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United States Patent [19]

Sims et al.

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

[54] **DOUBLE-ENDED BOTTLE FOR CHROMATOGRAPHY**

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[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

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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

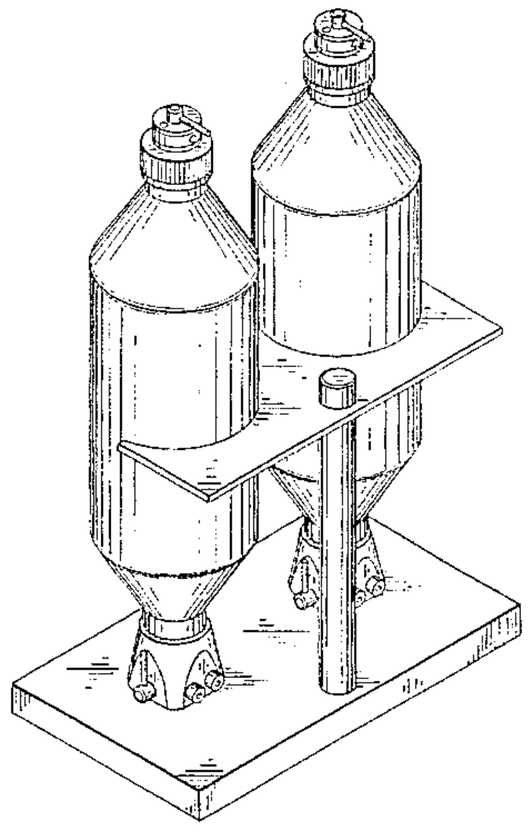


Fig.-1

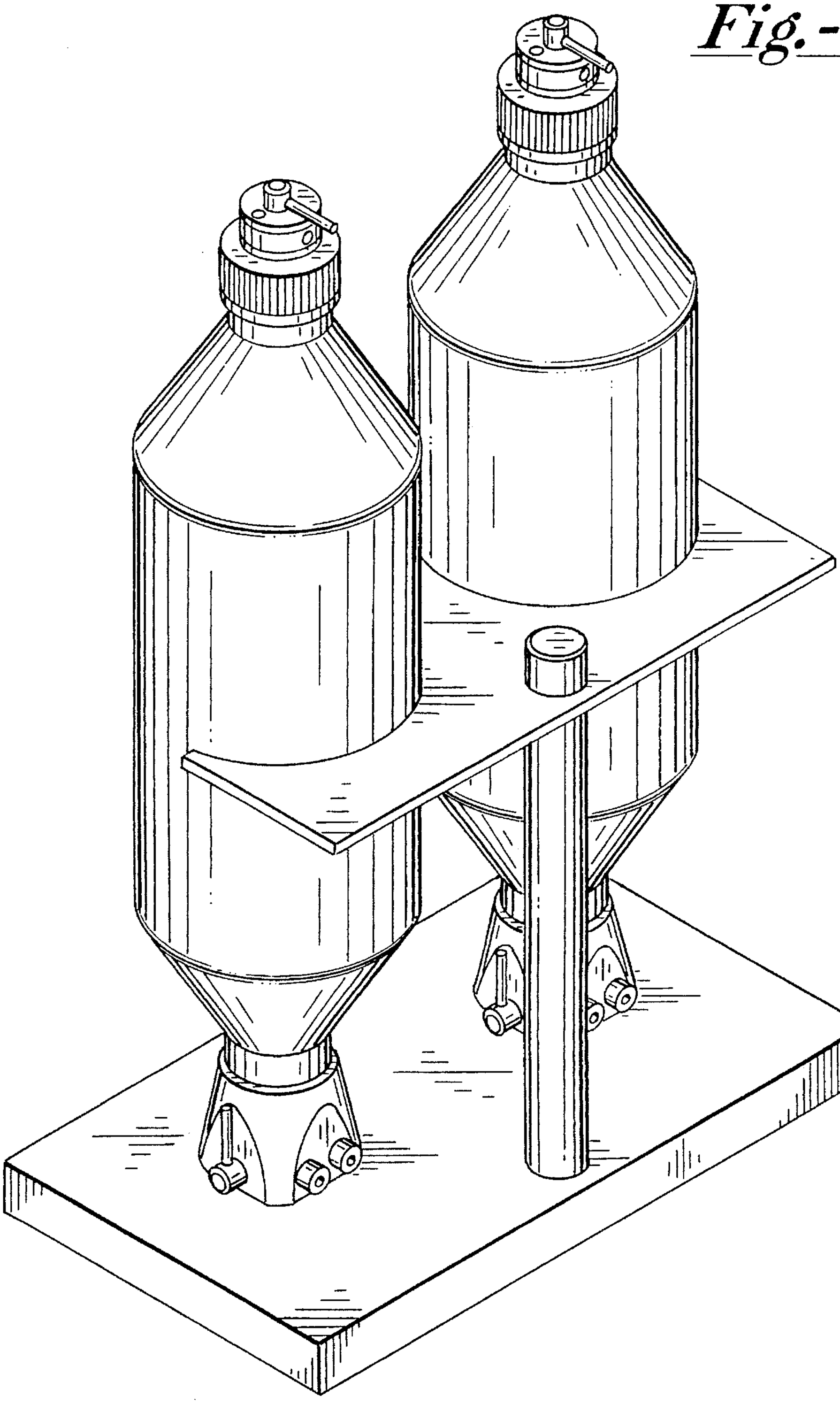


Fig.-2

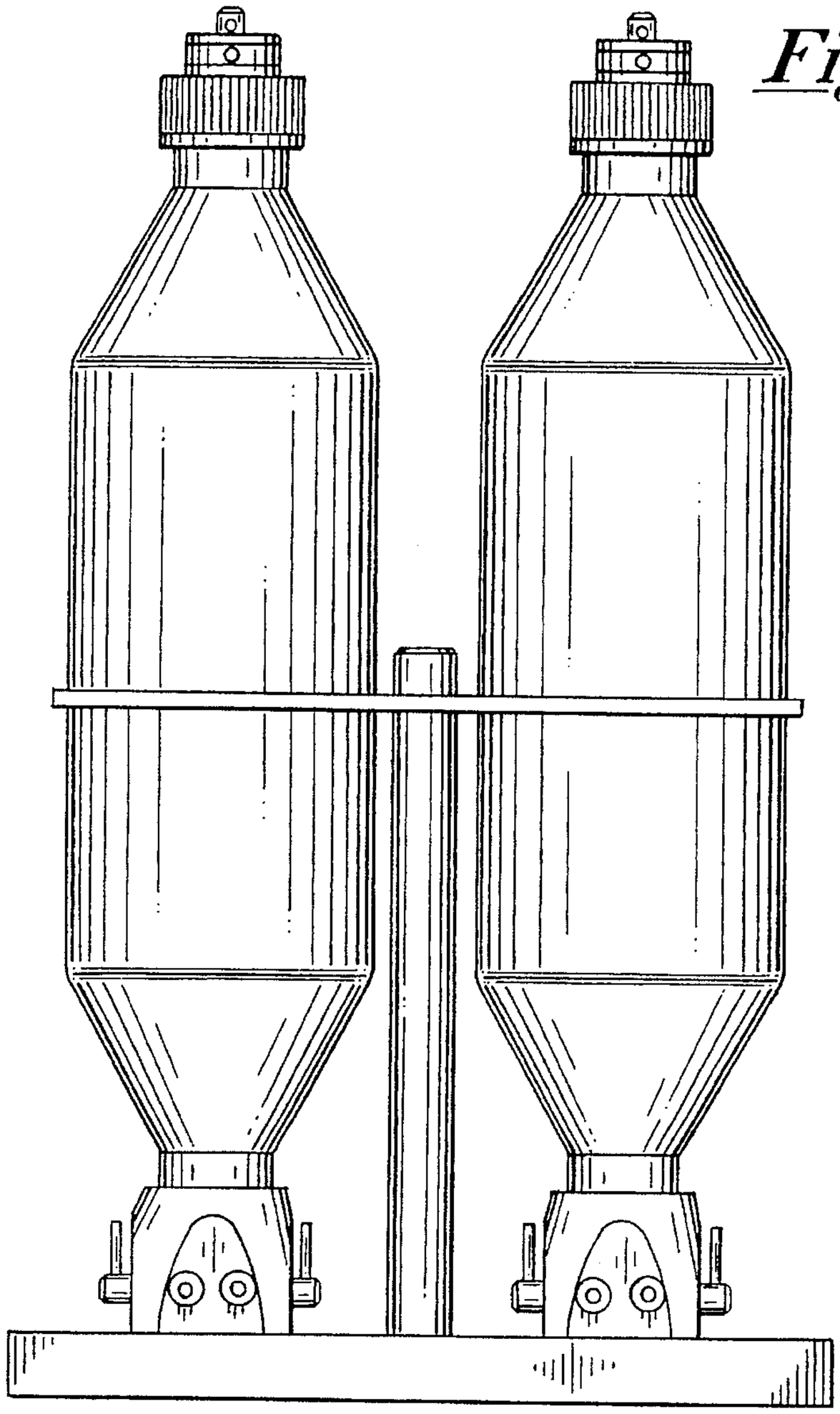


Fig.-3

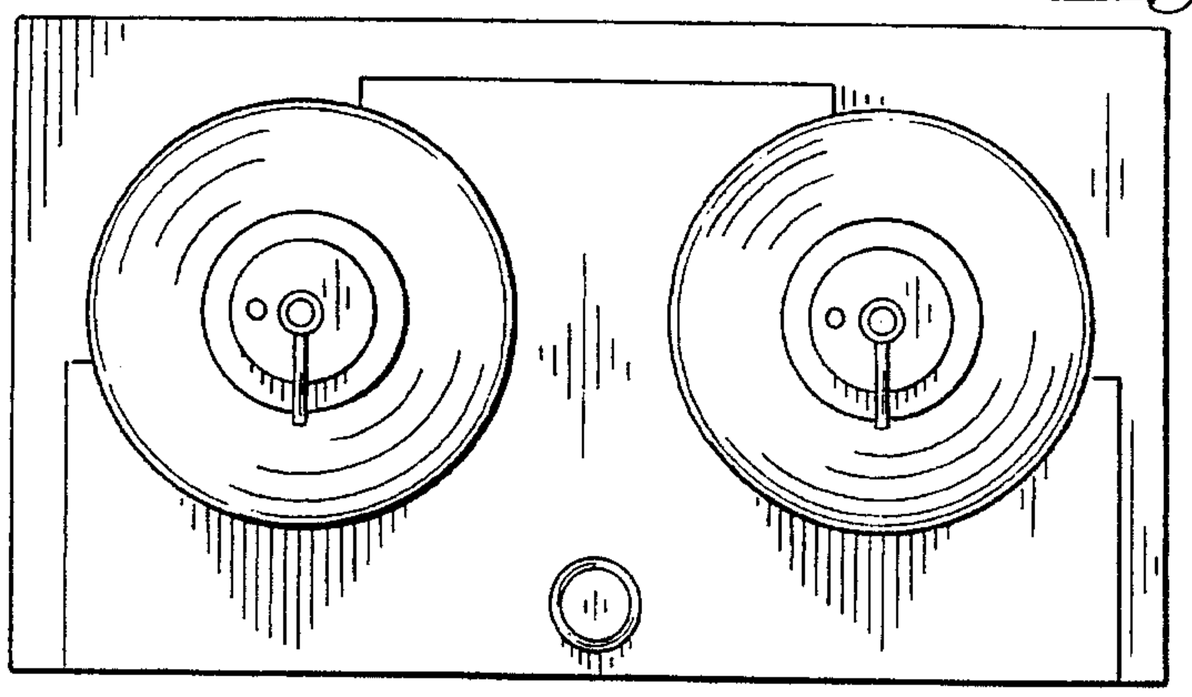


Fig.-4

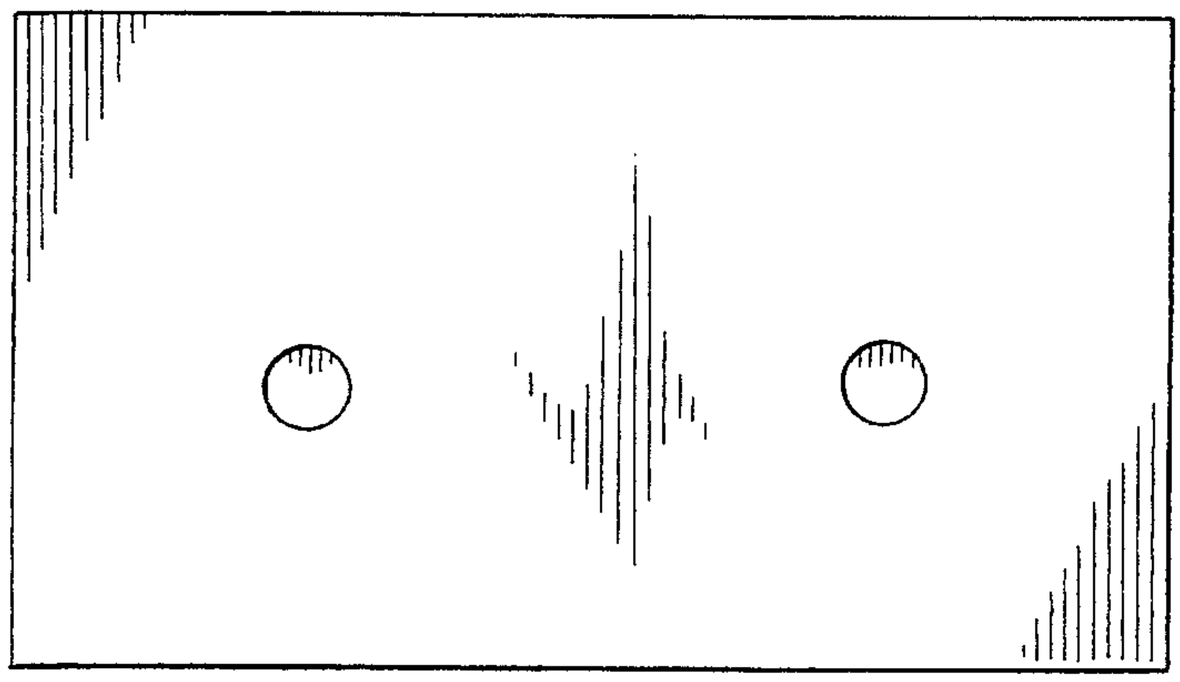
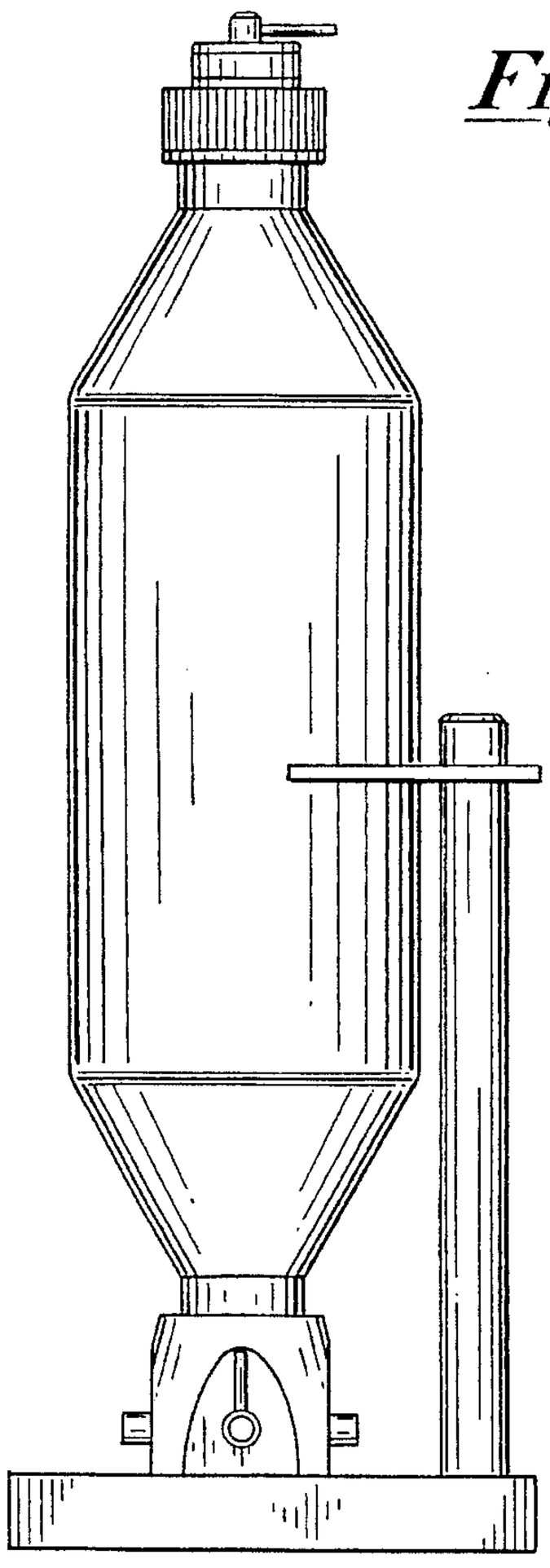


Fig.-5



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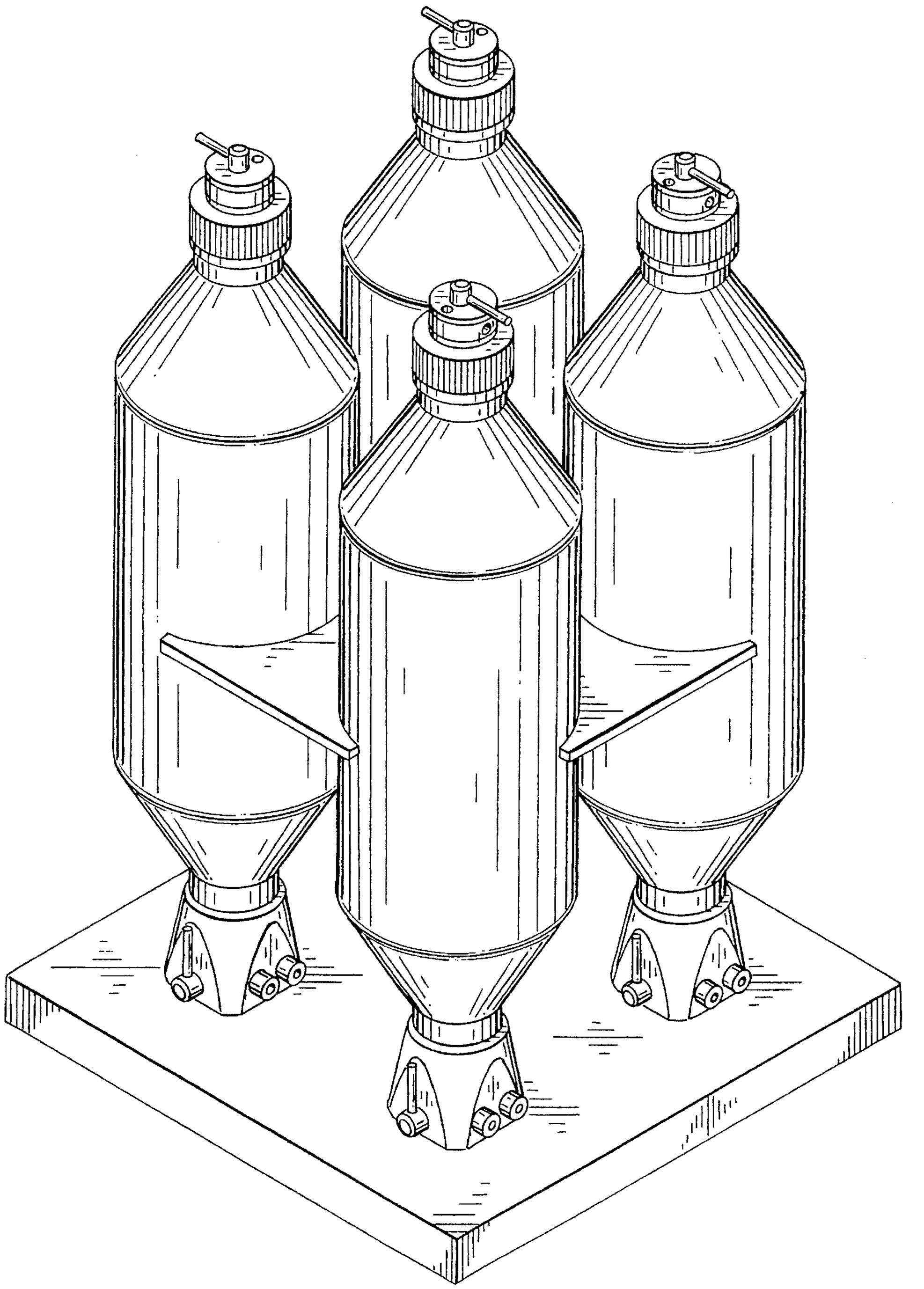


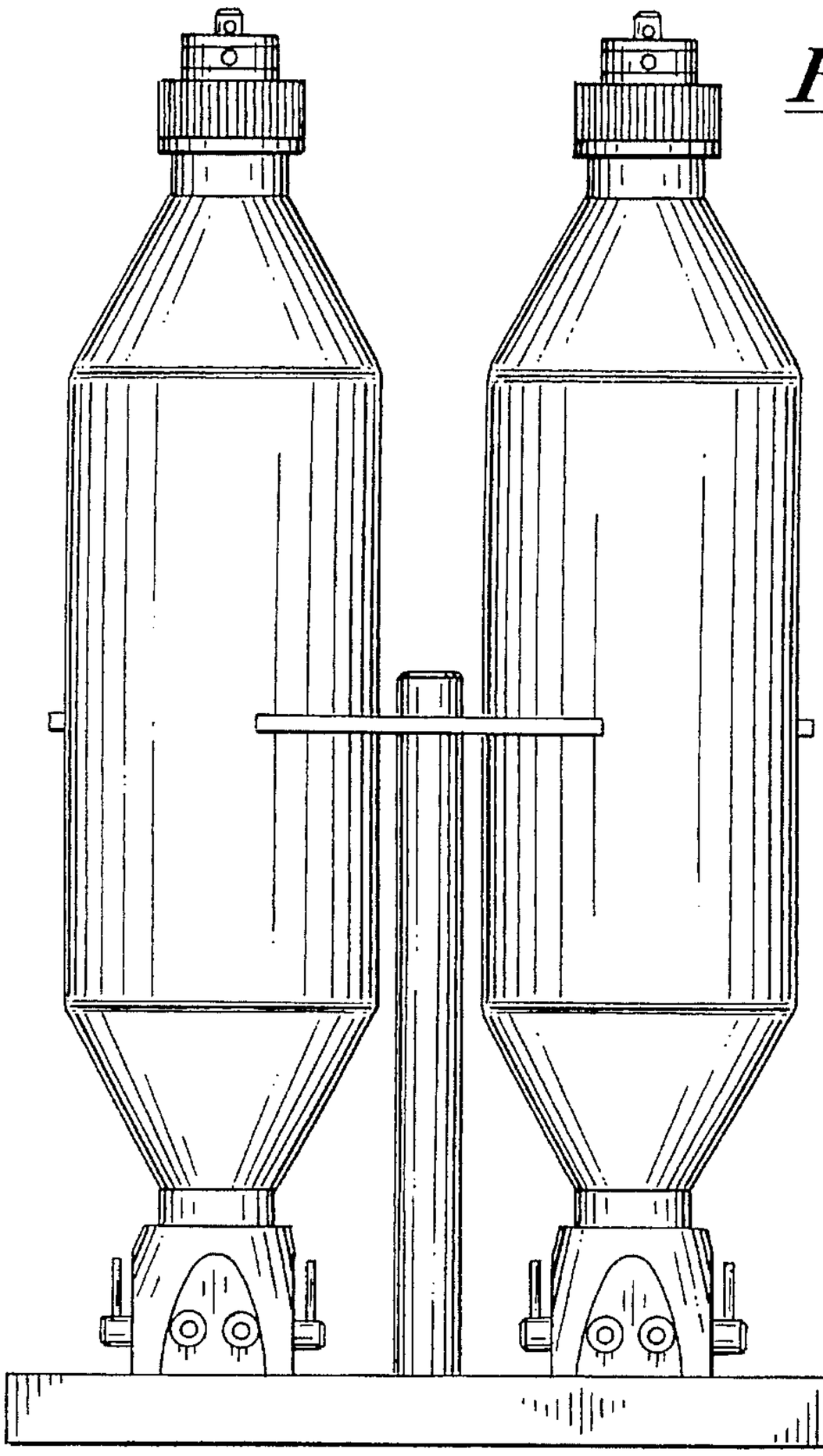


Fig.-7

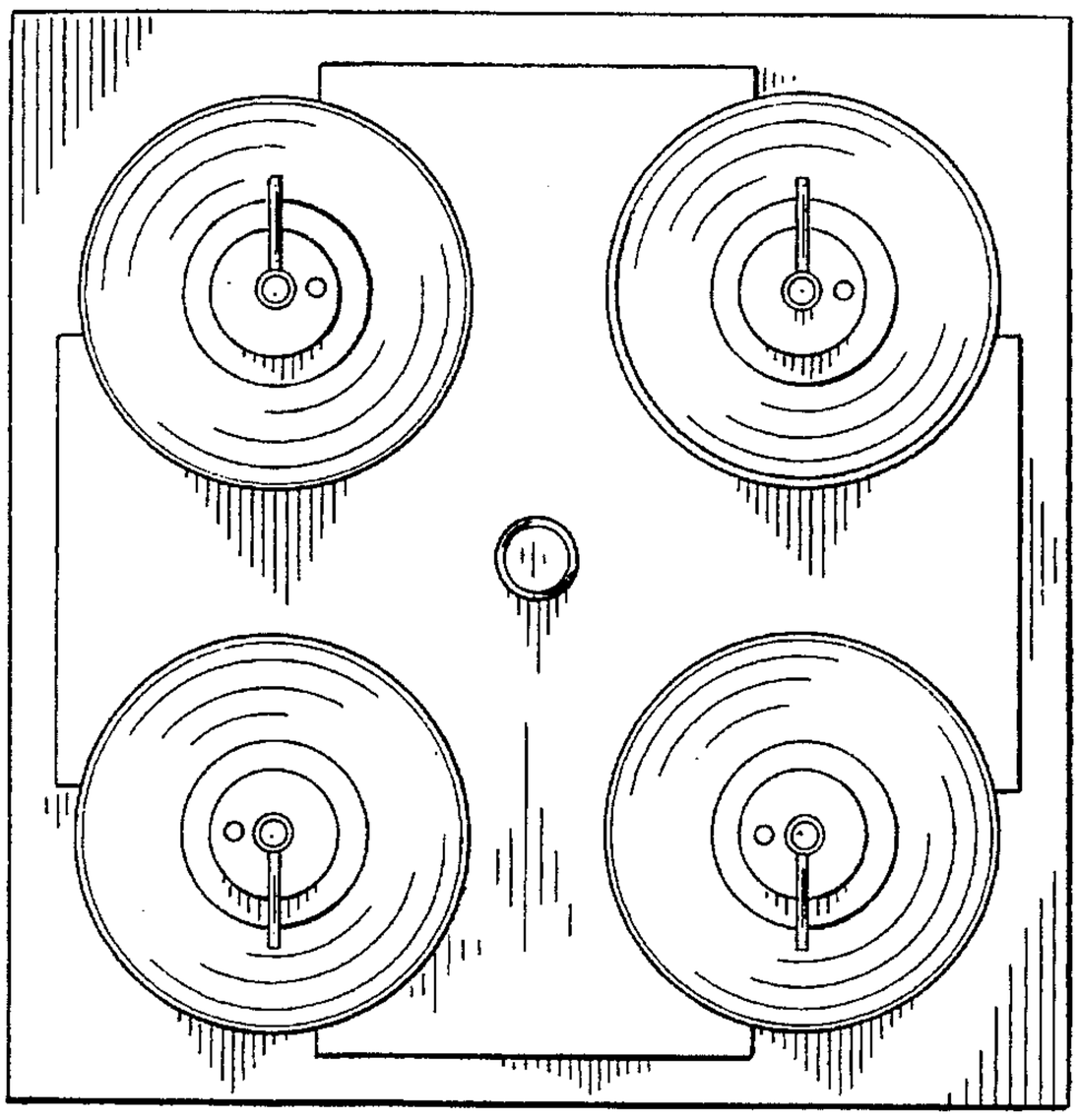


Fig.-8

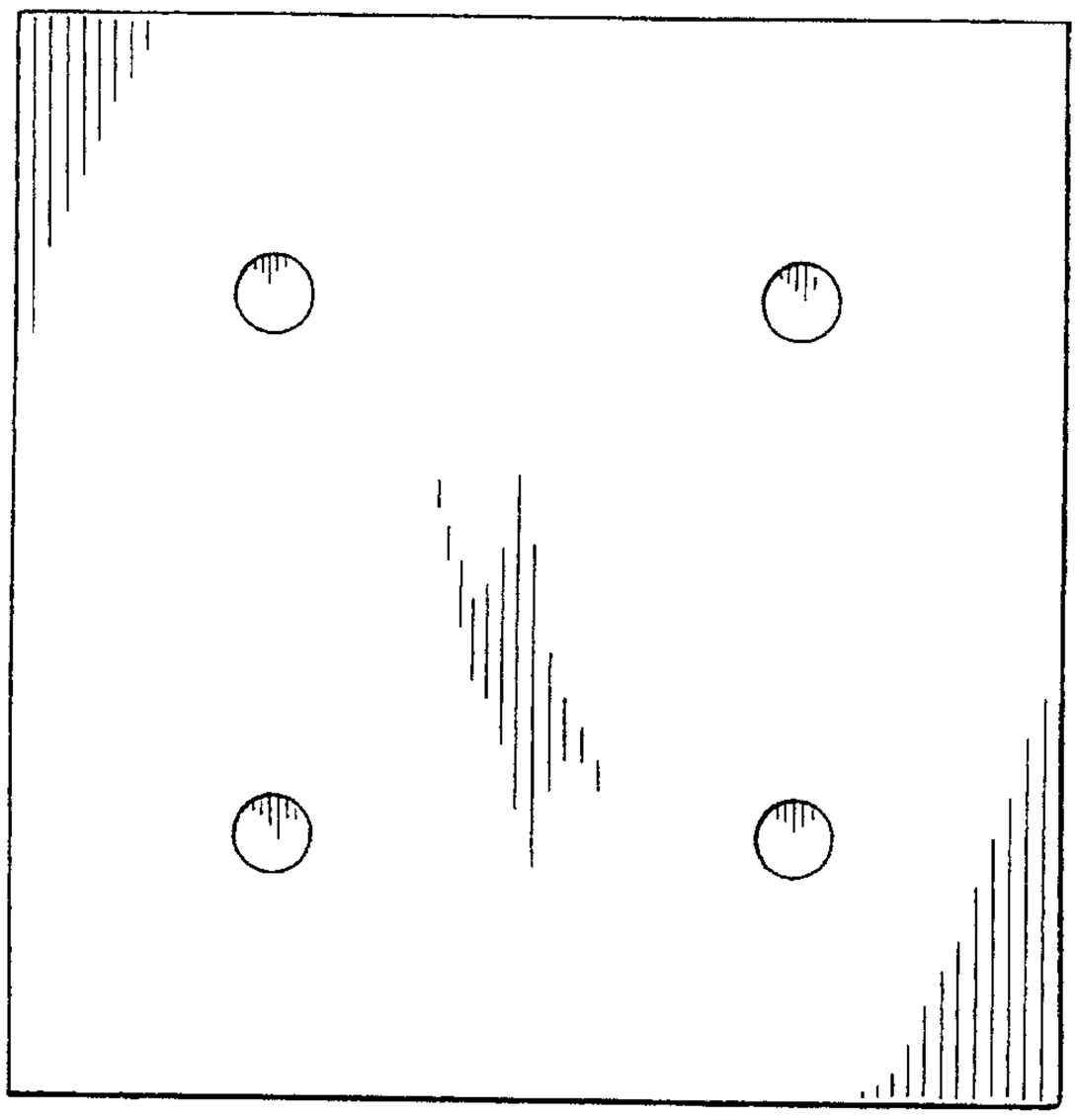


Fig.-9

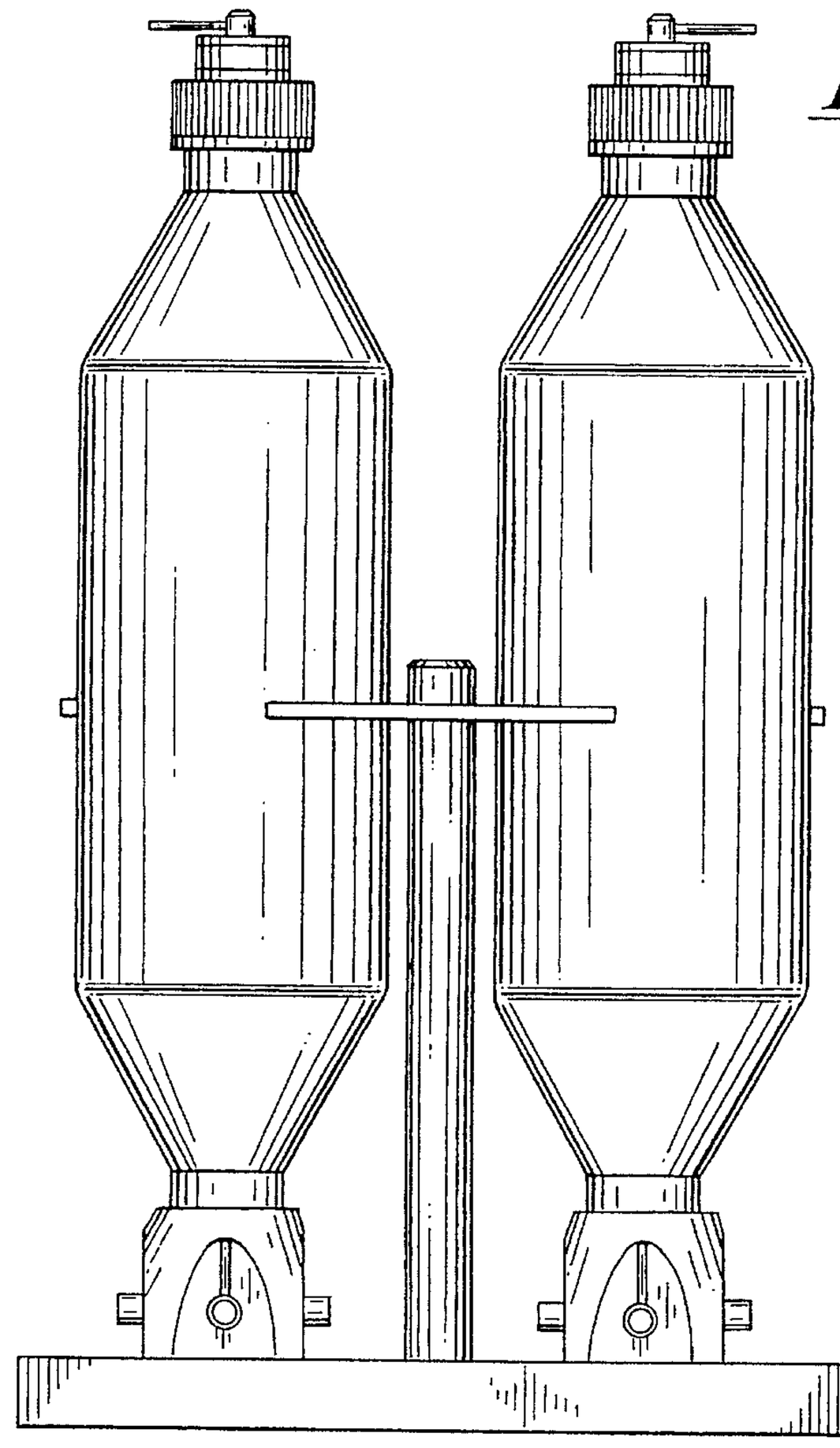
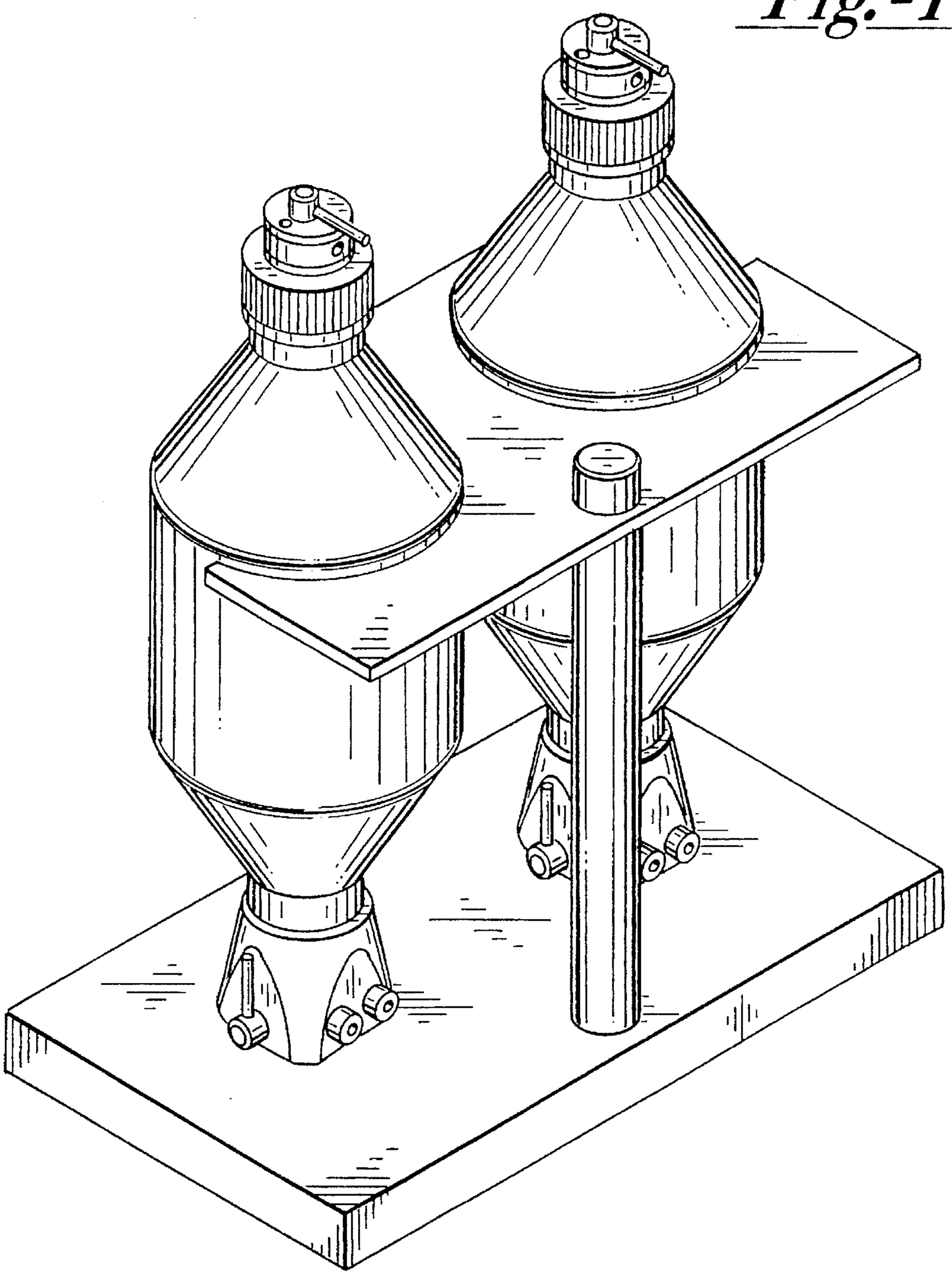
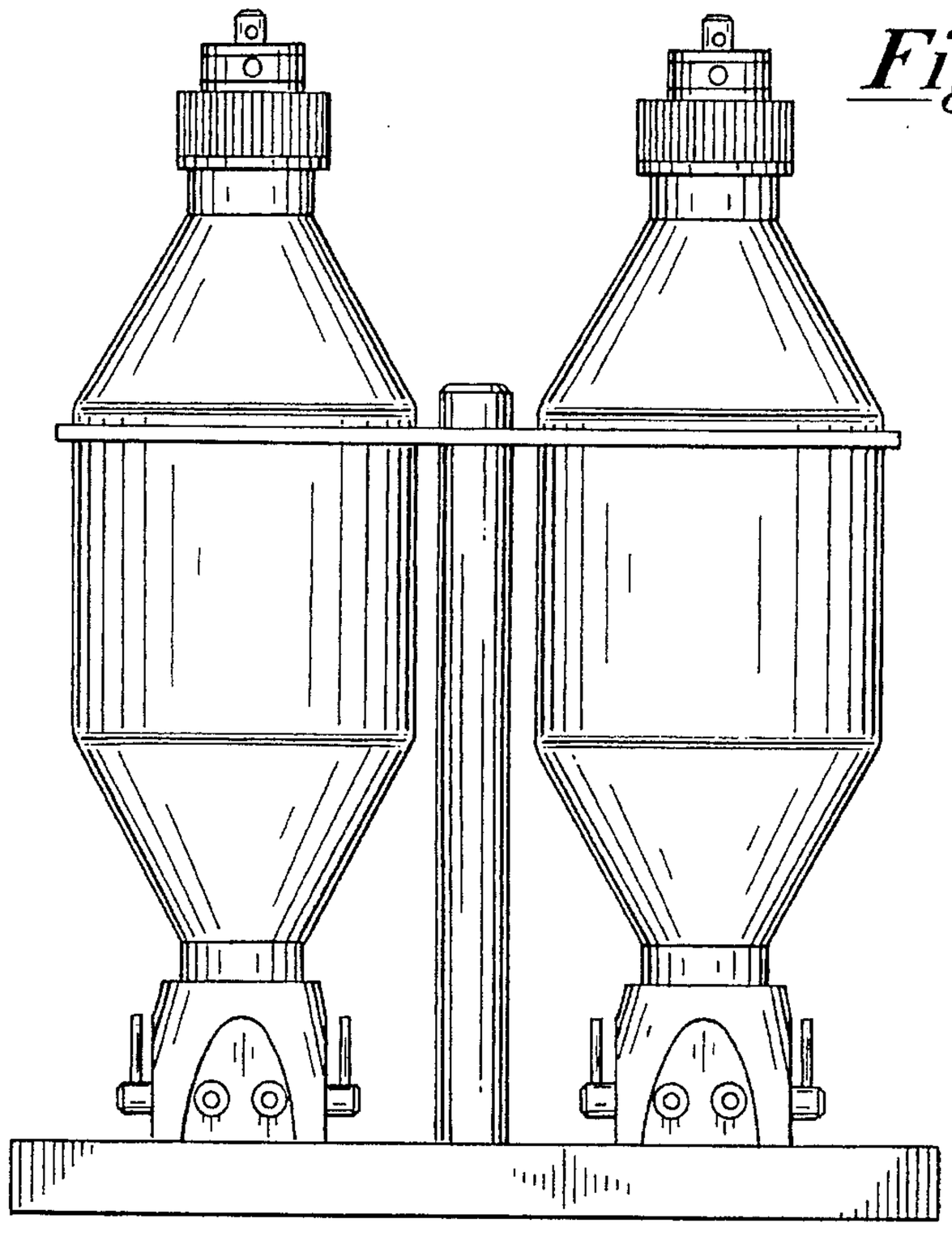


Fig.-10

Fig.-11





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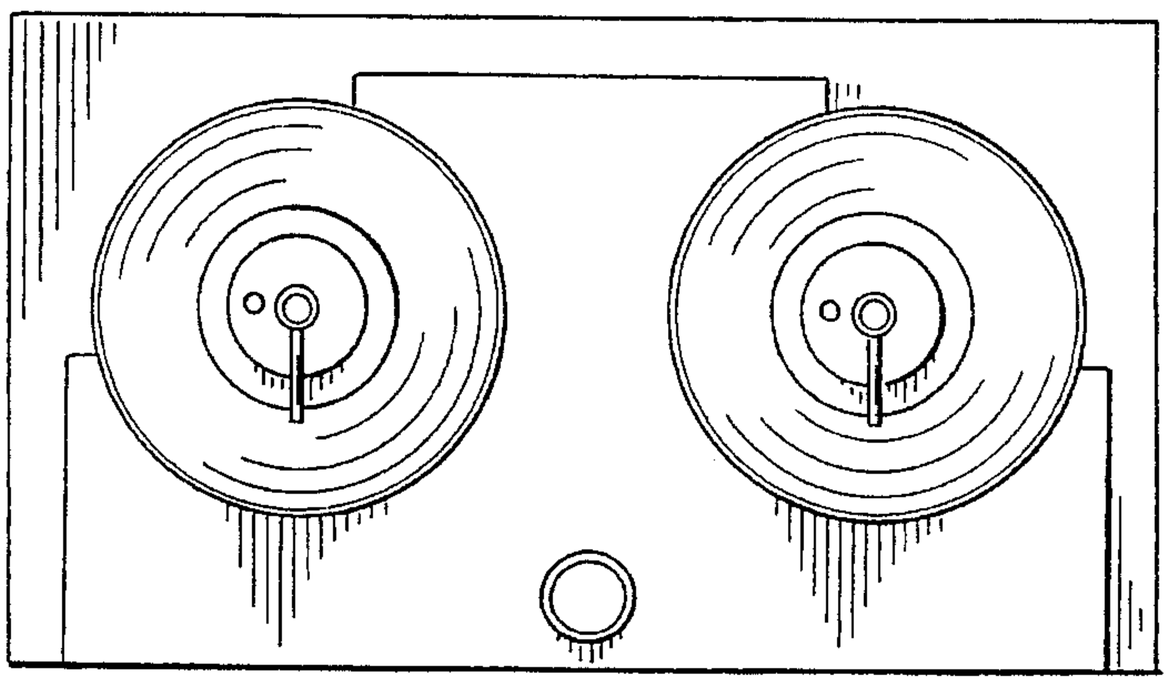


Fig.-13

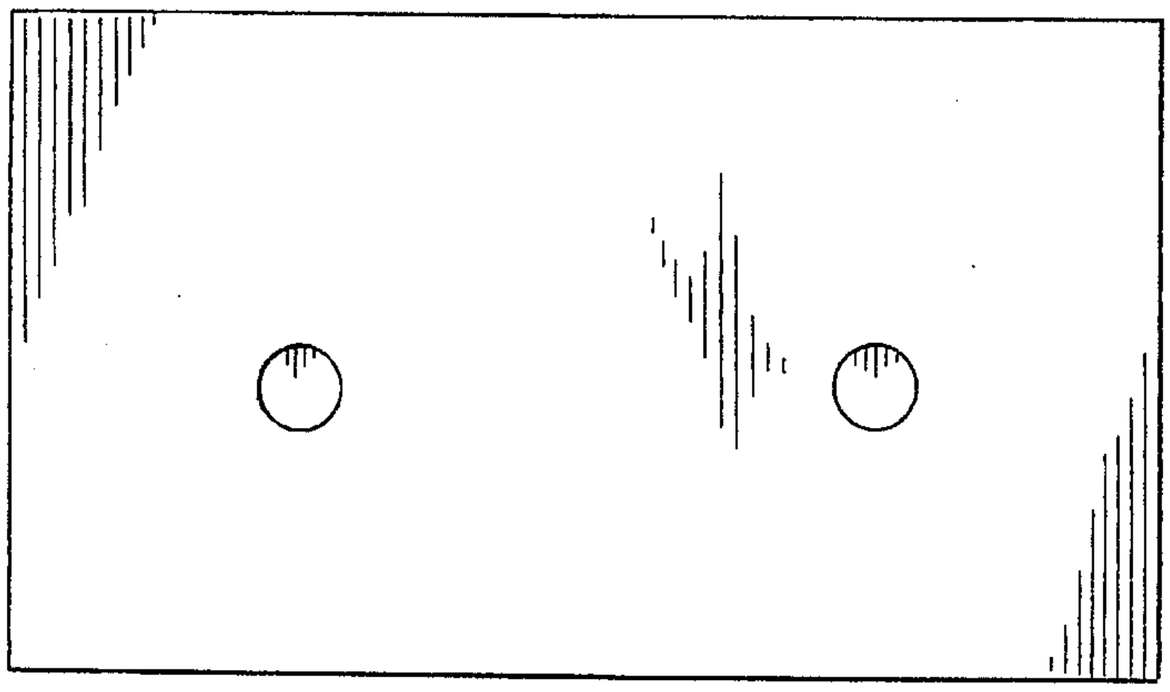


Fig.-14

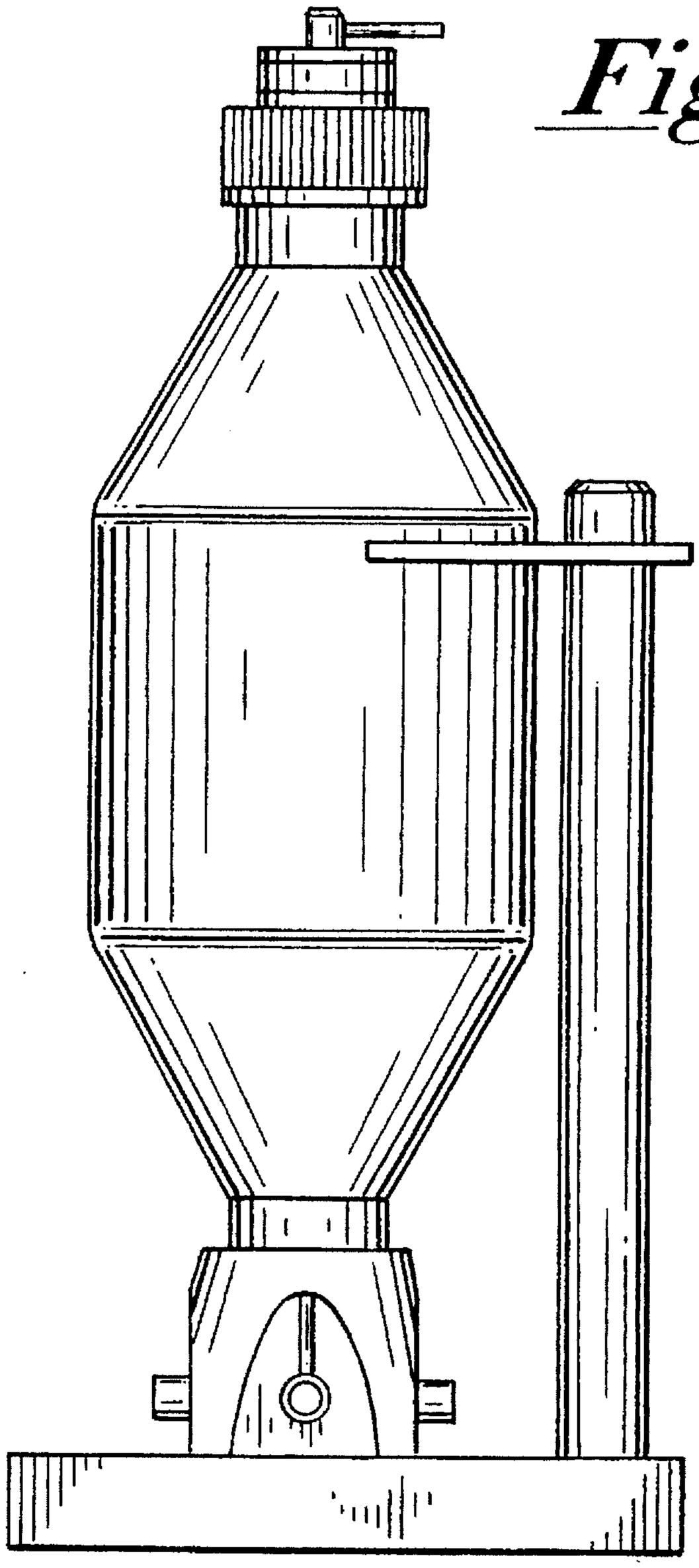
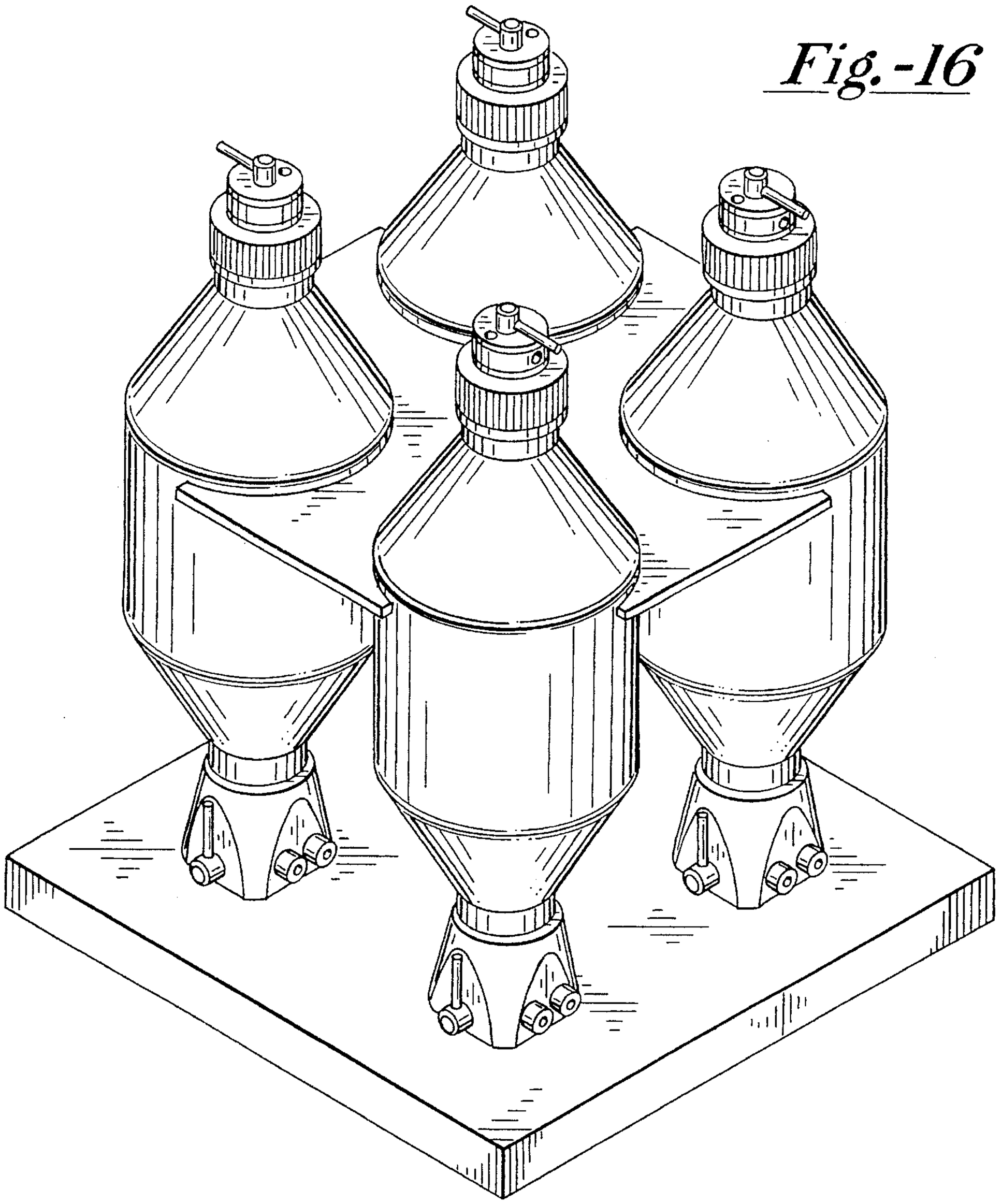


Fig.-15

Fig.-16



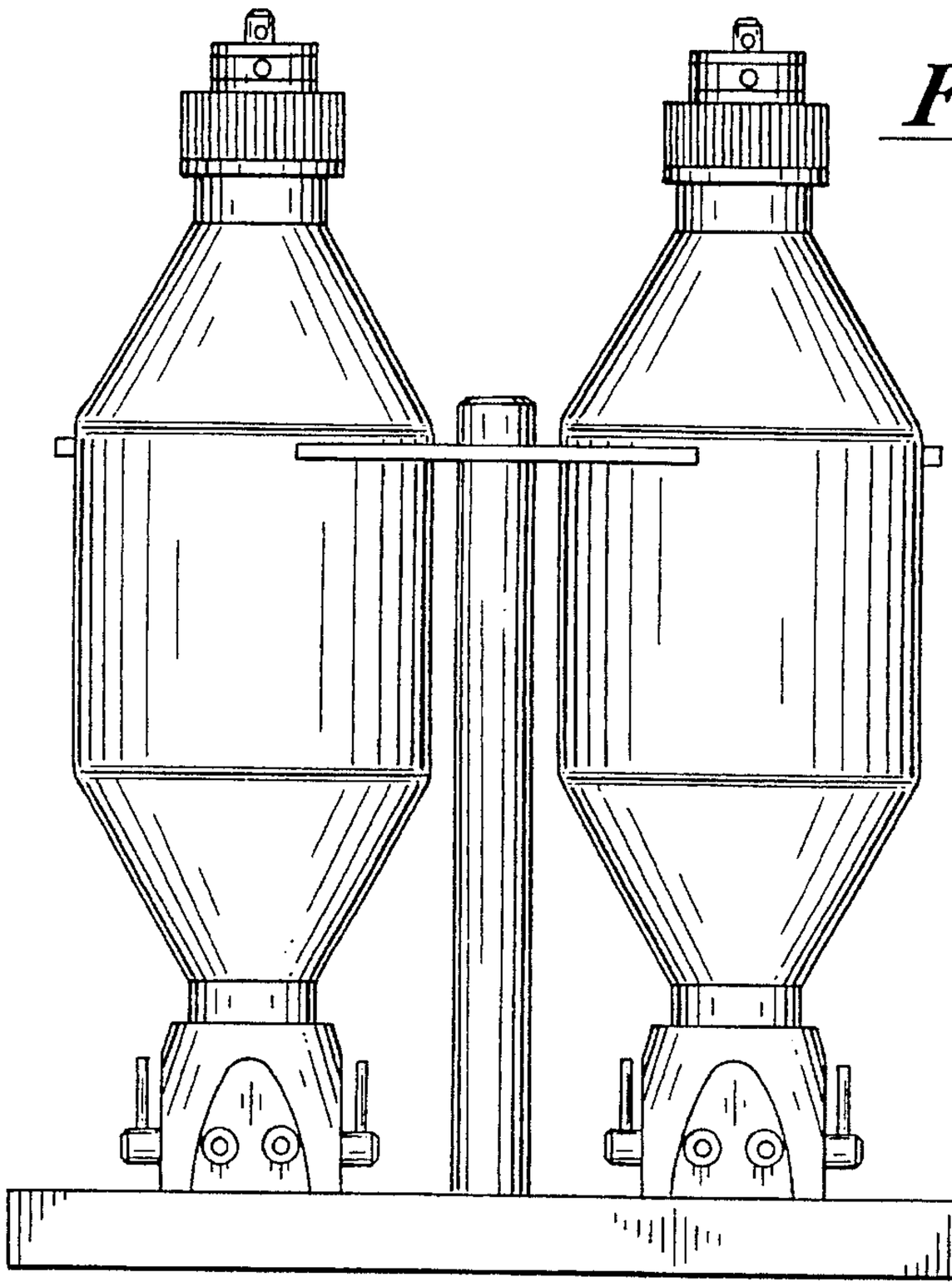


Fig.-17

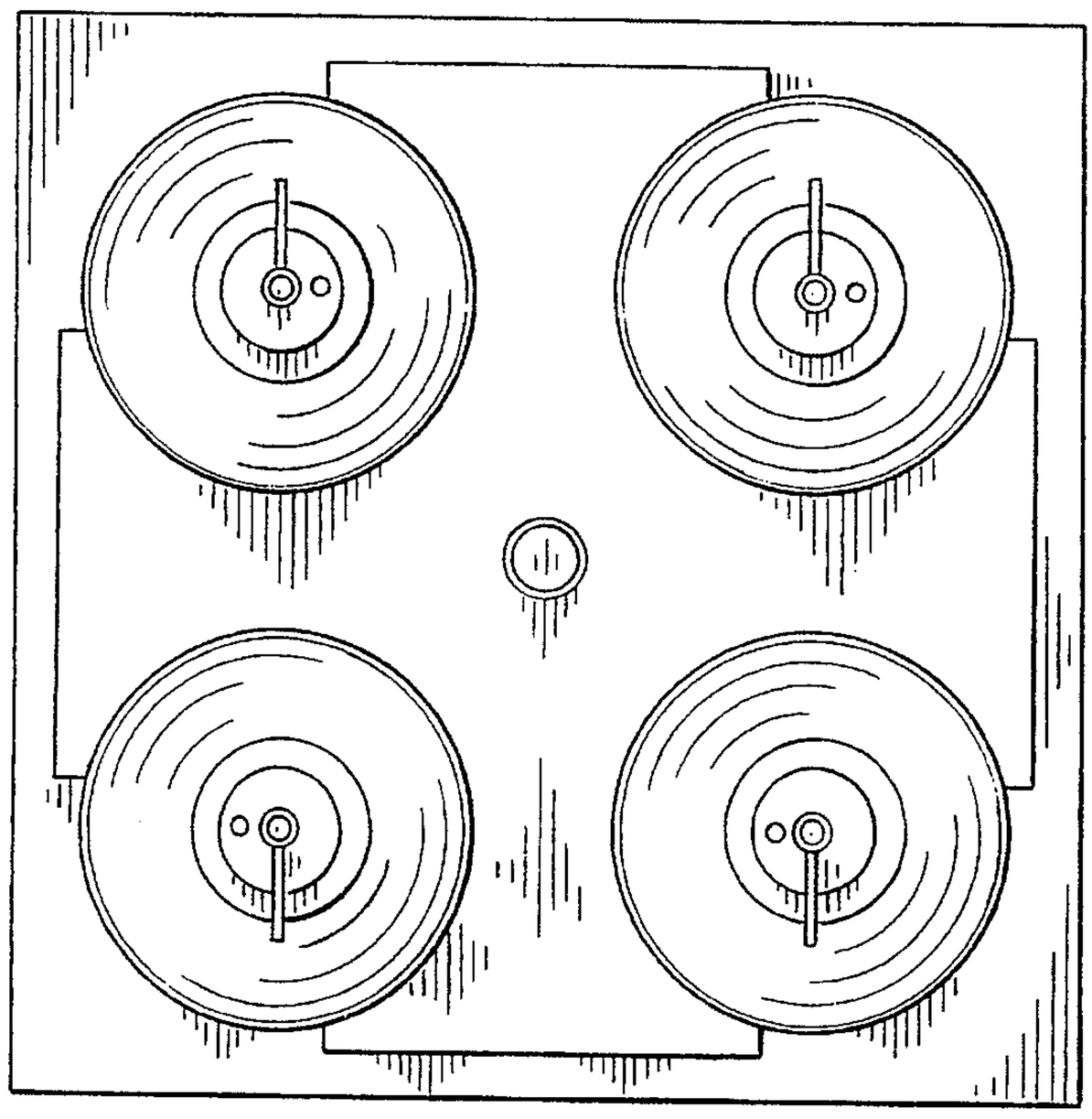


Fig.-18

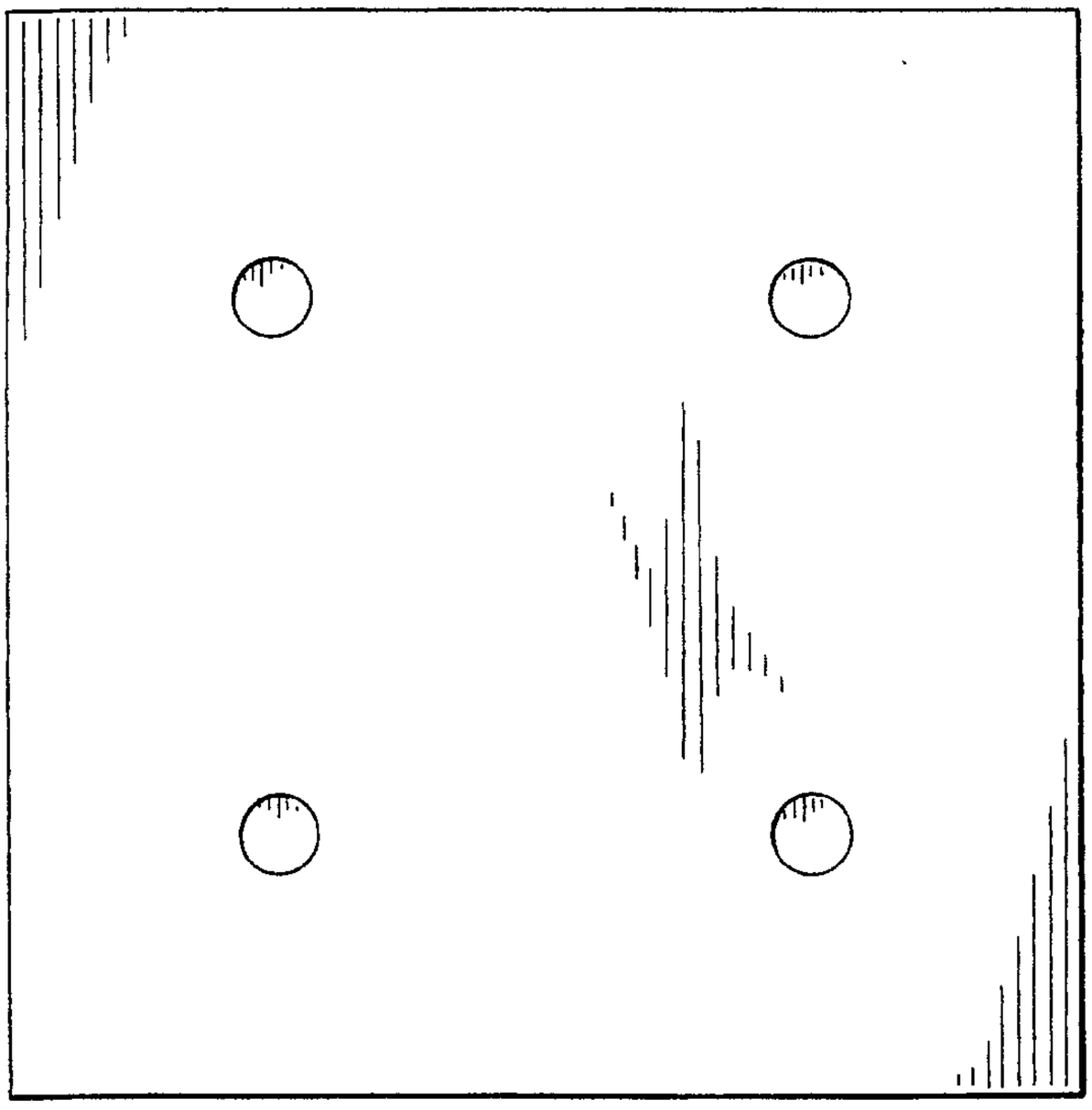


Fig.-19

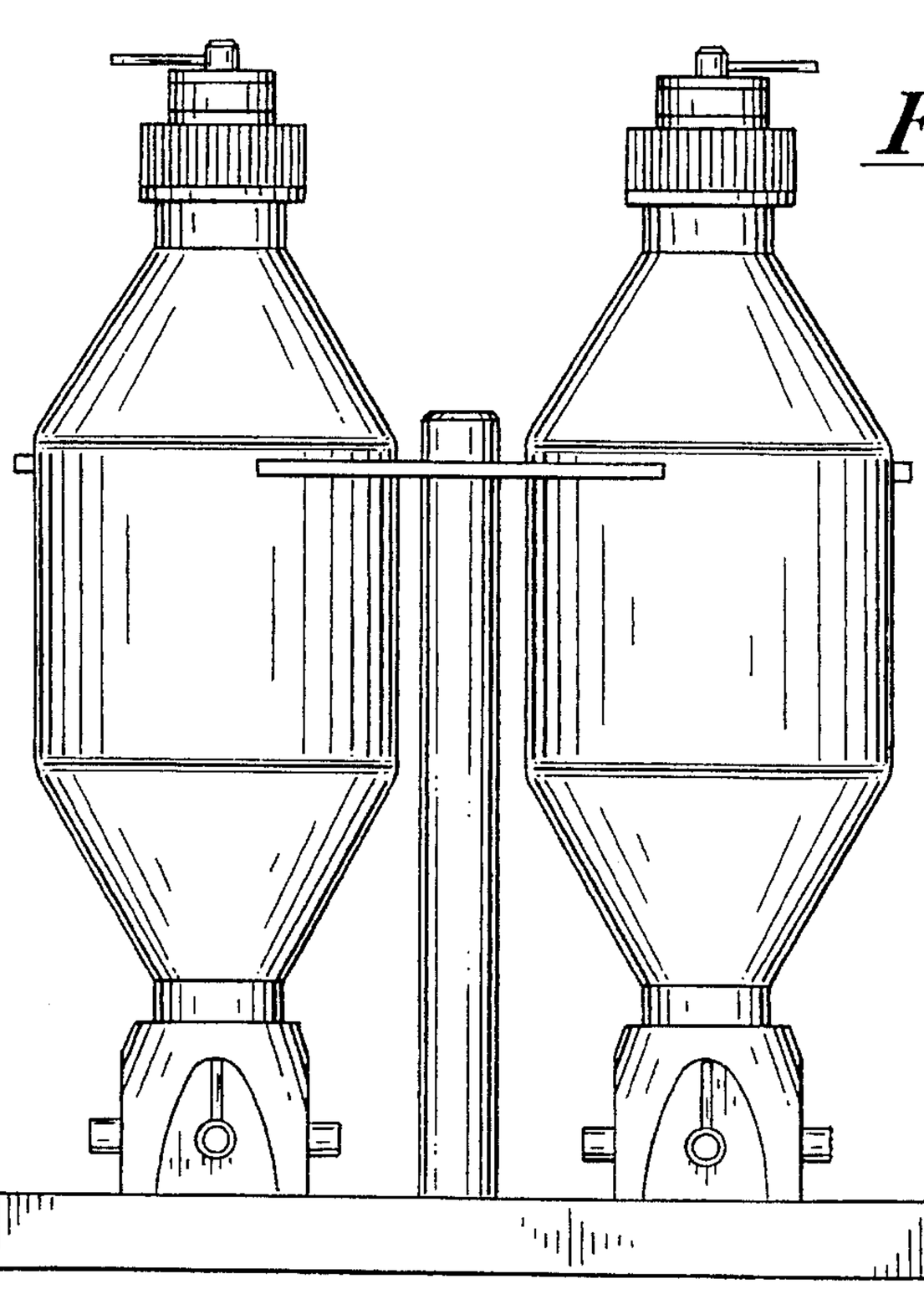
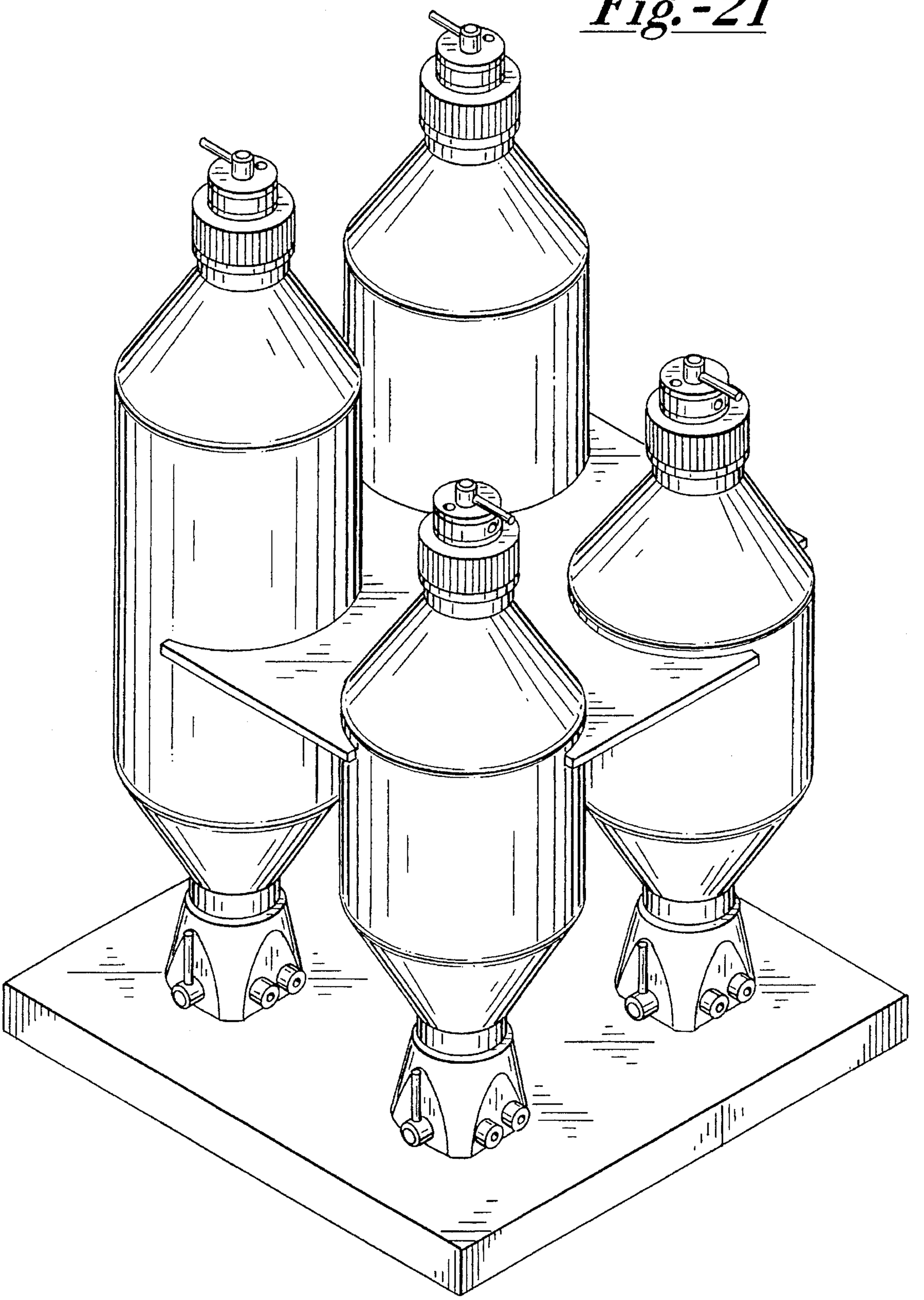


Fig.-20

Fig.-21



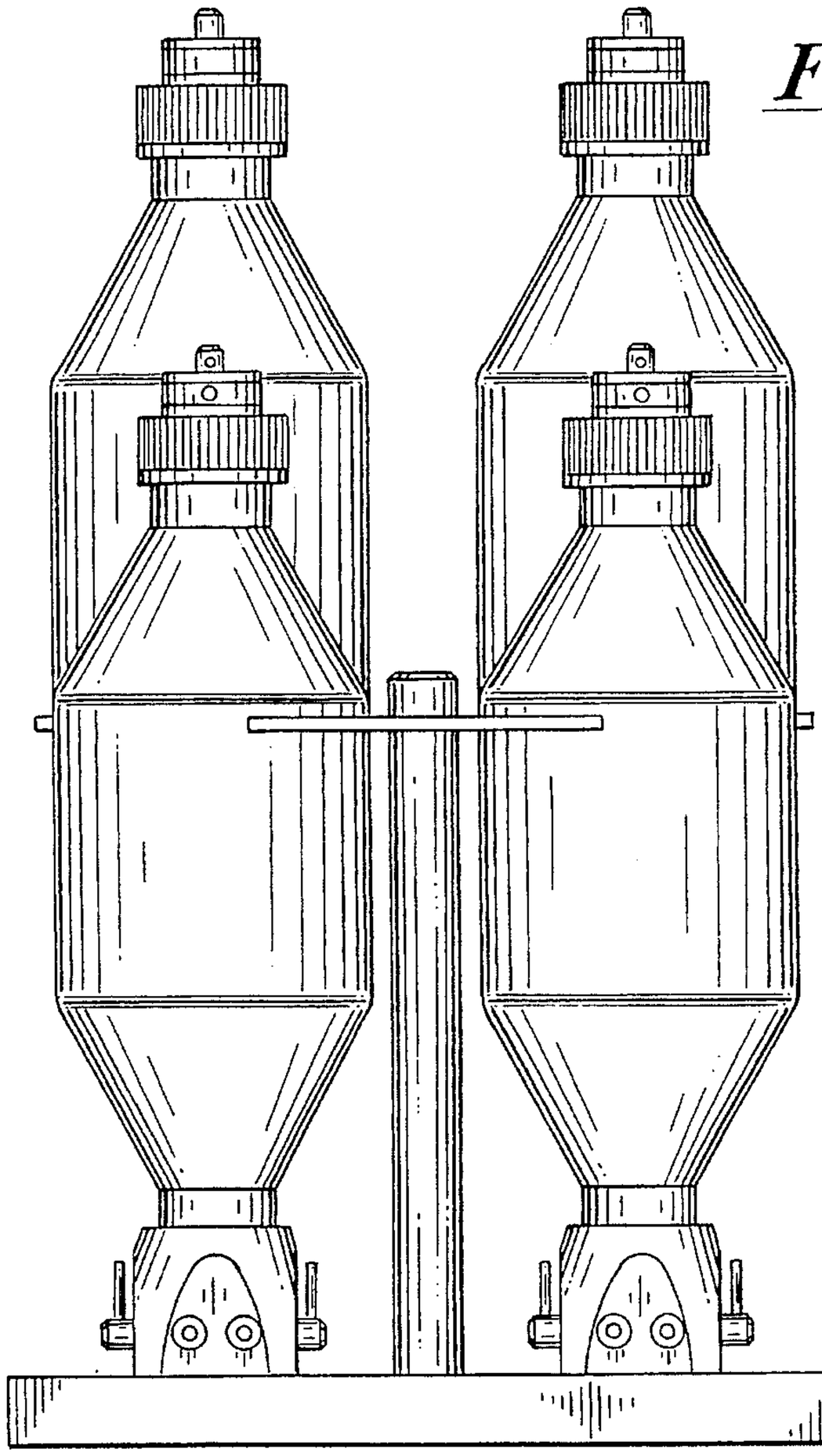


Fig.-22

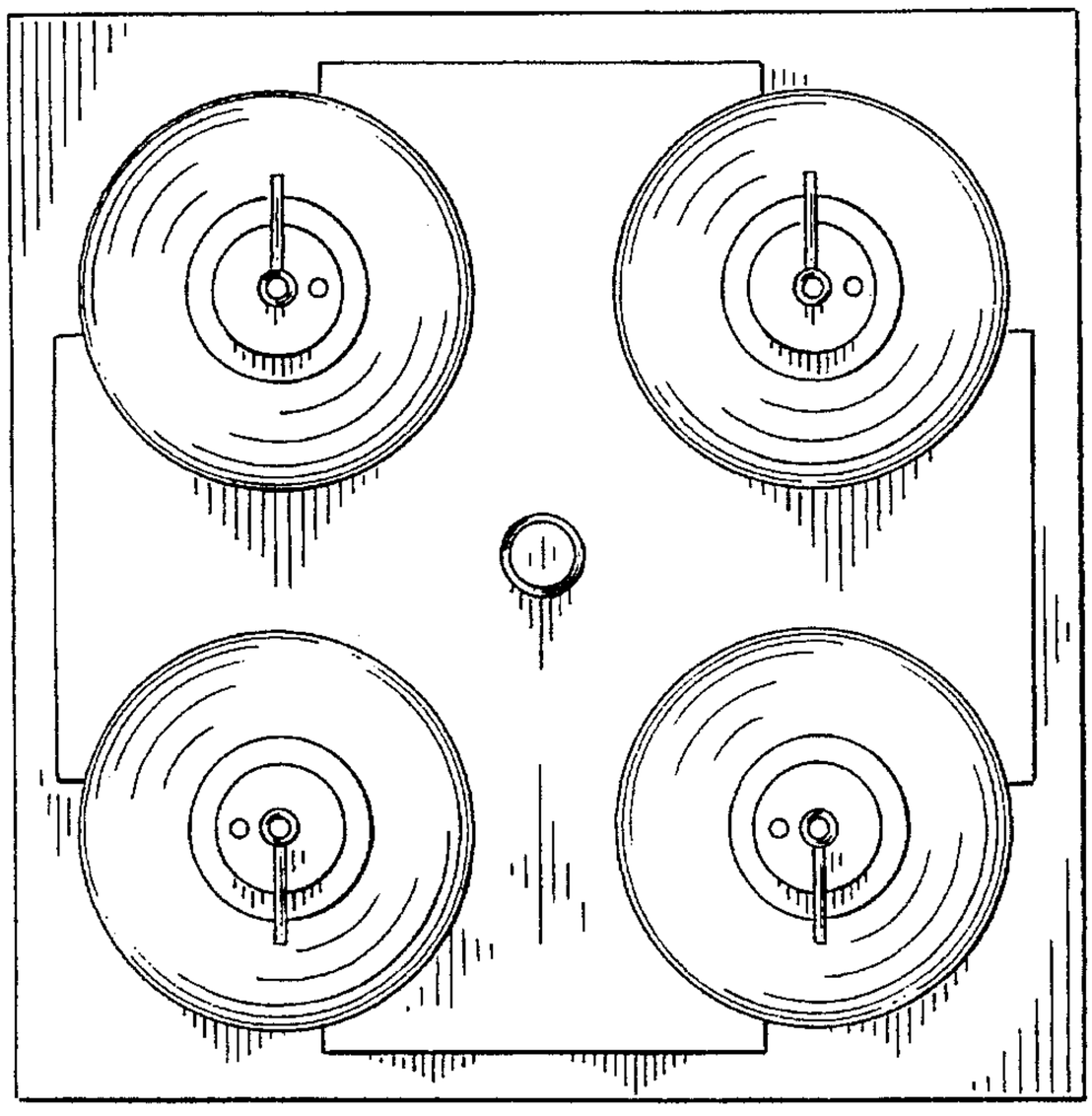


Fig.-23

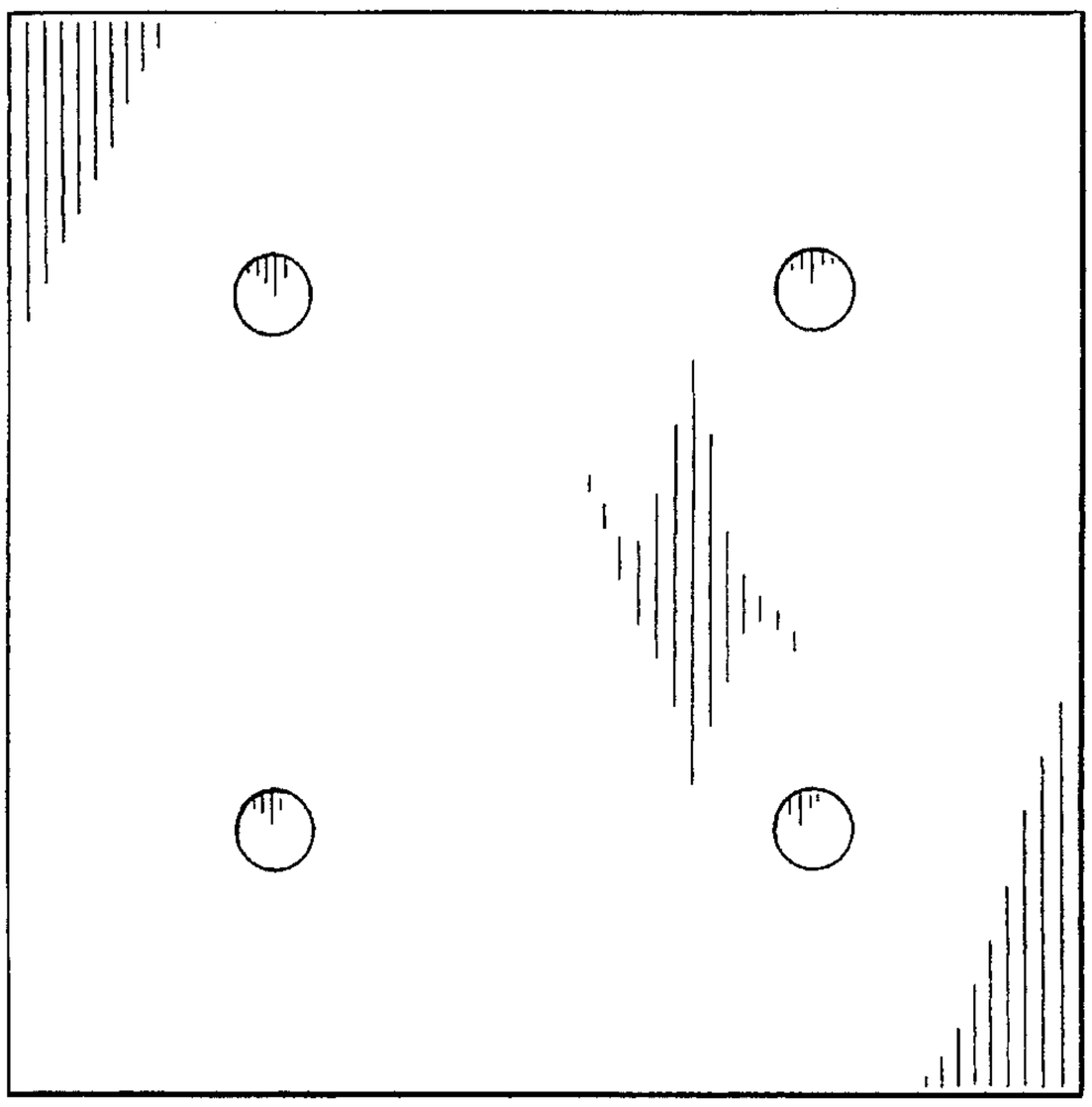


Fig.-24

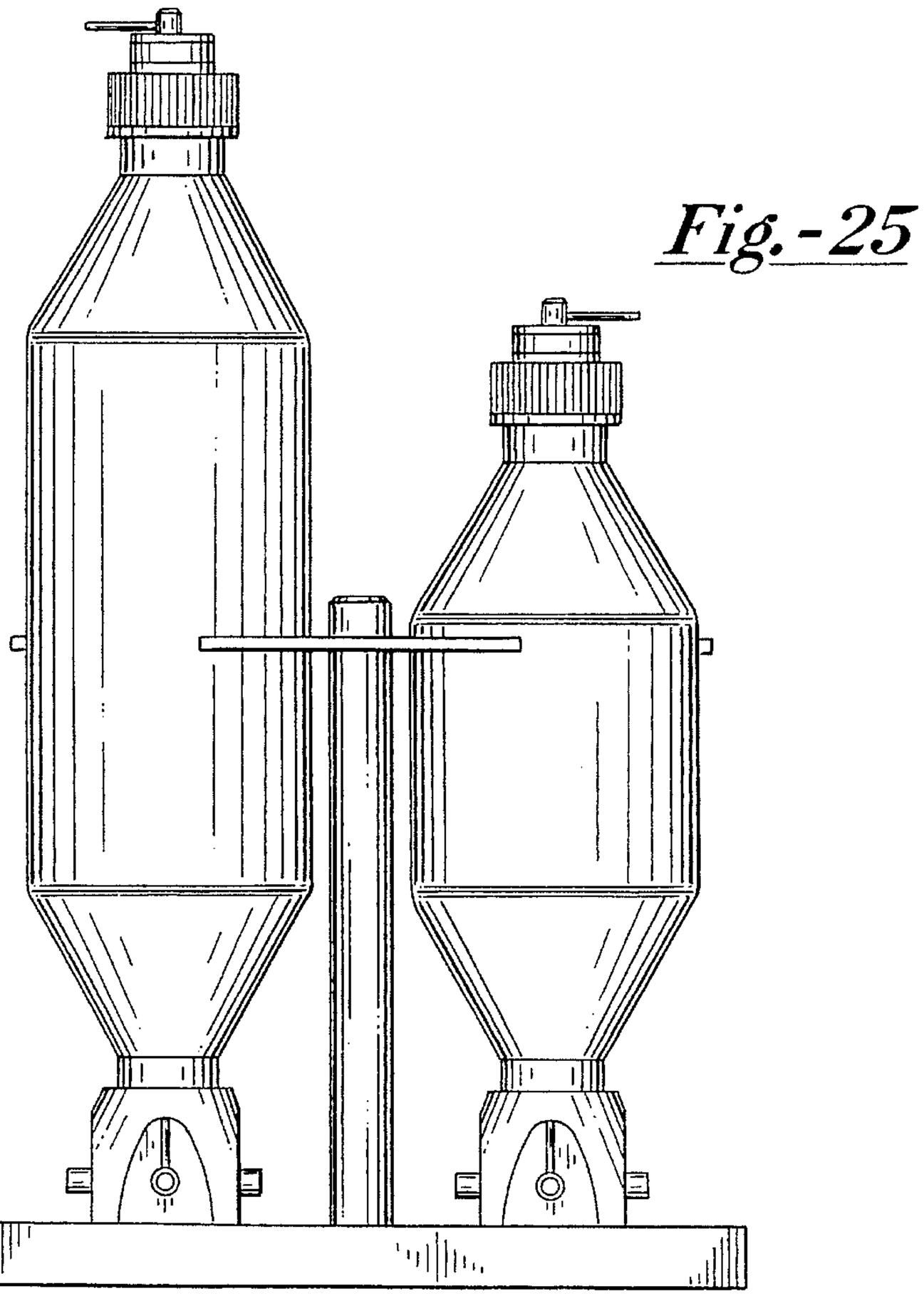


Fig.-25

Fig.-26