiment of FIG. 11, with the opposite side being a mirror image;

FIG. 16 is a perspective view of an alternative embodiment of the double-ended bottle for chromatography of the present invention shown in a four-bottle array of a smaller size to that shown in FIGS. 6-10;

FIG. 17 is a side elevational view of the embodiment of FIG. 16;

FIG. 18 is a top plan view of the embodiment of FIG. 16;

FIG. 19 is a bottom plan view of the embodiment of FIG. 16;

FIG. 20 is a side elevational view of the embodiment of FIG. 16, with the opposite side being a mirror image;

FIG. 21 is a perspective view of an alternative preferred embodiment of the double-ended bottle for chromatography of the present invention shown in a four-bottle array of two different sizes similar to those illustrated in FIGS. 1-10 and 11-20;

FIG. 22 is a front elevational view of the embodiment of FIG. 21;

FIG. 23 is a top plan view of the embodiment of FIG. 21;

FIG. 24 is a bottom plan view of the embodiment of FIG. 21;

FIG. 25 is a side elevational view of the embodiment of FIG. 21, with the opposite side being a mirror image; and,

FIG. 26 is a rear elevational view of the embodiment of FIG. 21.

1 Claim, 16 Drawing Sheets

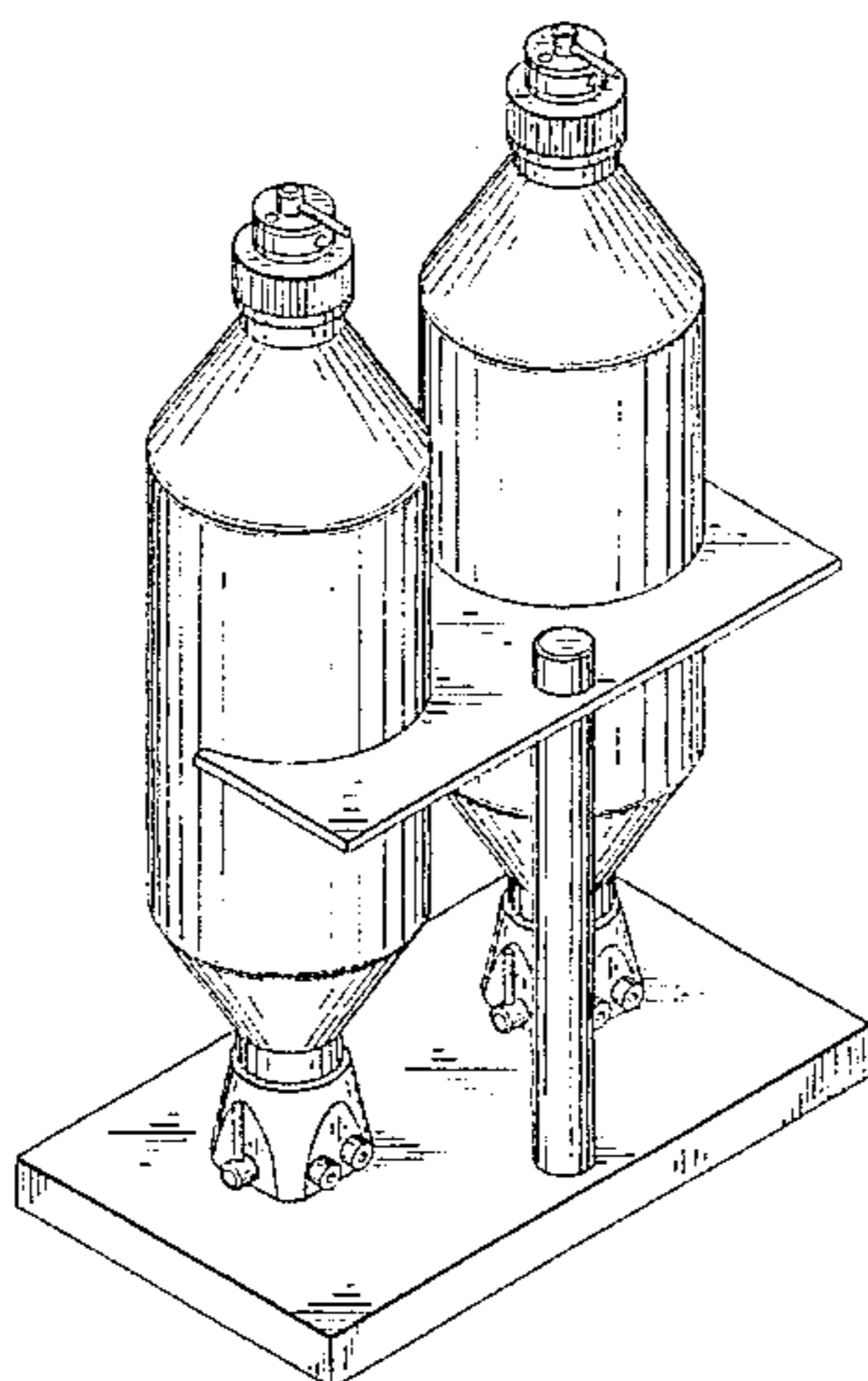
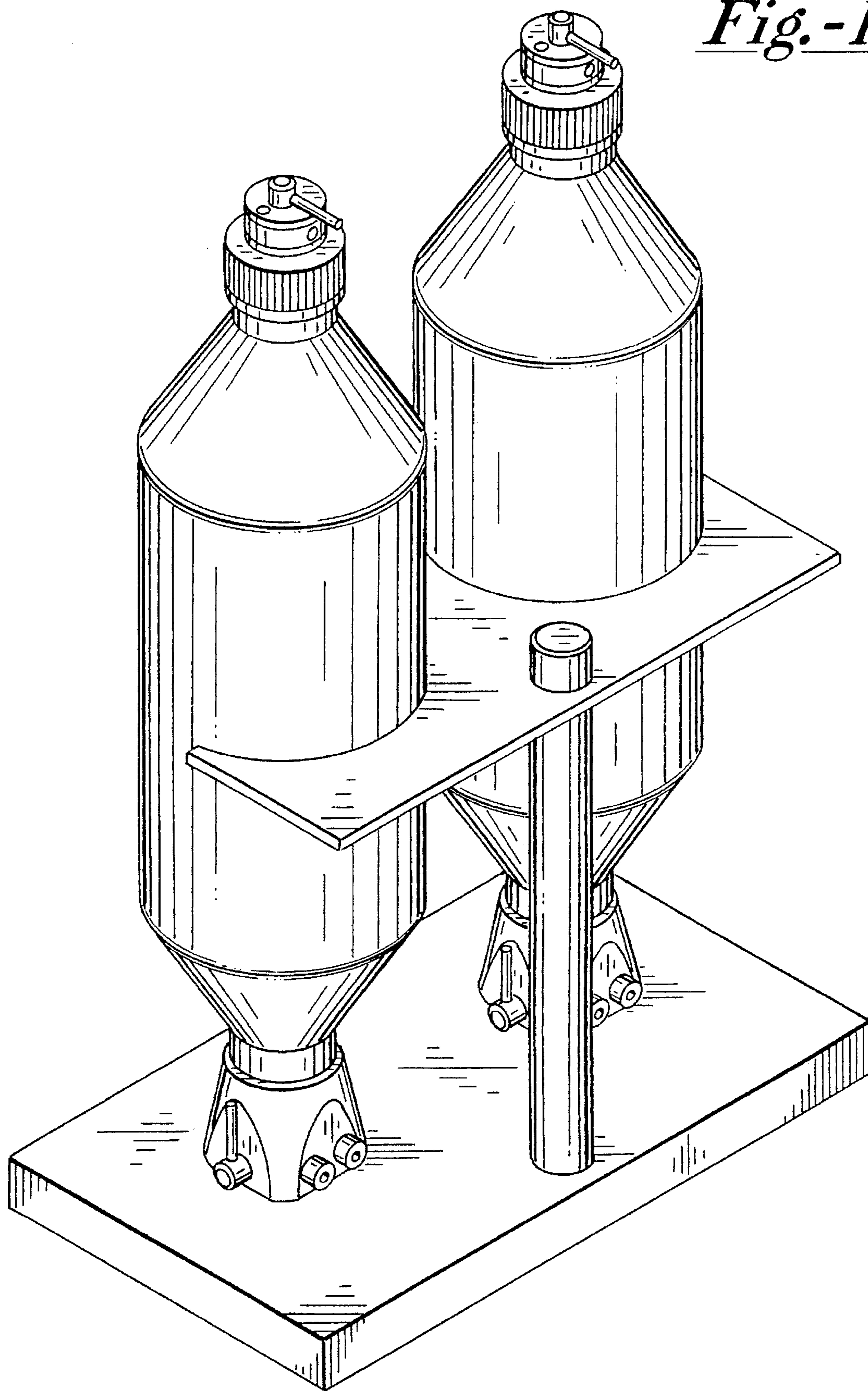


Fig.-1



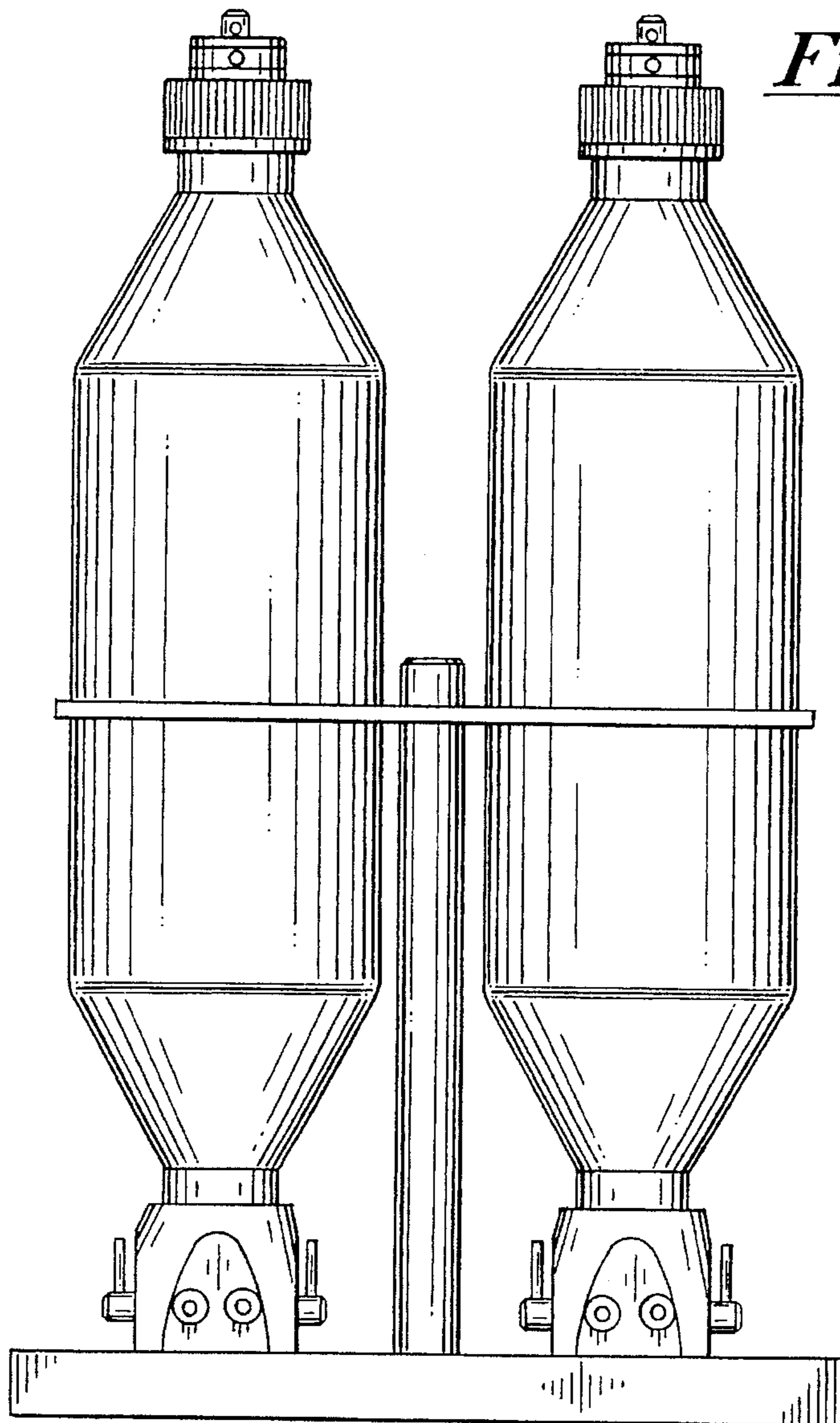


Fig.-2

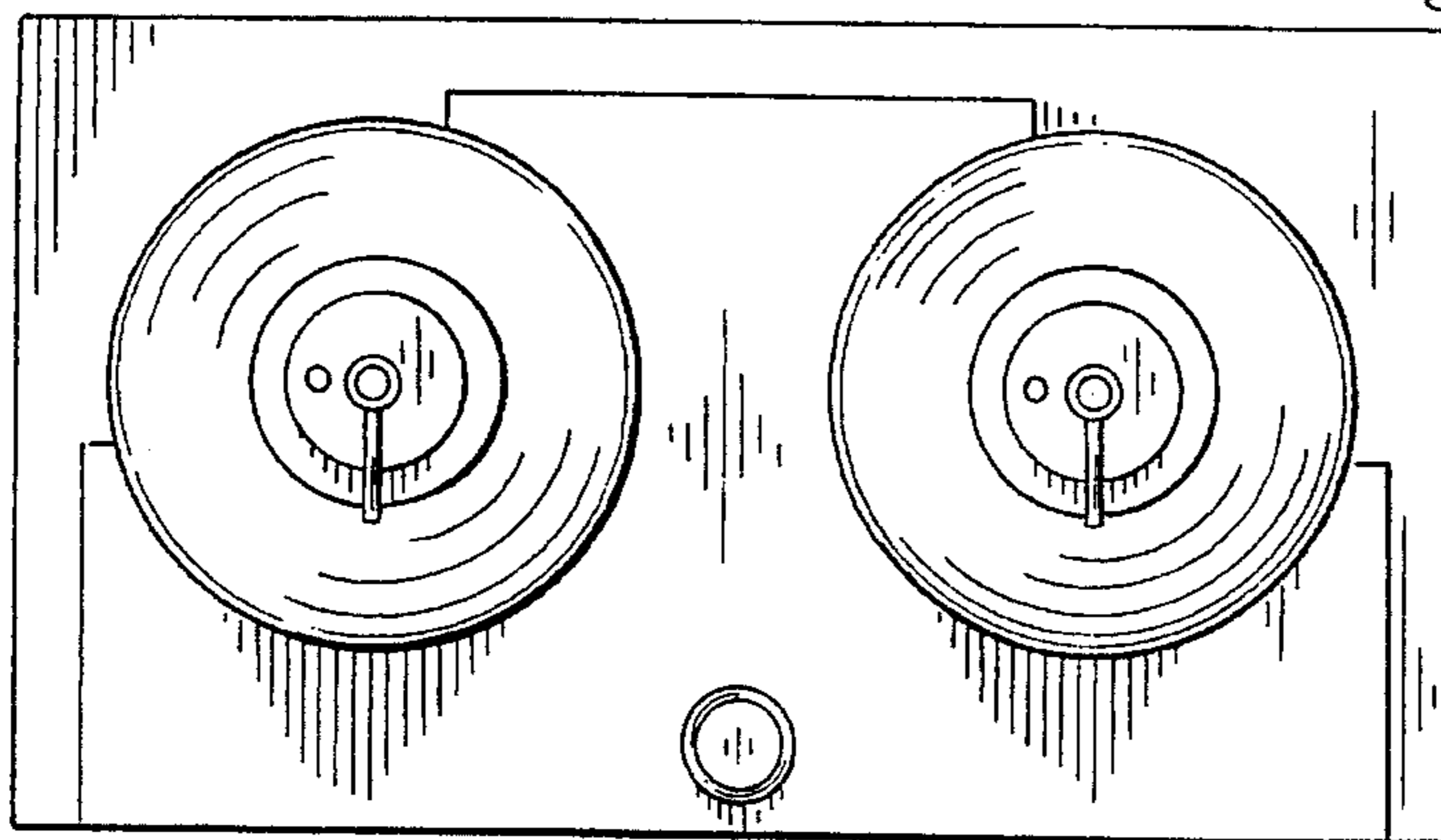


Fig.-3

Fig. -4

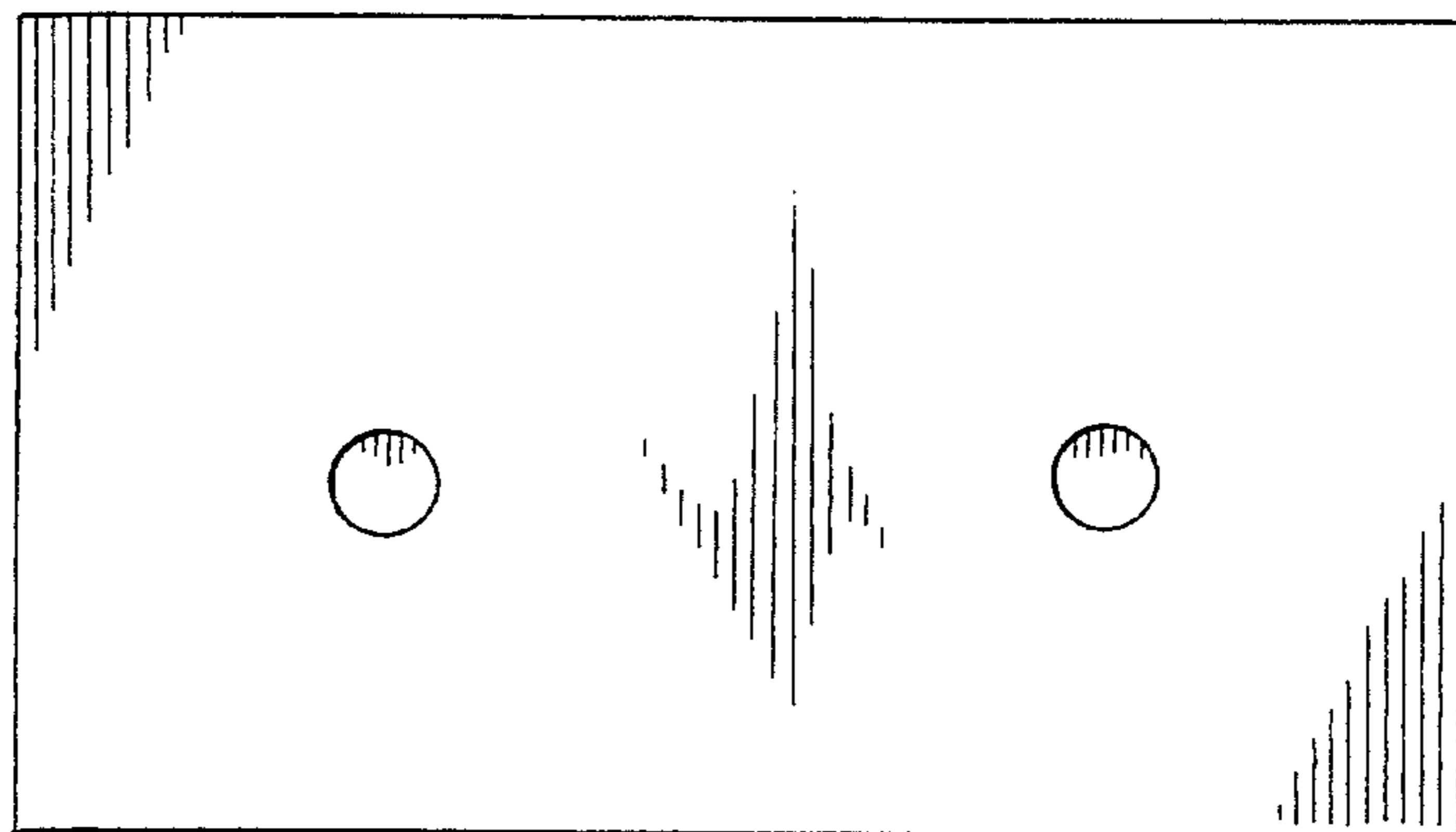


Fig. -5

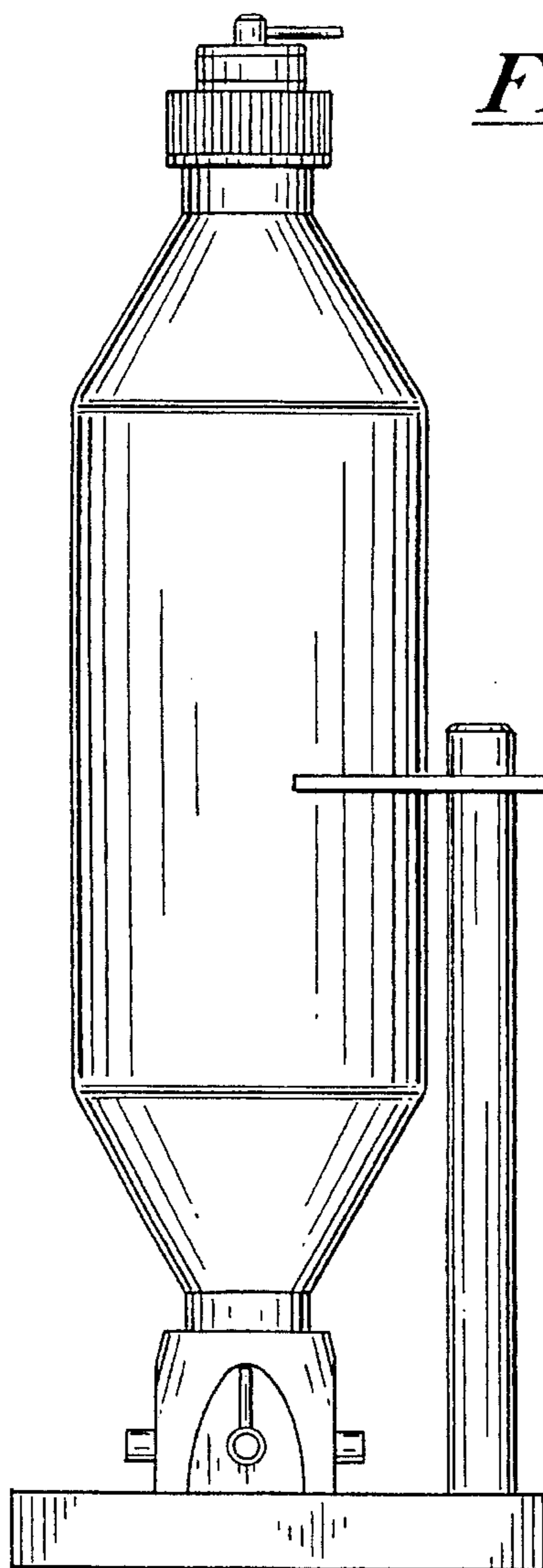
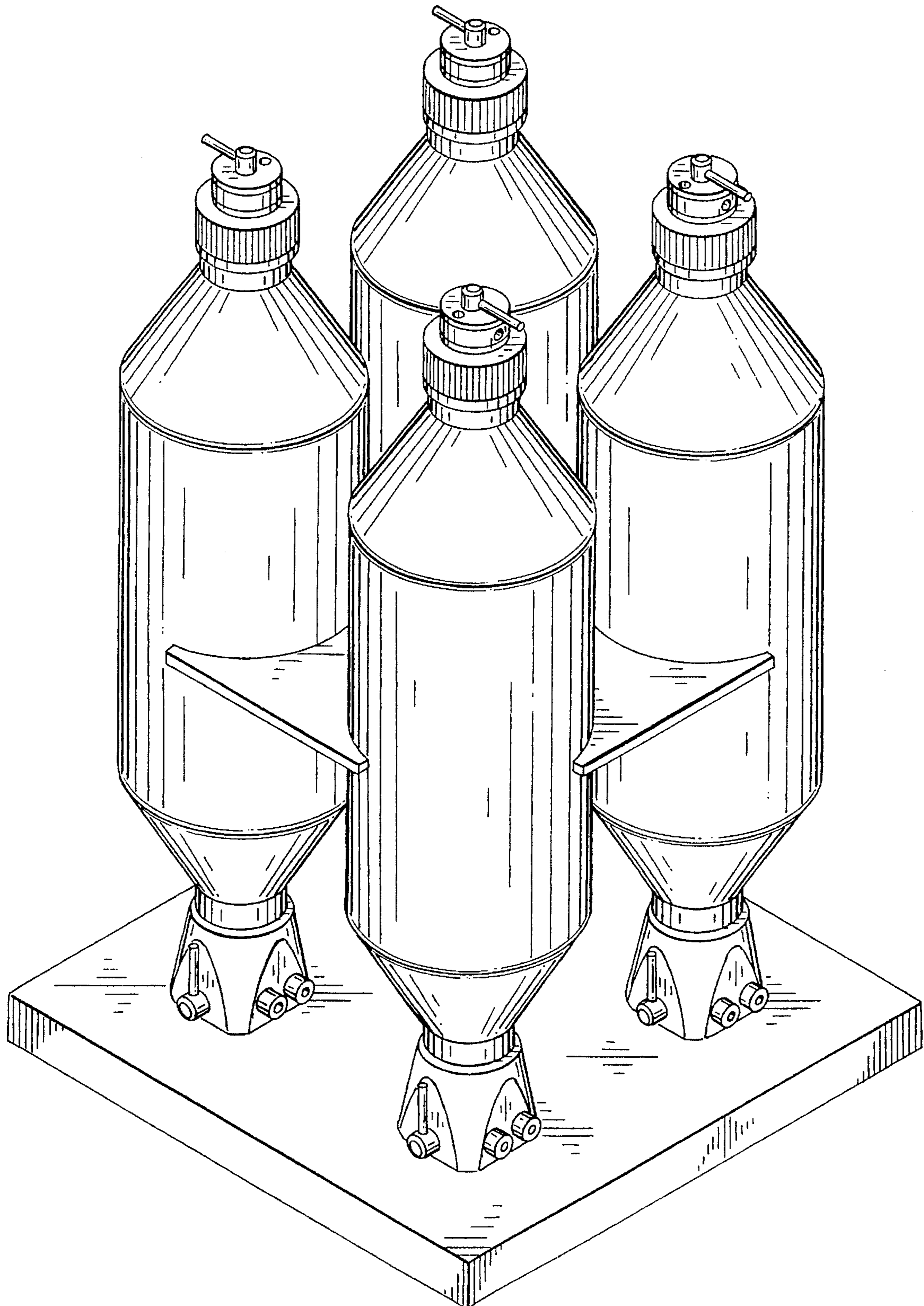


Fig. -6



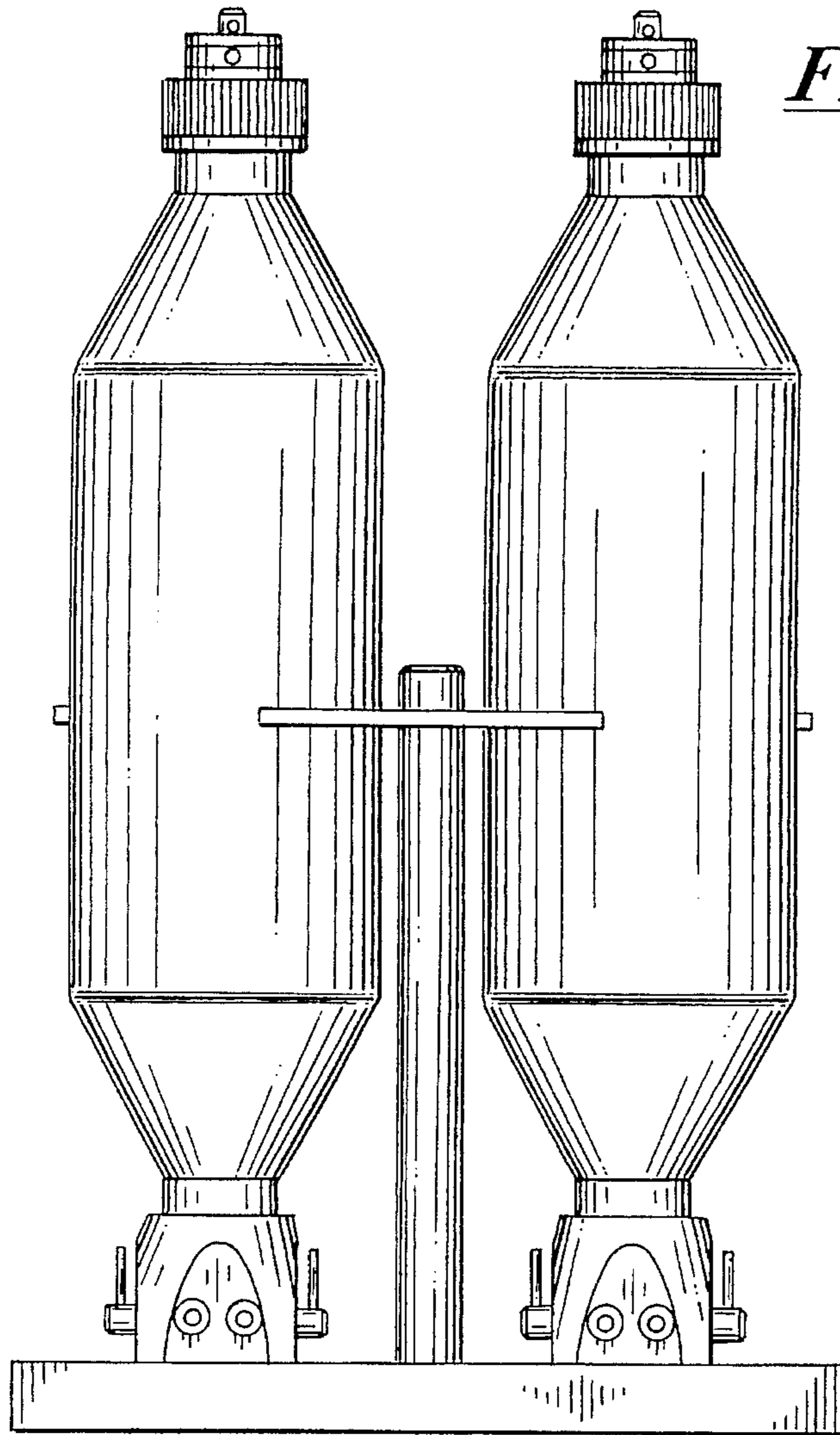


Fig.-7

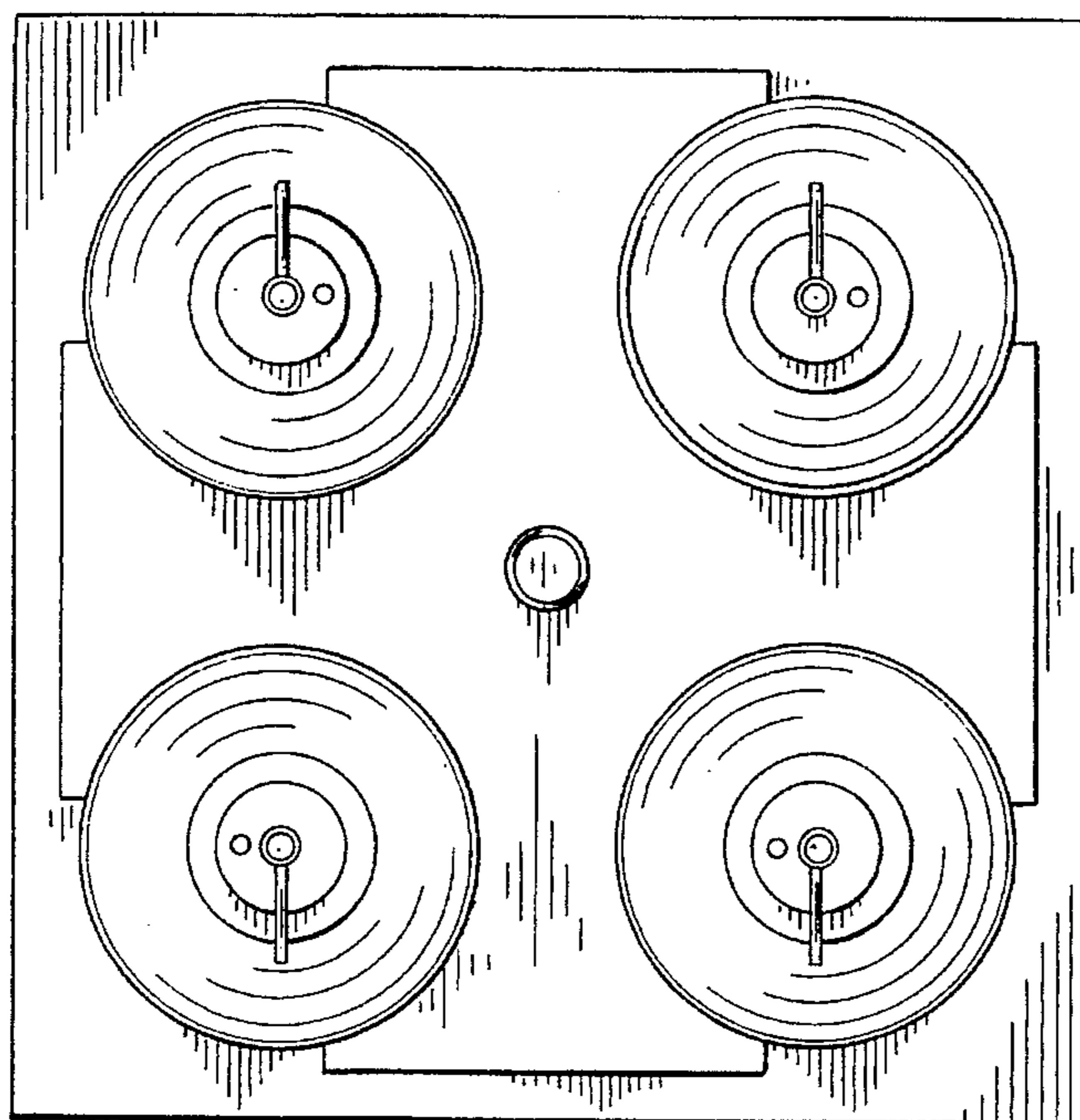


Fig.-8

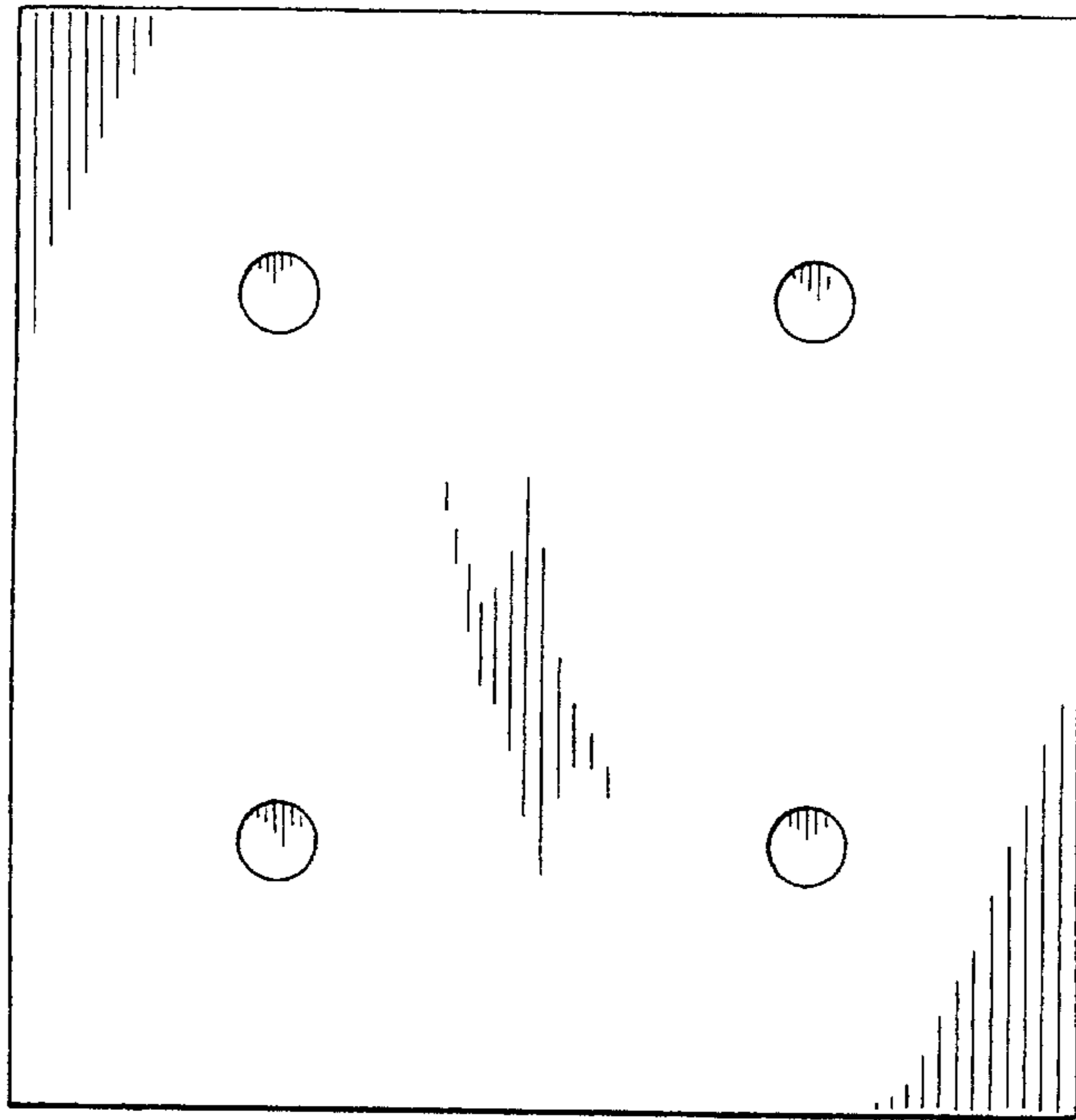


Fig. -9

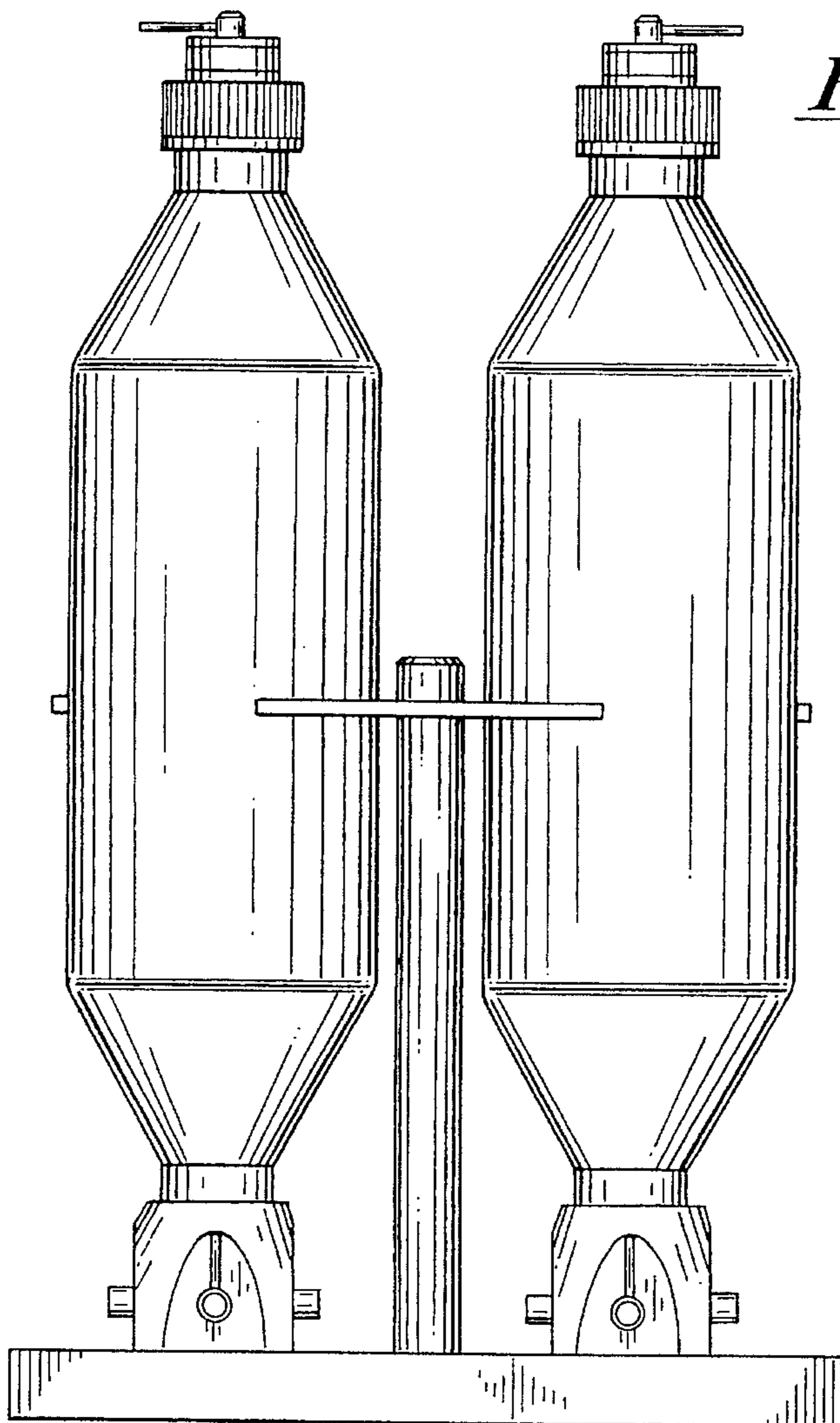
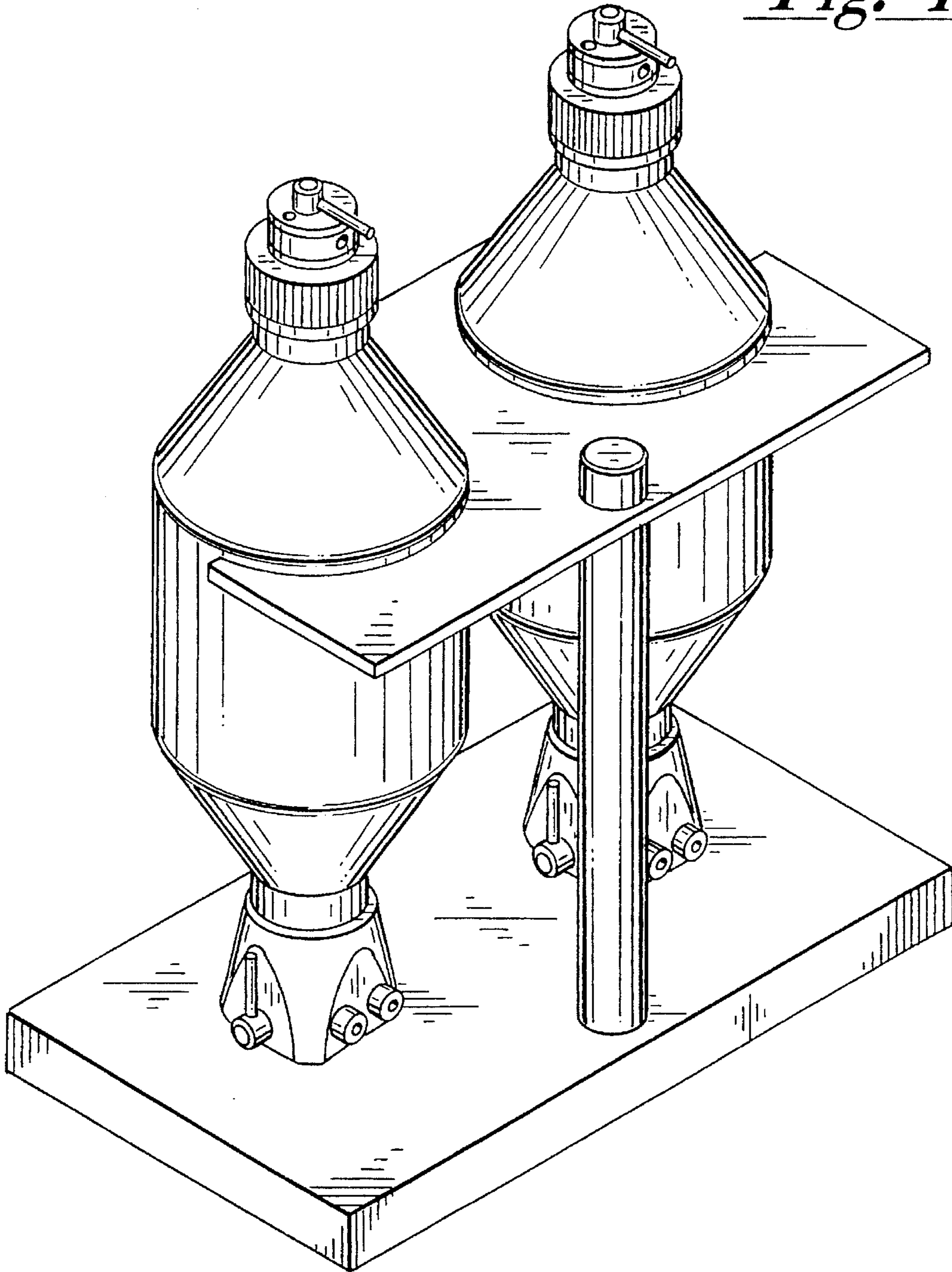


Fig. -10

Fig.-11



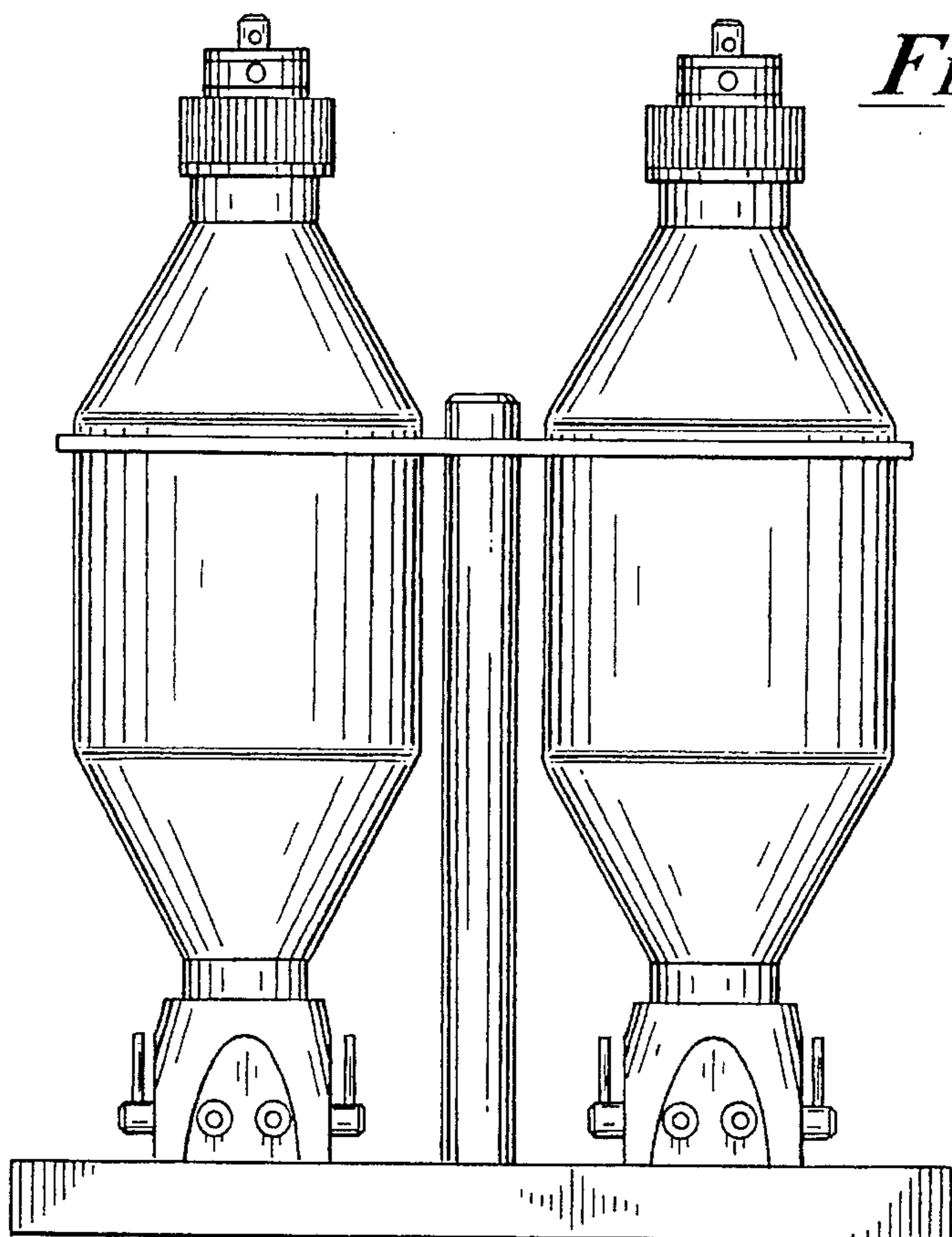


Fig. -12

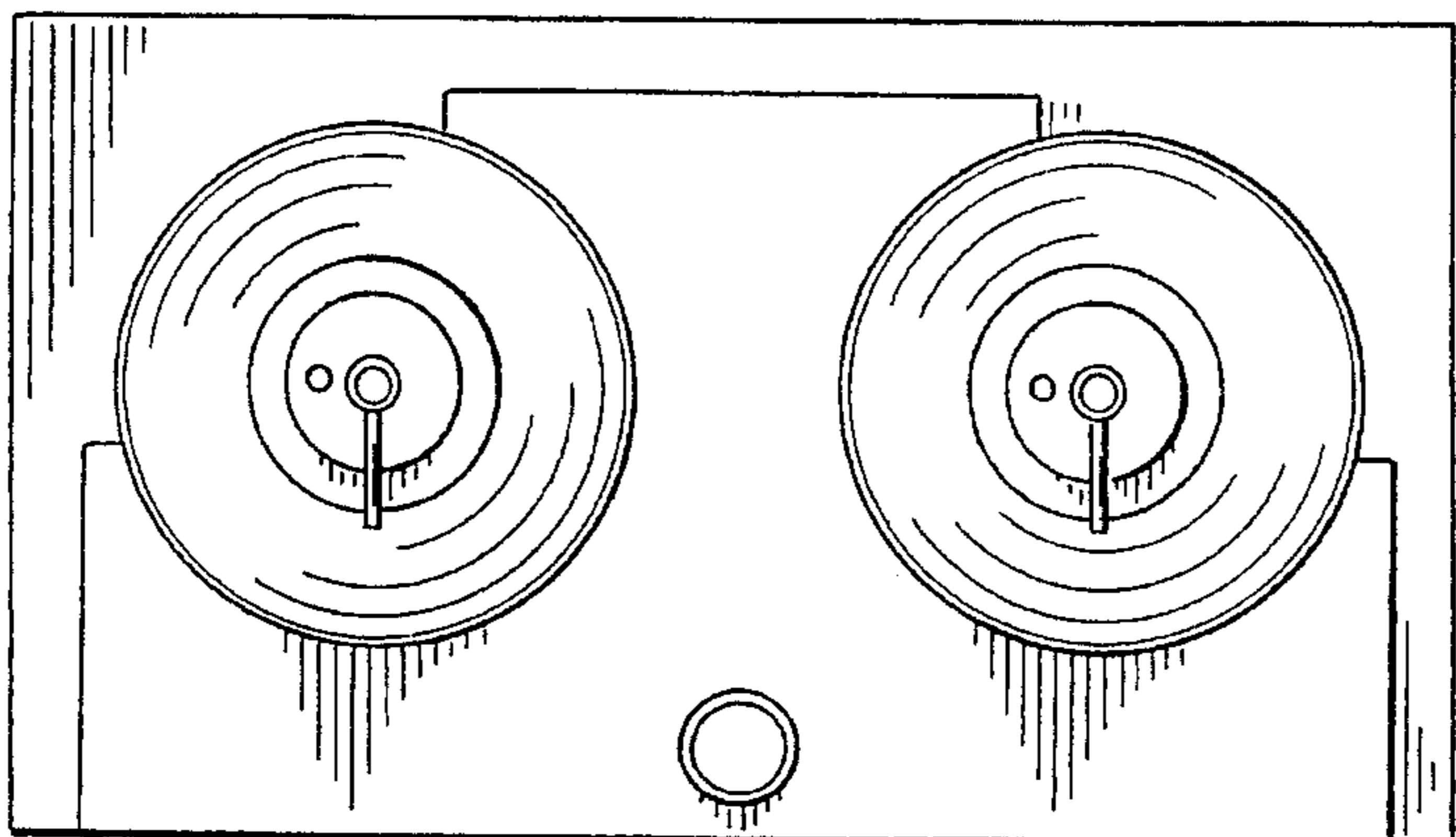


Fig. -13

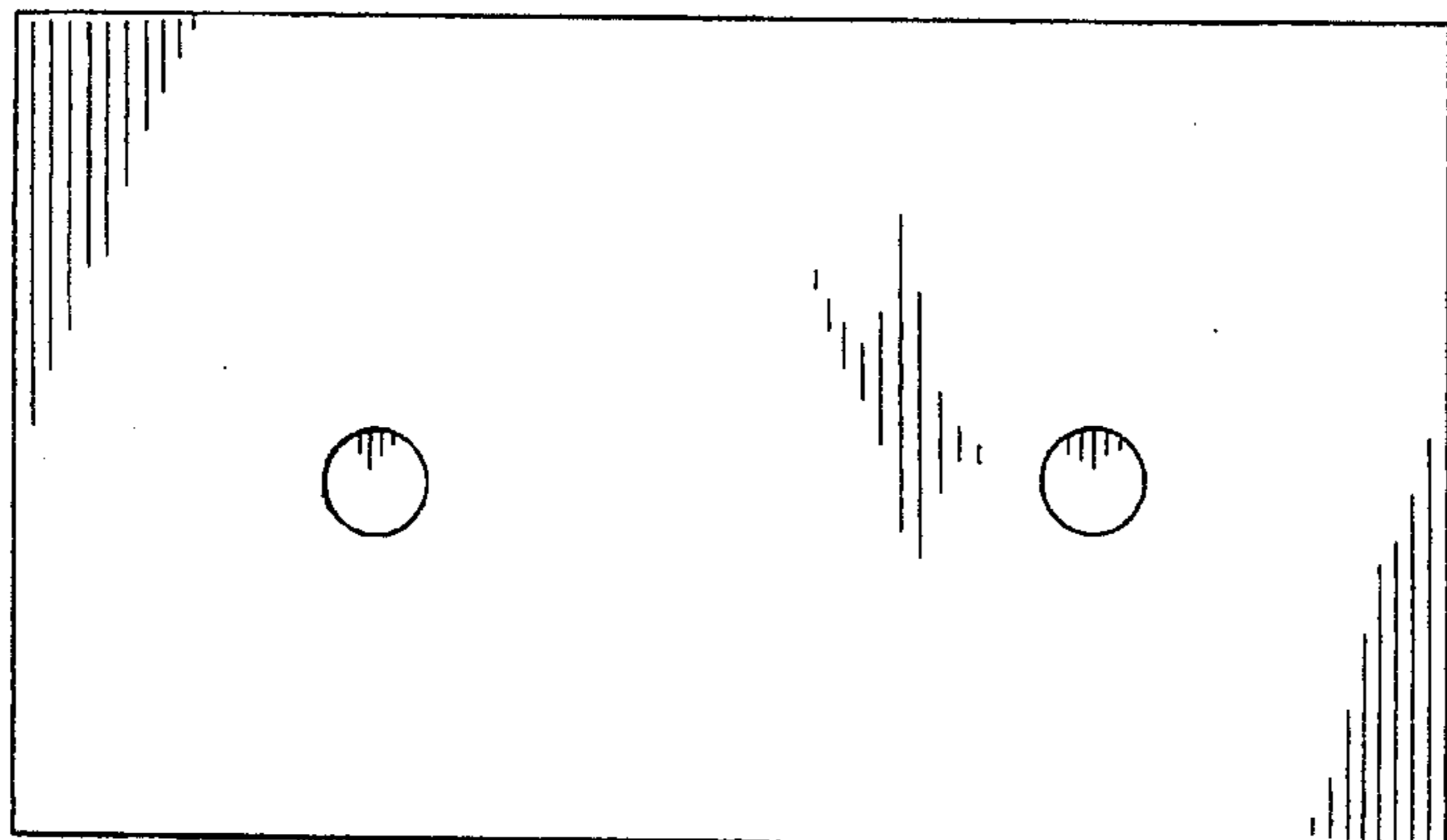


Fig. -14

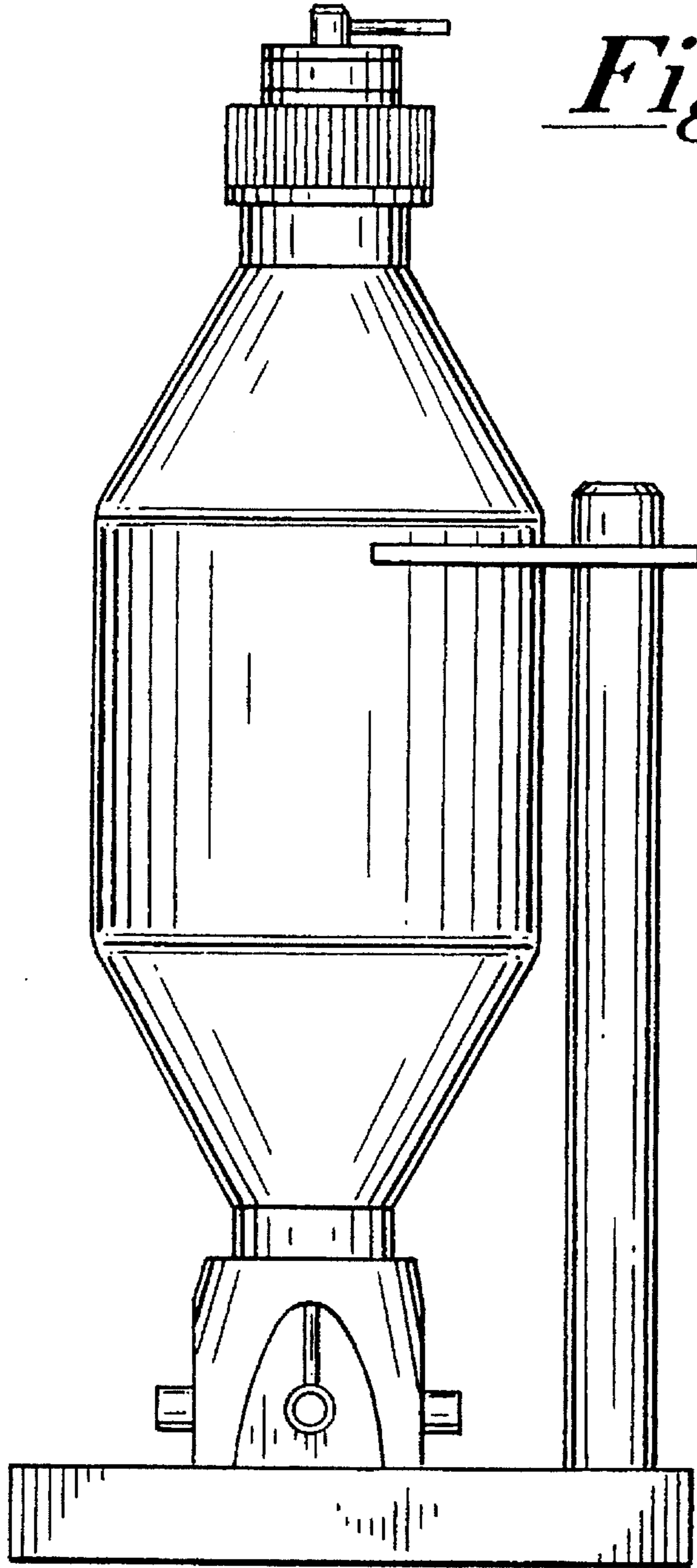
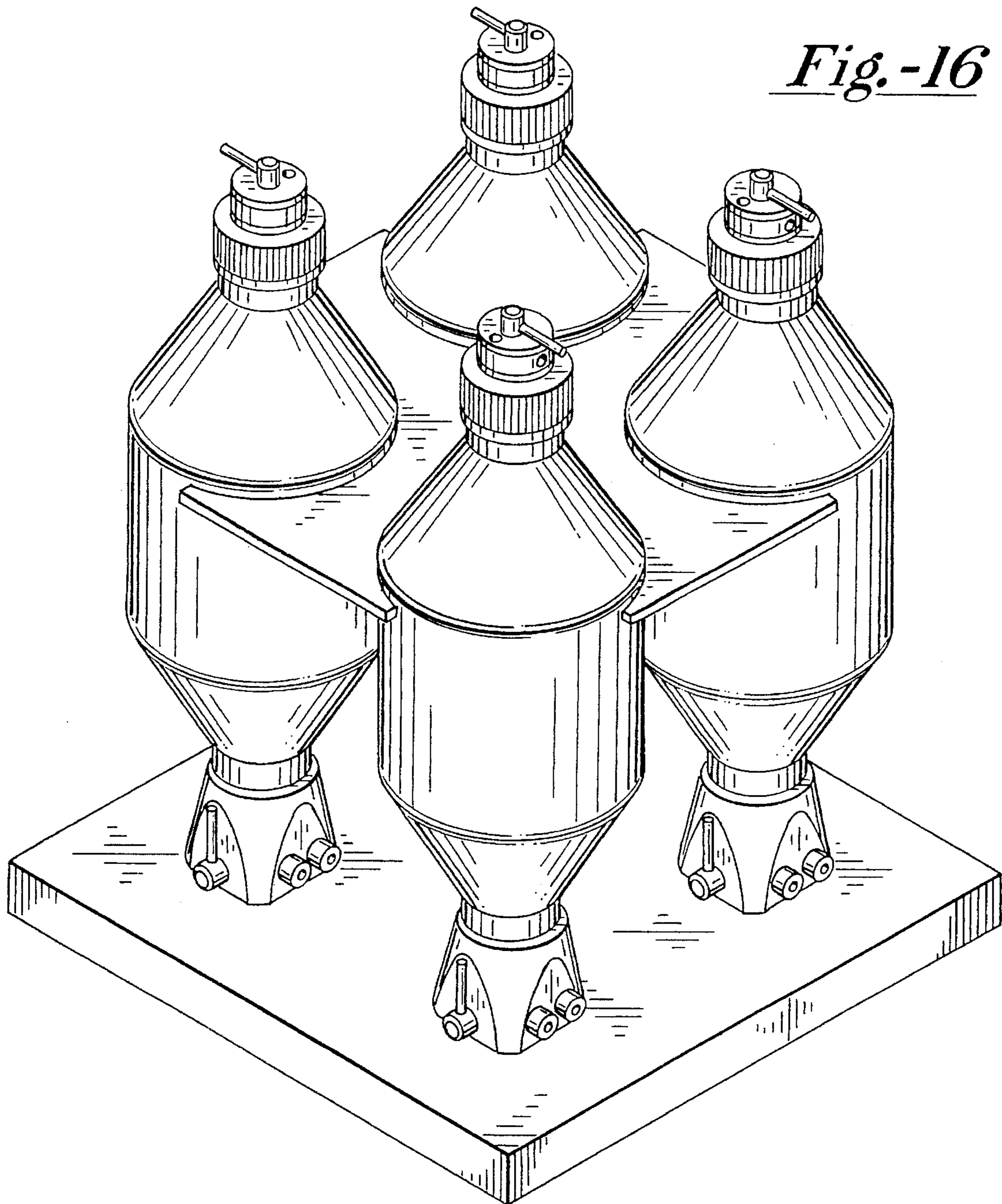


Fig. -15

Fig.-16



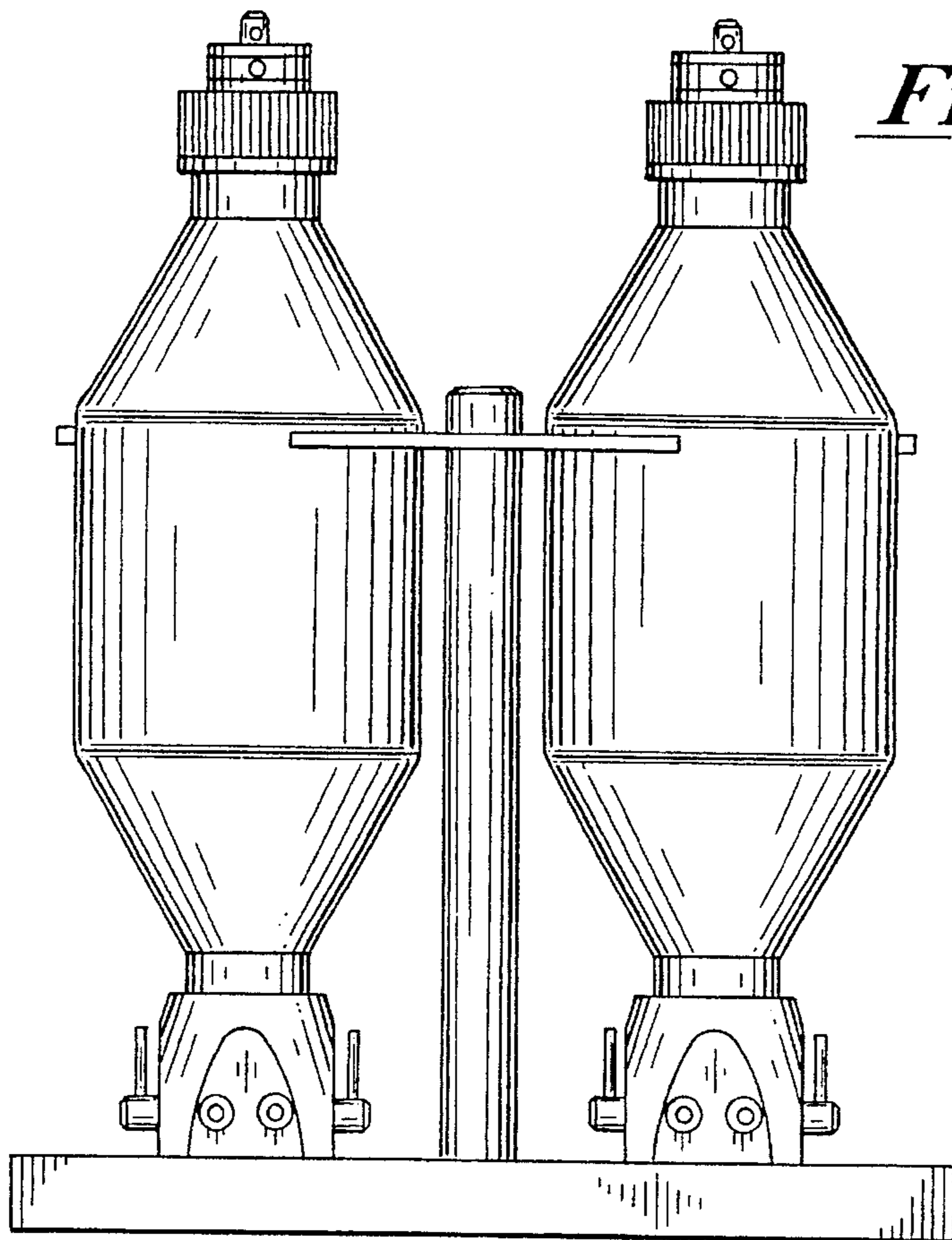


Fig.-17

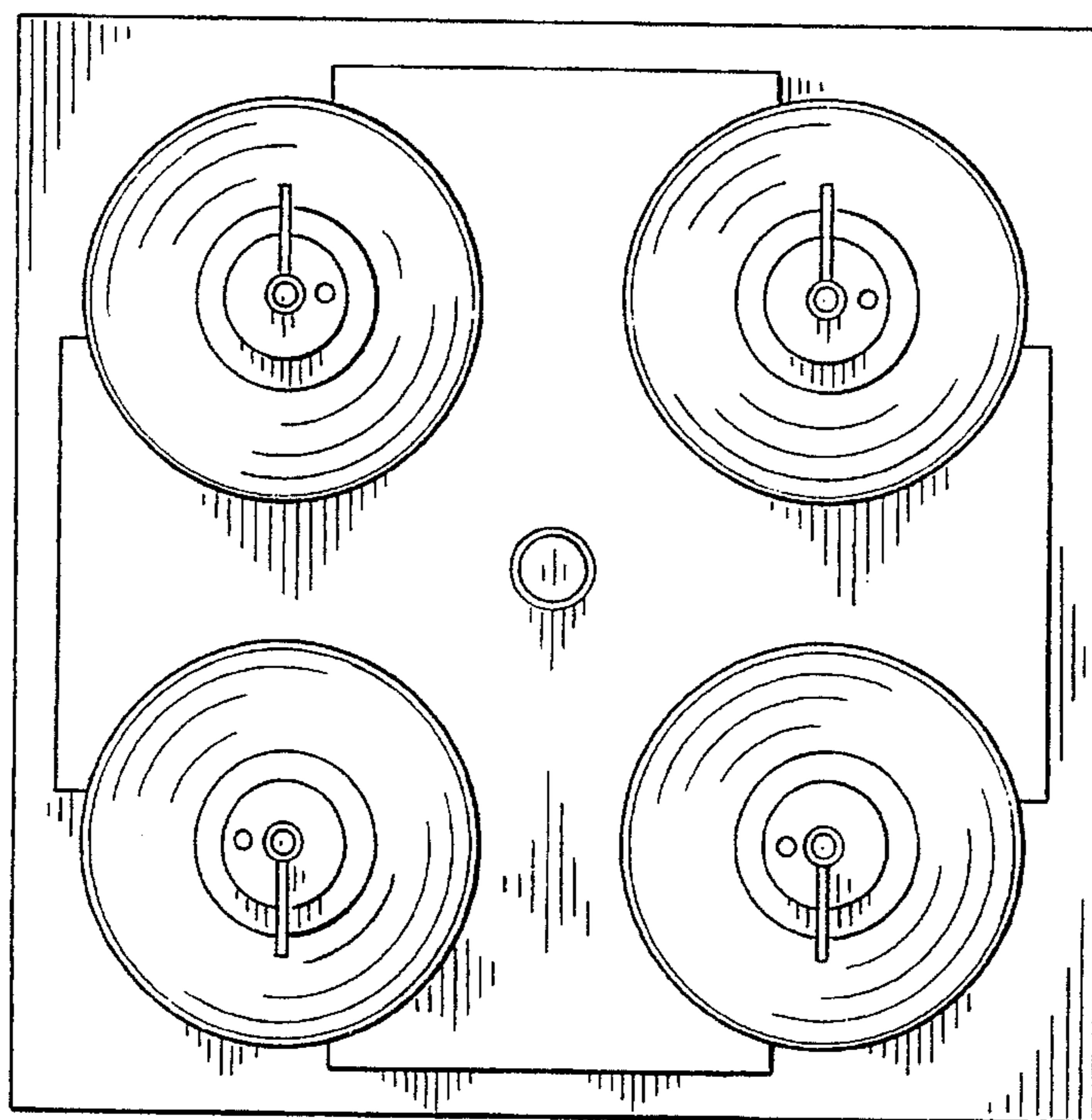


Fig.-18

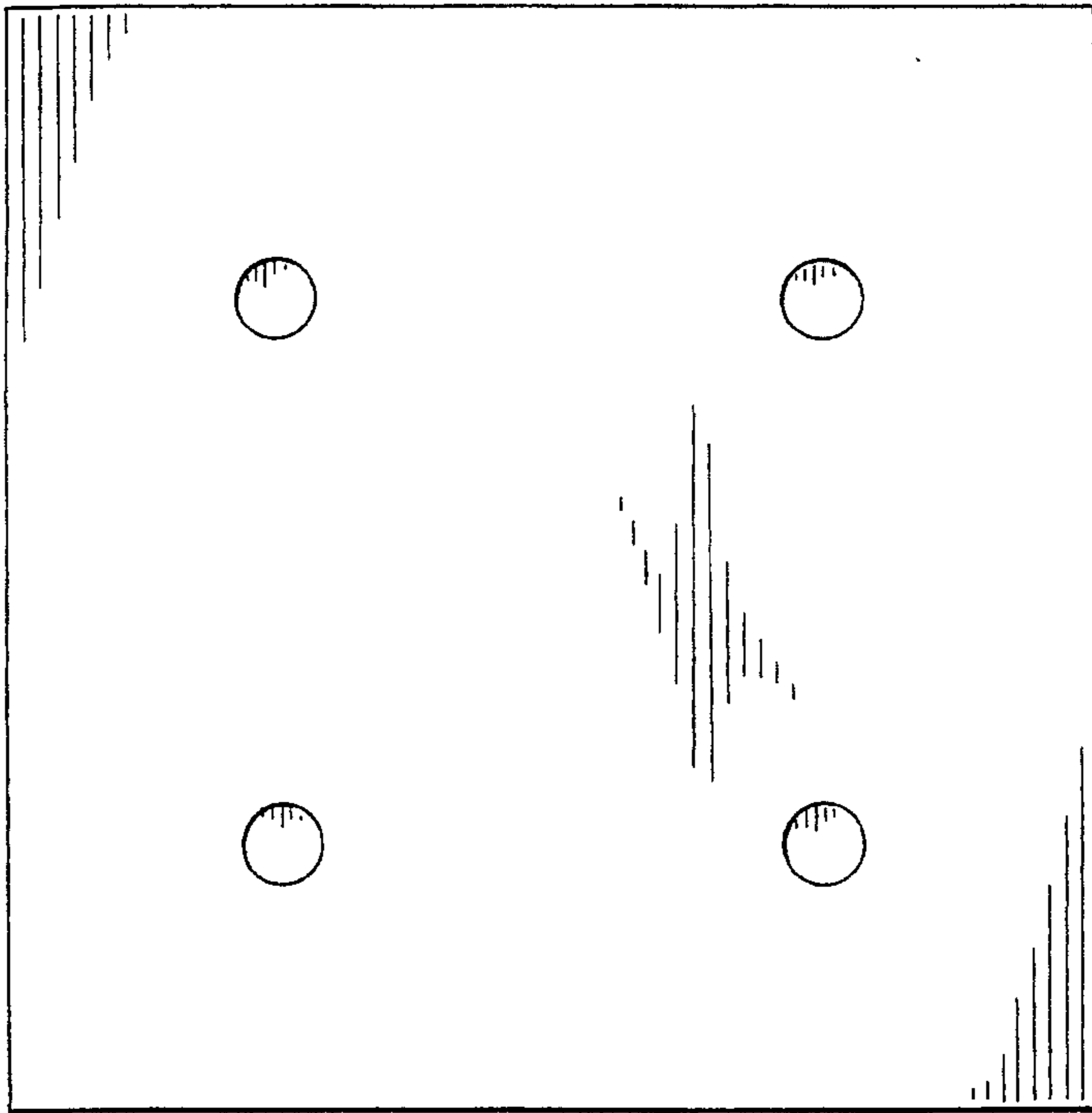


Fig.-19

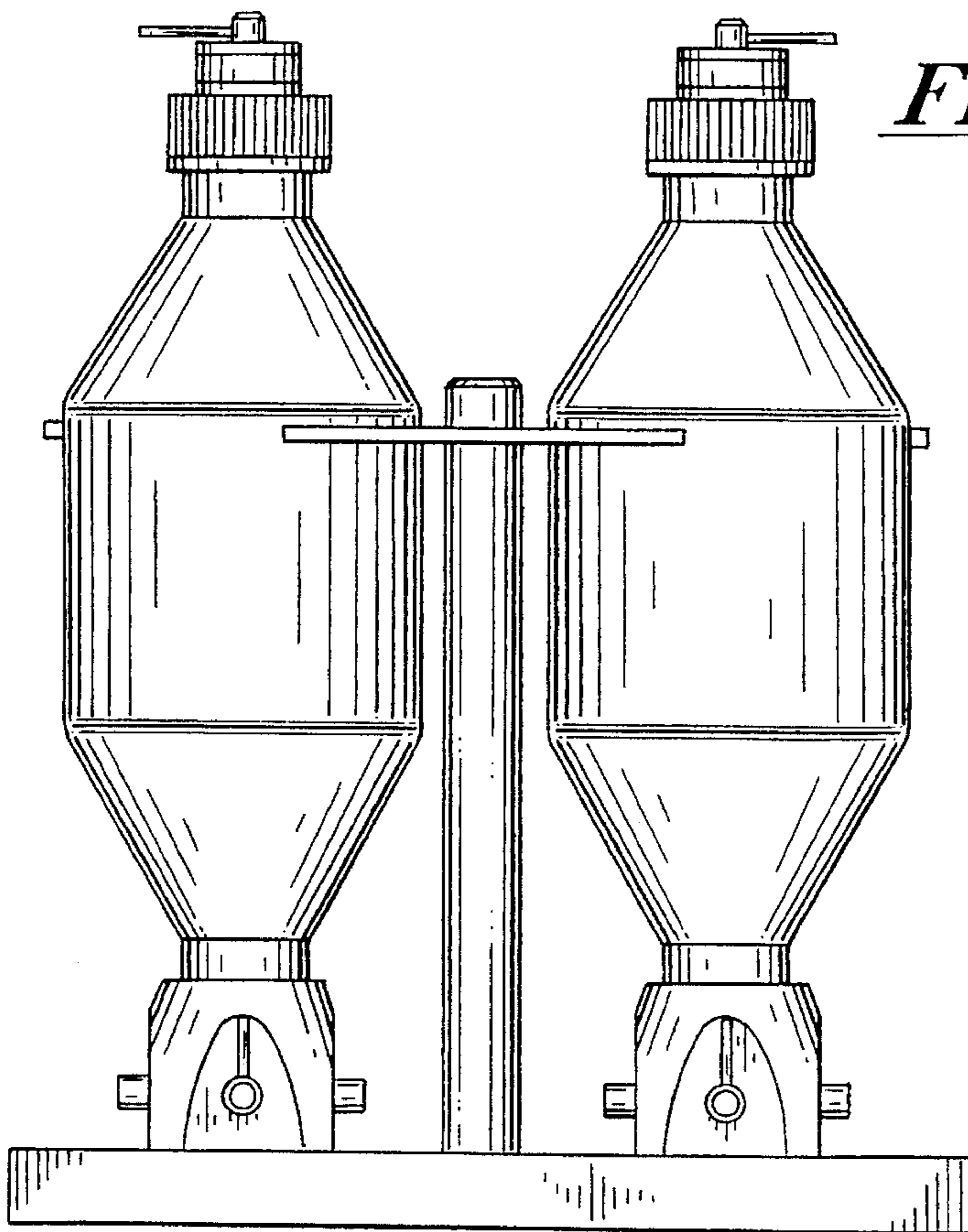
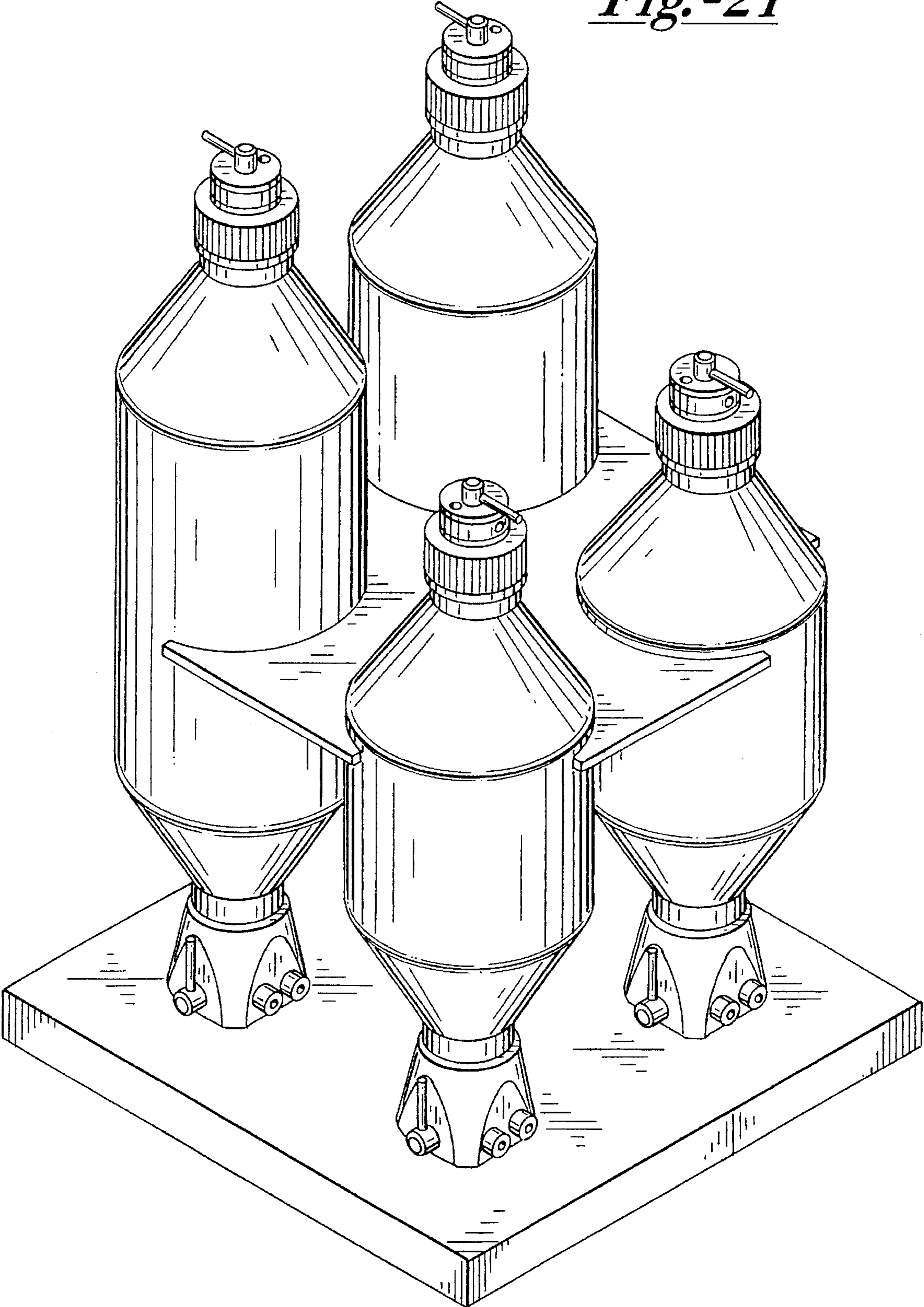


Fig.-20

Fig.-21



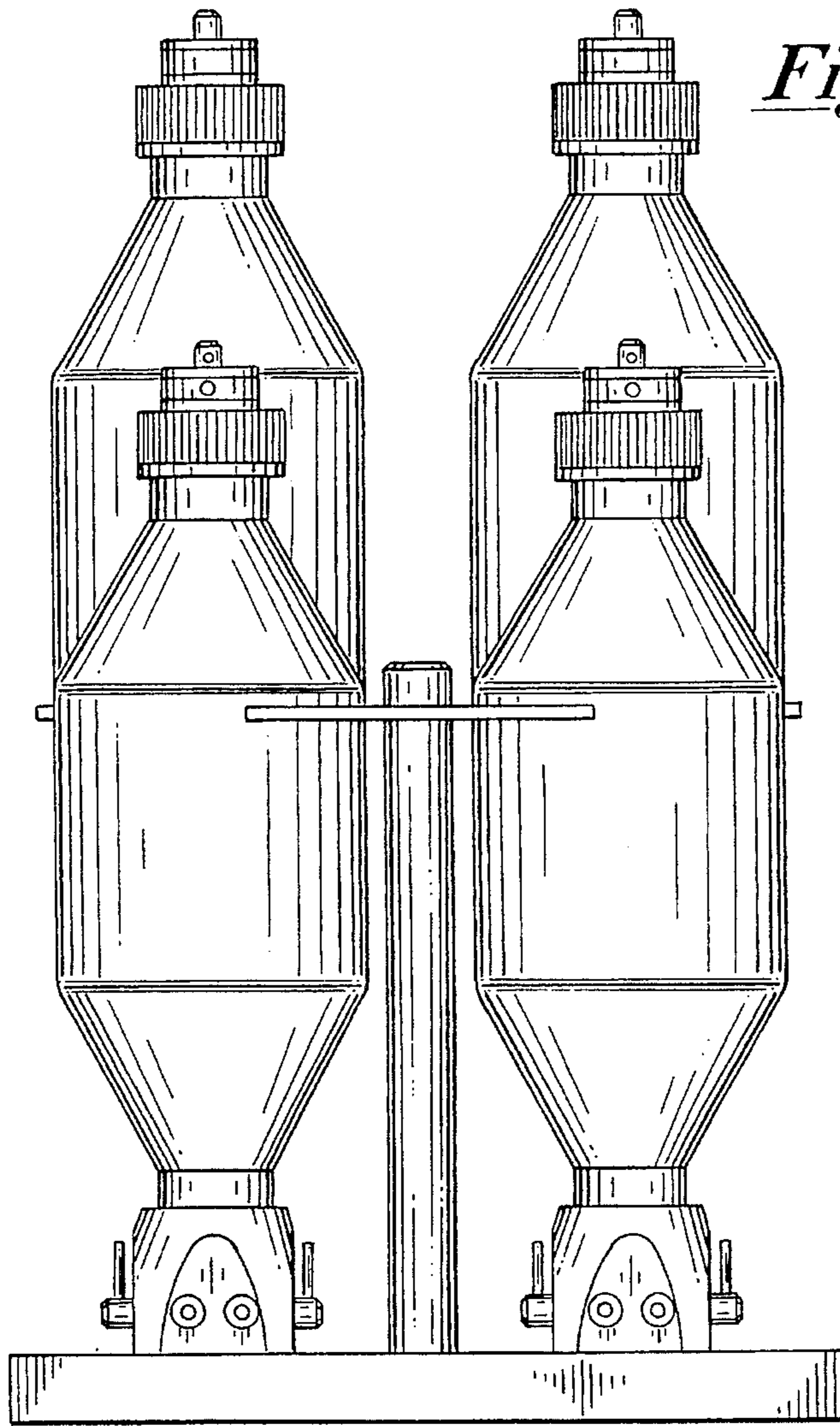


Fig. -22

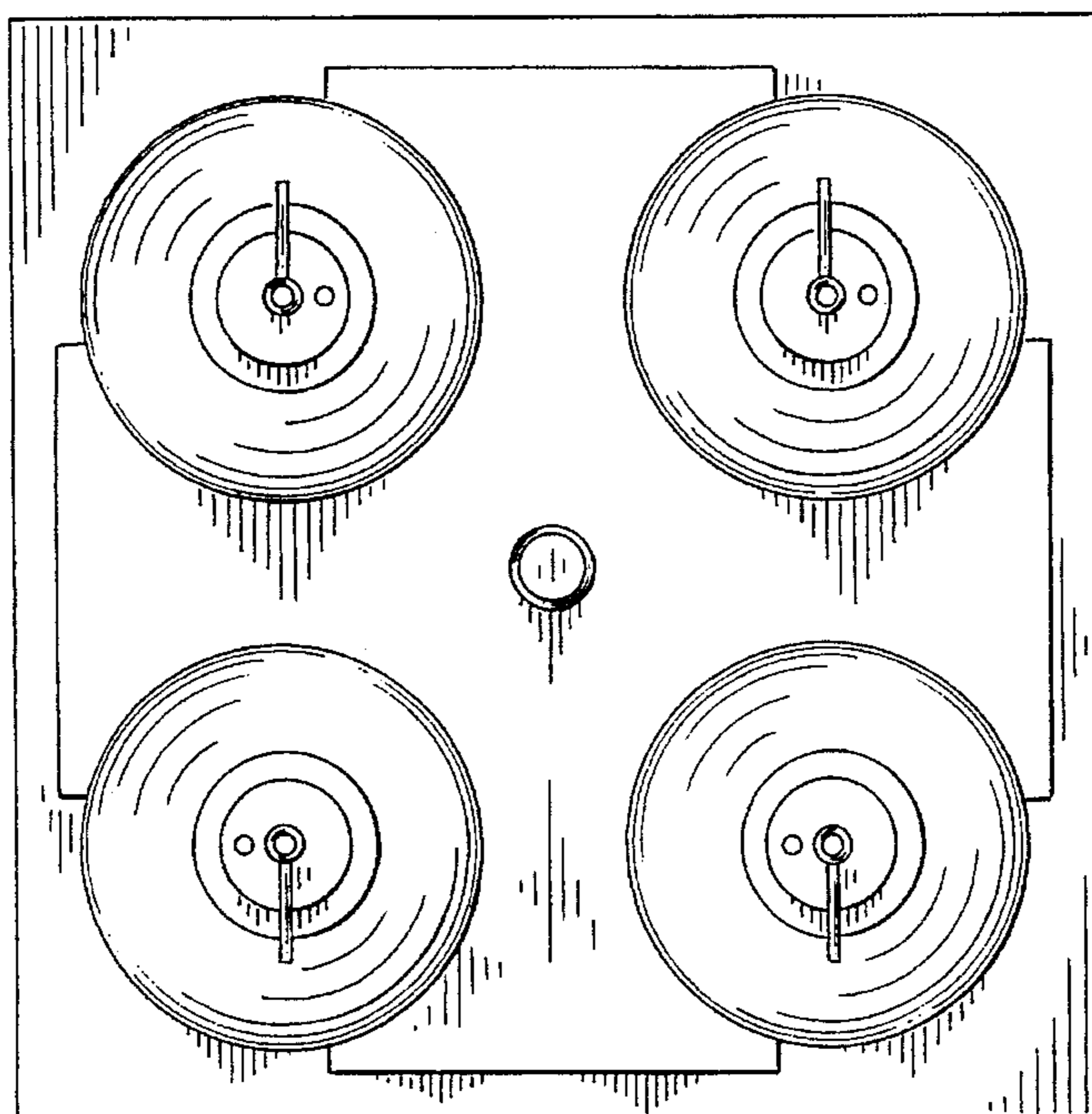


Fig. -23

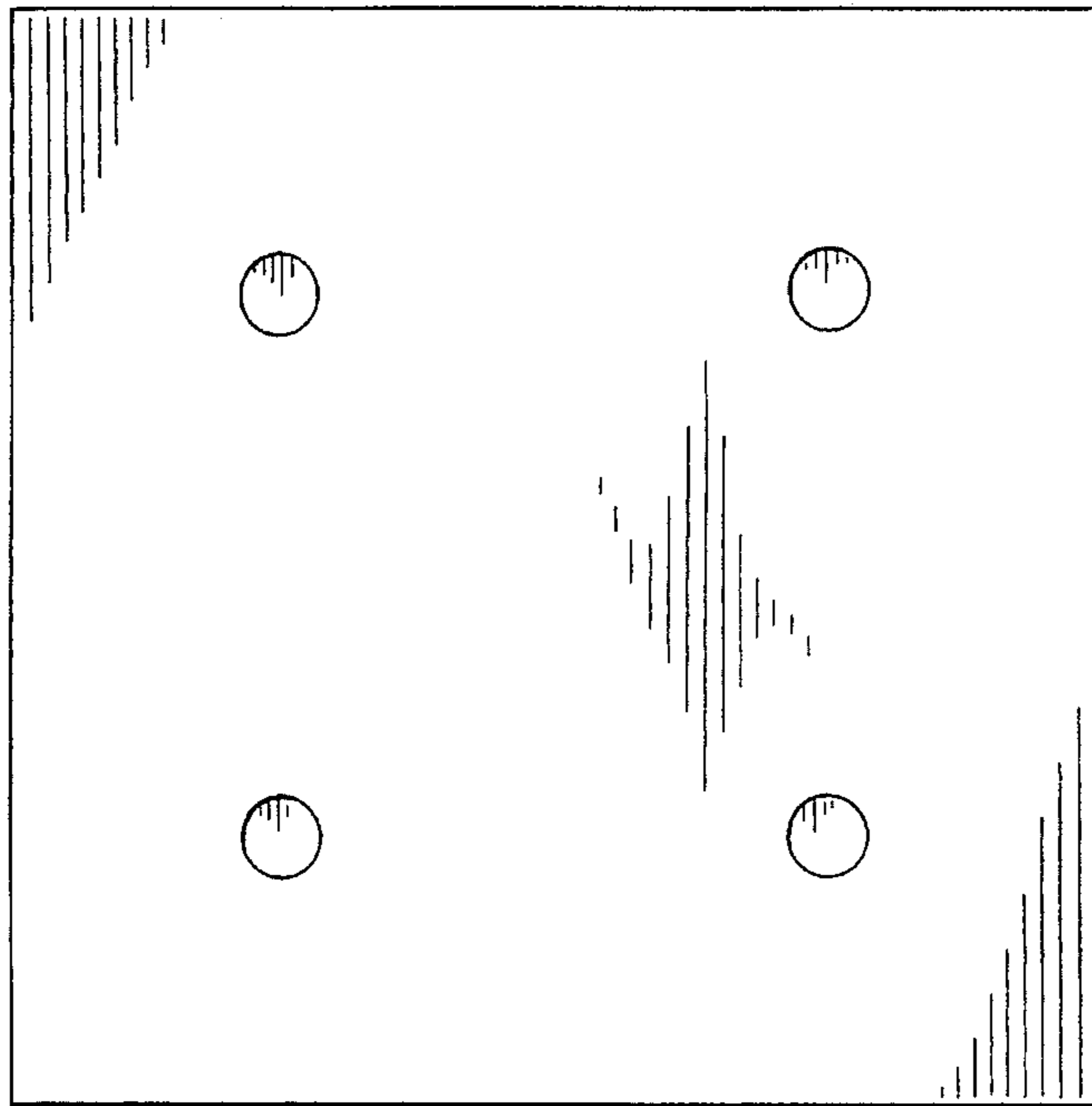


Fig. -24

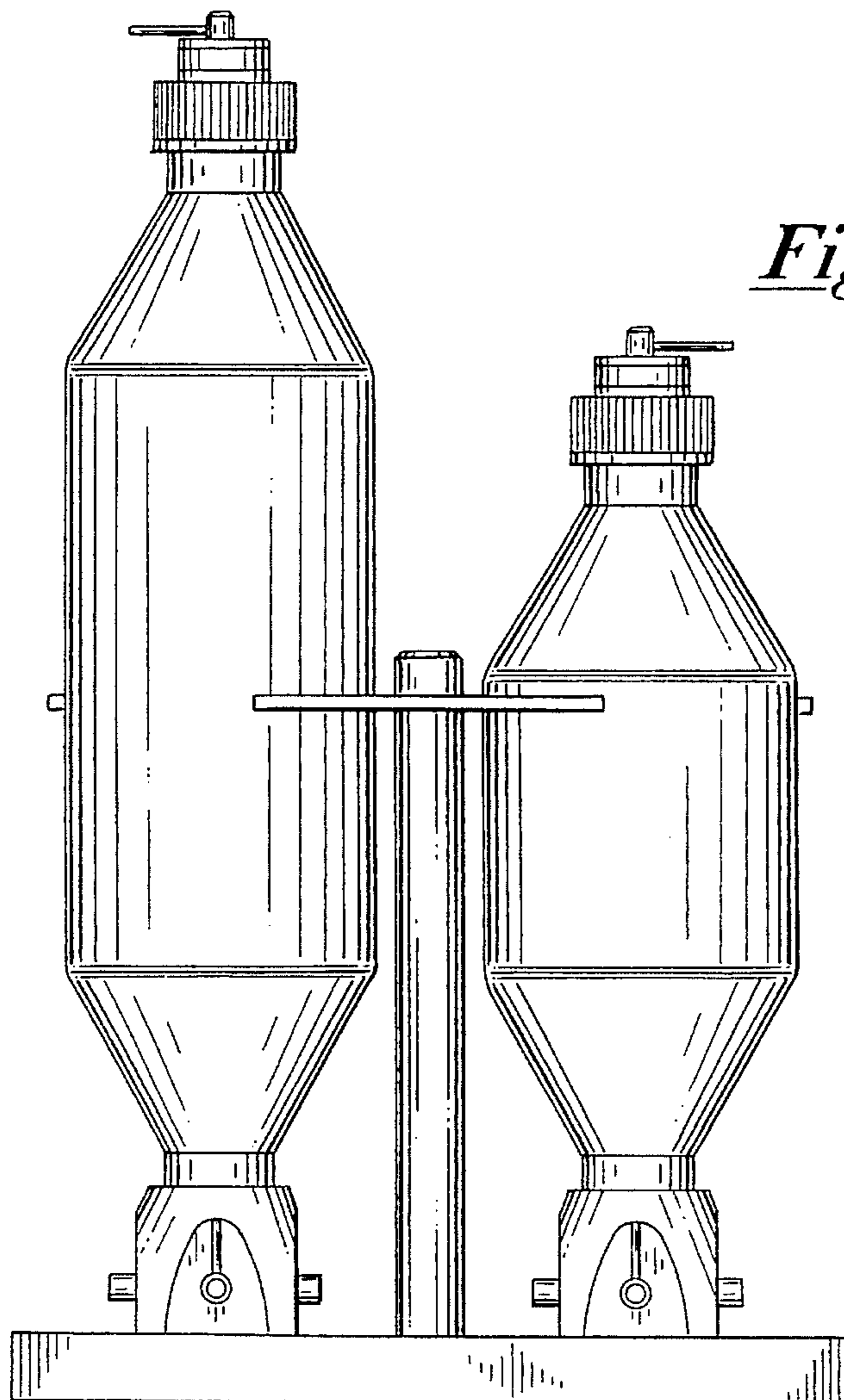


Fig. -25

Fig.-26

