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United States Patent [19]

Jung

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[45] Date of Patent: ** Aug. 17, 1993

[54] **SOUND CONCENTRATING AND DIRECTING HORN ATTACHMENT FOR LOUDSPEAKERS**

[76] Inventor: **Gin K. Jung**, 93-7 3GA Jung Ang Dong, Iri-City Jungbuk 570-120, Rep. of Korea

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

[21] Appl. No.: **639,180**

[22] Filed: **Jan. 9, 1991**

[30] **Foreign Application Priority Data**

Nov. 12, 1990 [KR] Rep. of Korea 15813
Nov. 26, 1990 [KR] Rep. of Korea 16514
Nov. 26, 1990 [KR] Rep. of Korea 16515
Nov. 26, 1990 [KR] Rep. of Korea 16516

[52] **U.S. Cl.** **D14/208**

[58] **Field of Search** D14/204, 207, 208, 216; 181/122, 152, 159

[56] **References Cited**

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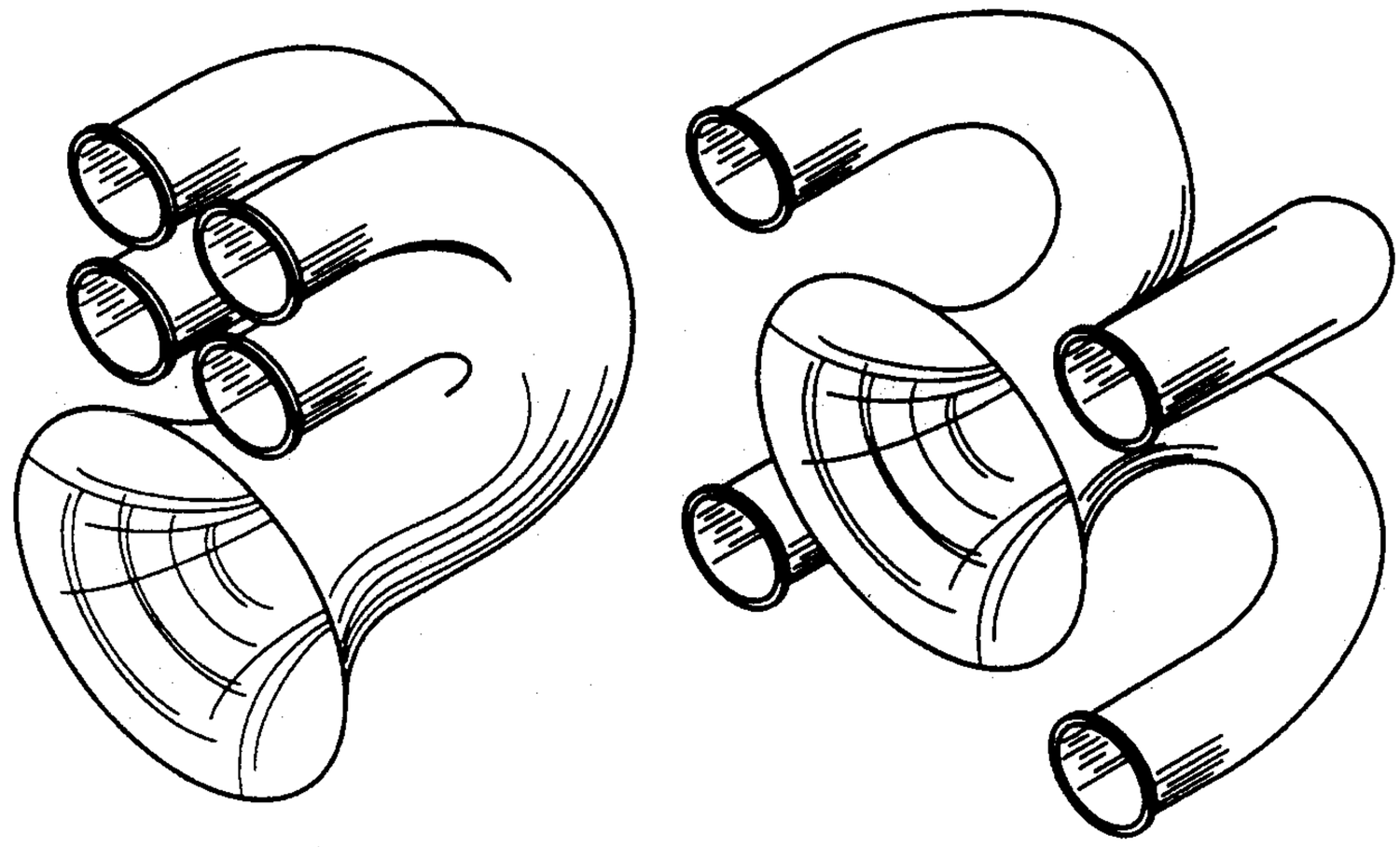
Primary Examiner—Bernard Ansher
Assistant Examiner—Sandra Morris
Attorney, Agent, or Firm—Pennie & Edmonds

[57] **CLAIM**

The ornamental design of a sound concentrating and directing horn attachment for loudspeakers, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a sound concentrating and directing horn attachment for loudspeakers, showing my new design;
FIG. **2** is a front elevational view thereof;
FIG. **3** is a rear elevational view thereof;
FIG. **4** is a top plan view thereof;
FIG. **5** is a bottom plan view thereof;
FIG. **6** is a right side elevational view thereof;
FIG. **7** is a perspective view of a second embodiment of the design in FIG. **1**;
FIG. **8** is a right side elevational view thereof;
FIG. **9** is a front elevational view thereof;
FIG. **10** is a rear elevational view thereof;
FIG. **11** is a perspective view of a third embodiment of the design in FIG. **1**;
FIG. **12** is a front elevational view thereof;
FIG. **13** is a rear elevational view thereof;
FIG. **14** is a top plan view thereof;
FIG. **15** is a right side elevational view thereof;
FIG. **16** is a left side elevational view thereof;
FIG. **17** is a perspective view of a fourth embodiment of the design in FIG. **1**;
FIG. **18** is a front elevational view thereof;
FIG. **19** is a rear elevational view thereof;
FIG. **20** is a top plan view thereof;
FIG. **21** is a right side elevational view thereof;
FIG. **22** is a left side elevational view thereof;
FIG. **23** is a perspective view of a fifth embodiment of the design in FIG. **1**;
FIG. **24** is a front elevational view thereof;
FIG. **25** is a rear elevational view thereof;
FIG. **26** is a top plan view thereof;
FIG. **27** is a right side elevational view thereof;
FIG. **28** is a left side elevational view thereof;
FIG. **29** is a perspective view of a sixth embodiment of the design in FIG. **1**;
FIG. **30** is a front elevational view thereof;
FIG. **31** is a rear elevational view thereof;
FIG. **32** is a top plan view thereof;
FIG. **33** is a right side elevational view thereof; and,
FIG. **34** is a left side elevational view thereof.



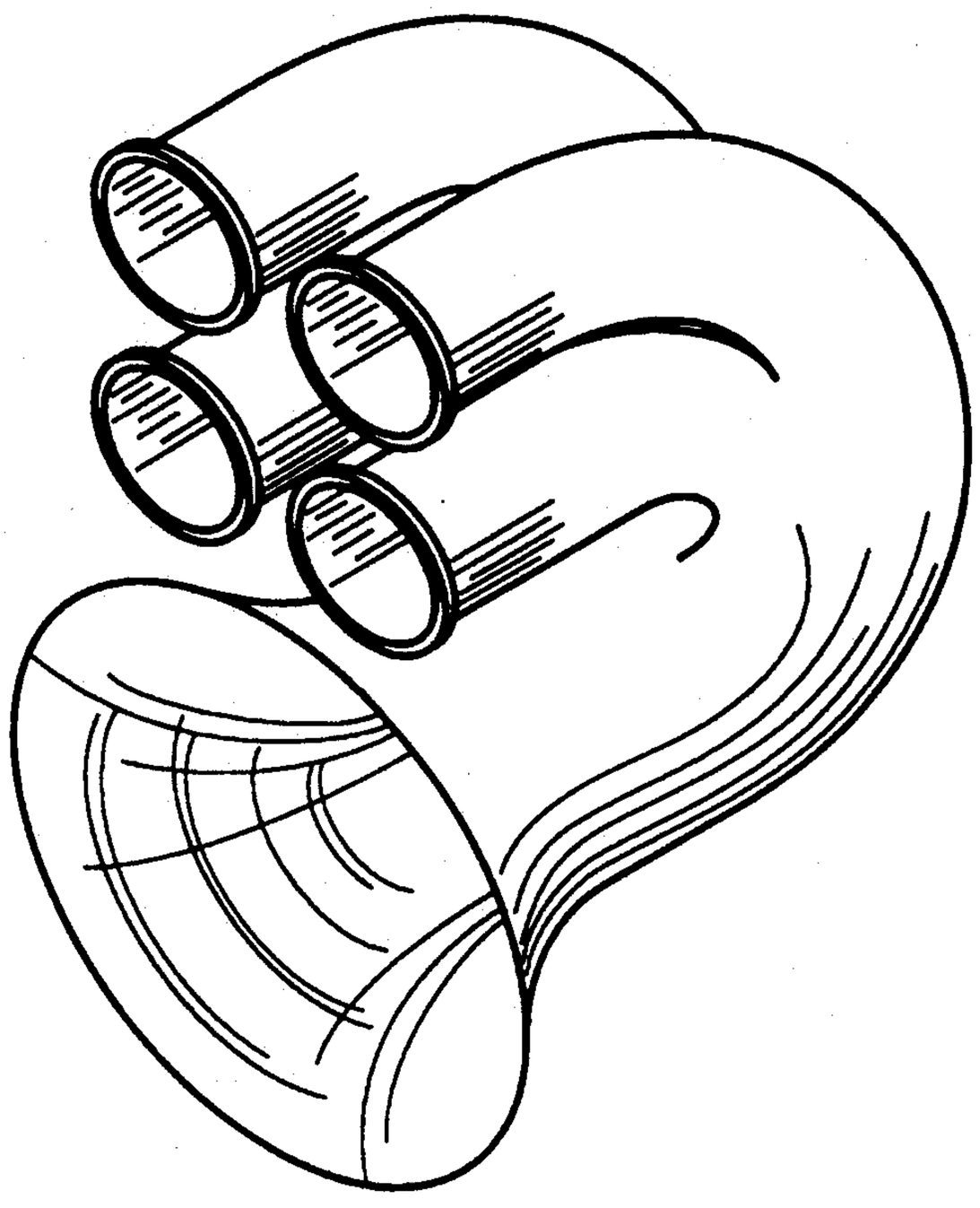


FIG. 1

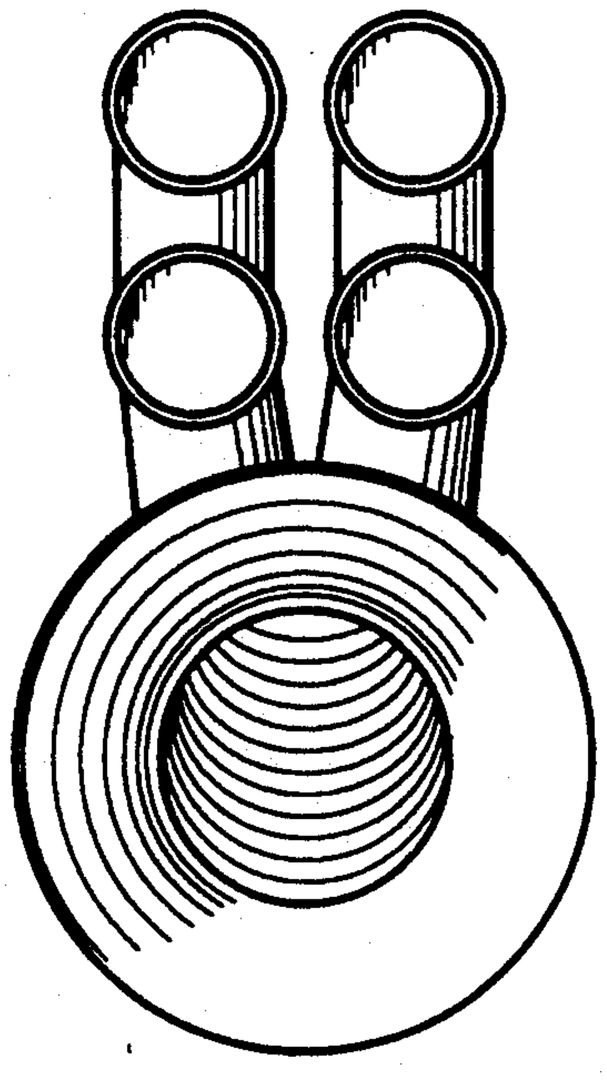


FIG. 2

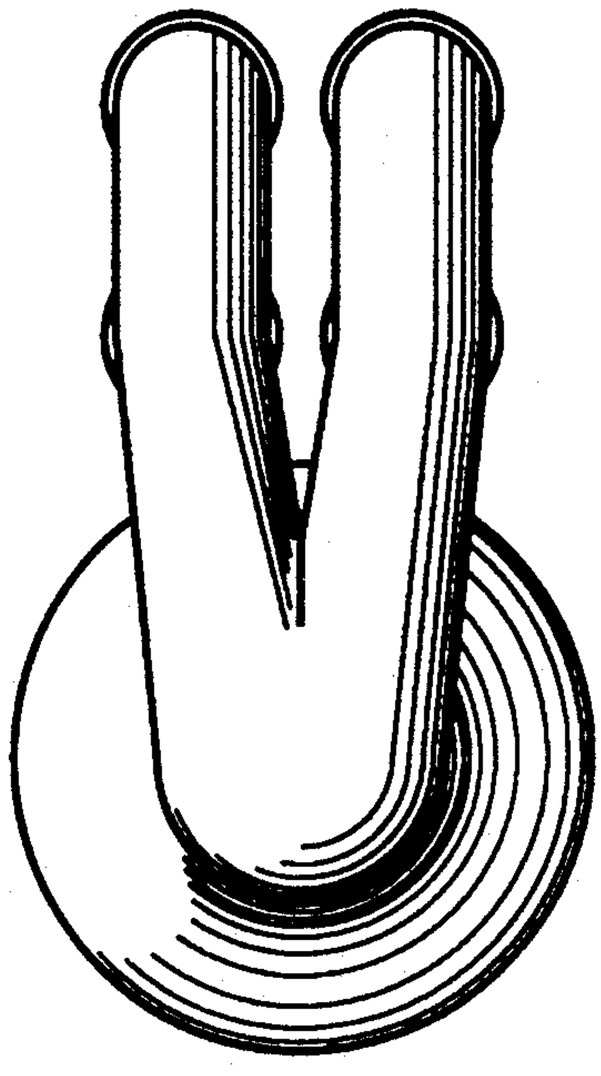


FIG. 3

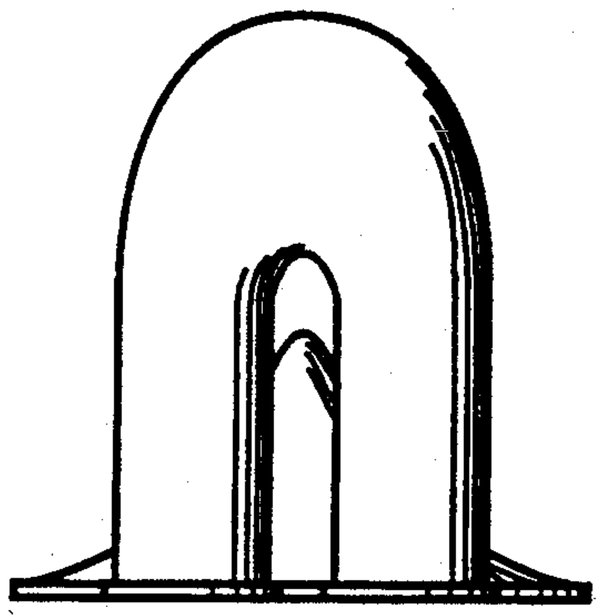


FIG. 4

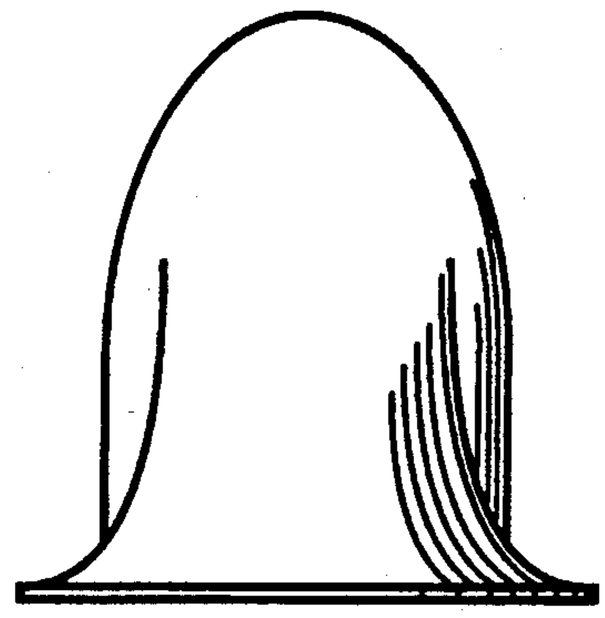


FIG. 5

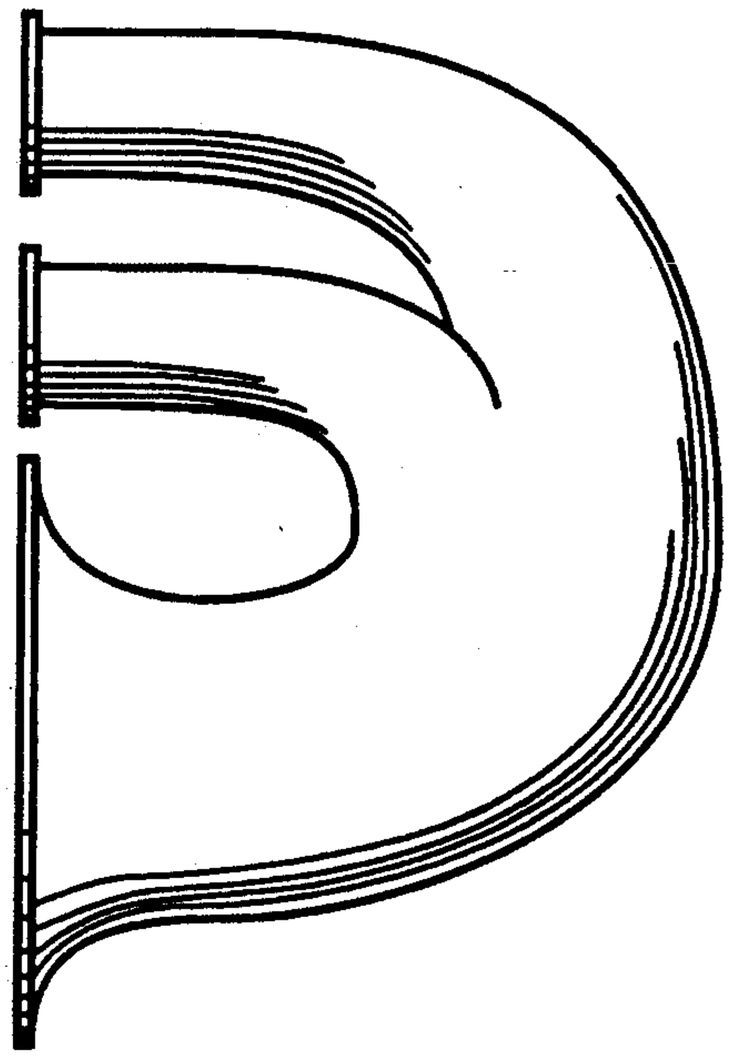


FIG. 6

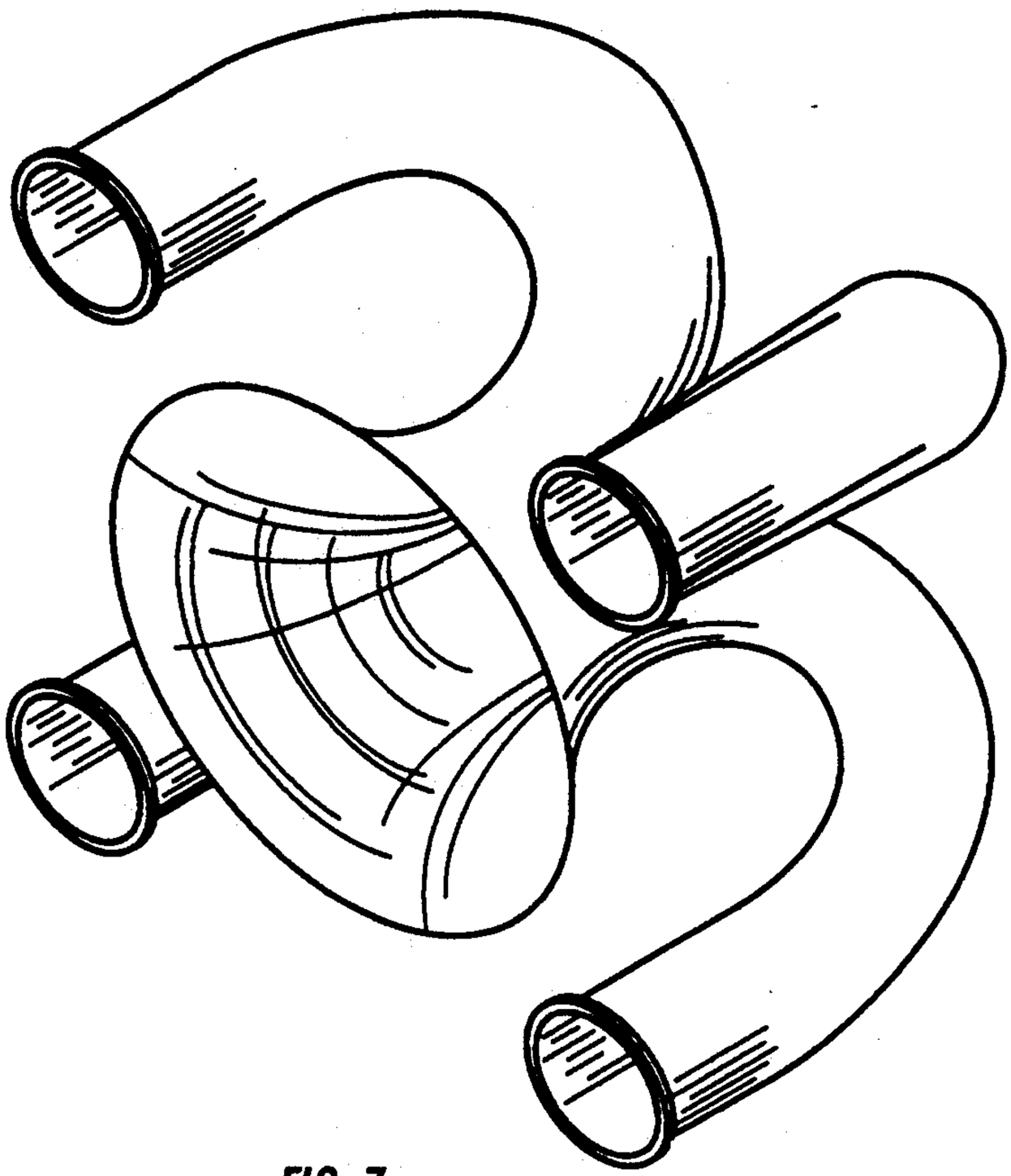


FIG. 7

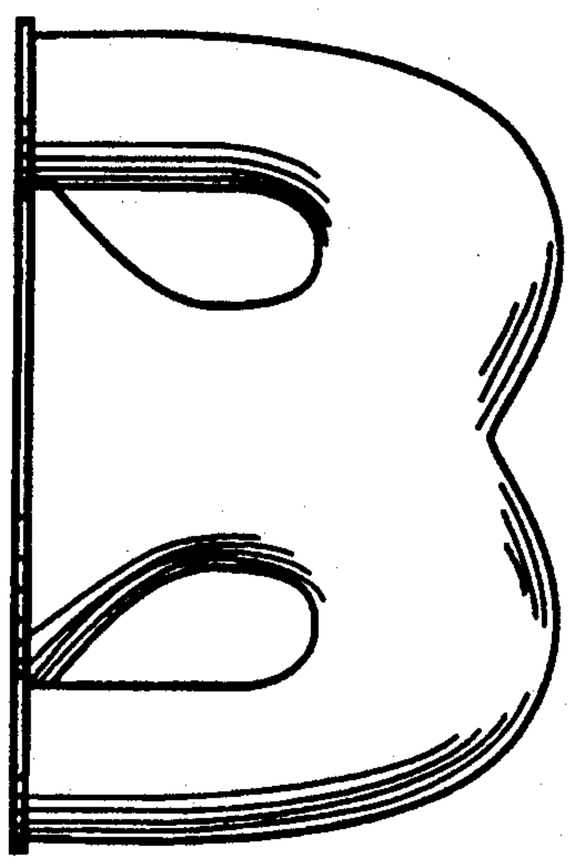


FIG. 8

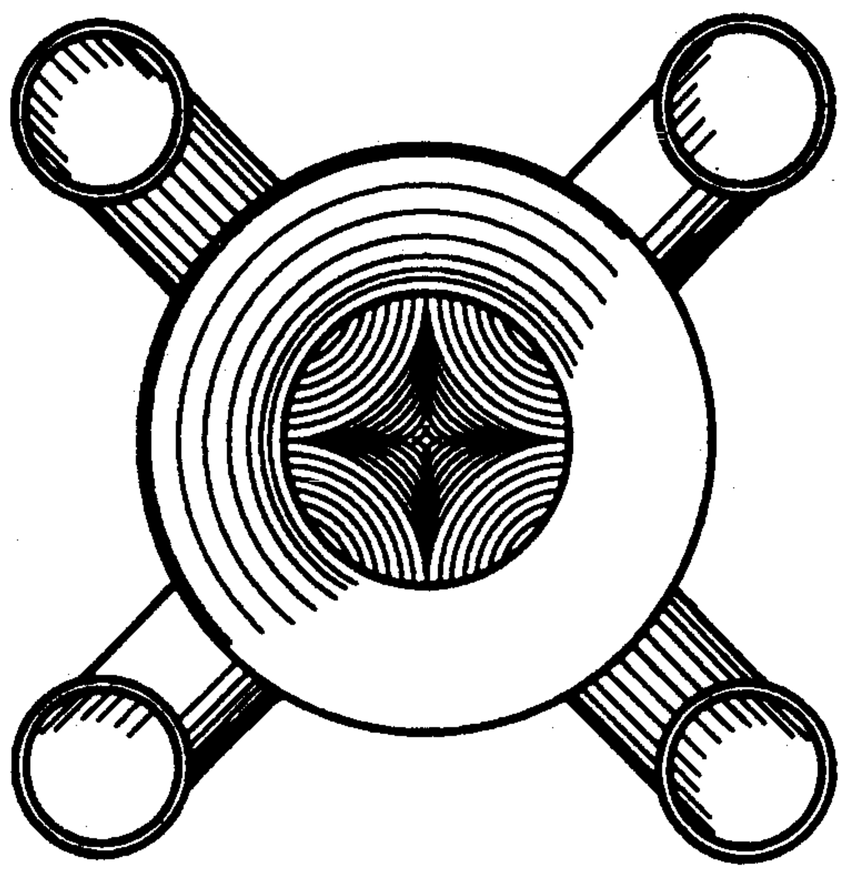


FIG. 9

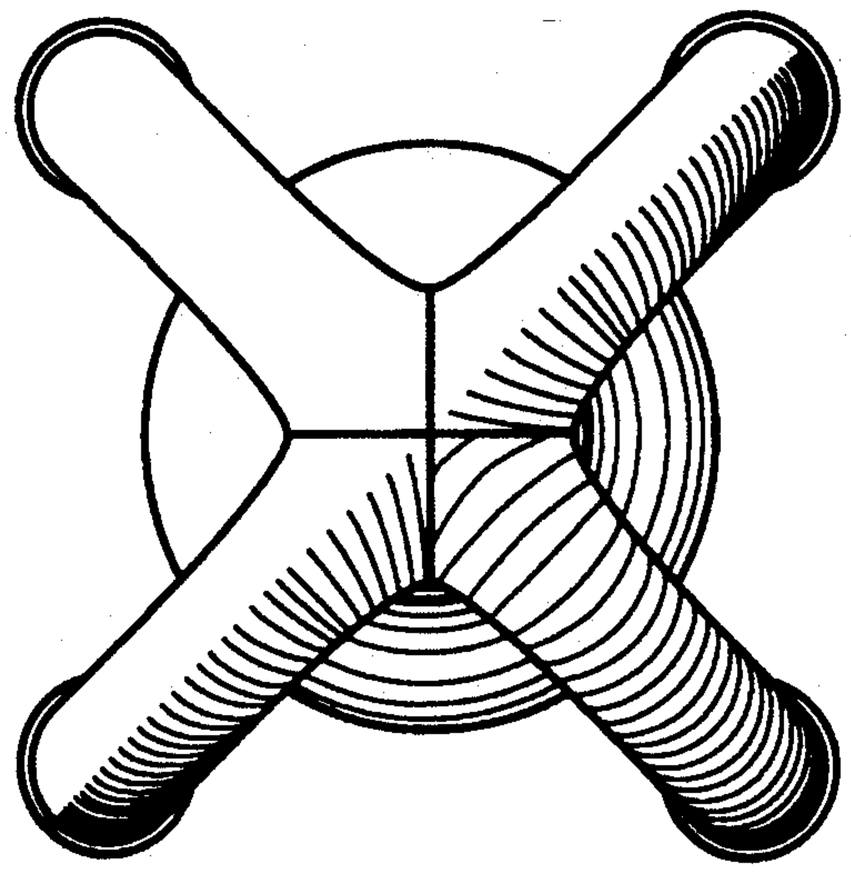


FIG. 10

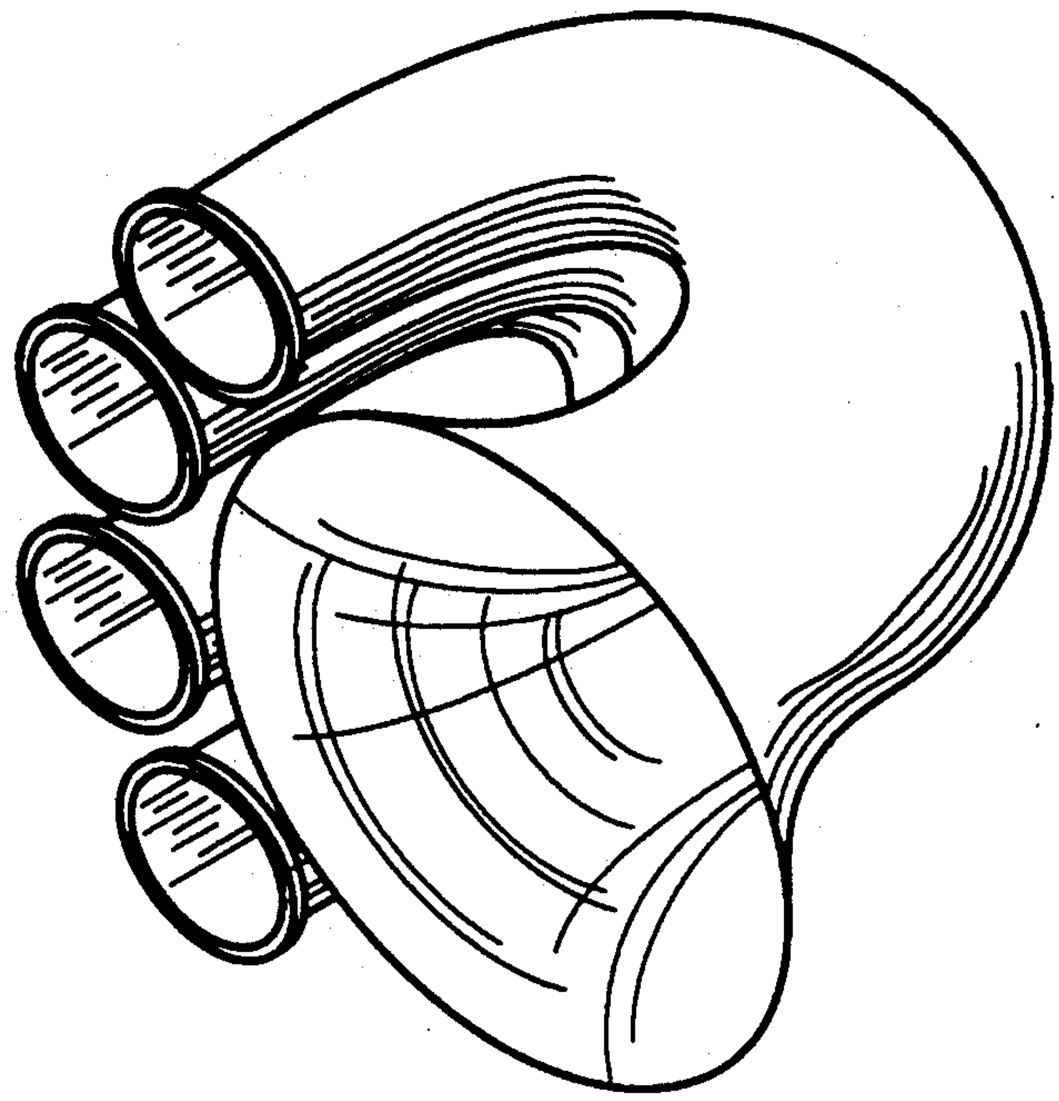


FIG. 11

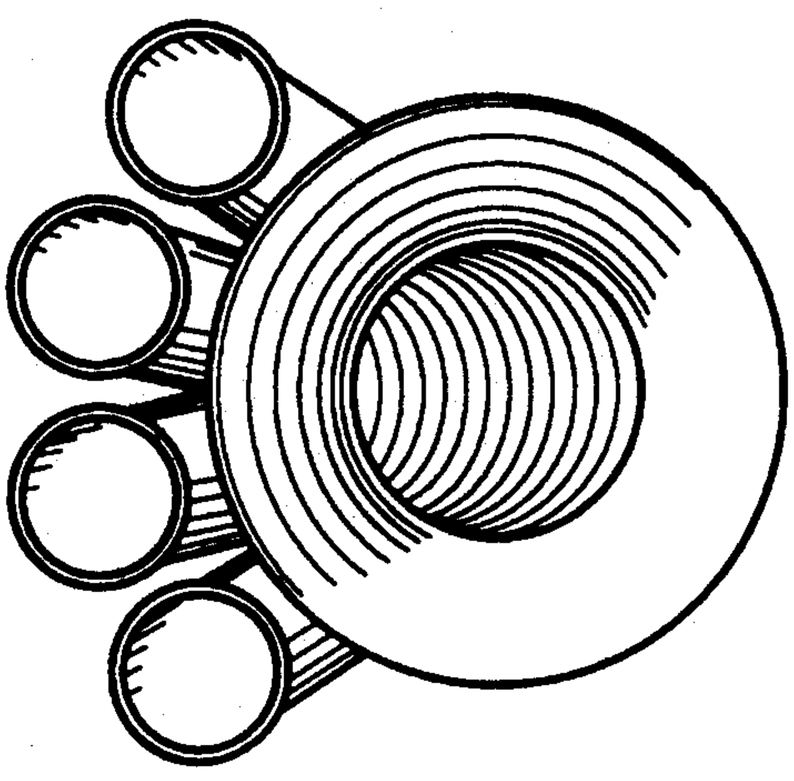


FIG. 12

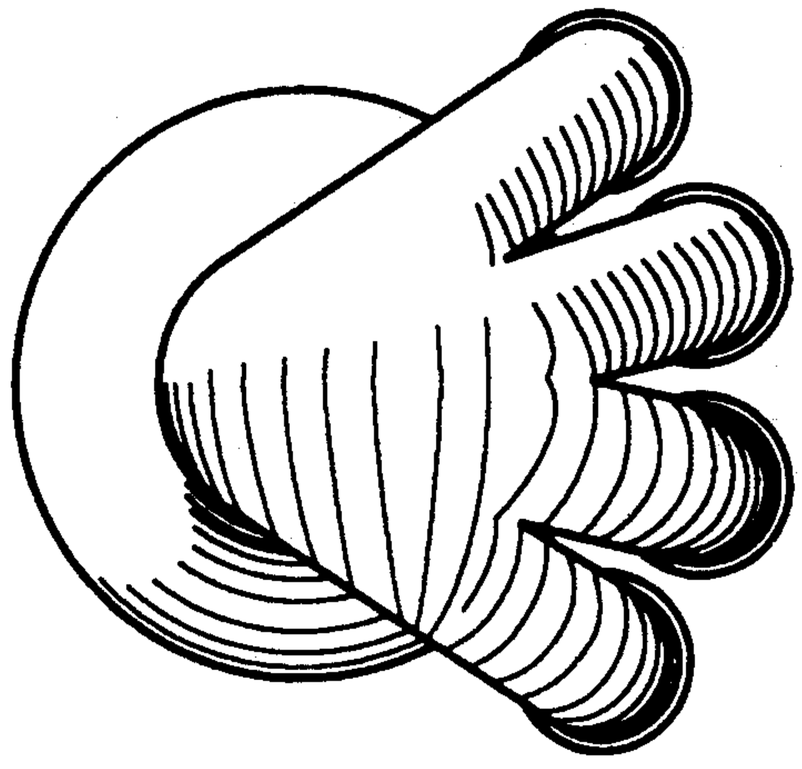


FIG. 13

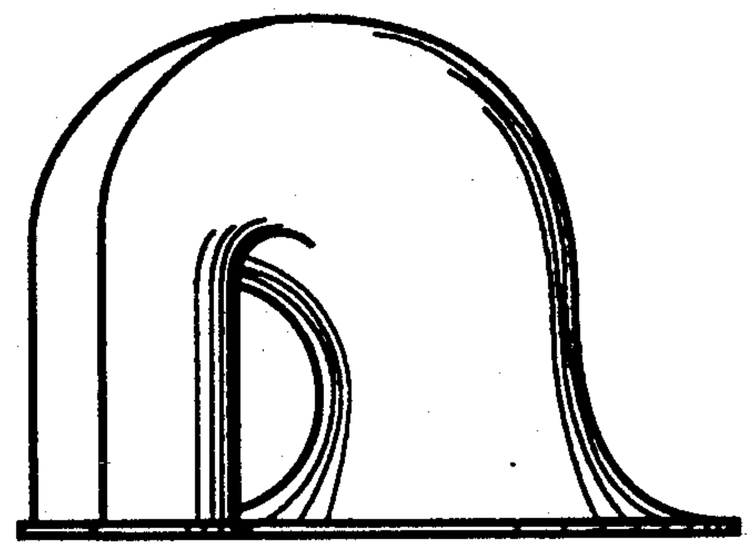


FIG. 14

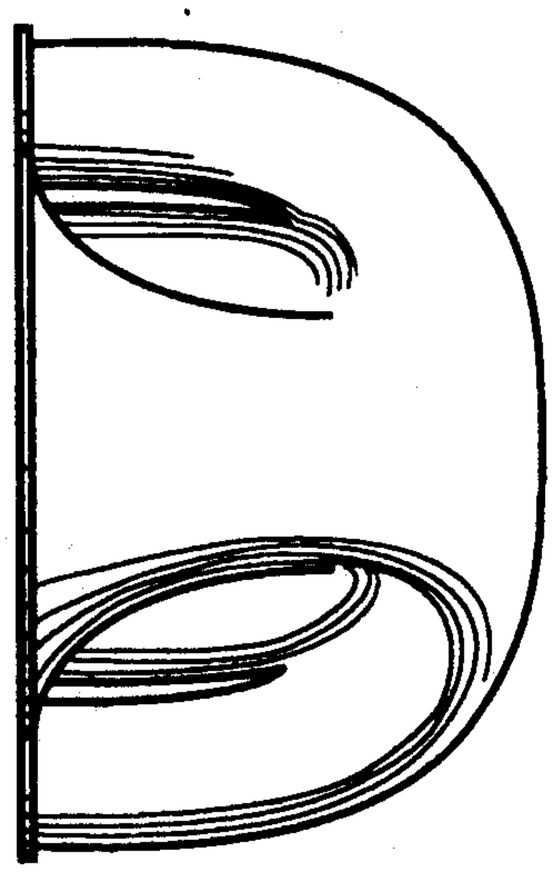


FIG. 15

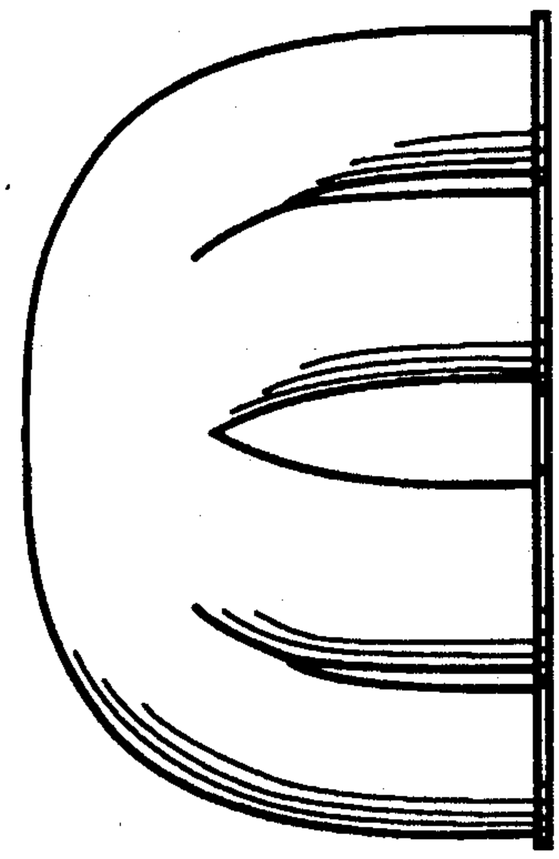


FIG. 16

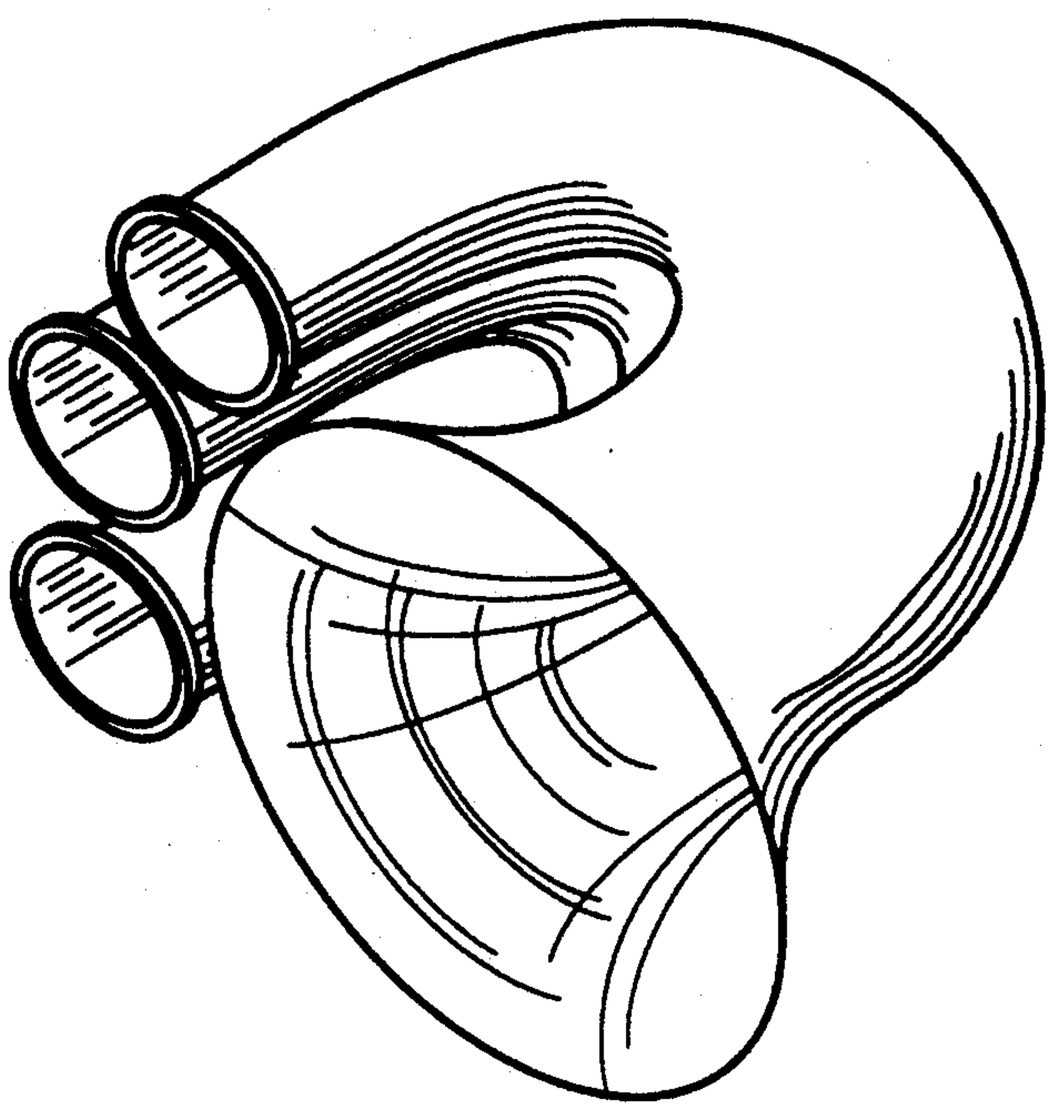


FIG. 17

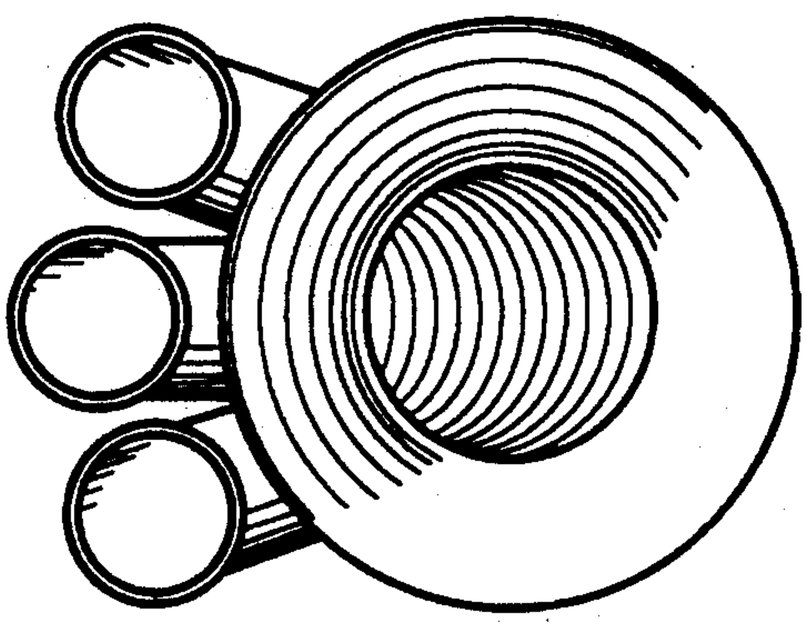


FIG. 18

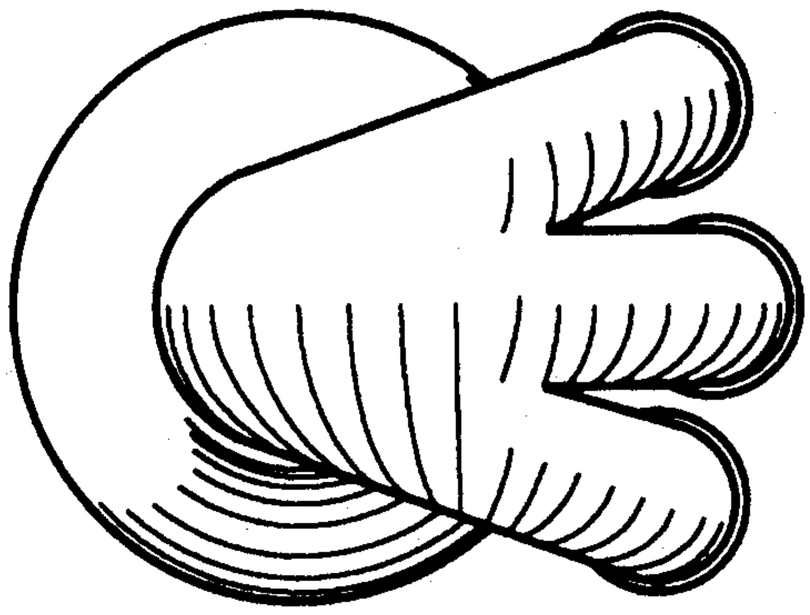


FIG. 19

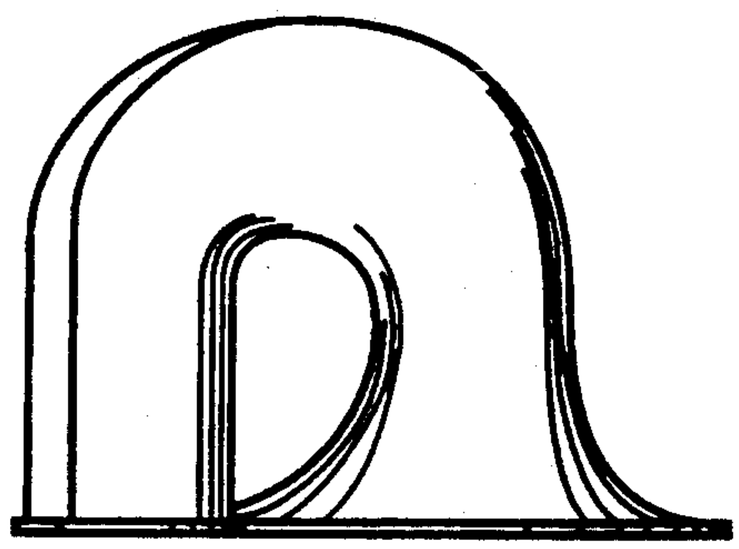


FIG. 20

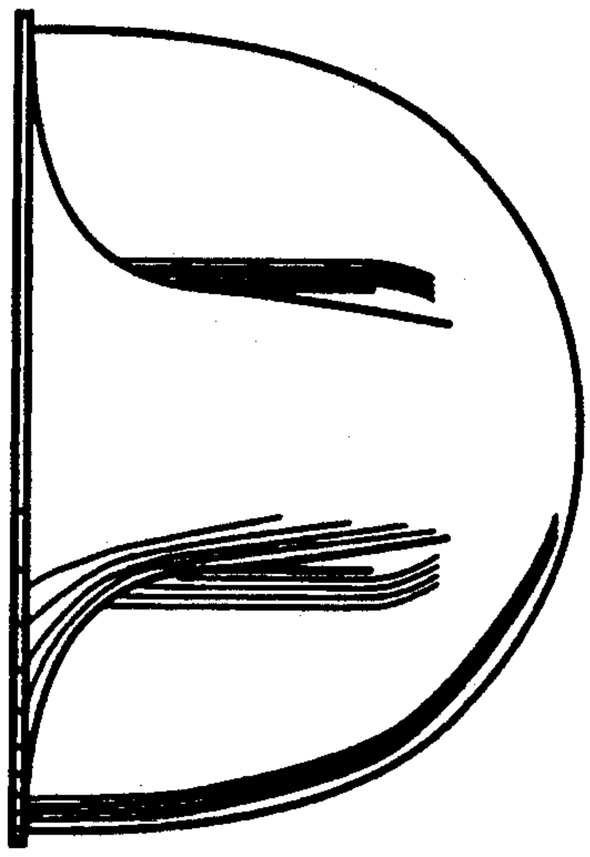


FIG. 21

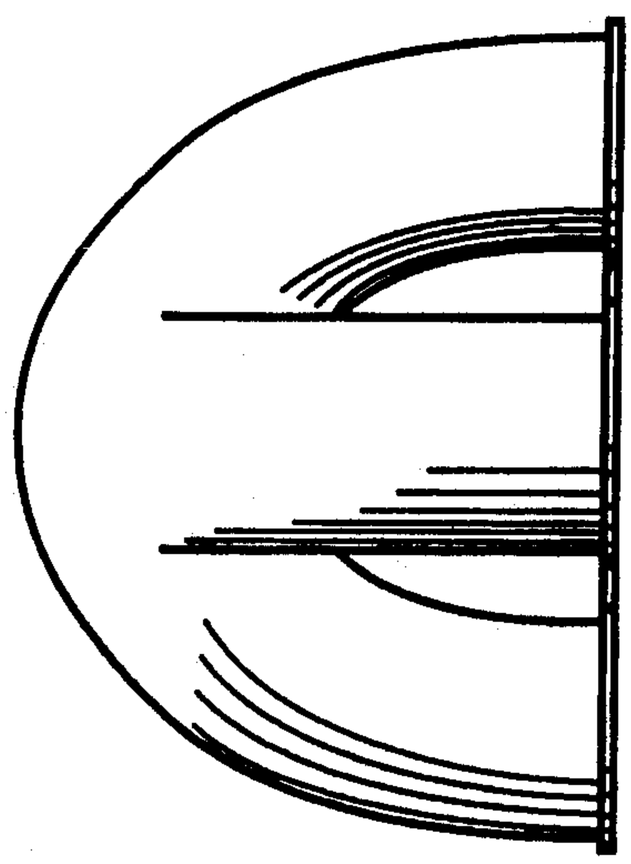


FIG. 22

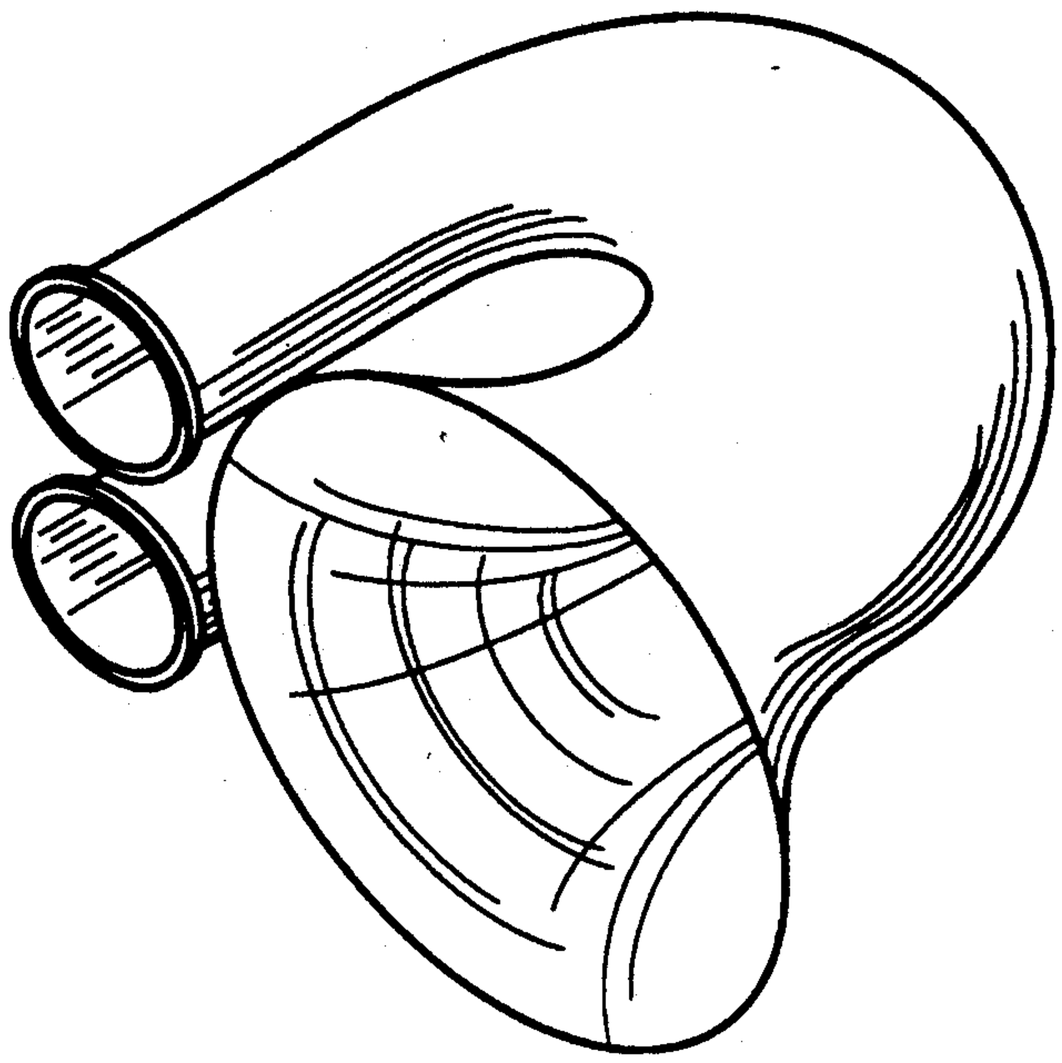


FIG. 23

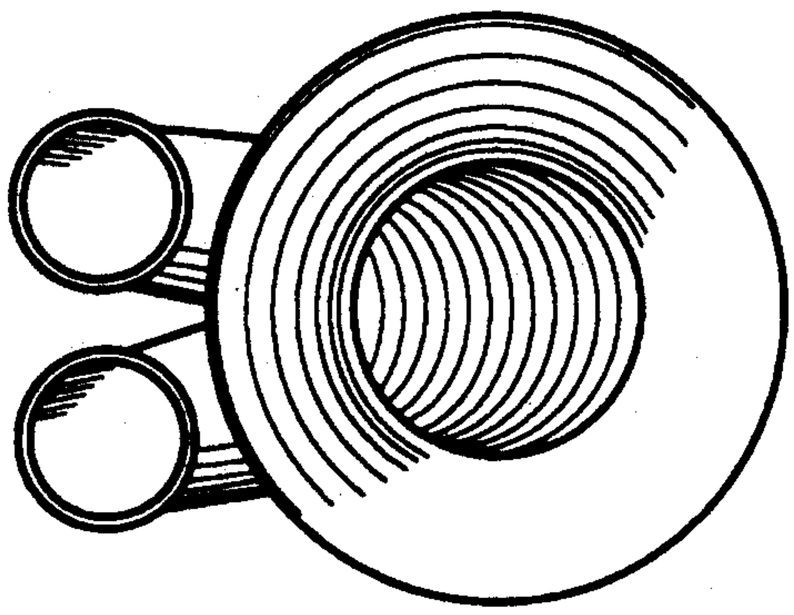


FIG. 24

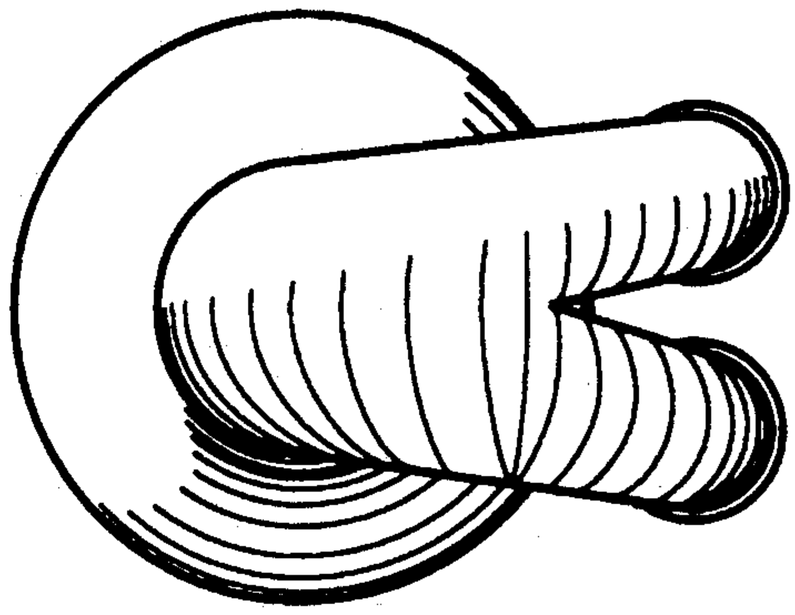


FIG. 25

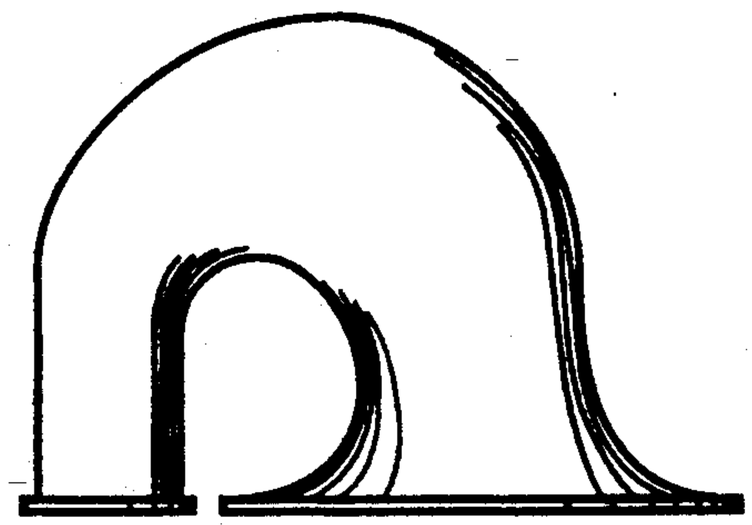


FIG. 26

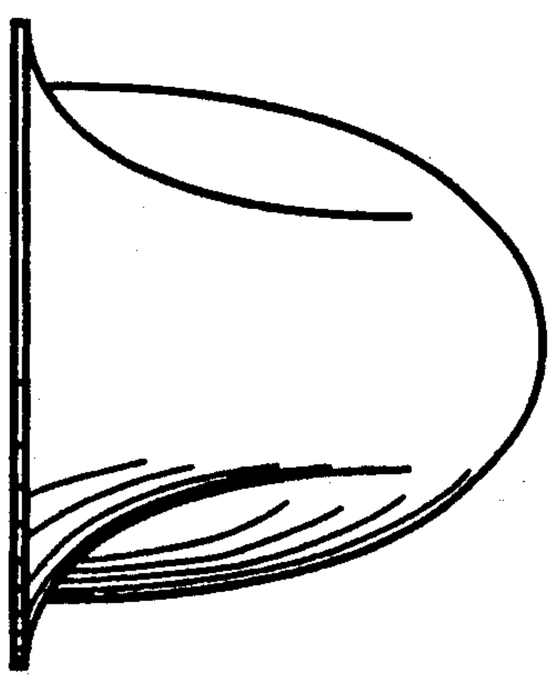


FIG. 27

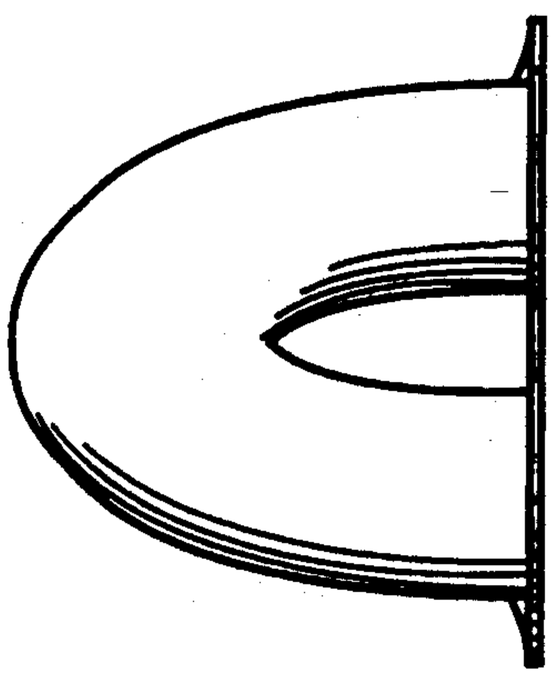


FIG. 28

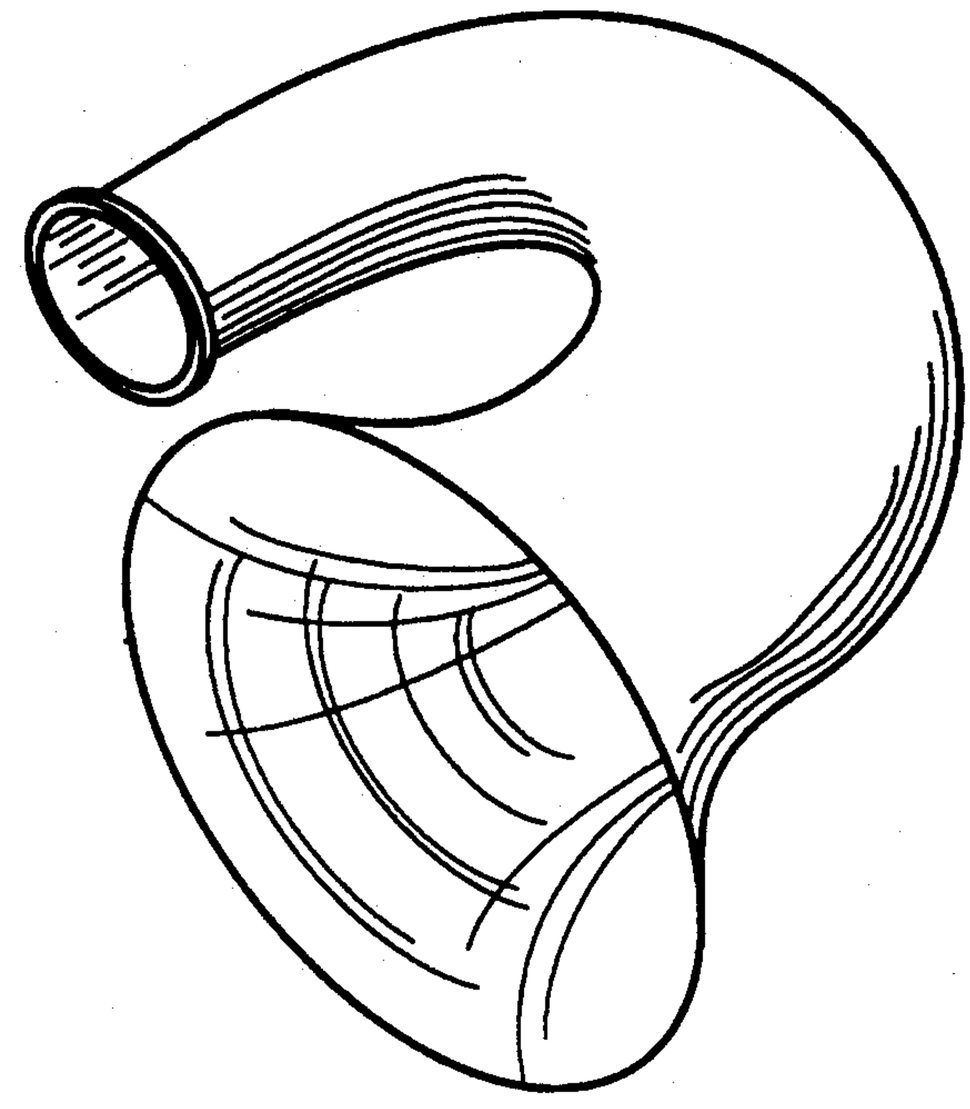


FIG. 29

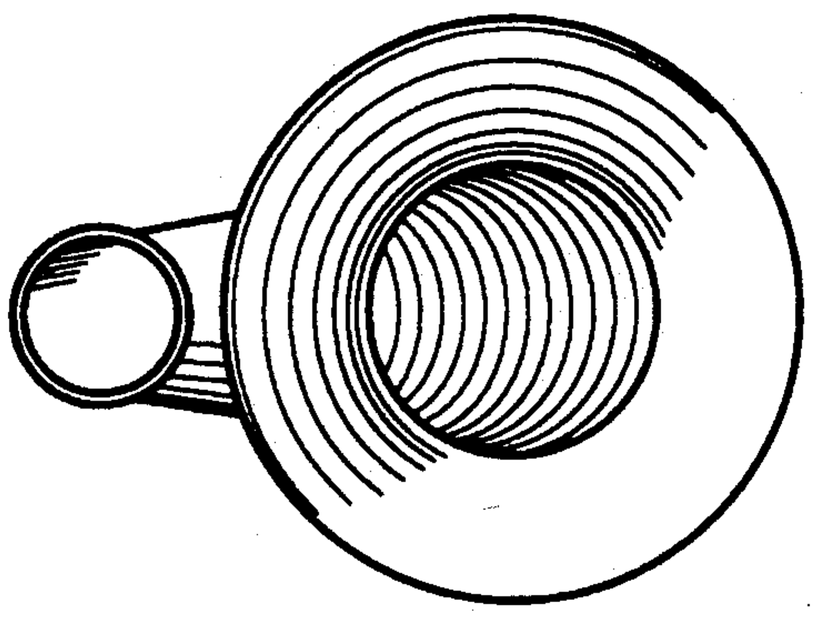
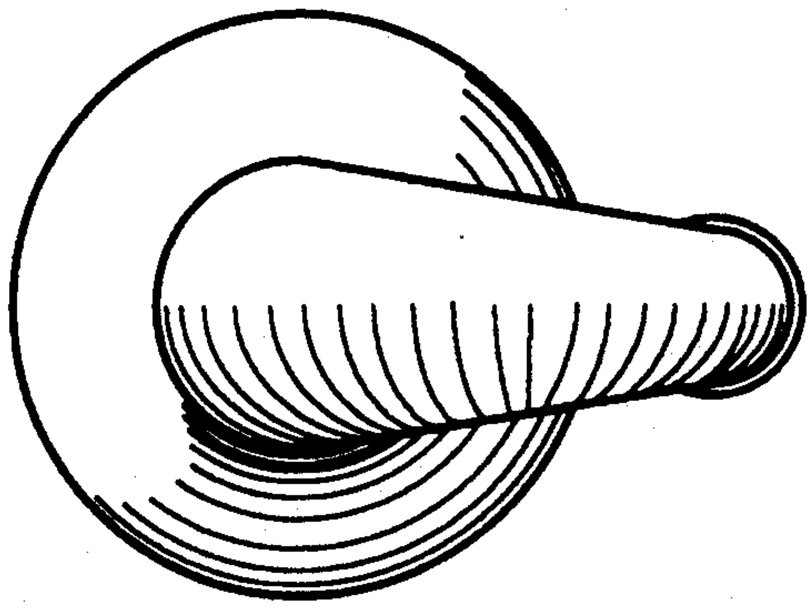


FIG. 30



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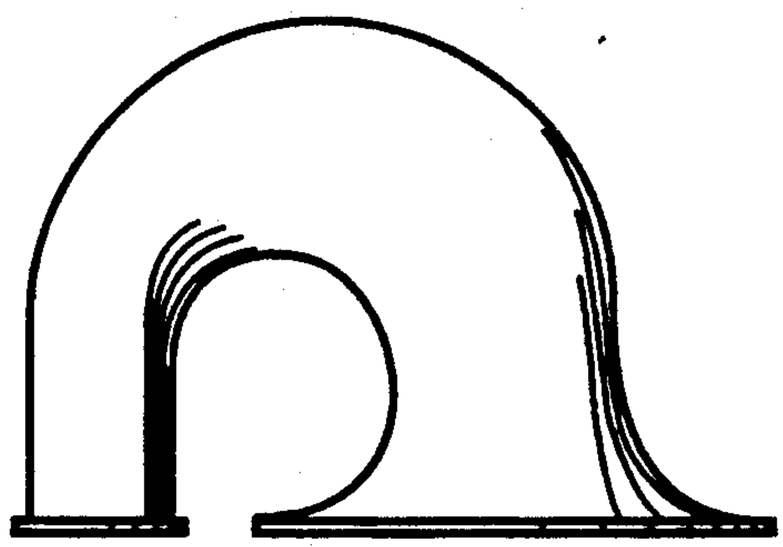

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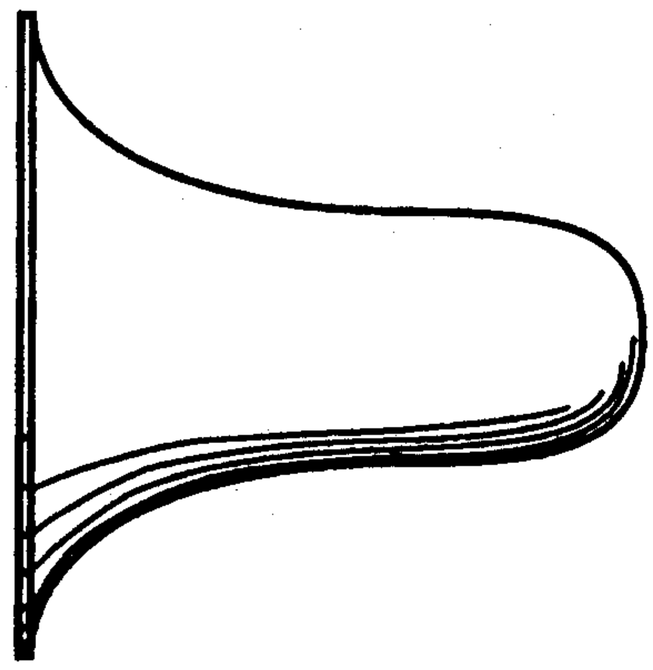

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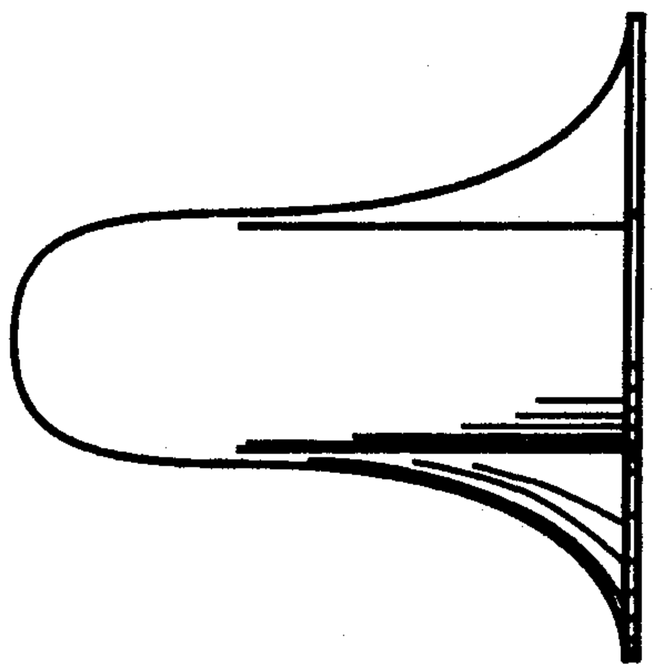

FIG. 34