



US00D462719S

(12) **United States Design Patent** (10) **Patent No.:** **US D462,719 S**
Guilloton et al. (45) **Date of Patent:** **** Sep. 10, 2002**

(54) **ASSEMBLED MODELS OF A DOUBLE HELIX DNA FRAGMENT AND SUBUNITS**

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Valérie Milsant, Sarreguemines (FR);
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(**) Term: **14 Years**

(21) Appl. No.: **29/114,704**

(22) Filed: **Nov. 30, 1999**

(30) **Foreign Application Priority Data**

May 31, 1999 (XH) DM/048 410

(51) **LOC (7) Cl.** **19-07**

(52) **U.S. Cl.** **D19/62**

(58) **Field of Search** D19/59, 62; 434/278,
434/279, 295; 446/124

(56) **References Cited**

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* cited by examiner

Primary Examiner—Adir Aronovich

(74) *Attorney, Agent, or Firm*—Henry M. Feiereisen;
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(57) **CLAIM**

The ornamental design for assembled models of a double helix DNA fragment and subunits, as shown and described.

DESCRIPTION

FIG. 1 is a top, front and side perspective view of assembled

models of a double-helix DNA fragment and subunits, showing our new design;

FIG. 2 is a top, front and side perspective view of a model for the base Guanine illustrated in FIG. 1; other models and subunits being removed for clarity of illustration;

FIG. 3 is a top view thereof;

FIG. 4 is a left hand side elevational view thereof;

FIG. 5 is a back elevational view thereof;

FIG. 6 is a right elevational view thereof; and

FIG. 7 is a front elevational view thereof;

FIG. 8 is a top, front and side perspective view of a model for the base Adenine illustrated in FIG. 1; other models and subunits being removed for clarity of illustration;

FIG. 9 is a top view thereof;

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

FIG. 11 is a back elevational view thereof;

FIG. 12 is a right elevational view thereof; and

FIG. 13 is a front elevational view thereof;

FIG. 14 is a top, front and side perspective view of a model for the base Cytosine illustrated in FIG. 1; other models and subunits being removed for clarity of illustration;

FIG. 15 is a top view thereof;

FIG. 16 is a left hand side elevational view thereof;

FIG. 17 is a back elevational view thereof;

FIG. 18 is a right elevational view thereof; and

FIG. 19 is a front elevational view thereof;

FIG. 20 is a top, front and side perspective view of a model for the base Thymine illustrated in FIG. 1; other models and subunits being removed for clarity of illustration;

FIG. 21 is a top view thereof;

FIG. 22 is a left hand side elevational view thereof;

FIG. 23 is a back elevational view thereof;

FIG. 24 is a right elevational view thereof; and

FIG. 25 is a front elevational view thereof;

FIG. 26 is a bottom and side perspective view of a model for a Phosphate illustrated in FIG. 1; other models and subunits being removed for clarity of illustration;

FIG. 27 is a front perspective view thereof;

FIG. 28 is a back perspective view thereof;

FIG. 29 is a left elevational view thereof;

FIG. 30 is a top plan view thereof; and

FIG. 31 is a bottom plan view thereof;

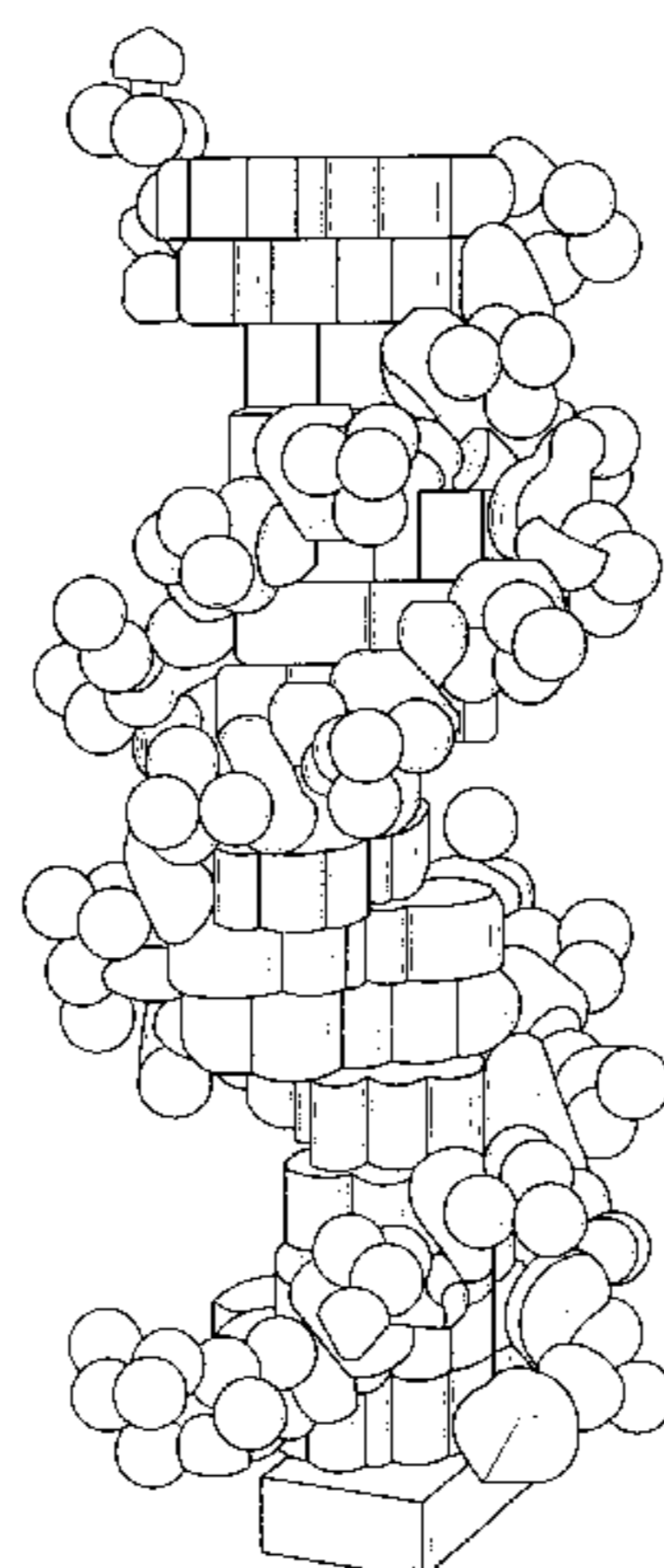


FIG. 32 is a bottom and side perspective view of a model for Oxygen illustrated in FIG. 1; other models and subunits being removed for clarity of illustration;

FIG. 33 is a front perspective view thereof;

FIG. 34 is a back perspective view thereof;

FIG. 35 is a right elevational view thereof;

FIG. 36 is a top plan view thereof; and

FIG. 37 is a bottom plan view thereof;

FIG. 38 is a bottom and side perspective view of a model for a 5' Carbon Group illustrated in FIG. 1; other models and subunits being removed for clarity of illustration;

FIG. 39 is a front perspective view thereof;

FIG. 40 is a back perspective view thereof;

FIG. 41 is a right elevational view thereof;

FIG. 42 is a bottom plan view thereof; and

FIG. 43 is a top plan view thereof;

FIG. 44 is a bottom and side perspective view of a model for a Desoxyribose illustrated in FIG. 1; other models and subunits being removed for clarity of illustration;

FIG. 45 is front view thereof;

FIG. 46 is back elevational view thereof;

FIG. 47 is a left elevational view thereof;

FIG. 48 is a right elevational view thereof;

FIG. 49 is a top plan view thereof; and,

FIG. 50 is a bottom plan view thereof.

The claimed design is directed to the assembled models and its subunits shown in FIG. 1, the views 2-50 of separately disclosed models for different bases and subunits are shown to illustrate aspects of the design which are not apparent from FIG. 1.

1 Claim, 9 Drawing Sheets

FIG. 1

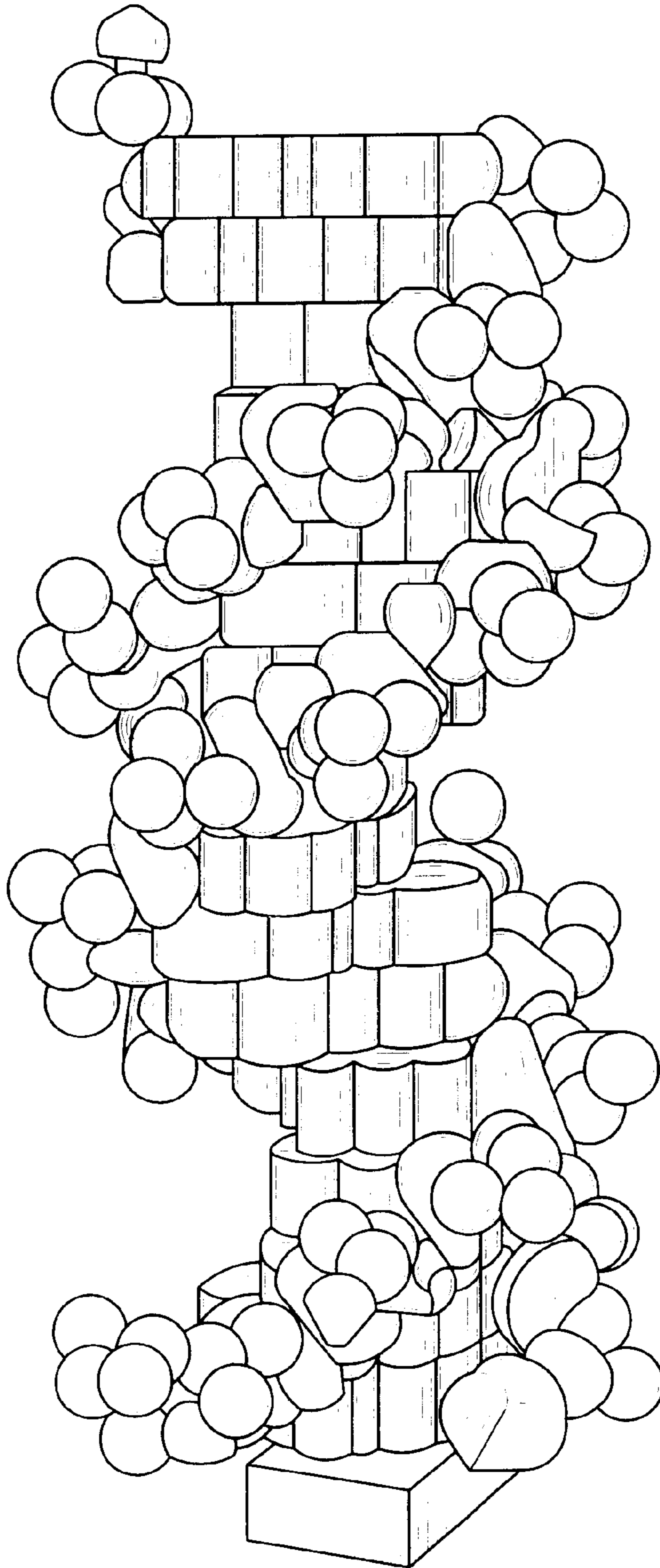


FIG. 2

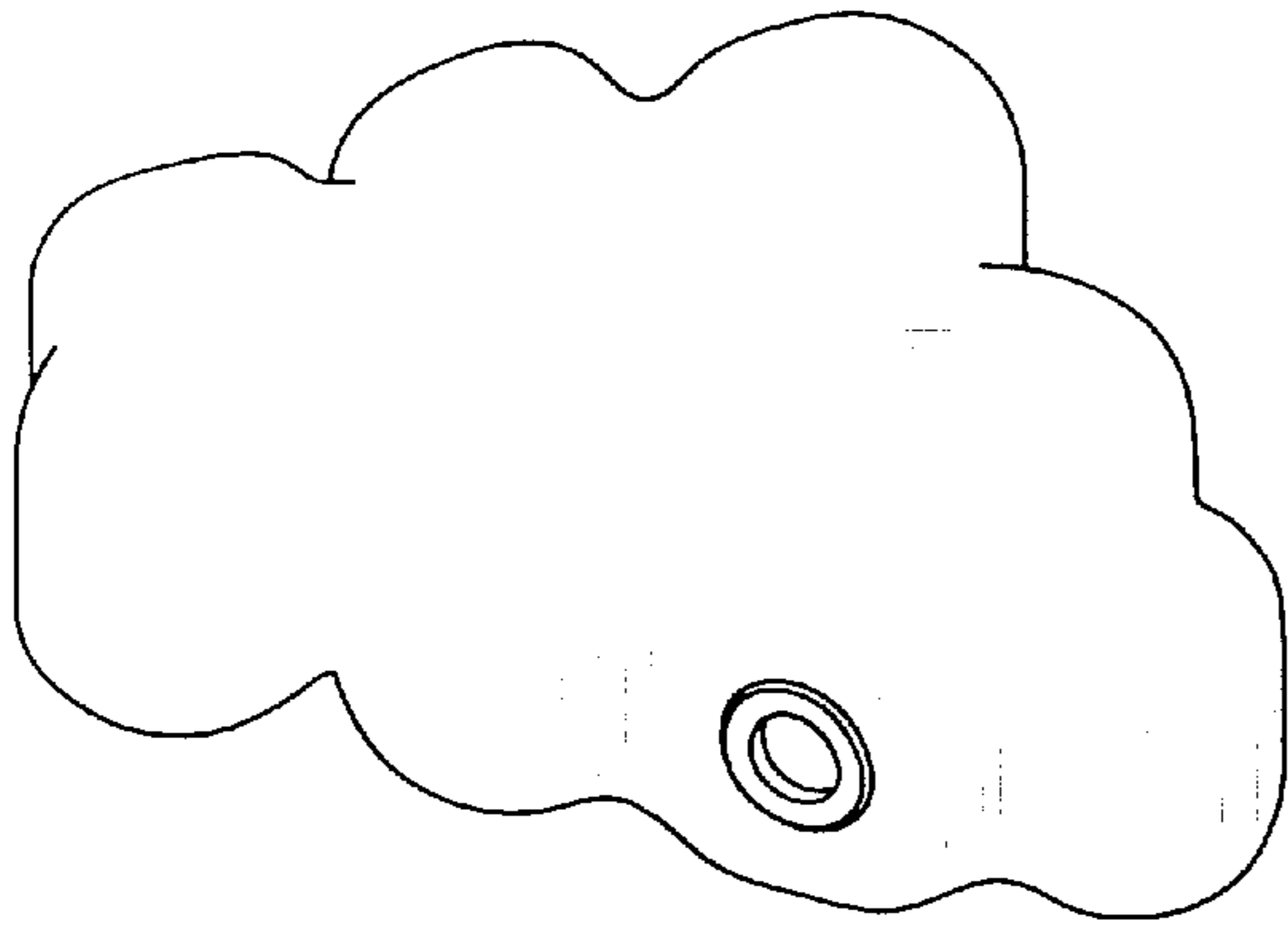


FIG. 3

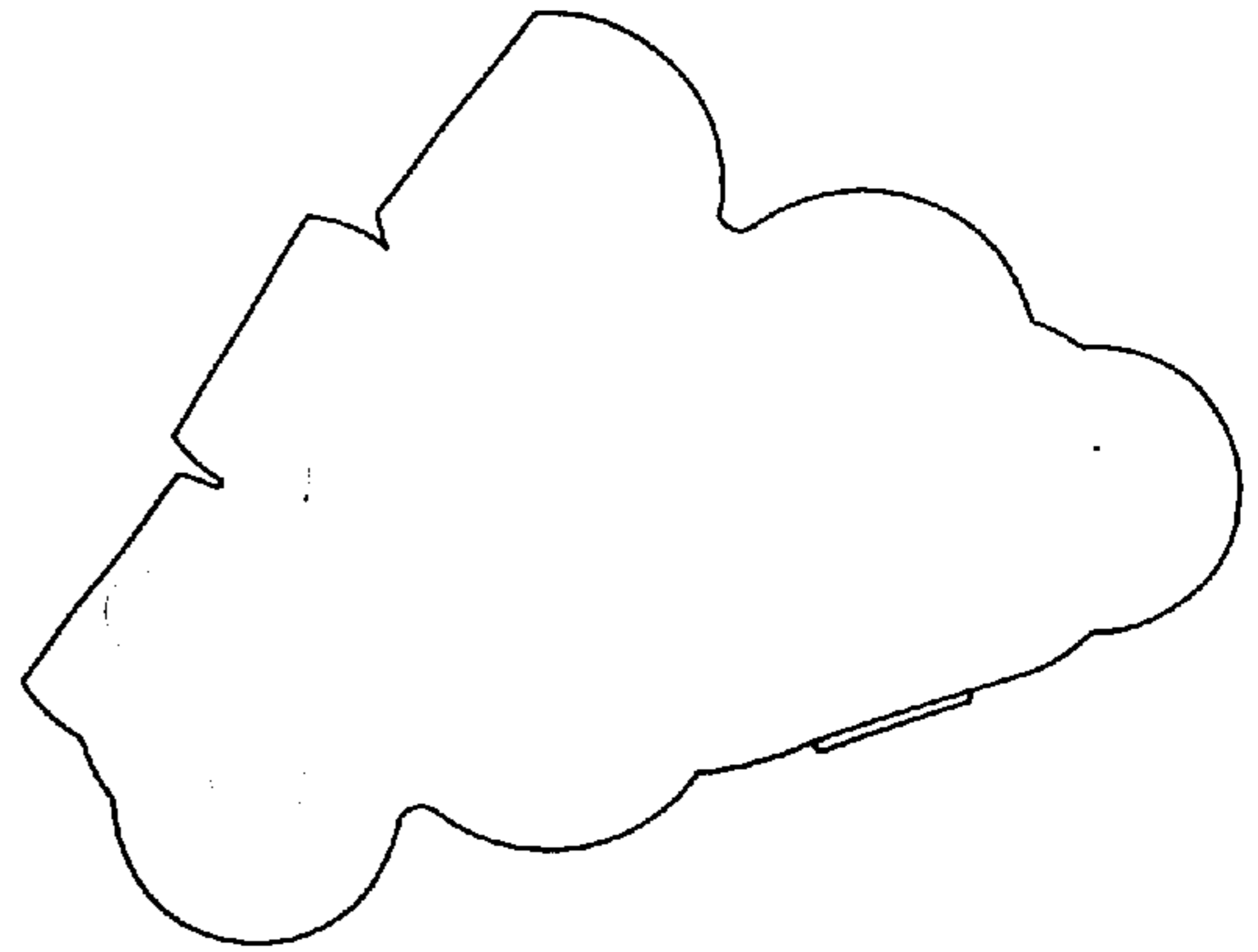


FIG. 4

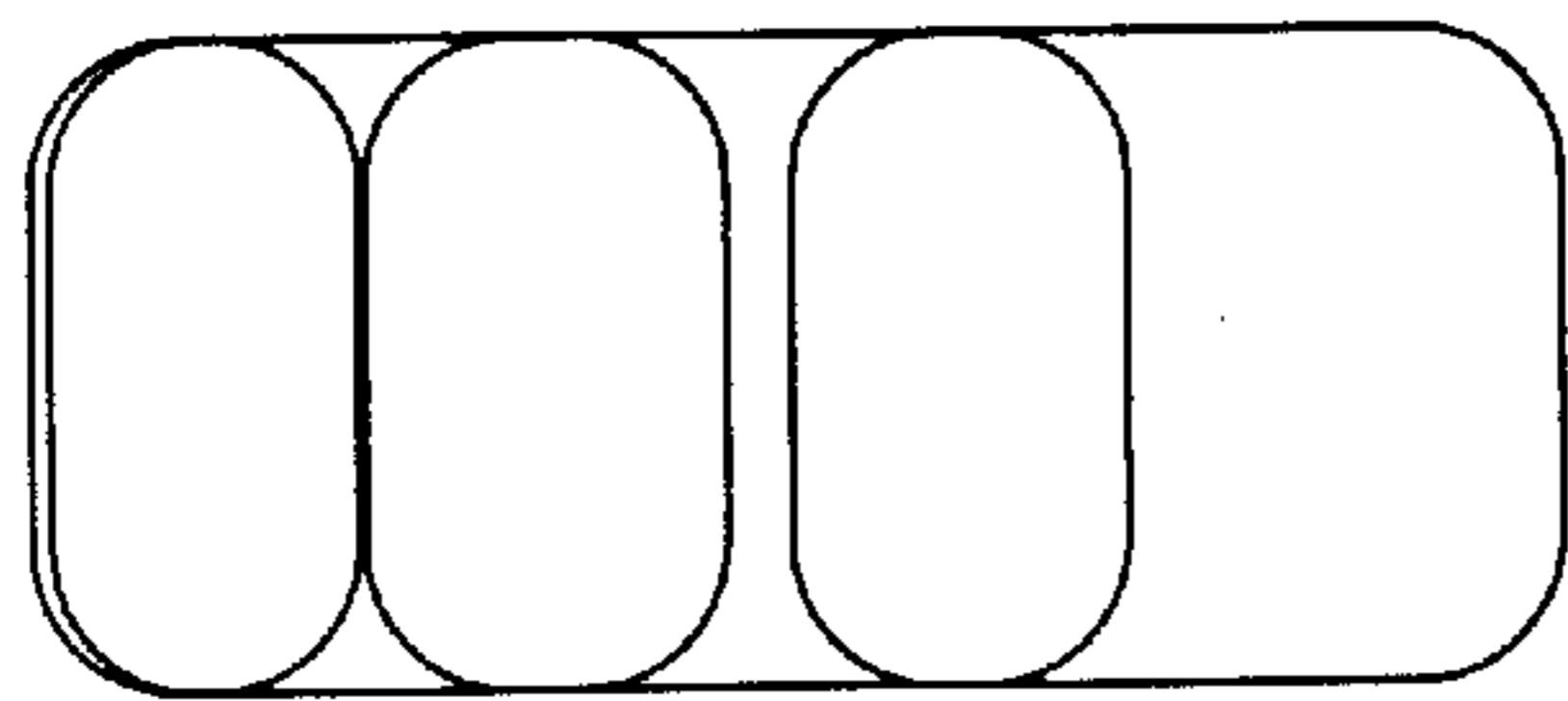


FIG. 5

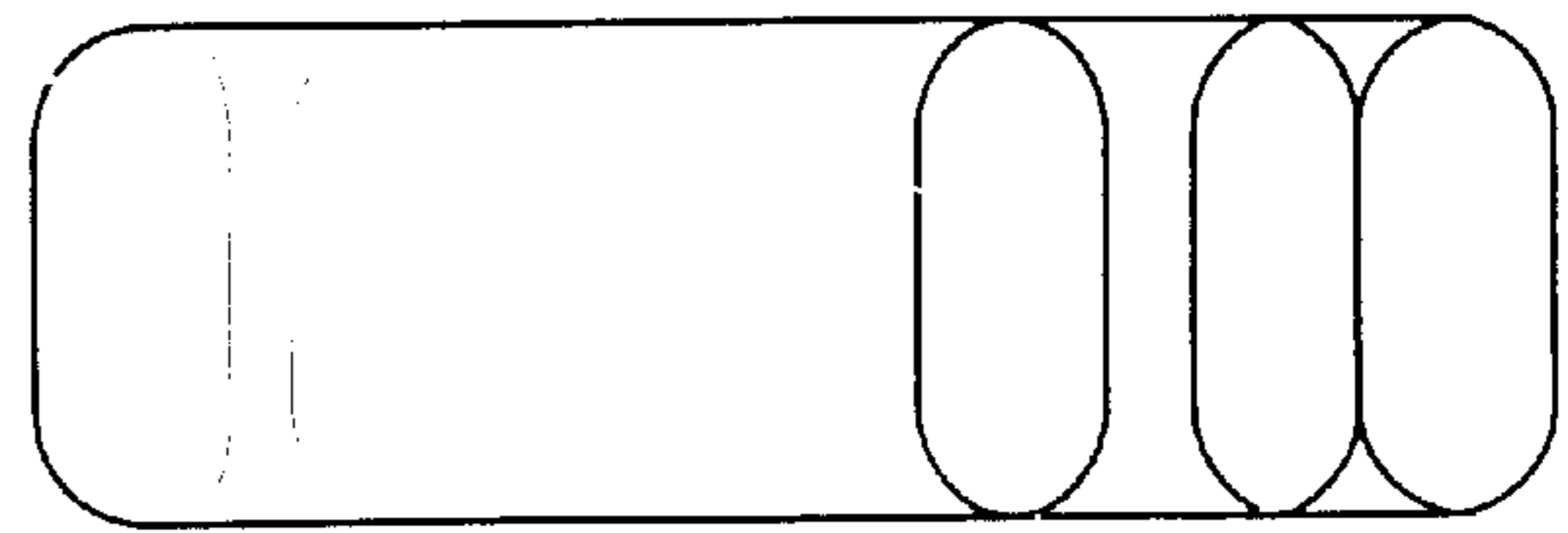


FIG. 6

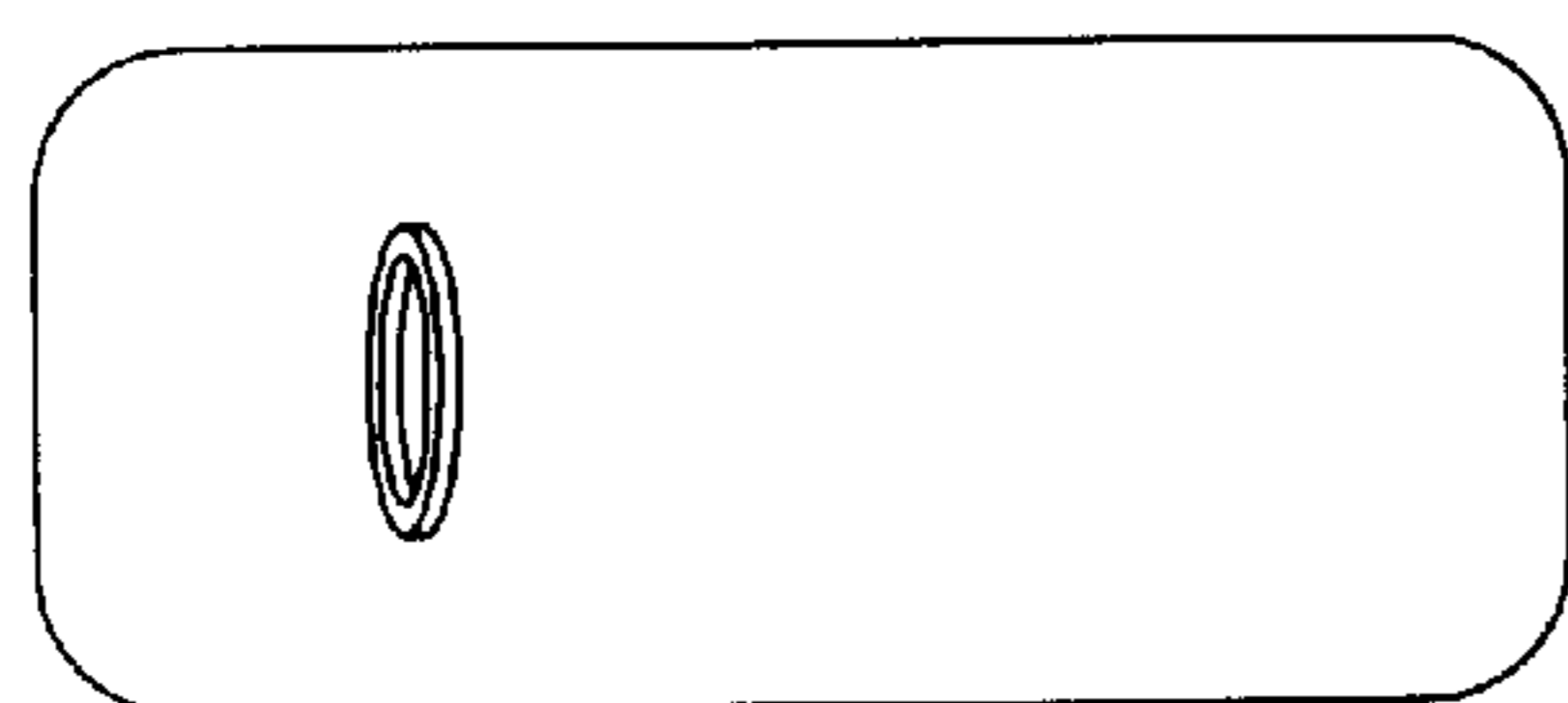


FIG. 7

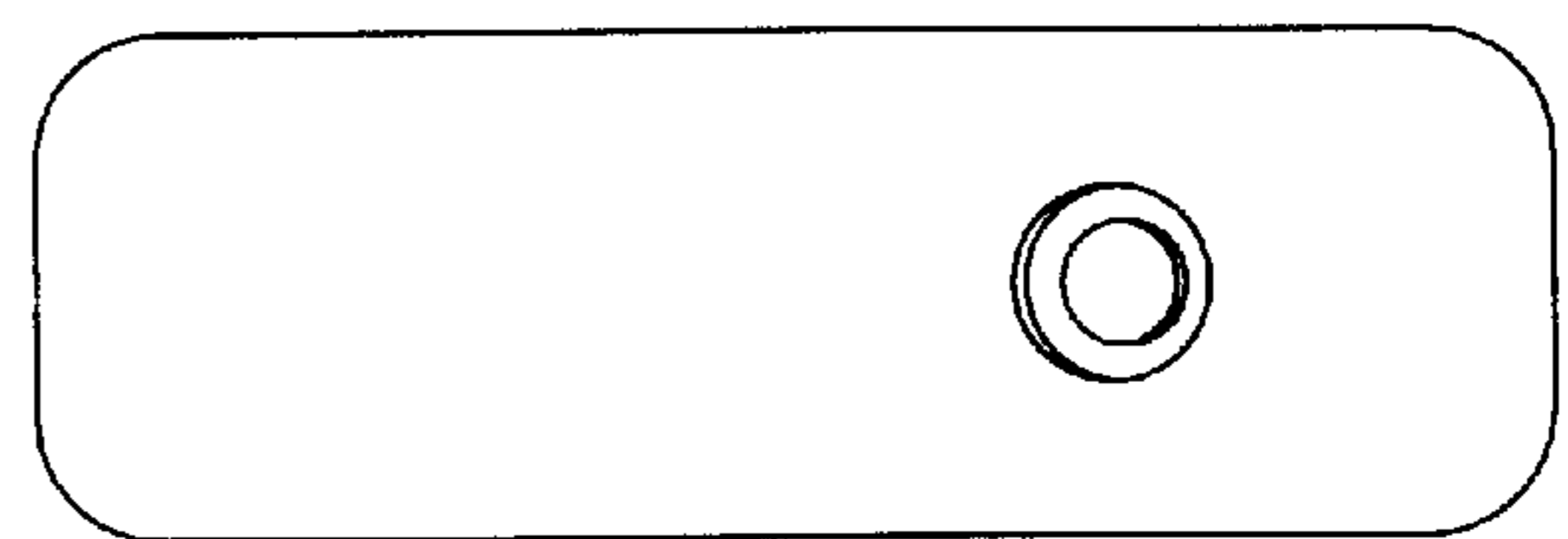


FIG. 8

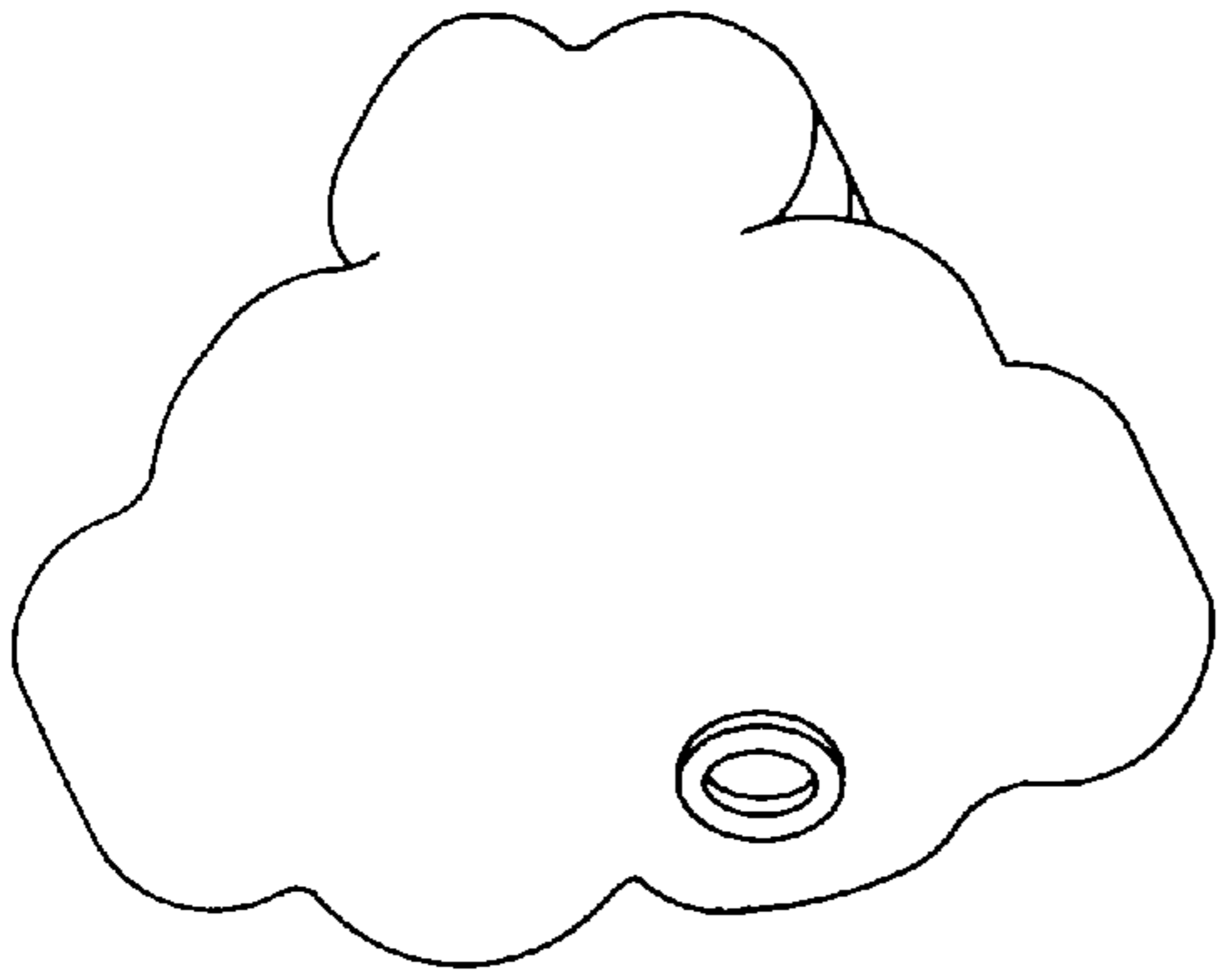


FIG. 9

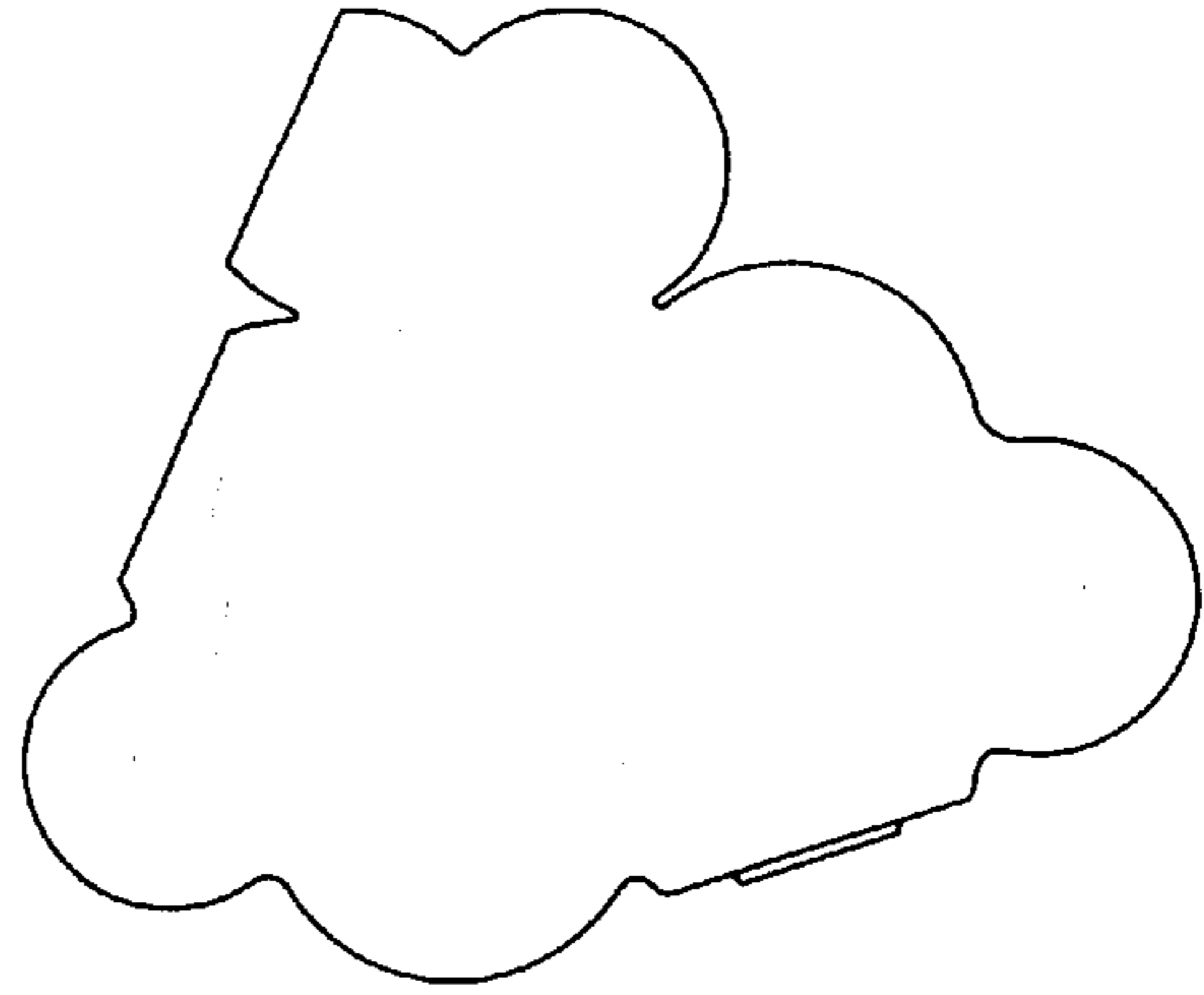


FIG. 10

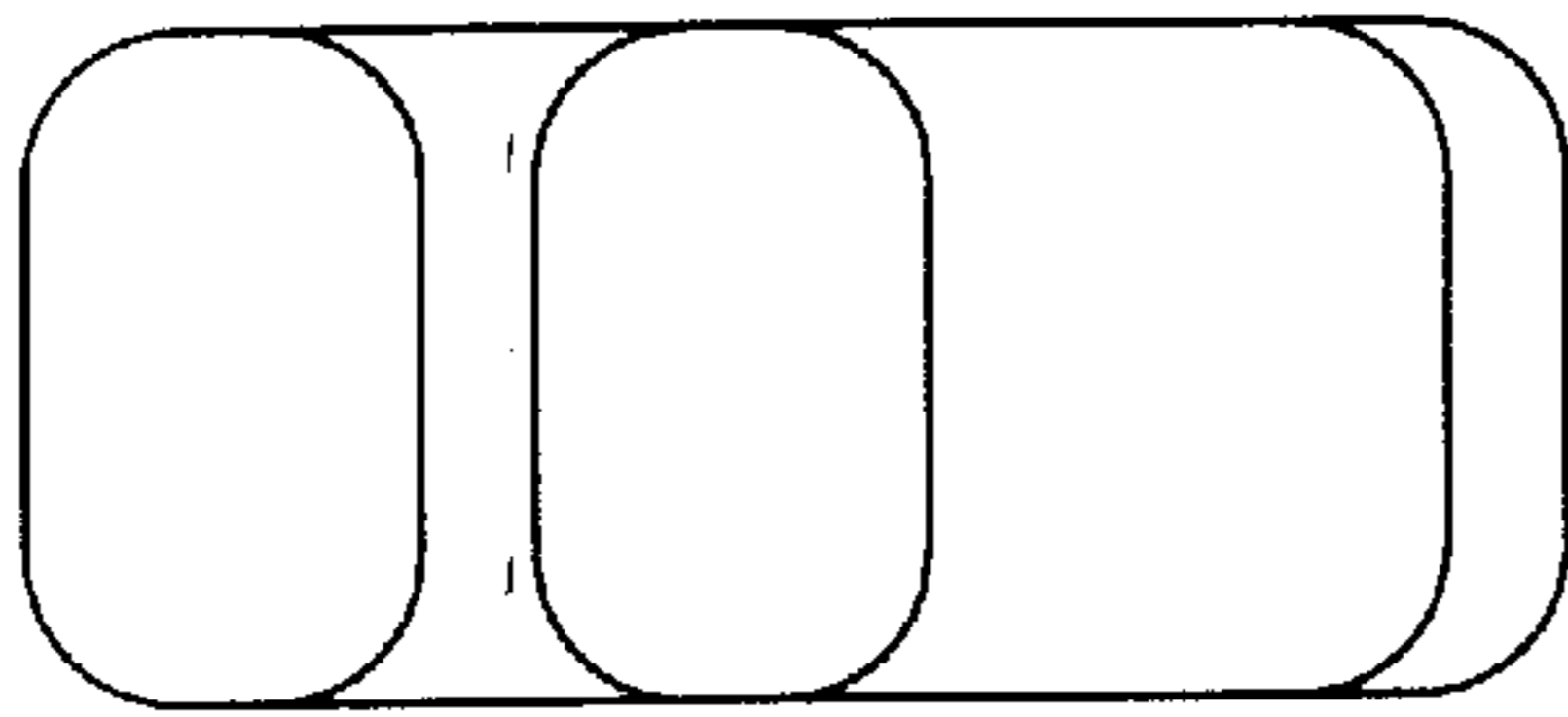


FIG. 11

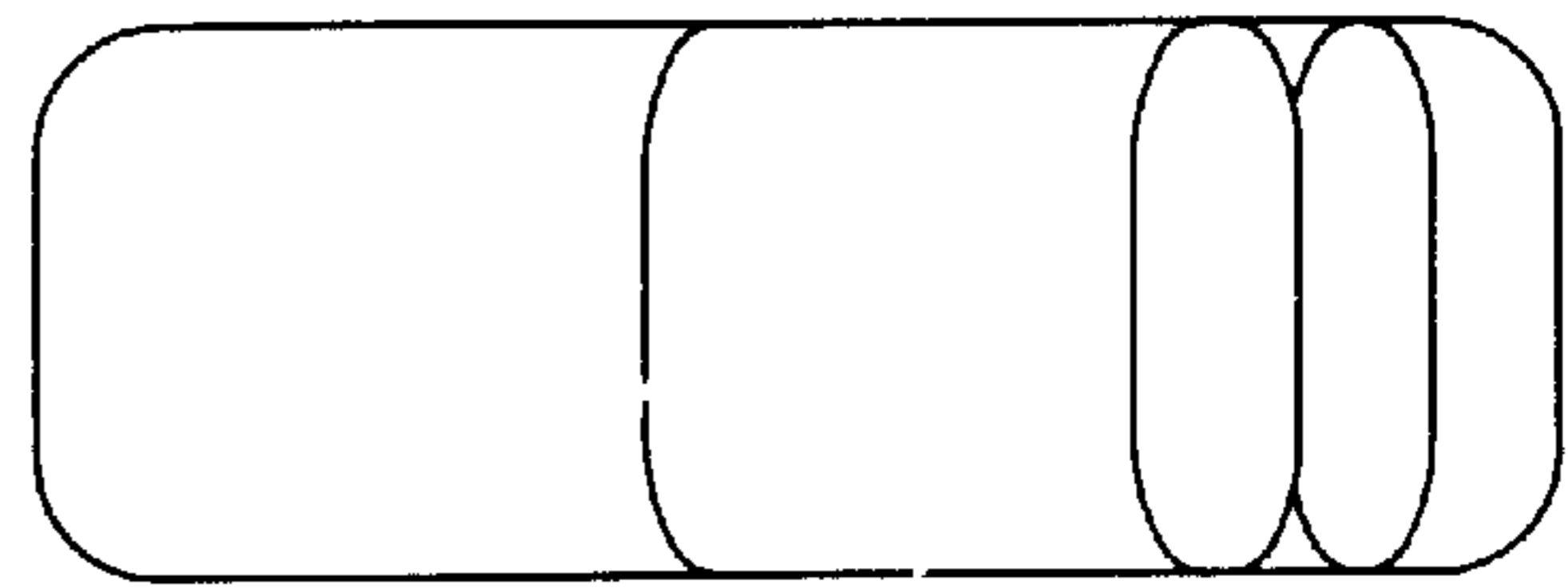


FIG. 12

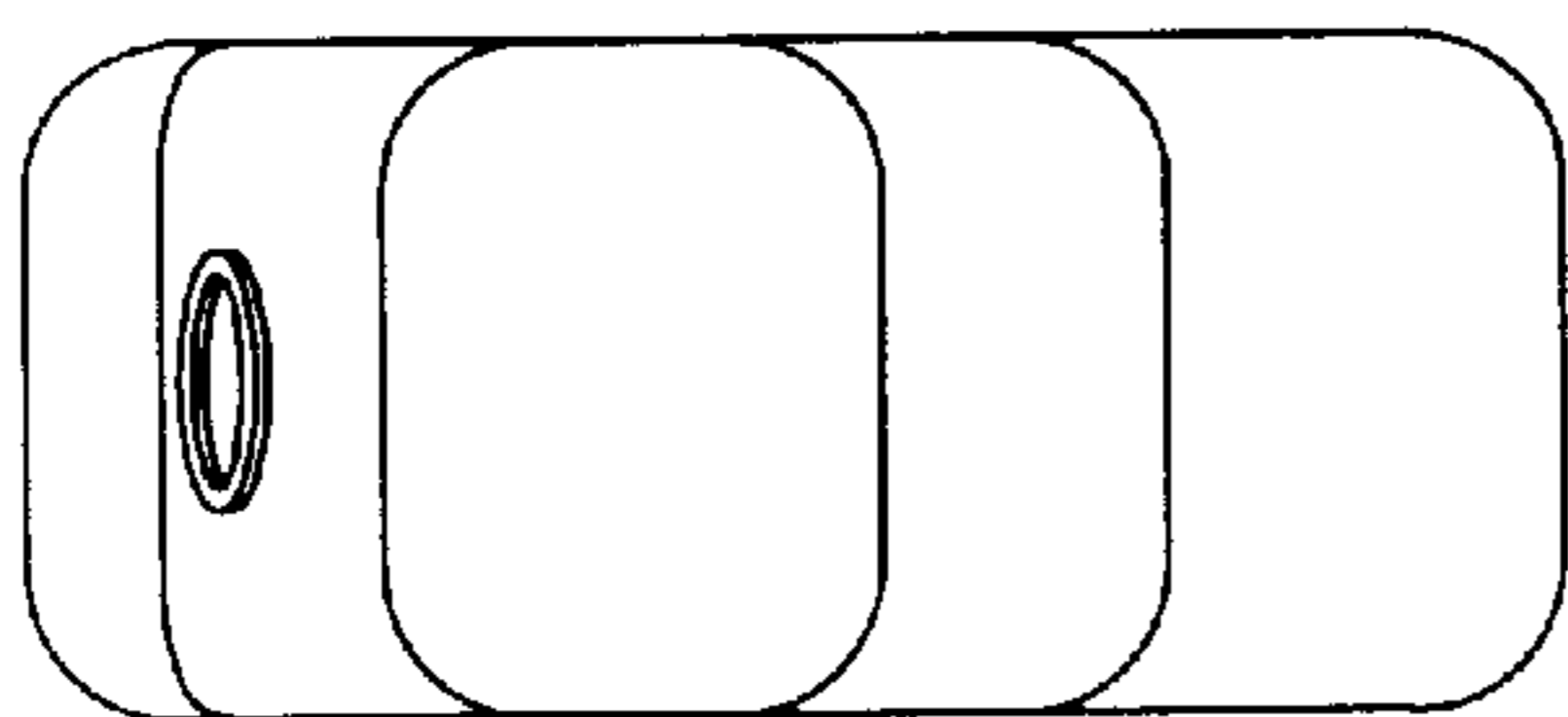


FIG. 13

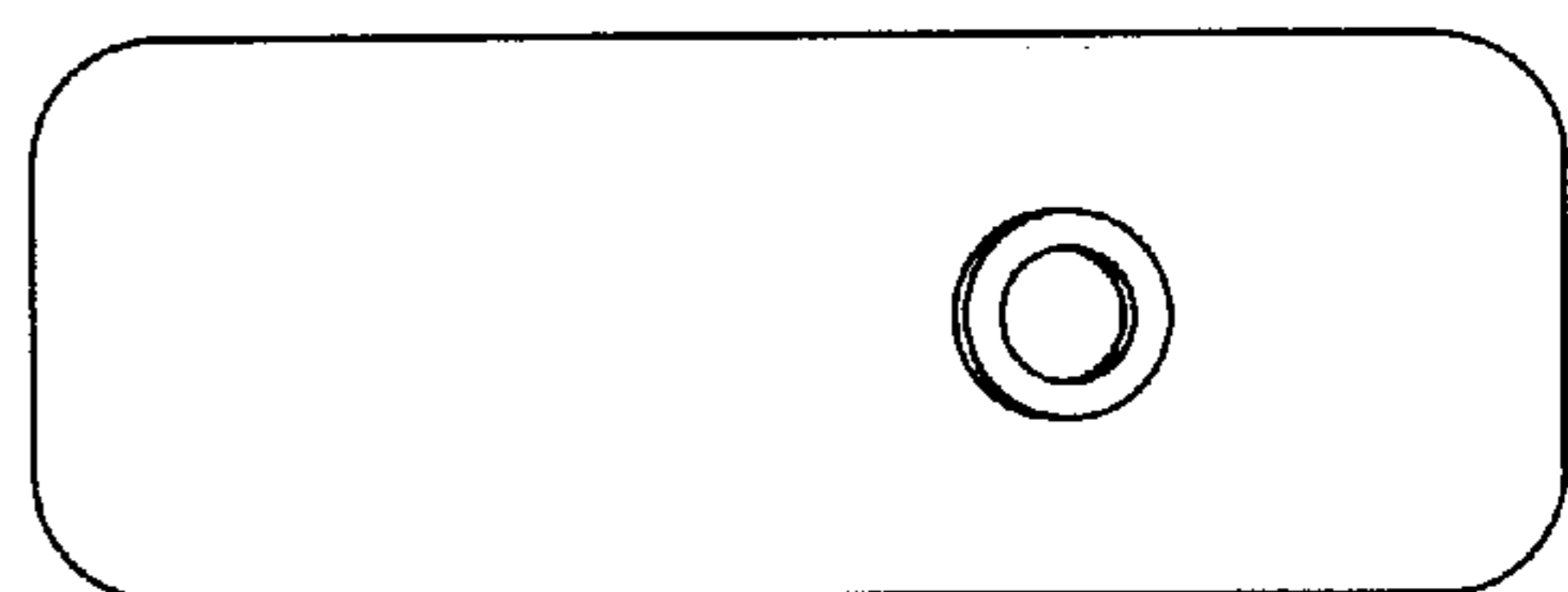


FIG. 14

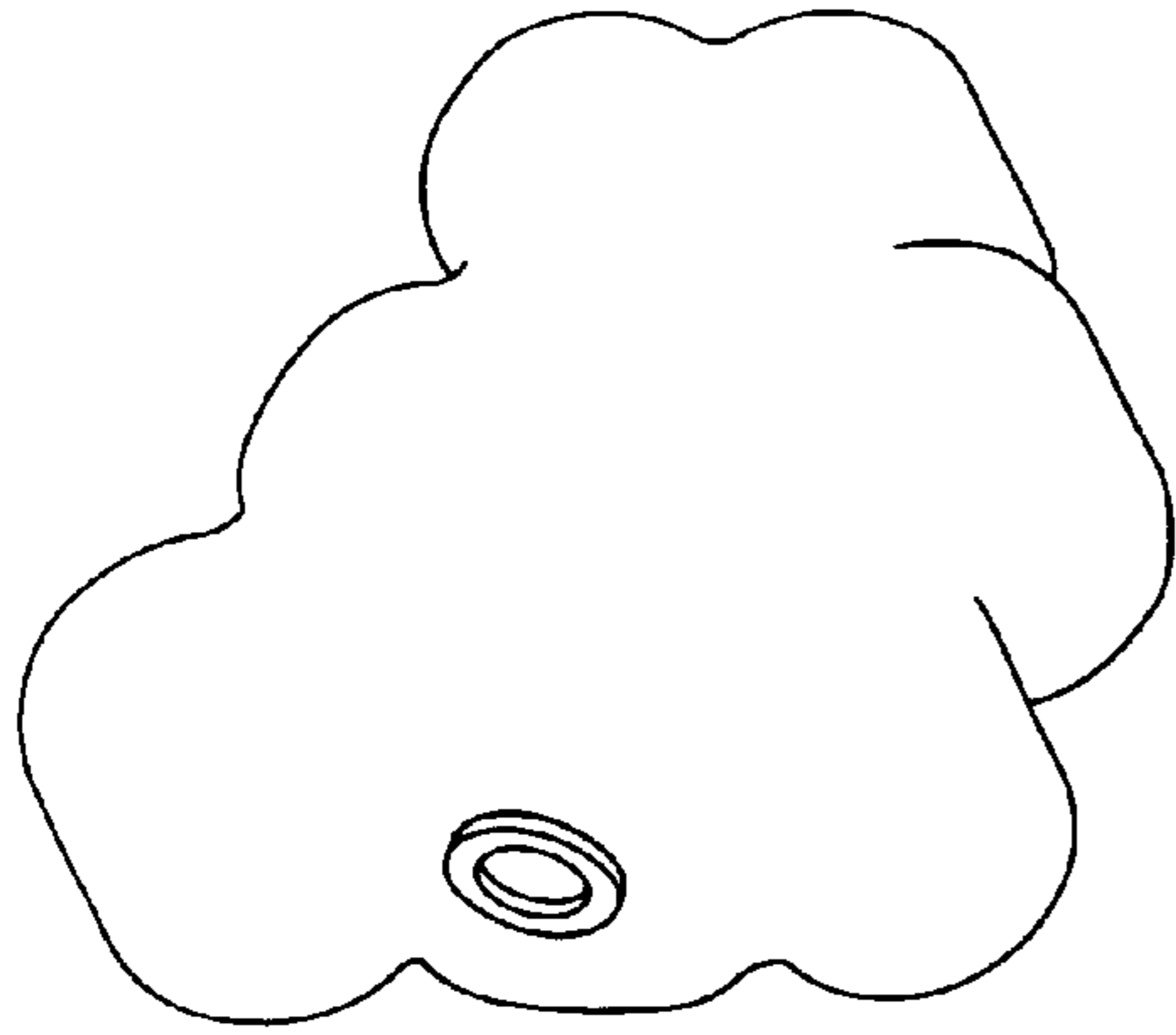


FIG. 15

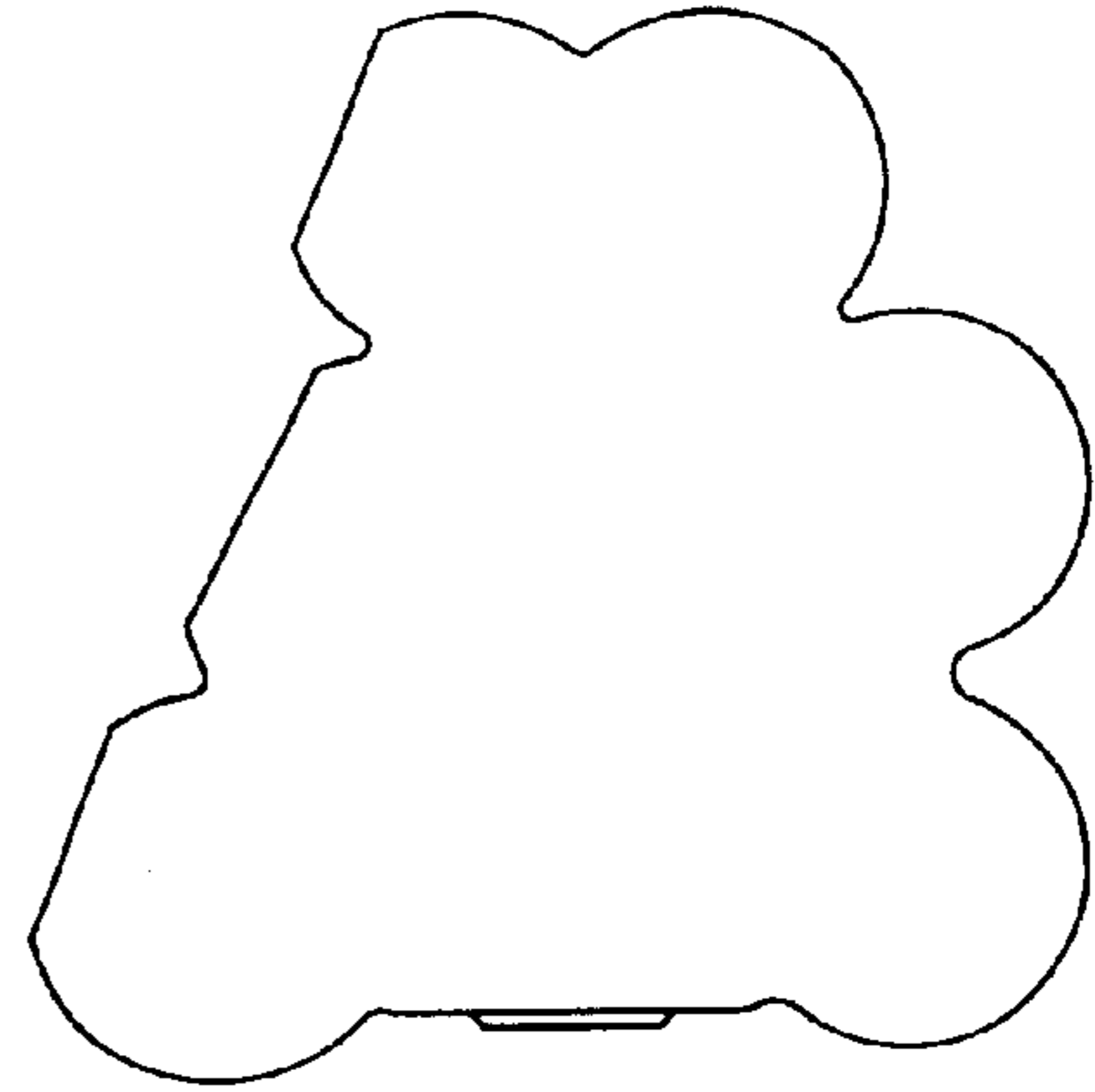


FIG. 16

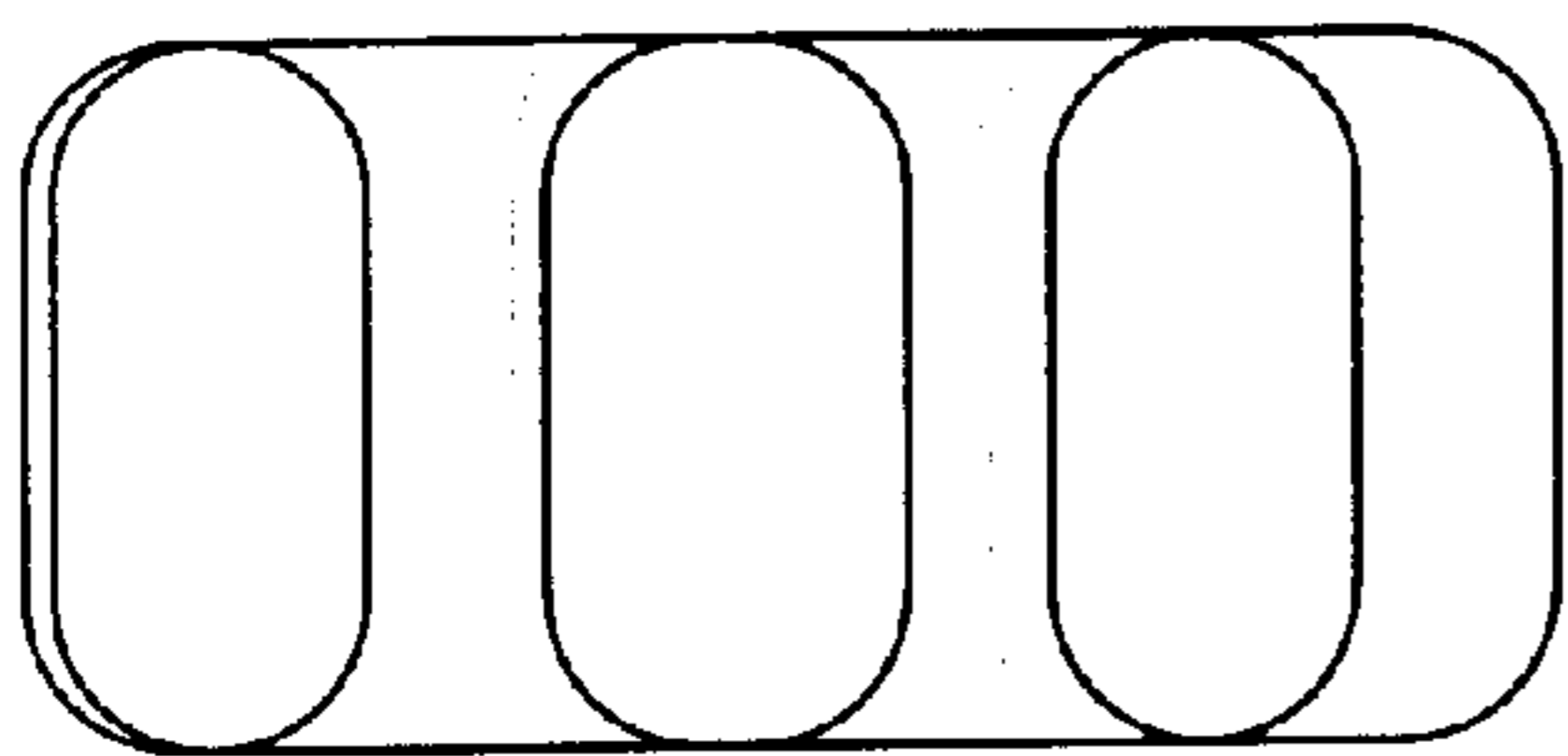


FIG. 17

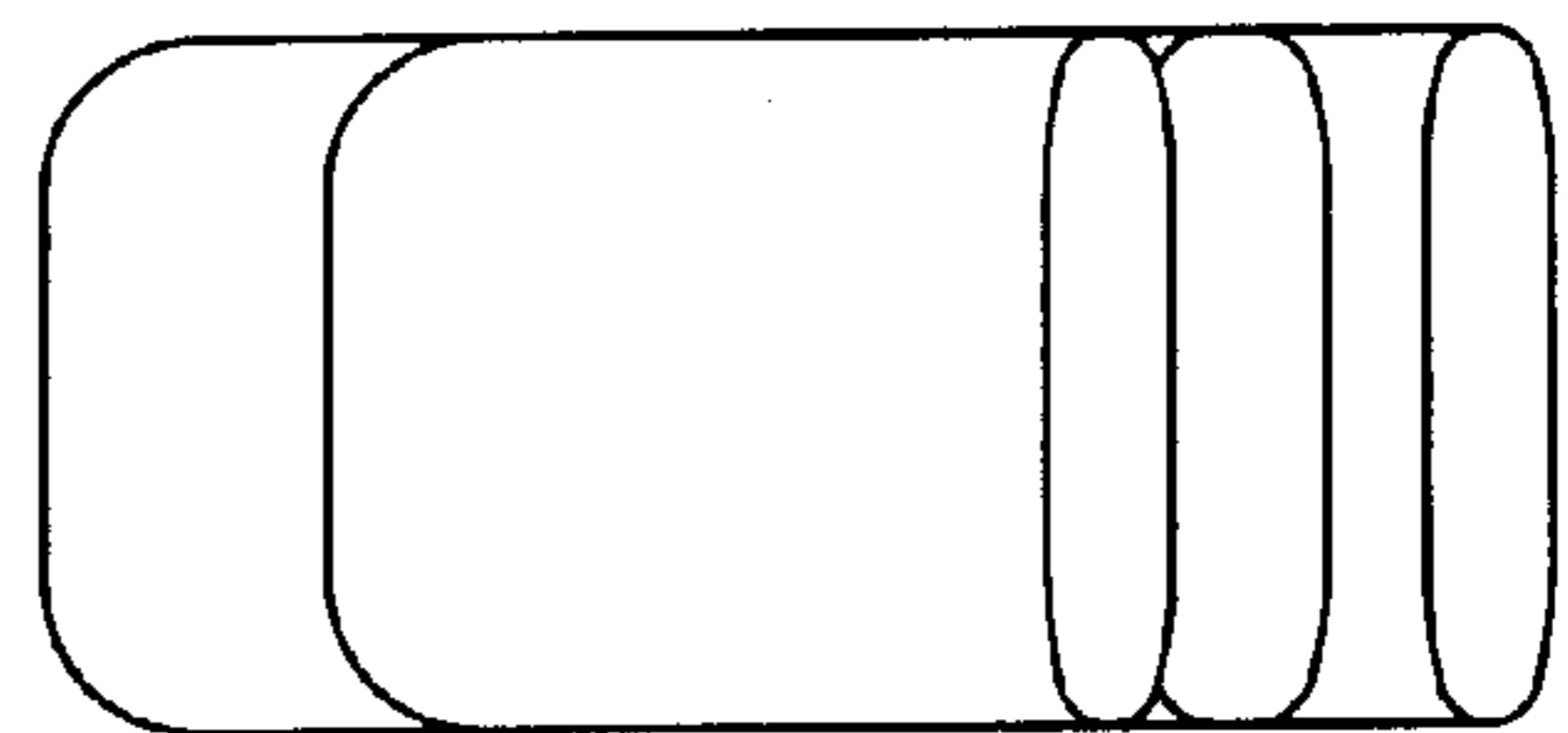


FIG. 18

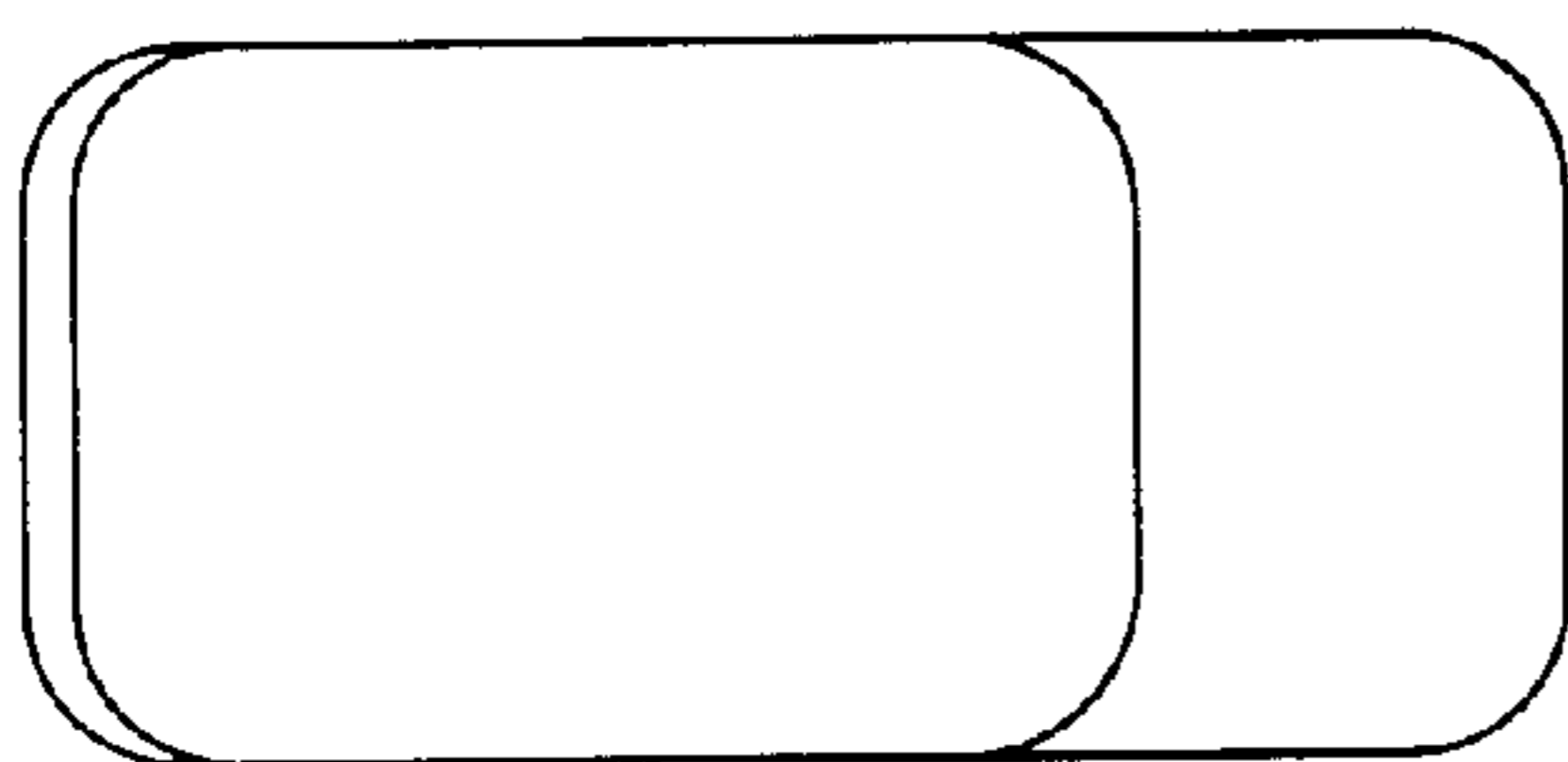


FIG. 19

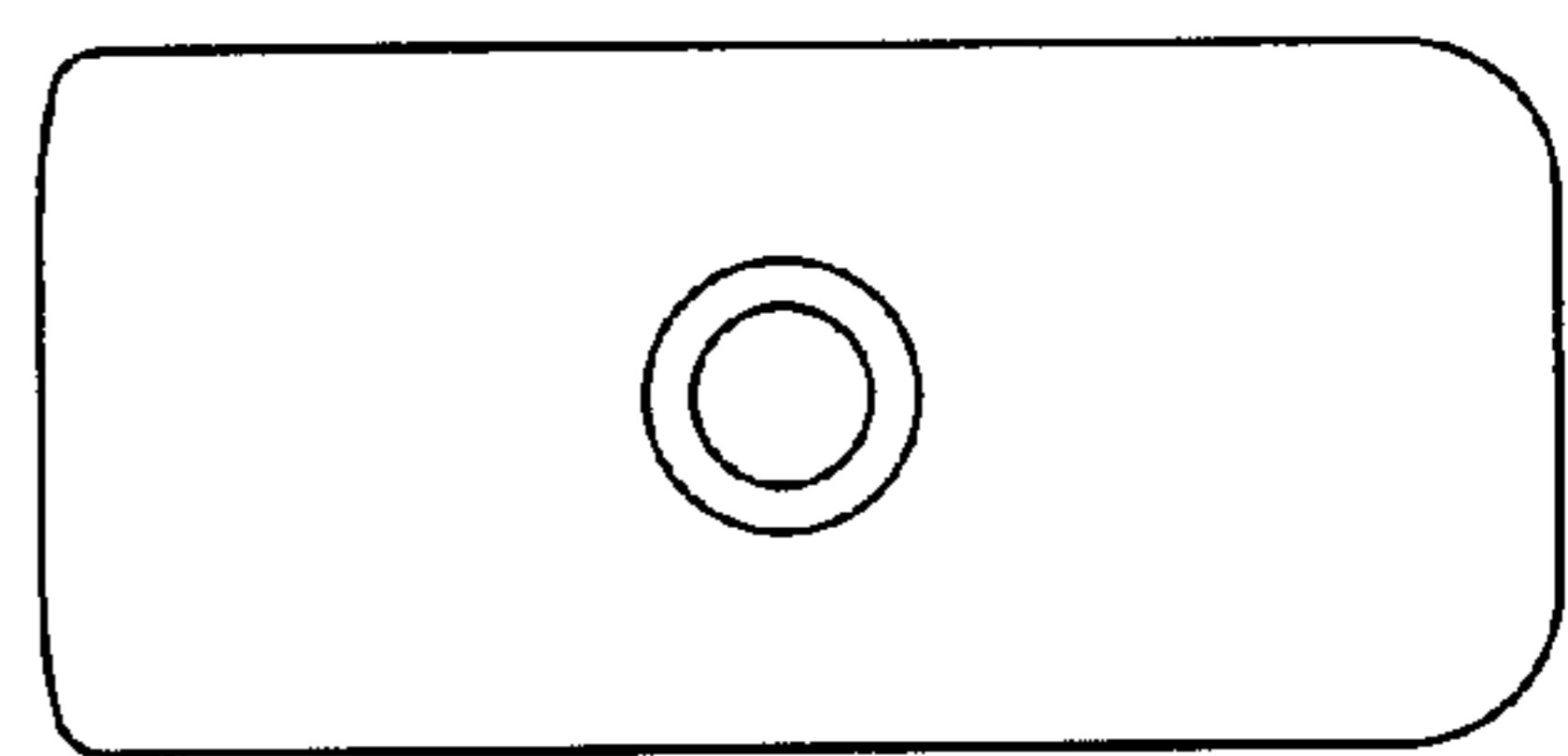


FIG. 20

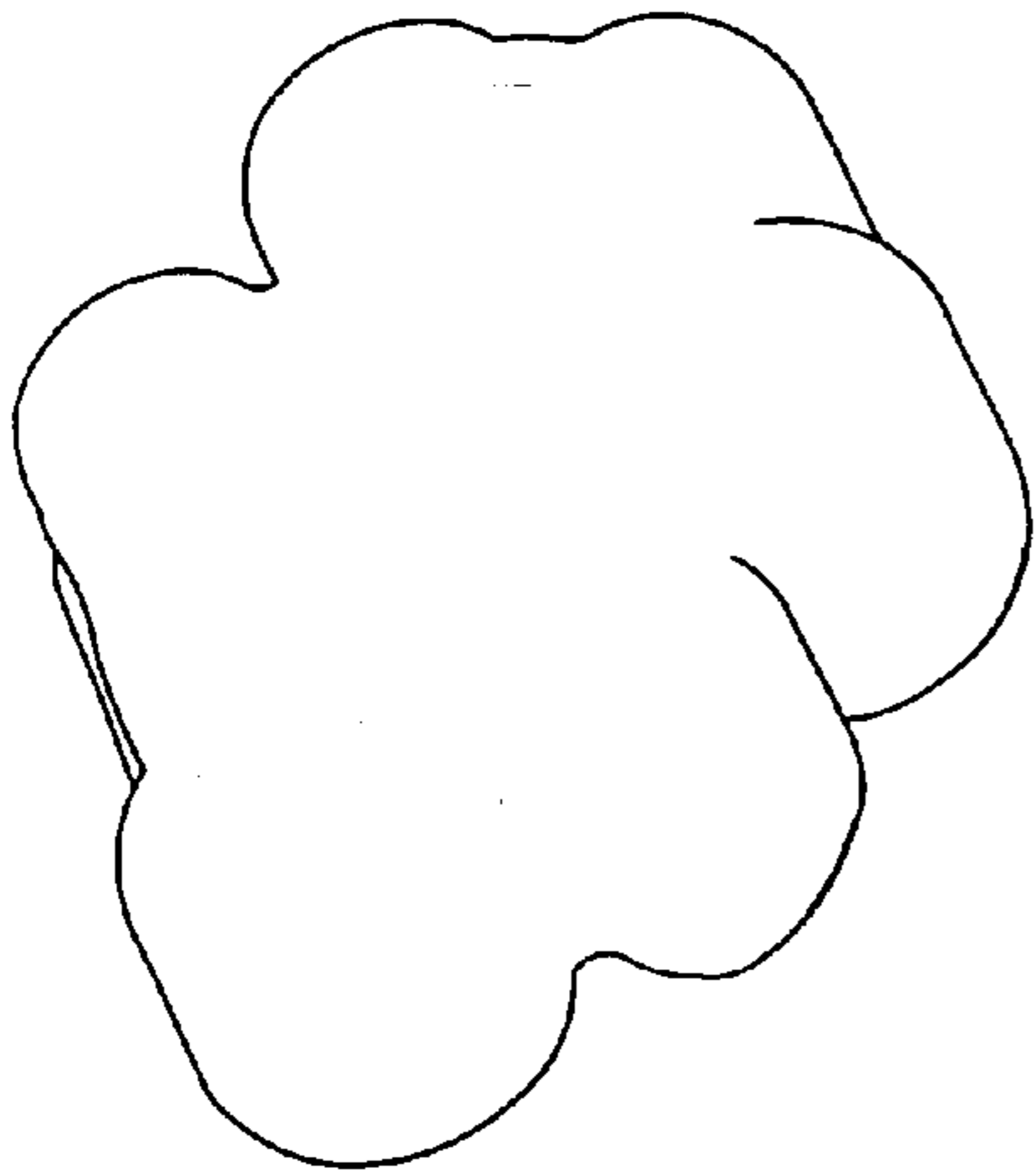


FIG. 21

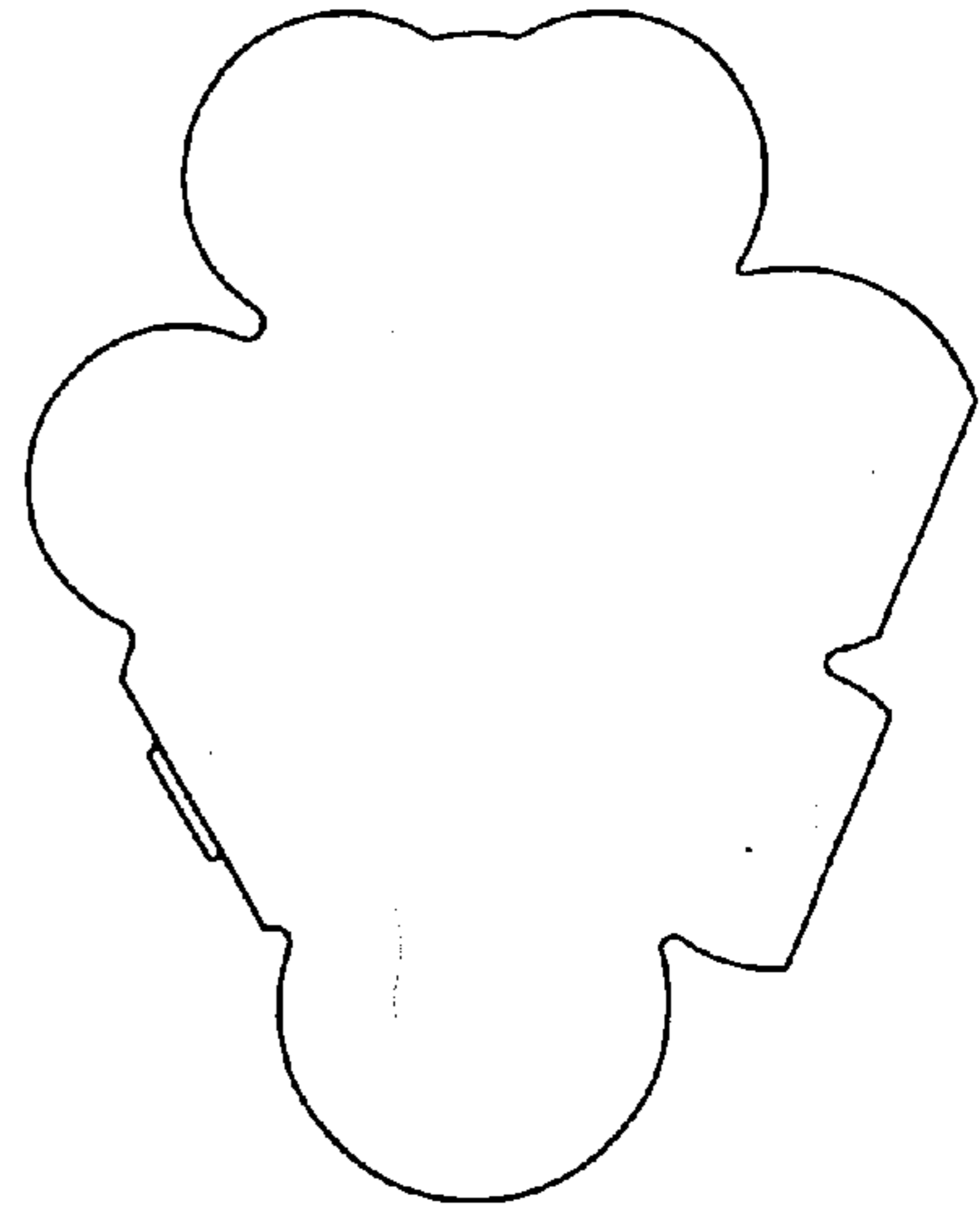


FIG. 22

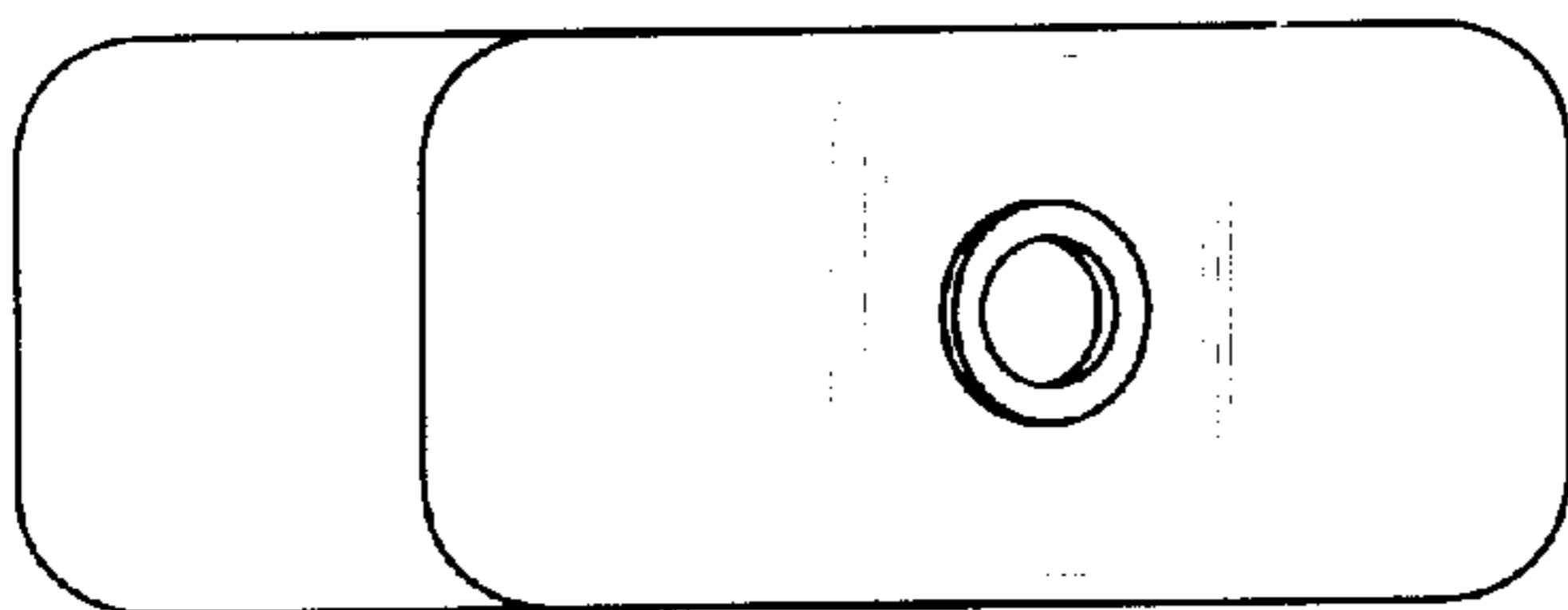


FIG. 23

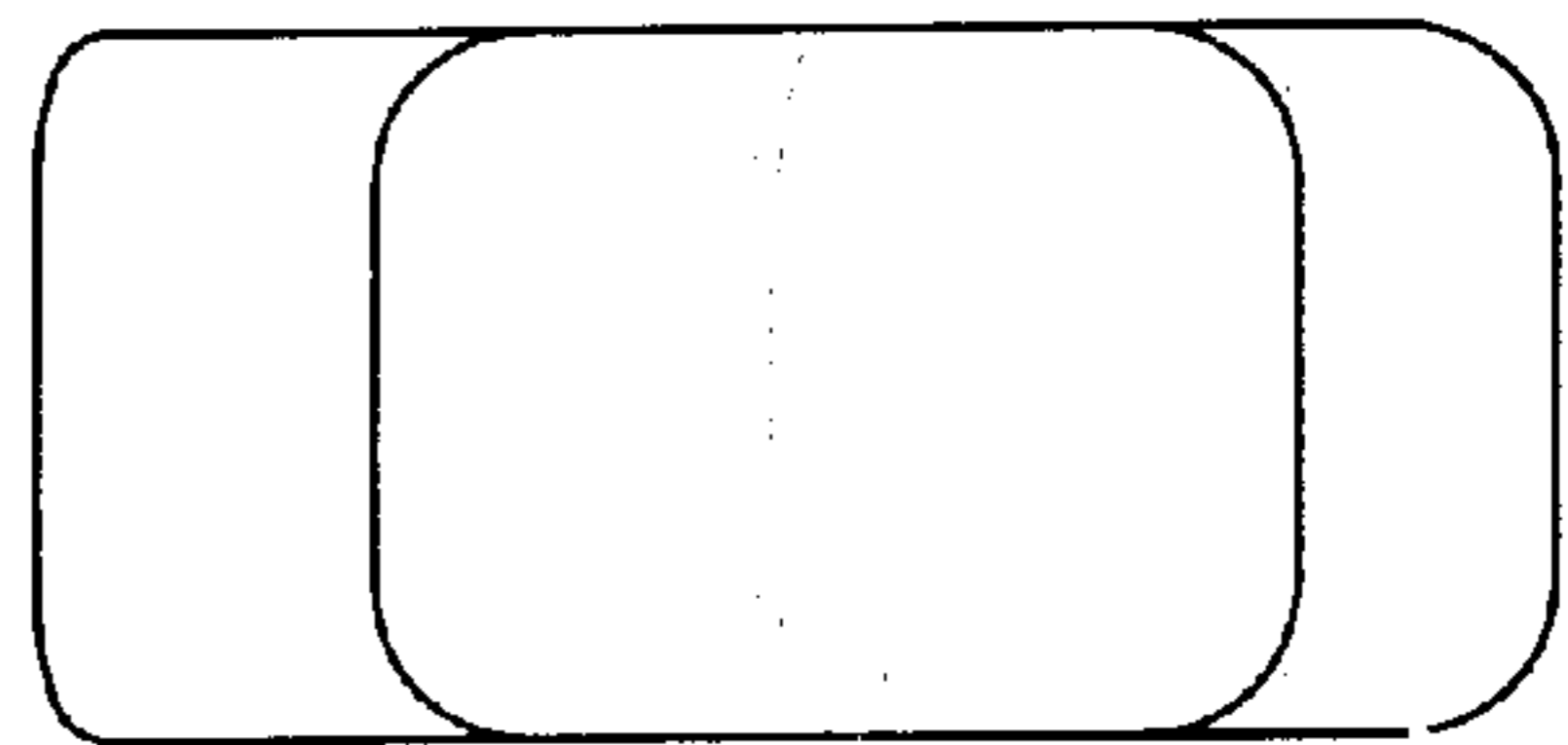


FIG. 24

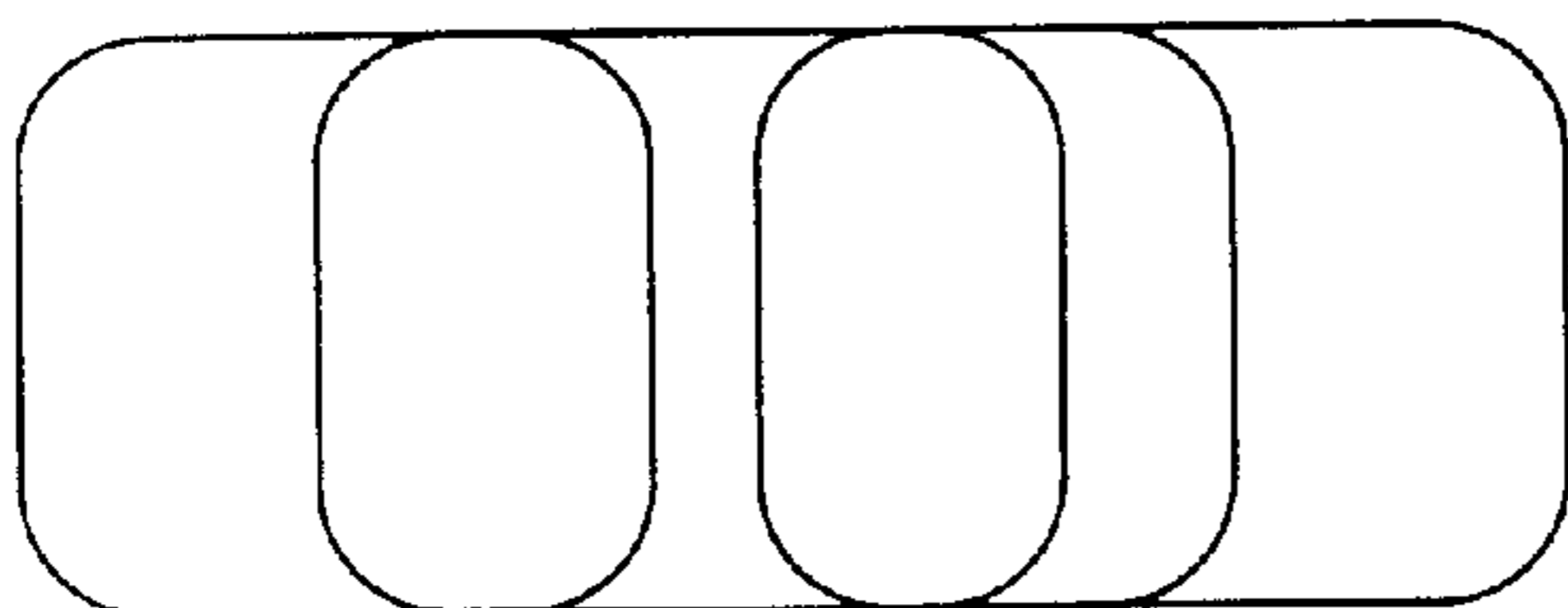


FIG. 25

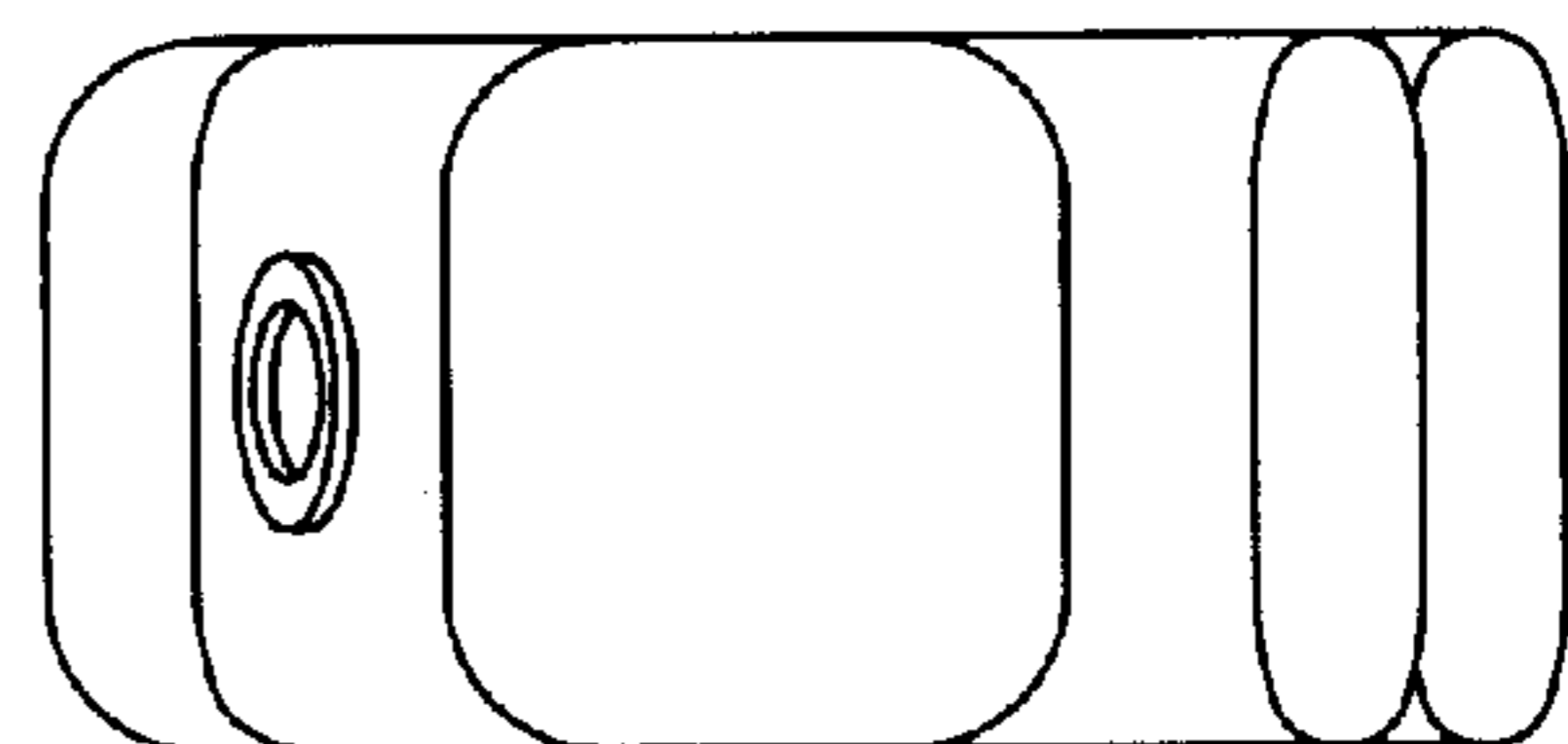


FIG. 26

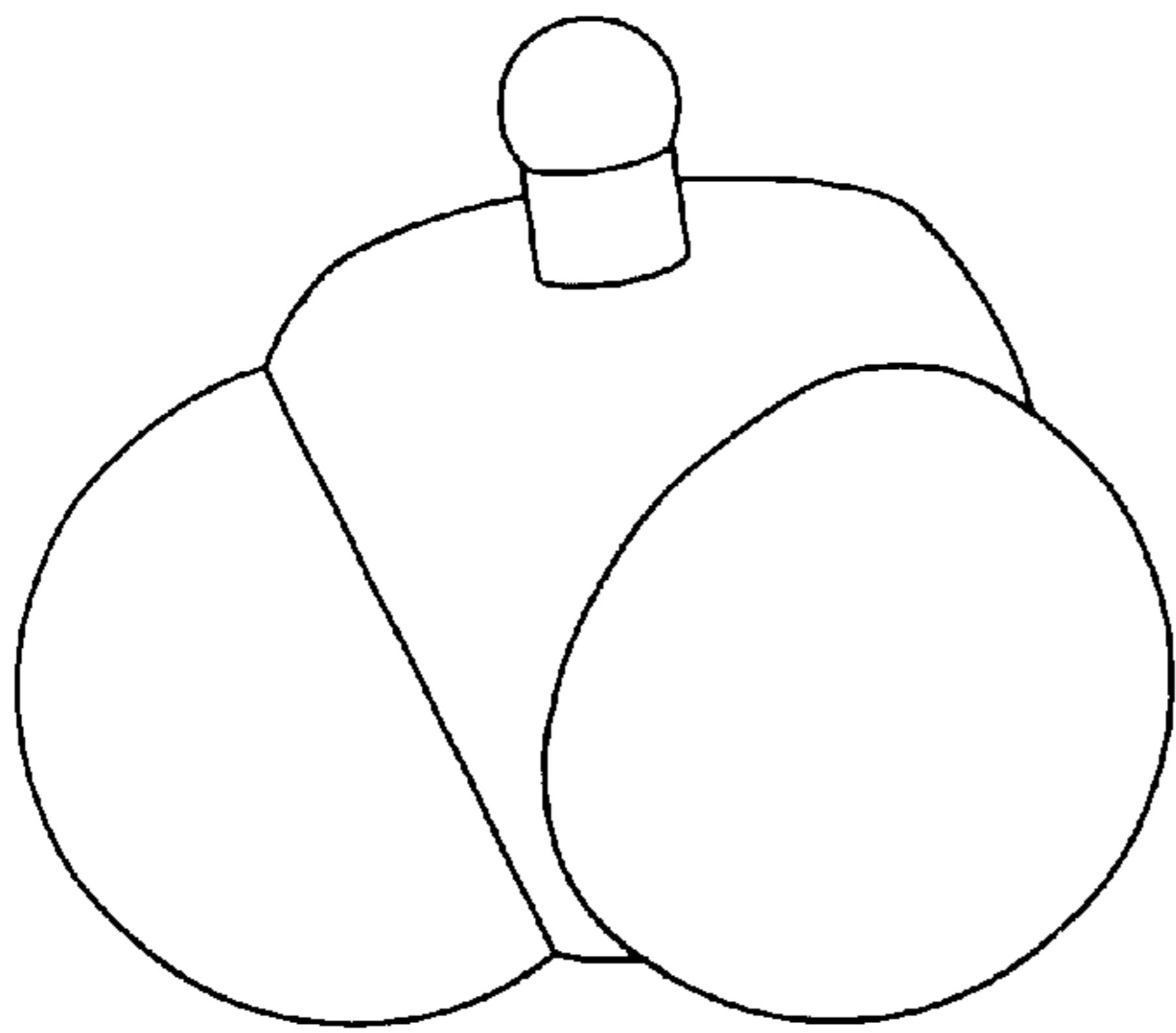


FIG. 27

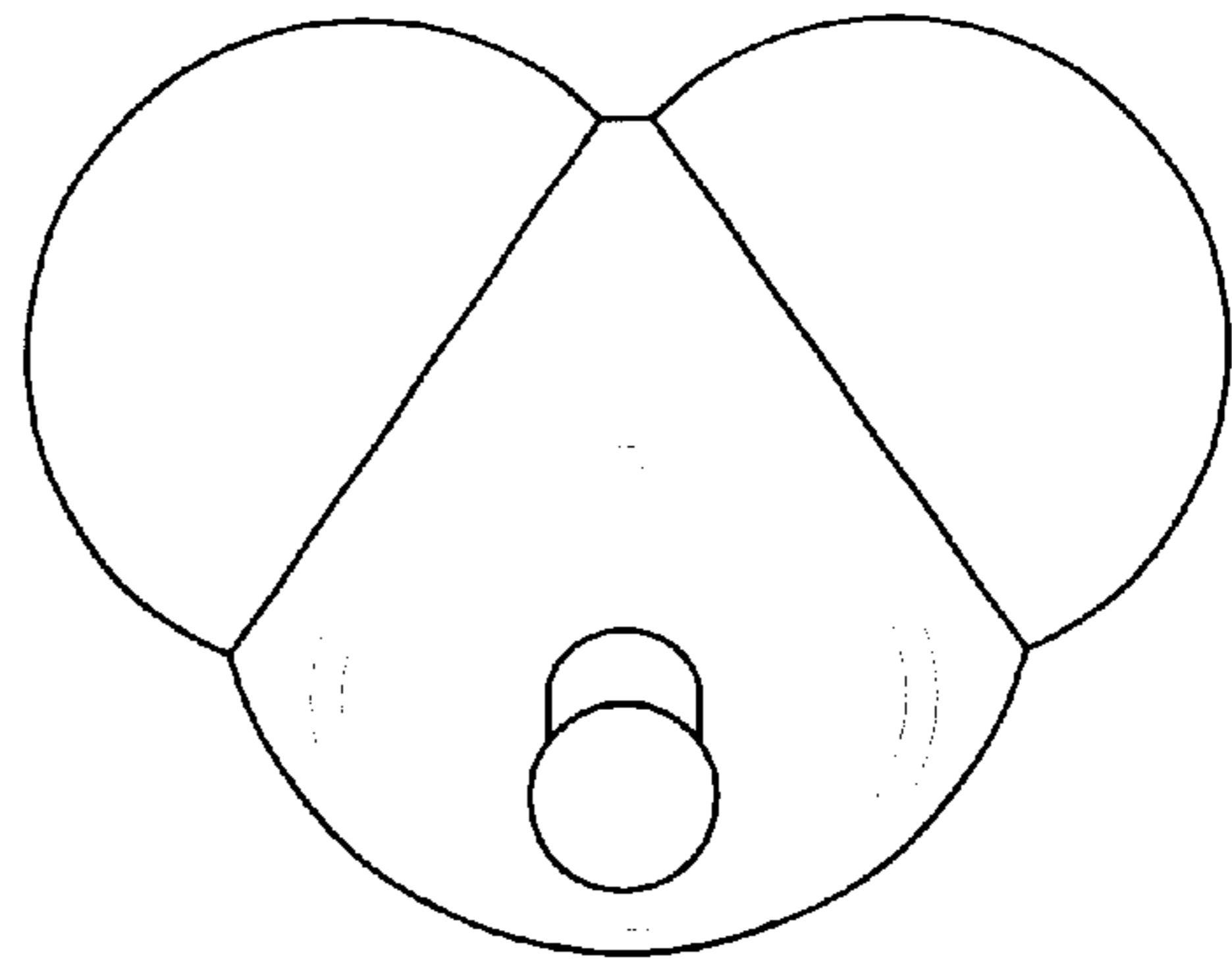


FIG. 28

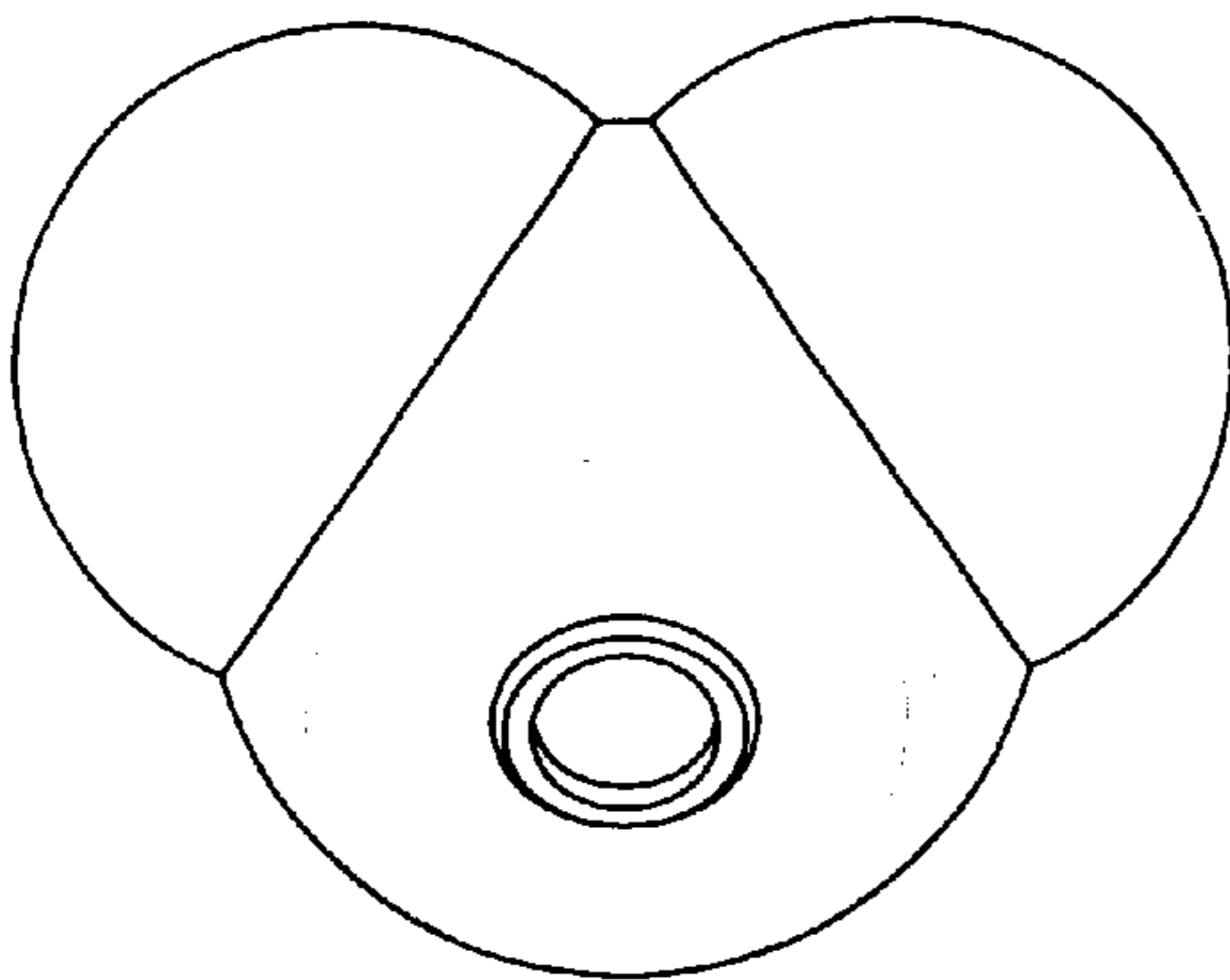


FIG. 29

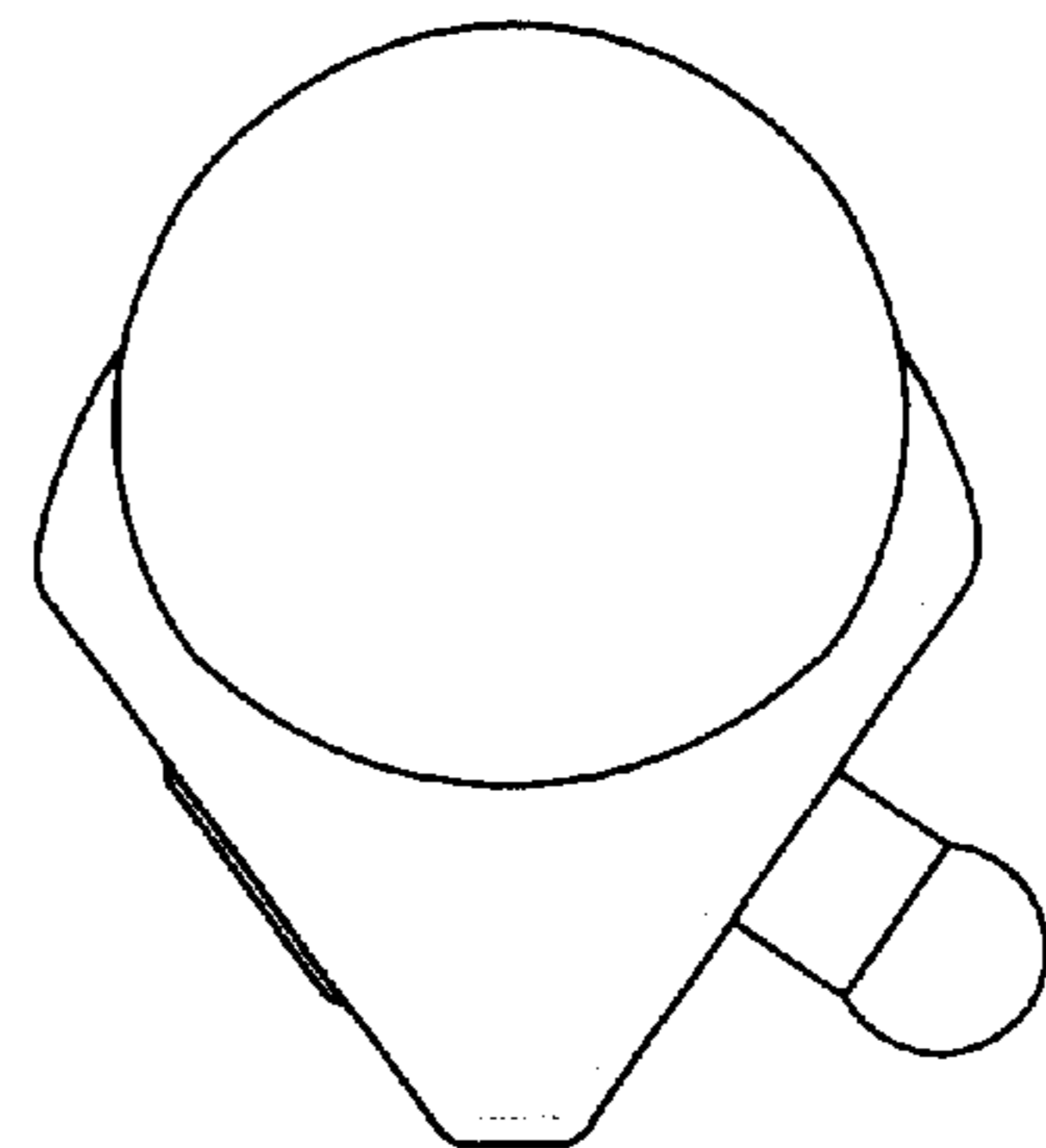


FIG. 30

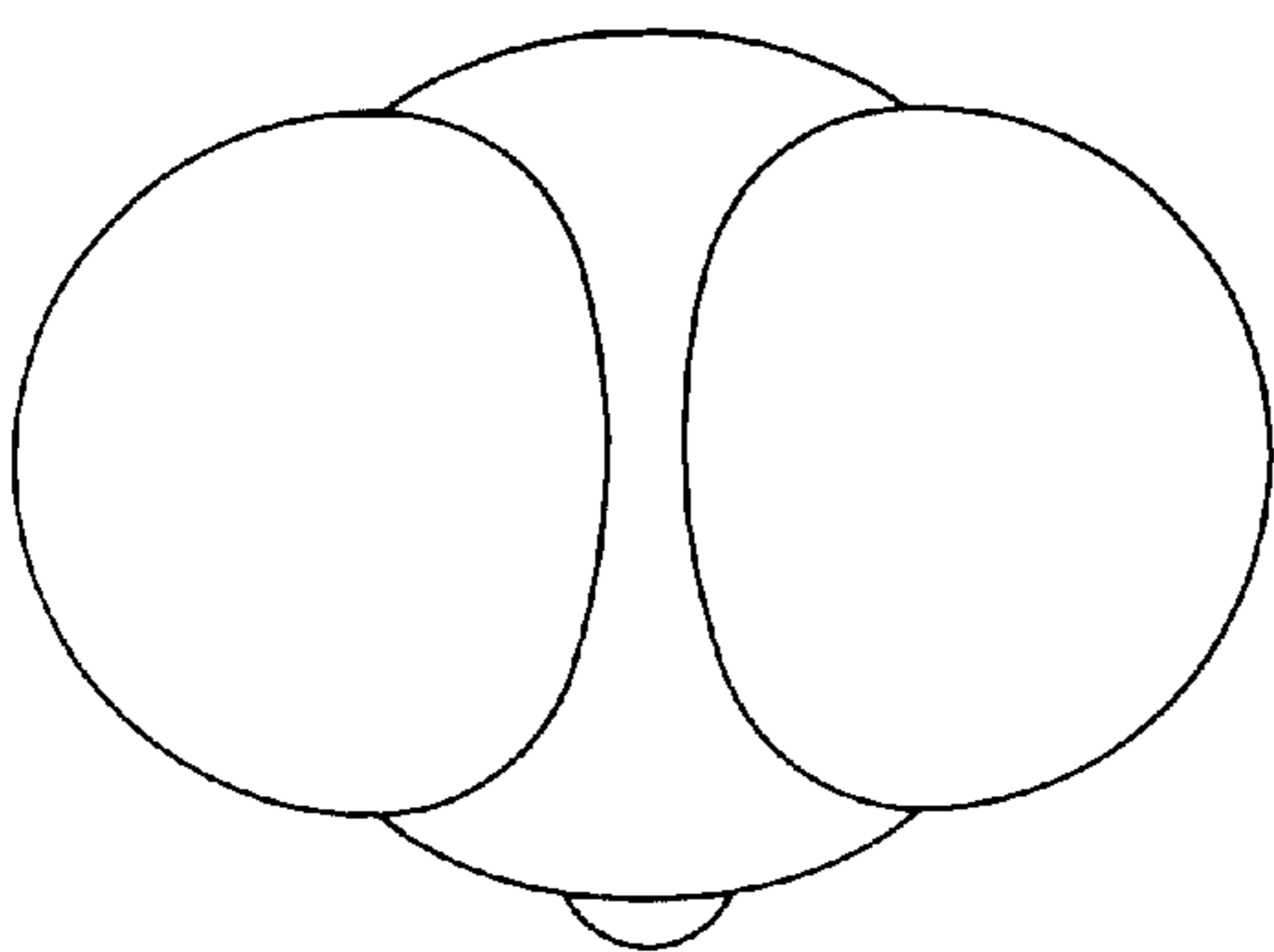


FIG. 31

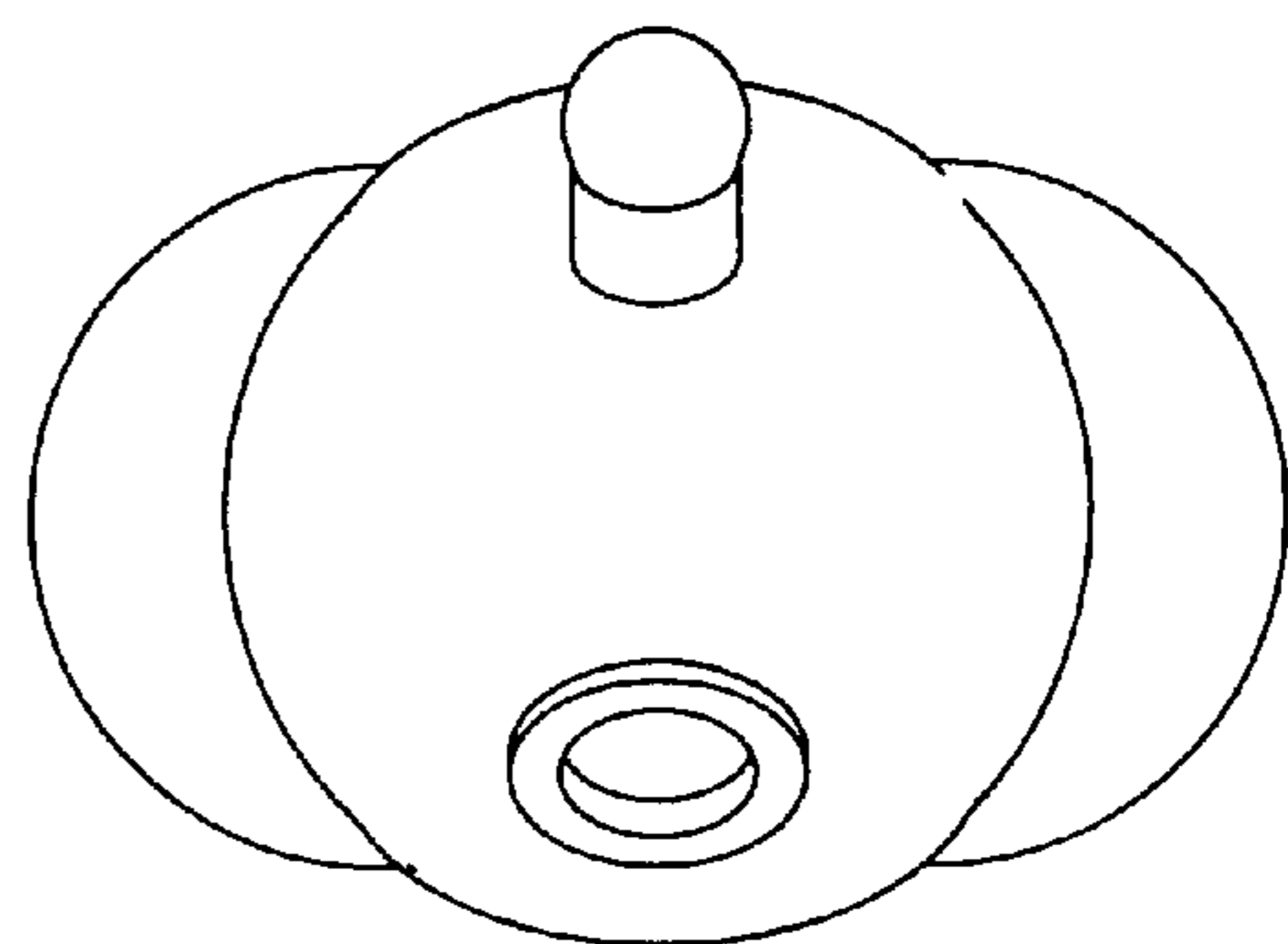


FIG. 32

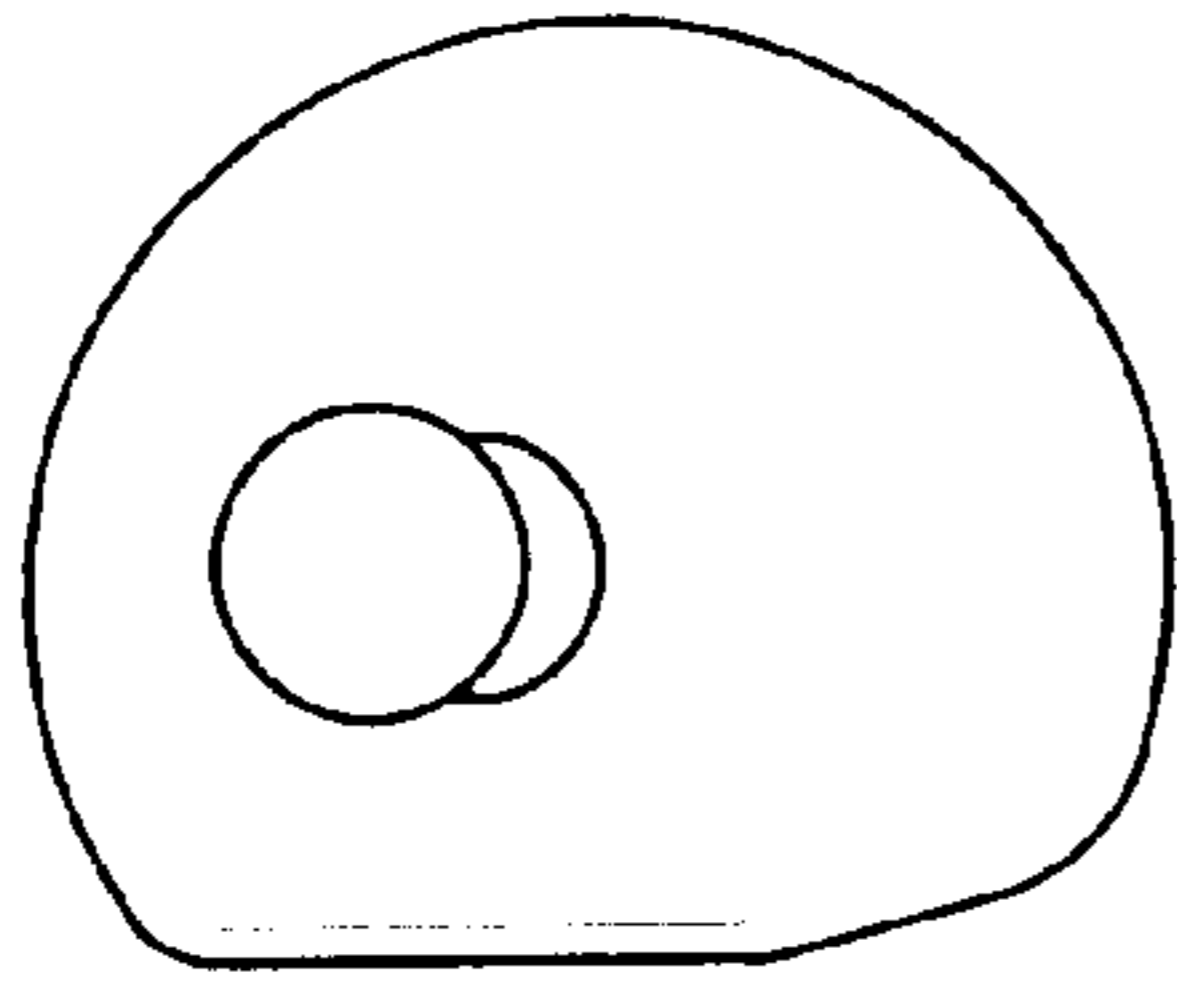


FIG. 33

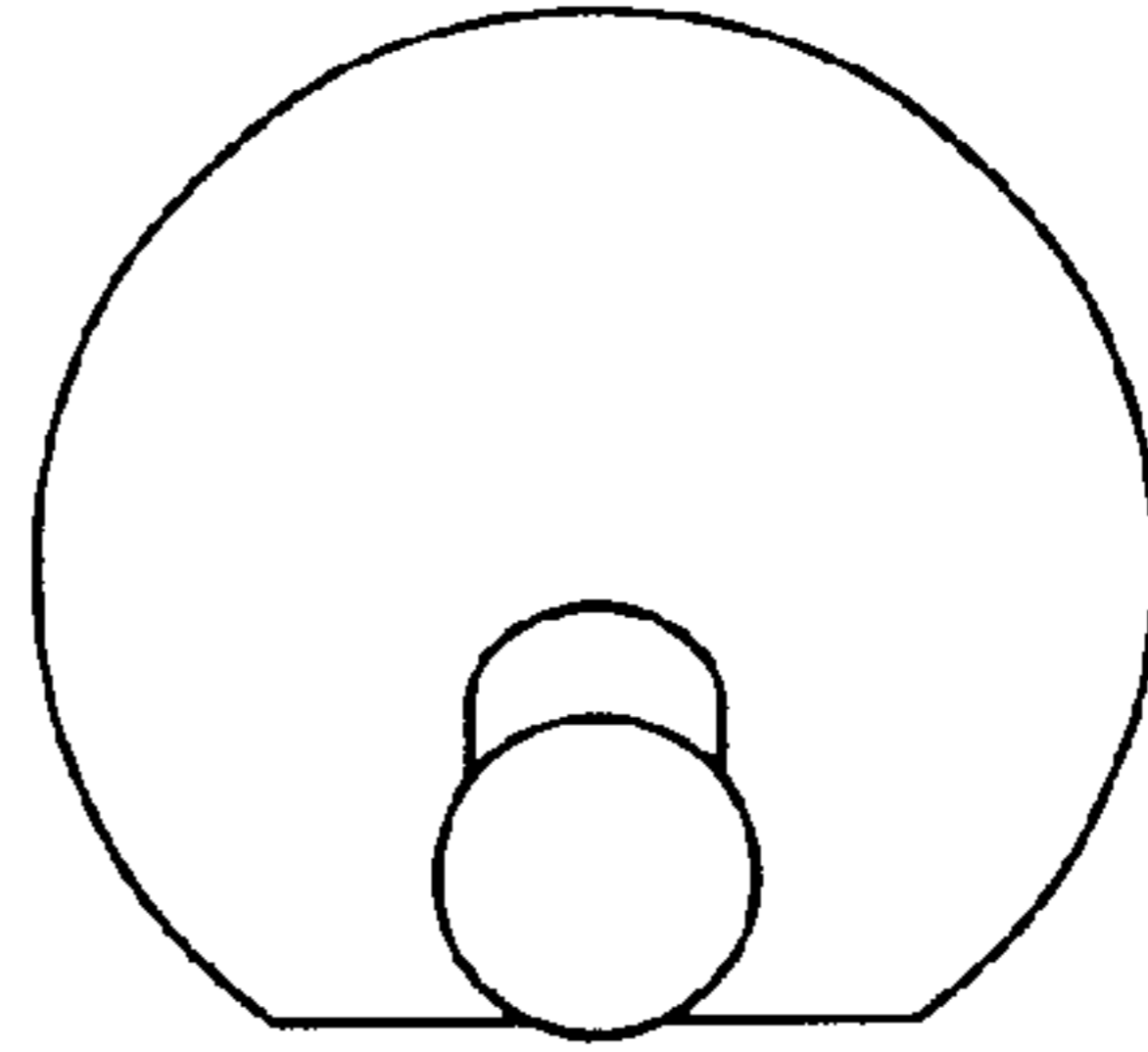


FIG. 34

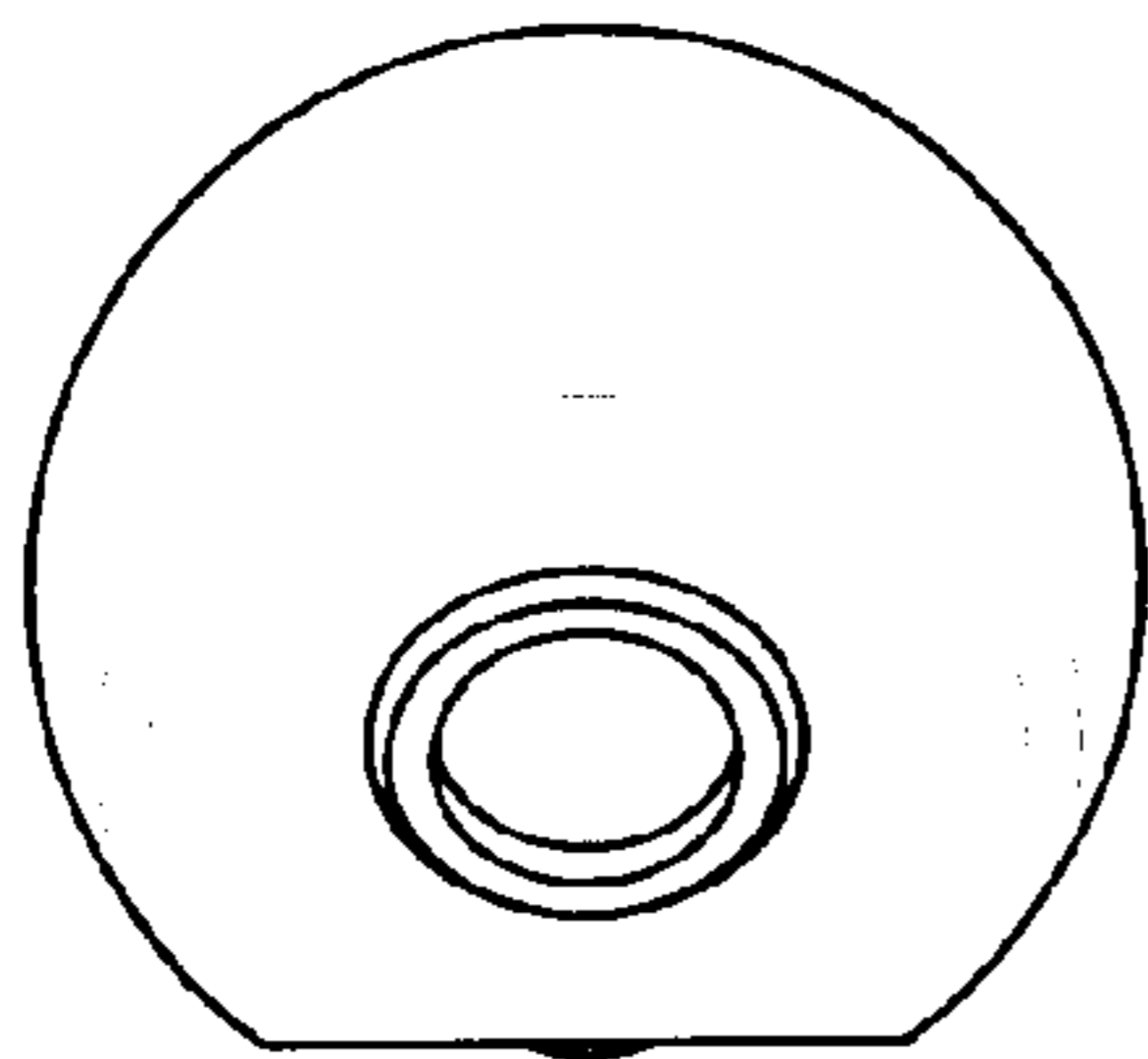


FIG. 35

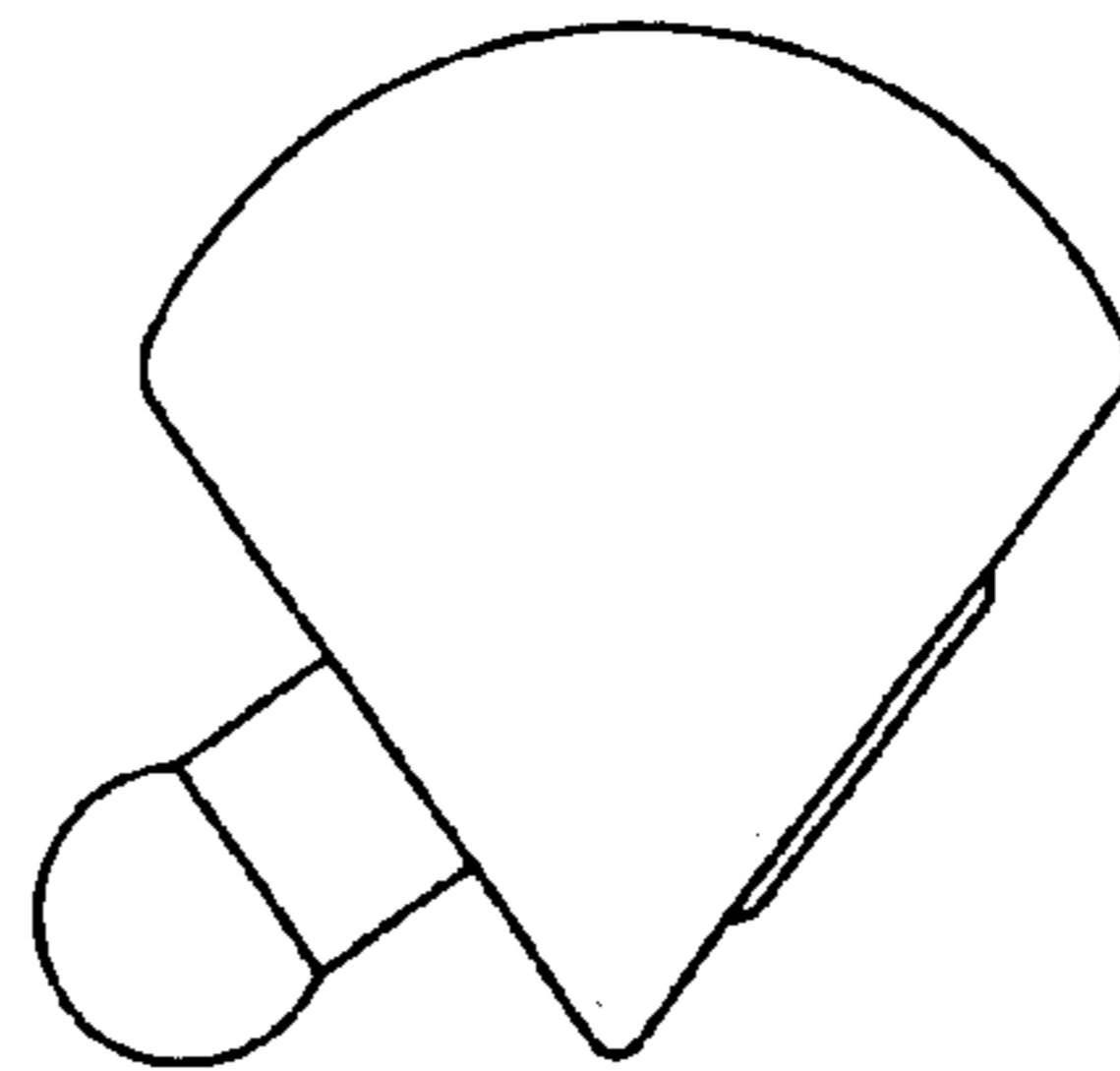


FIG. 36

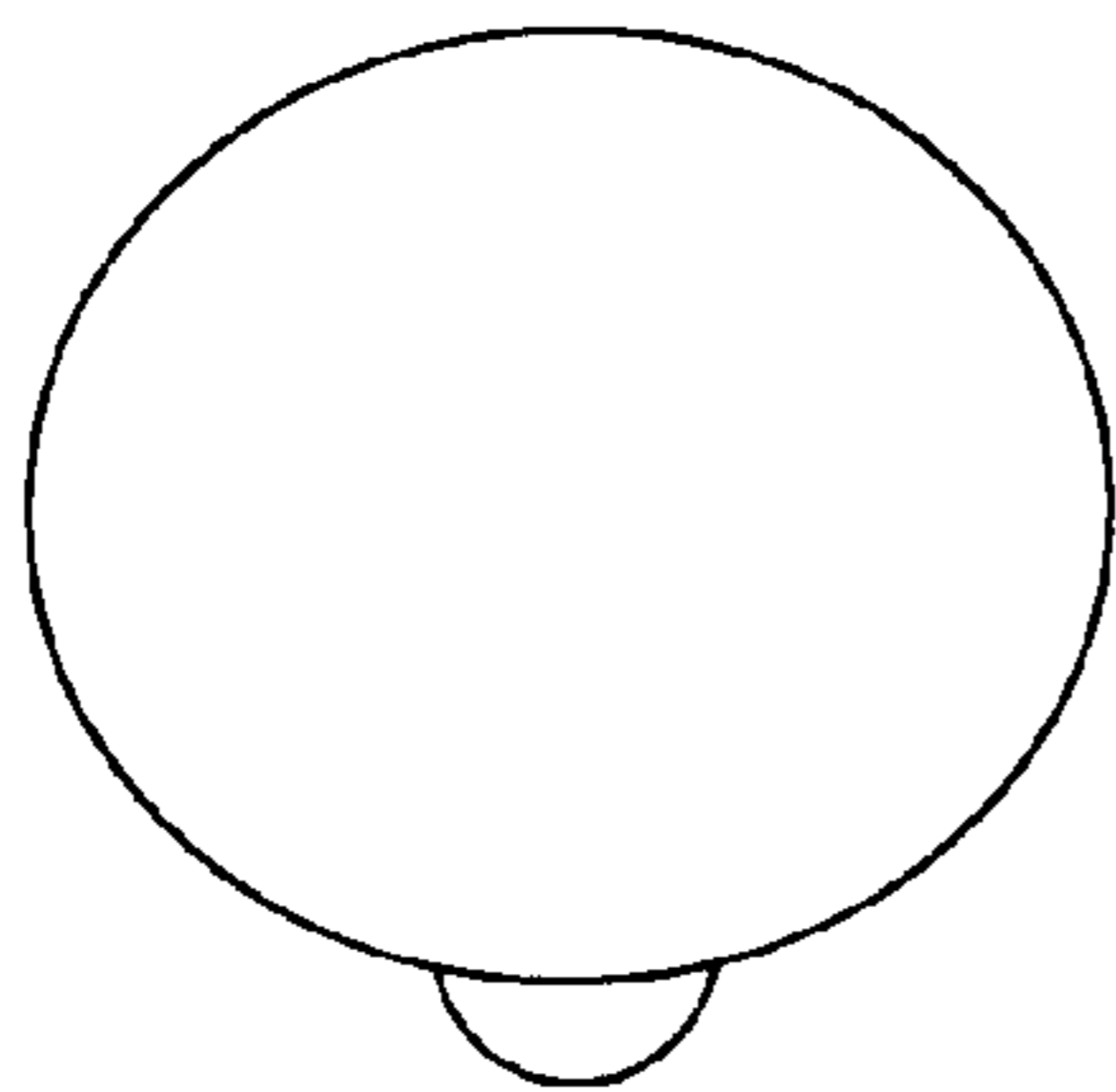


FIG. 37

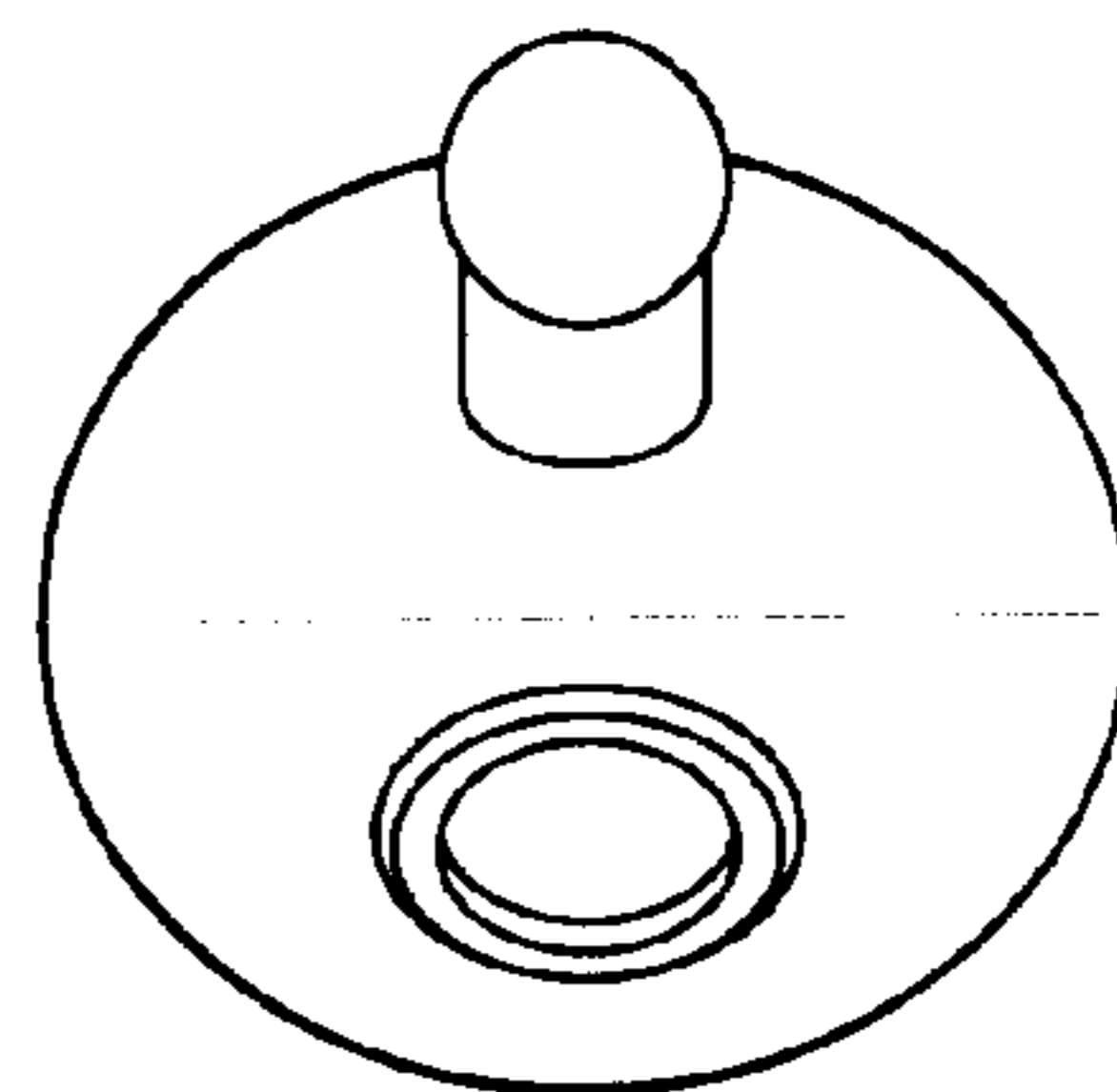


FIG. 38

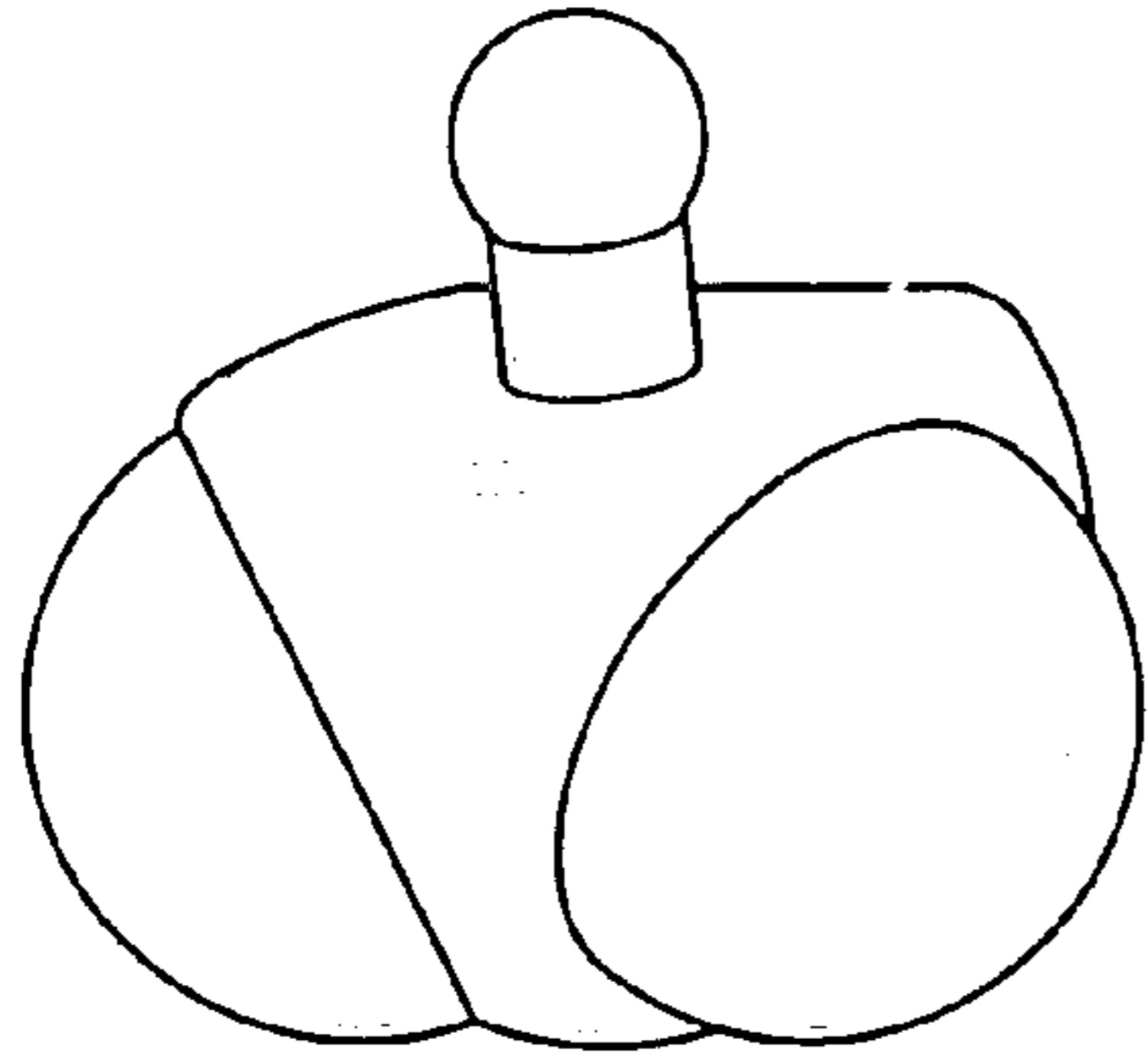


FIG. 39

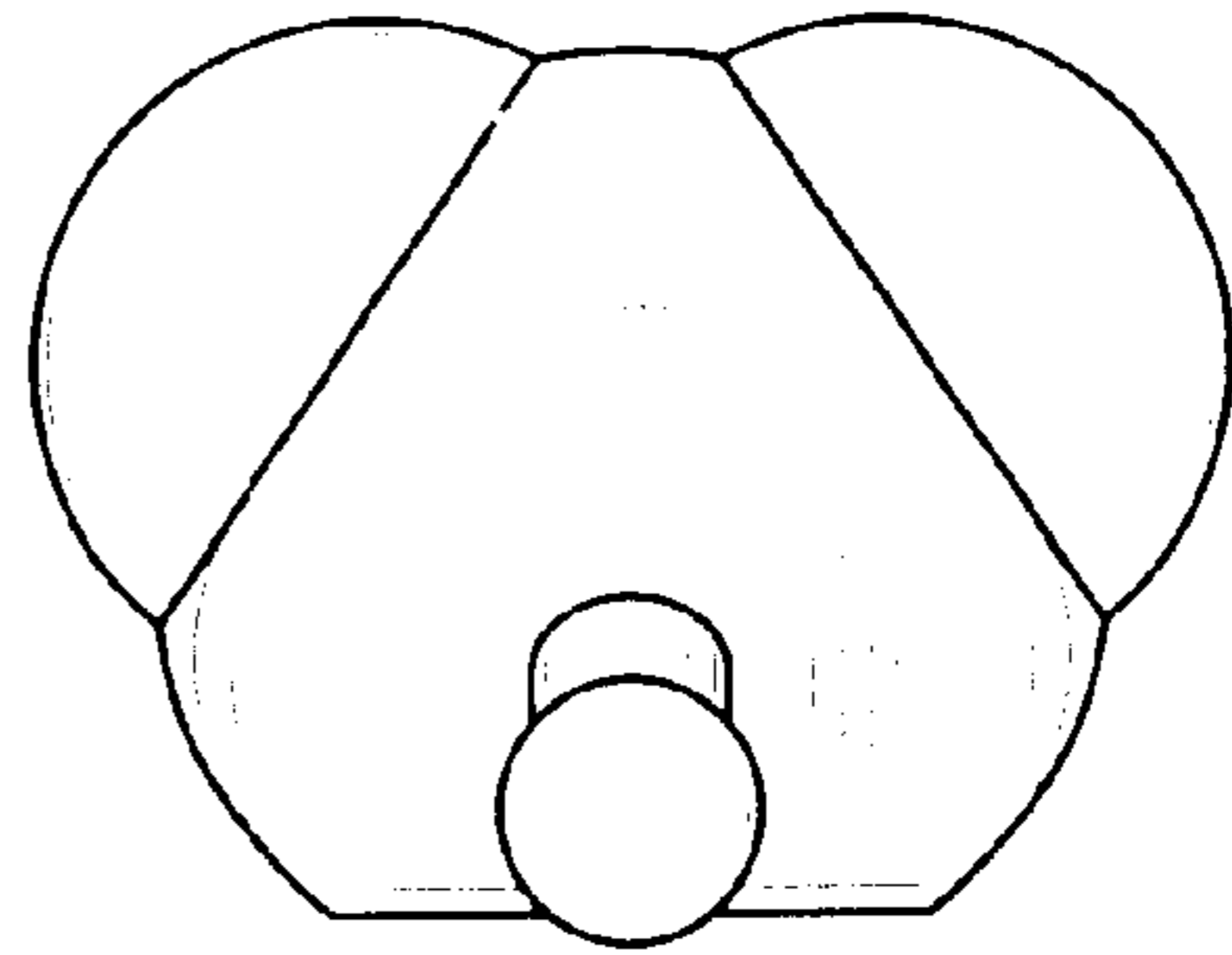


FIG. 40

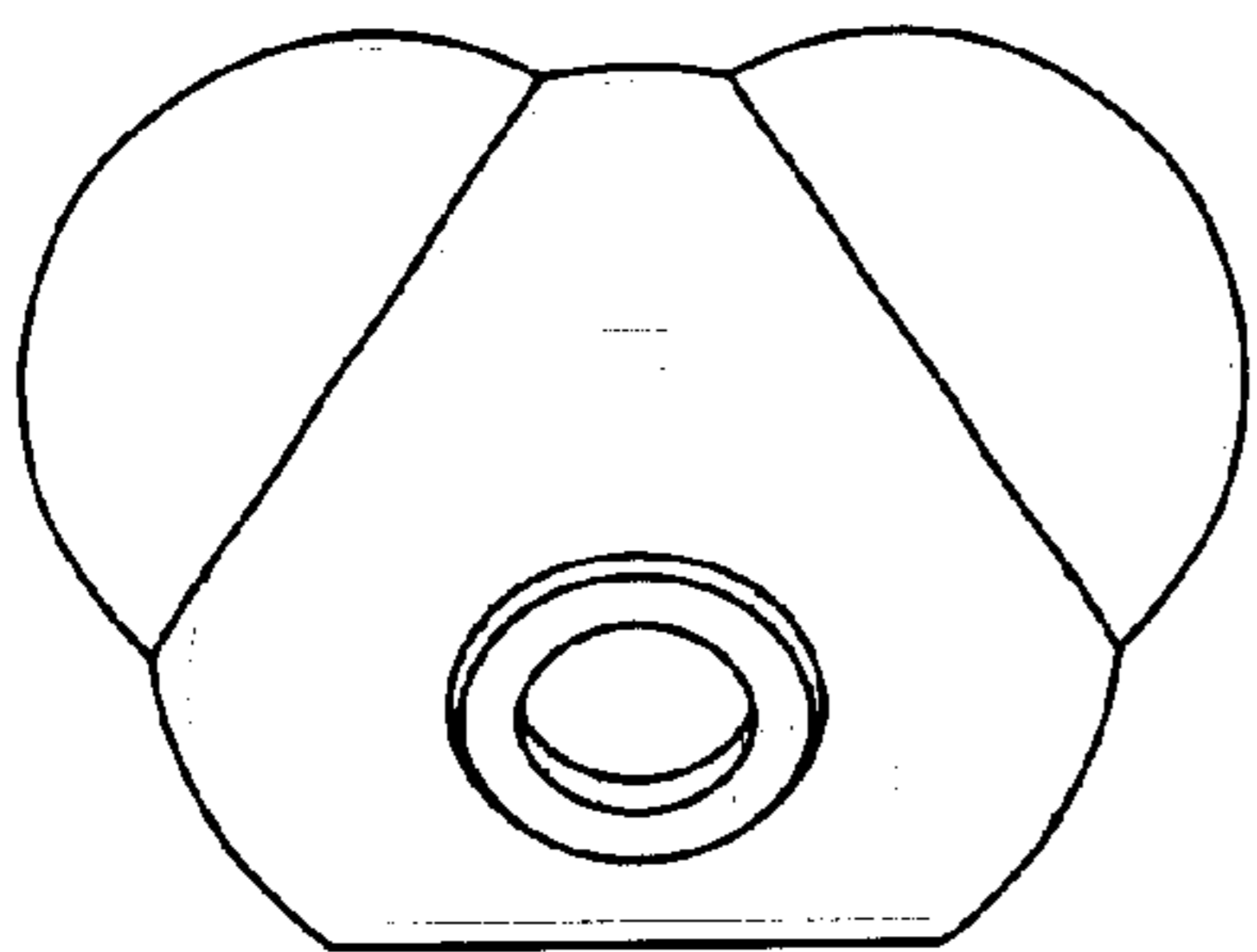


FIG. 41

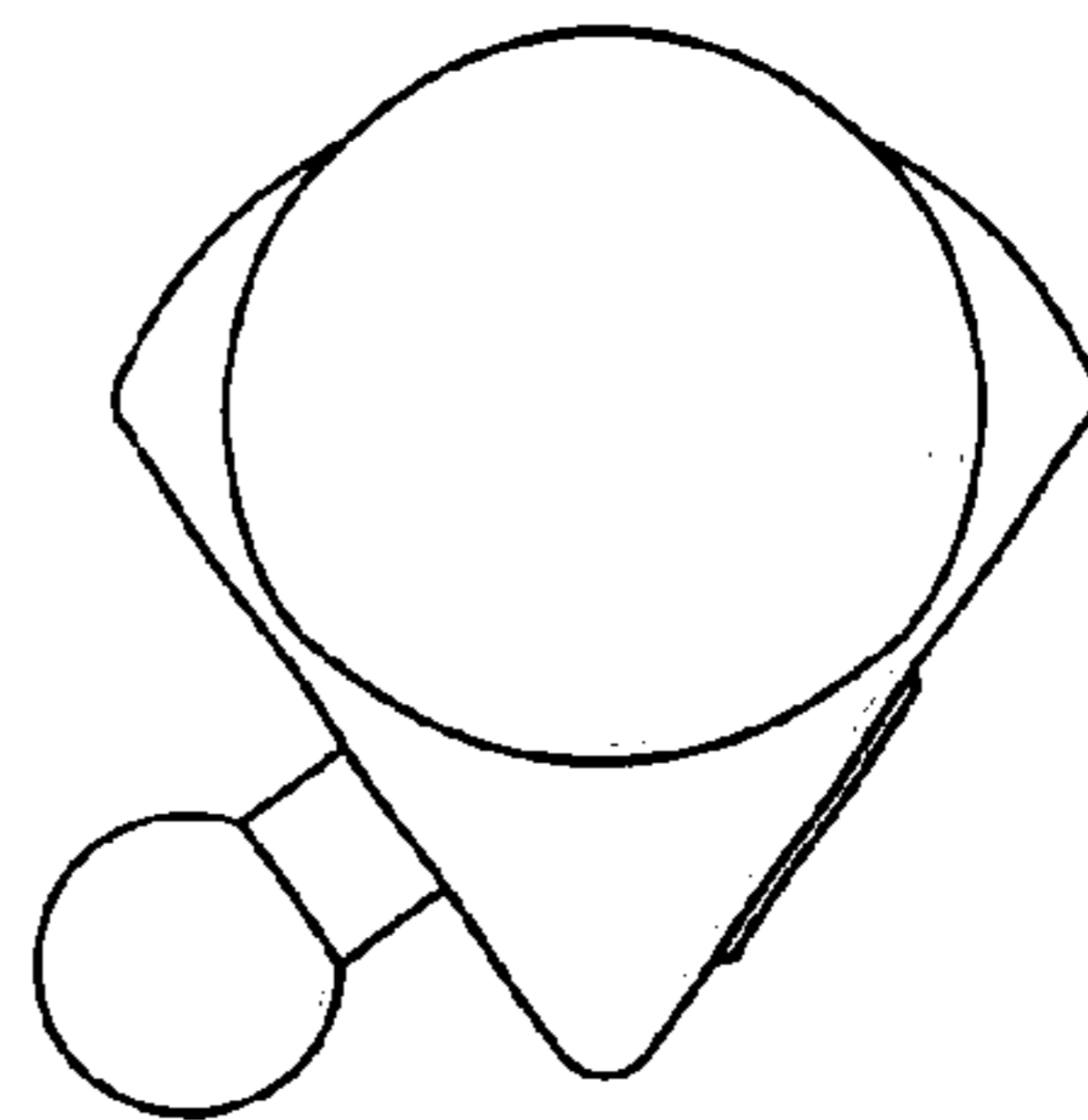


FIG. 42

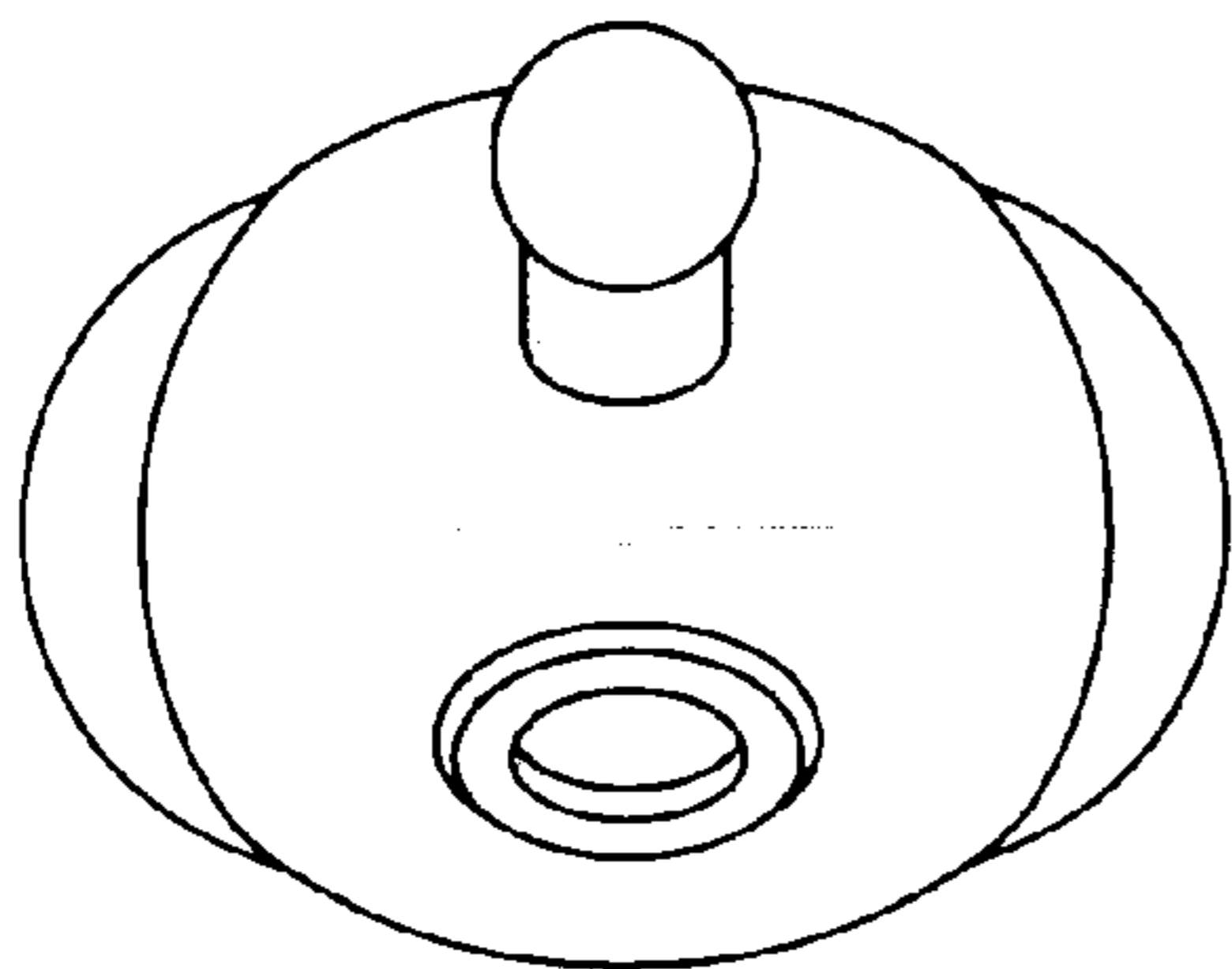


FIG. 43

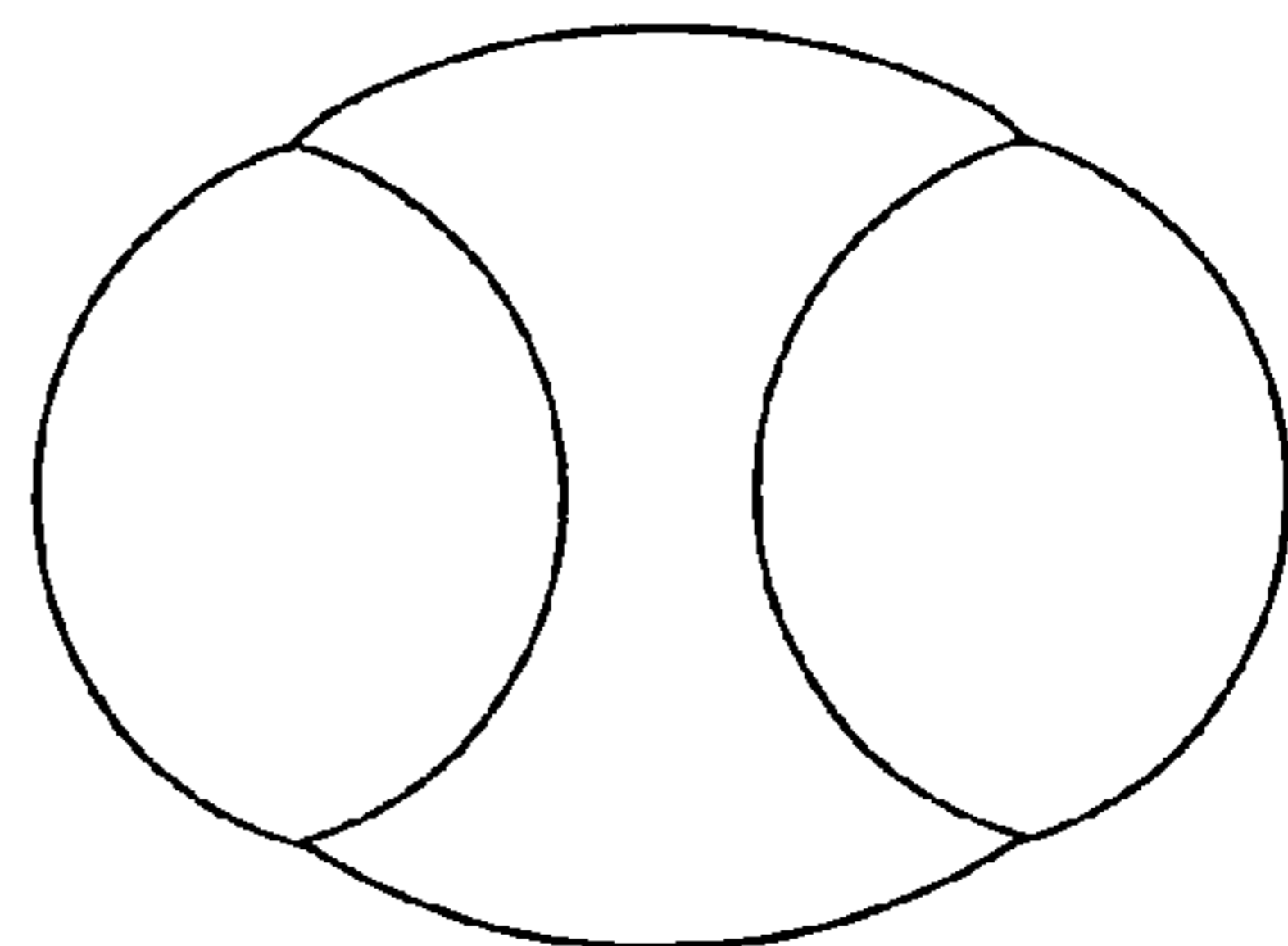


FIG. 44

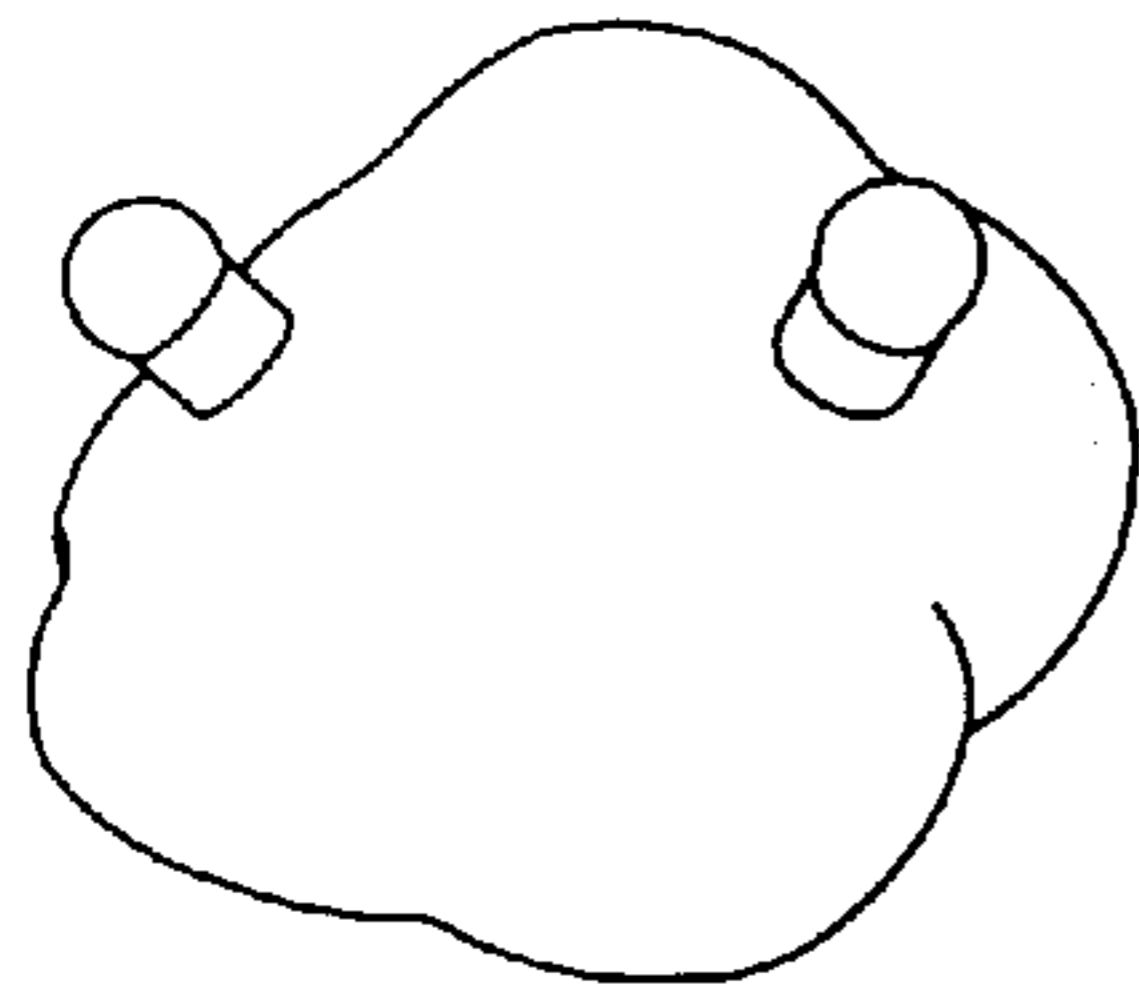


FIG. 45

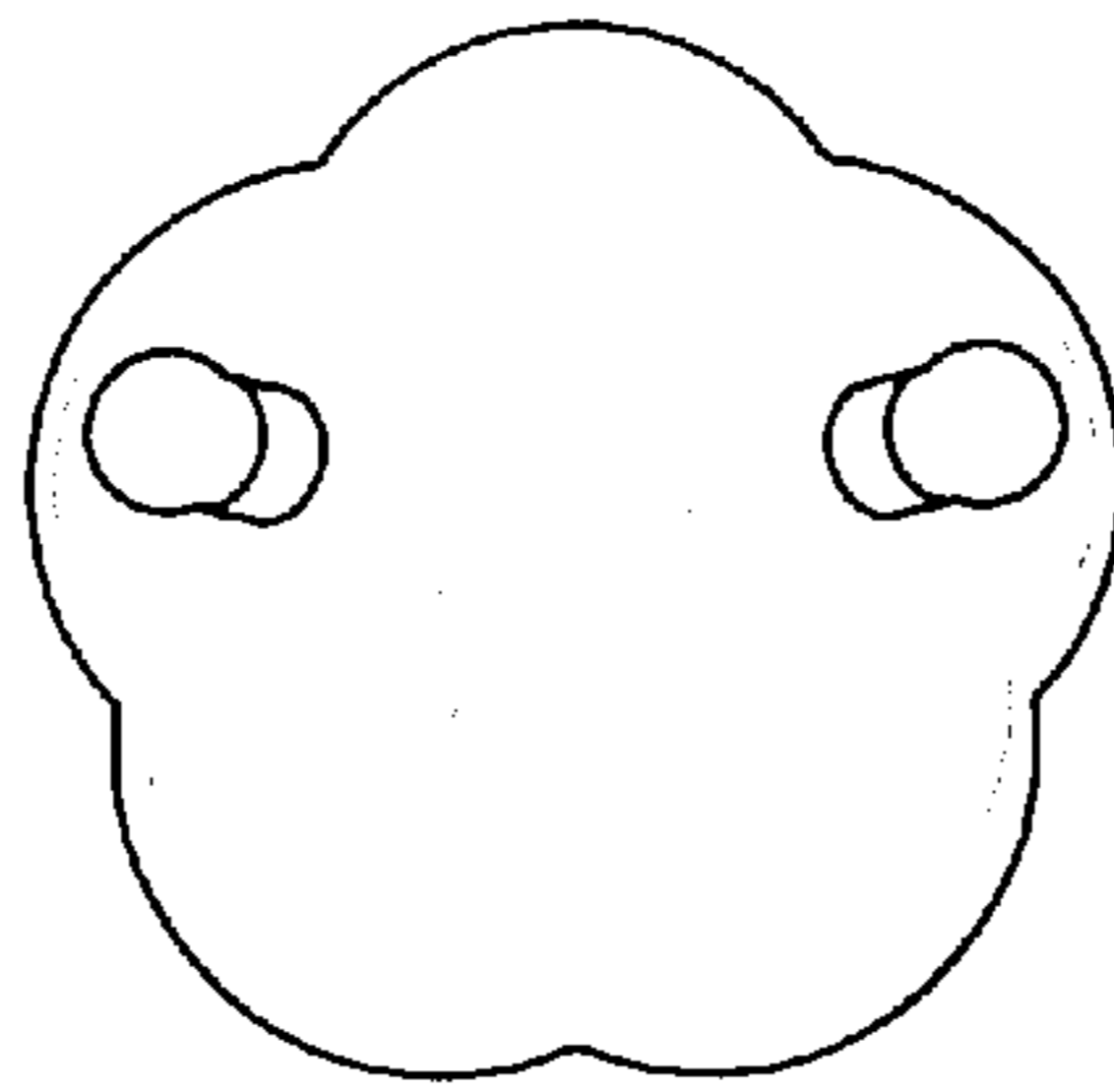


FIG. 46

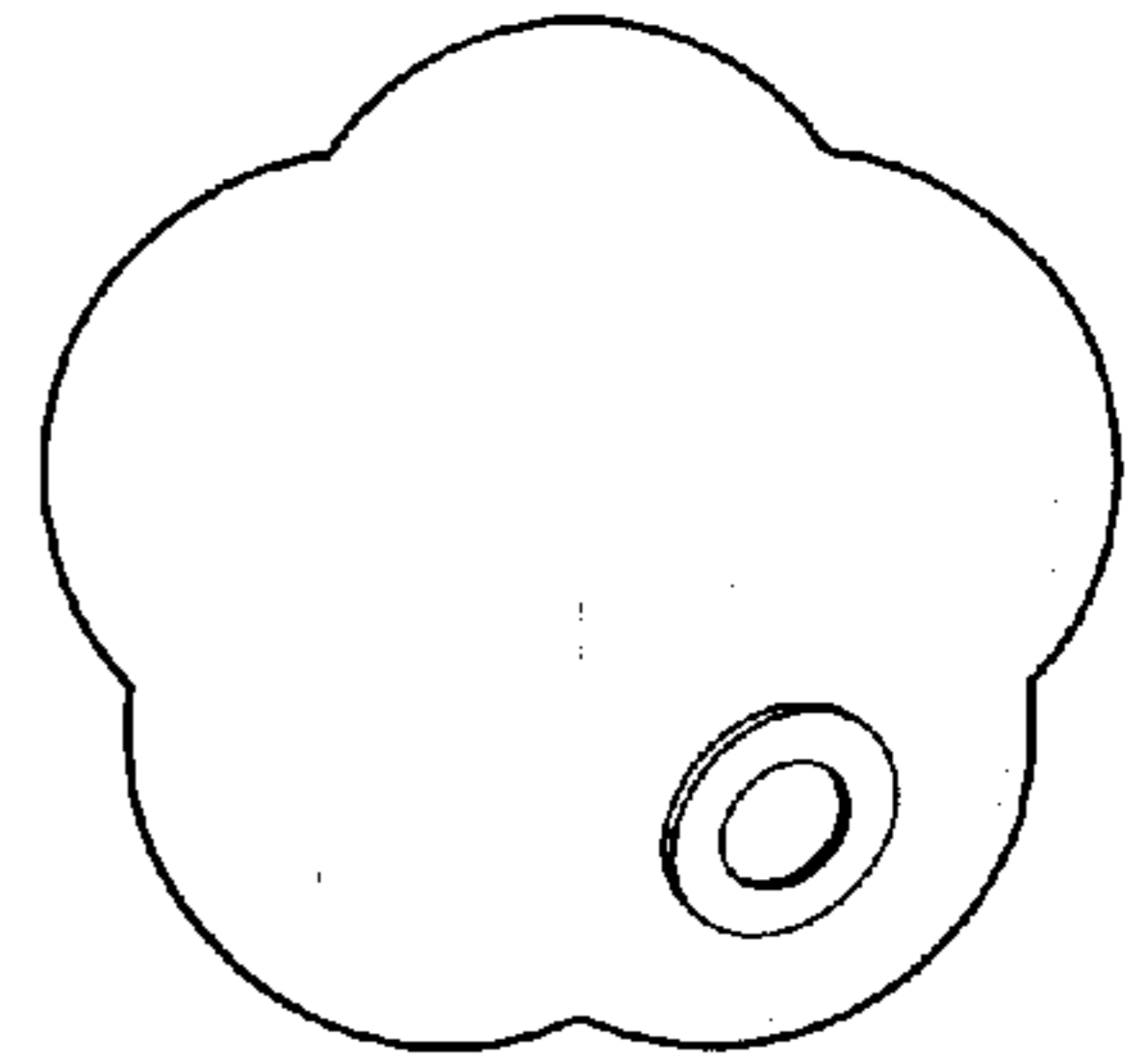


FIG. 47

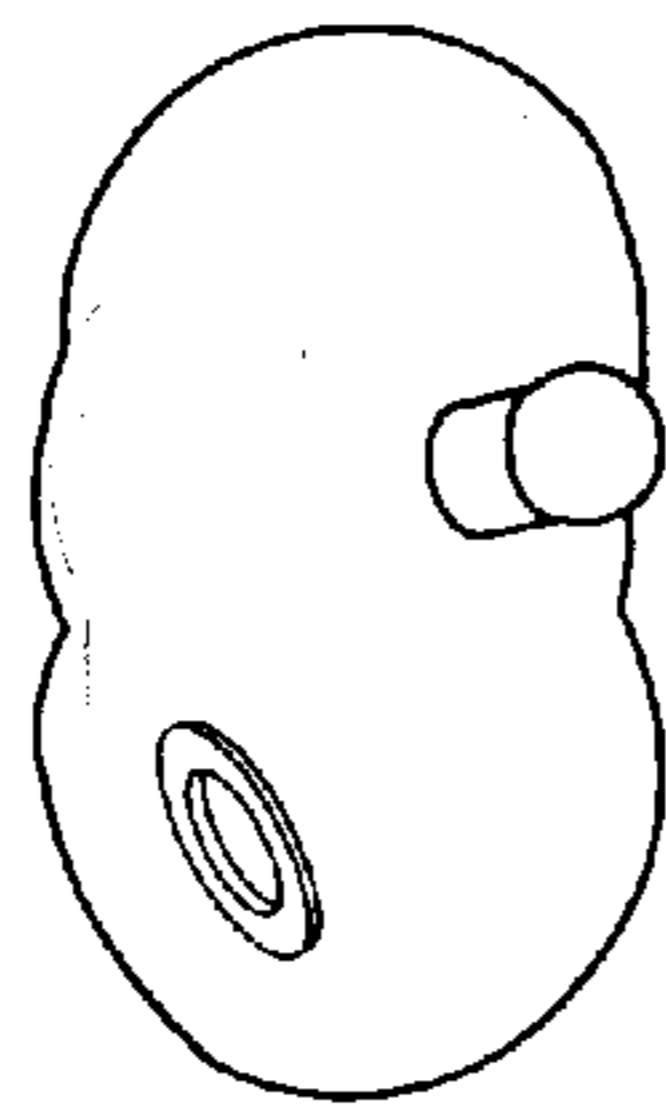


FIG. 48

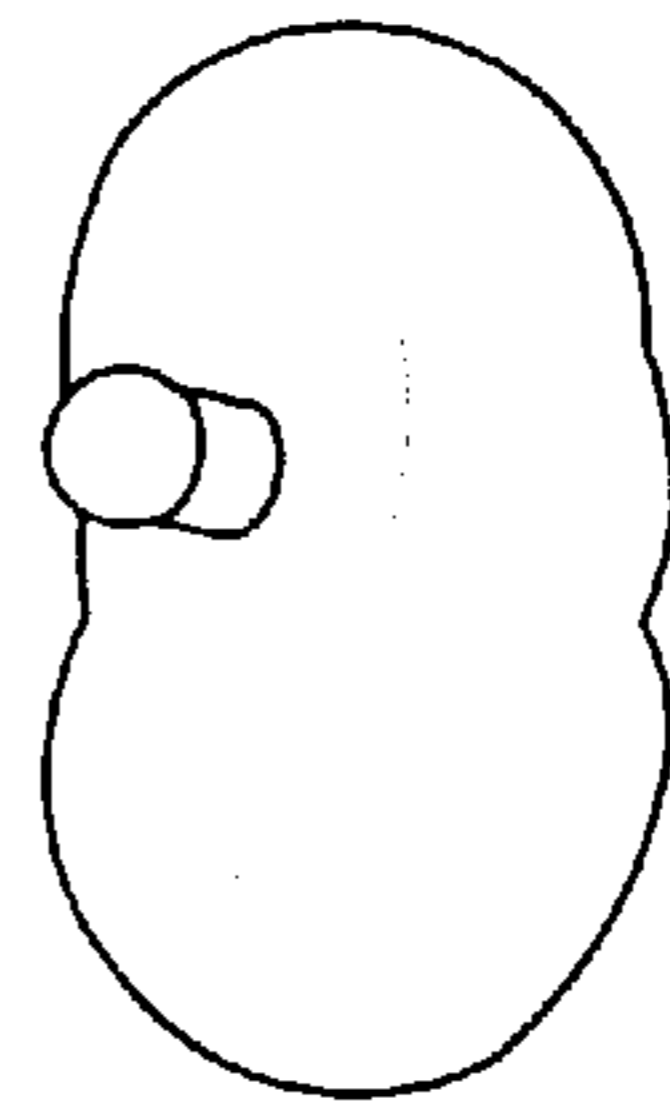


FIG. 49

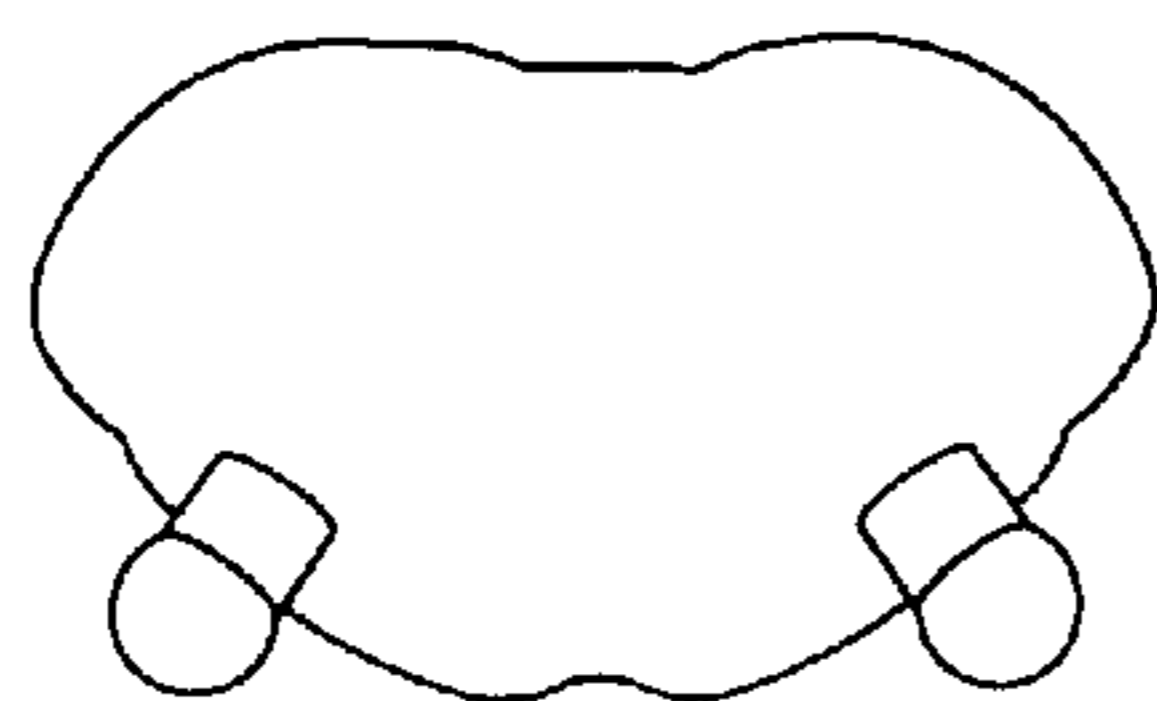


FIG. 50

