US00D415716S

United States Patent [19]

Watanabe

[11] **Patent Number: Des. 415,716**

[45] **Date of Patent: ** Oct. 26, 1999**

[54] **HOOK-AND-EYE FASTENER**

[75] Inventor: **Hirokazu Watanabe**, Kurobe, Japan

[73] Assignee: **YKK Corporation**, Tokyo, Japan

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

[21] Appl. No.: **29/092,798**

[22] Filed: **Aug. 27, 1998**

[30] **Foreign Application Priority Data**

Feb. 27, 1919 [JP] Japan 10-5416

[51] **LOC (6) Cl.** **02-07**

[52] **U.S. Cl.** **D11/211**

[58] **Field of Search** D11/200, 221; 24/381, 385, 415–417, 427–431; 70/456; 264/252

[56] **References Cited**

U.S. PATENT DOCUMENTS

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Primary Examiner—Ralf Seifert
Attorney, Agent, or Firm—Hill & Simpson

[57] **CLAIM**

The ornamental design for "hook-and-eye fastener", as shown.

DESCRIPTION

FIG. **1** is a front view of a female member proper of a female member of a hook-and-eye fastener.

FIG. **2** is a plan view of the female member proper of FIG. **1**.

FIG. **3** is a base view of the female member proper of FIG. **1**.

FIG. **4** is a cross-sectional view taken along the line **4—4** of FIG. **2**.

FIG. **5** is a left side view of the female member proper of FIG. **1**.

FIG. **6** is a right side view of the female member proper of FIG. **1**.

FIG. **7** is a front view of a seat plate of the female member of the hook-and-eye fastener.

FIG. **8** is a plan view of the seat plate of FIG. **7**.

FIG. **9** is a base view of the seat plate of FIG. **7**.

FIG. **10** is a right side view of the seat plate of FIG. **7**.

FIG. **11** is a cross-sectional view taken along the line **11—11** of FIG. **8**.

FIG. **12** is a front view of a male member proper of the hook-and-eye fastener.

FIG. **13** is a rear view of the male member proper of FIG. **12**.

FIG. **14** is a plan view of the male member proper of FIG. **12**.

FIG. **15** is a base view of the male member proper of FIG. **12**.

FIG. **16** is a right side view of the male member proper of FIG. **12**.

FIG. **17** is a cross-sectional view taken along the line **17—17** of FIG. **14**.

FIG. **18** is a front view of an attachment plate of the male member of the hook-and-eye fastener.

FIG. **19** is a plan view of the attachment plate of FIG. **18**.

FIG. **20** is a base view of the attachment plate of FIG. **18**.

FIG. **21** is a right side view of the attachment plate of FIG. **18**.

FIG. **22** is a cross-sectional view taken along the line **22—22** of FIG. **19**.

FIG. **23** is a front view of the female member of the hook-and-eye fastener.

FIG. **24** is a plan view of the female member of FIG. **23**.

FIG. **25** is a base view of the female member of FIG. **23**.

FIG. **26** is a cross-sectional view taken along the line **26—26** of FIG. **24**.

FIG. **27** is a left side view of the female member of FIG. **23**.

FIG. **28** is a right side view of the female member of FIG. **23**.

FIG. **29** is a front view of the male member of the hook-and-eye fastener.

FIG. **30** is a rear view of the male member of FIG. **29**.

FIG. **31** is a plan view of the male member of FIG. **29**.

FIG. **32** is a base view of the male member of FIG. **29**.

FIG. **33** is a right side view of the male member of FIG. **29**.

FIG. **34** is a cross-sectional view taken along the line **34—34** of FIG. **31**.

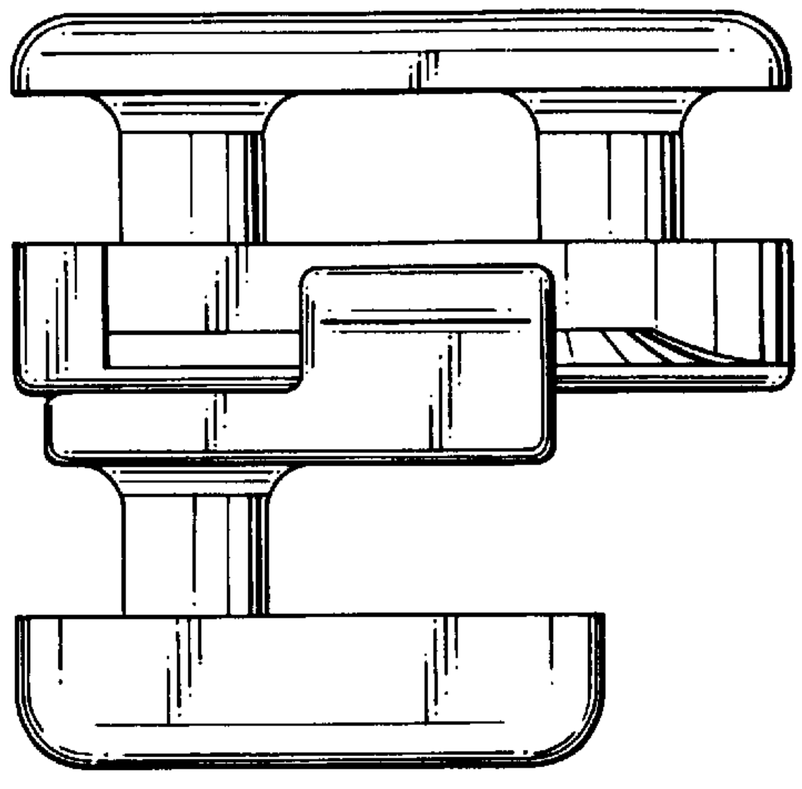


FIG. **35** is a front view of the hook-and-eye fastener in coupled disposition.
FIG. **36** is a plan view of the hook-and-eye fastener of FIG. **35**.
FIG. **37** is a base view of the hook-and-eye fastener of FIG. **35**.
FIG. **38** is a left side view of the hook-and-eye fastener of FIG. **35**.
FIG. **39** is a right side view of the hook-and-eye fastener of FIG. **35**; and,
FIG. **40** is an explanatory view showing the hook-and-eye fastener of FIG. **35** in use.

The broken line showing of fabric in FIG. **40,** is for illustrative purposes only and forms no part of the claimed design.

1 Claim, 12 Drawing Sheets

FIG.1

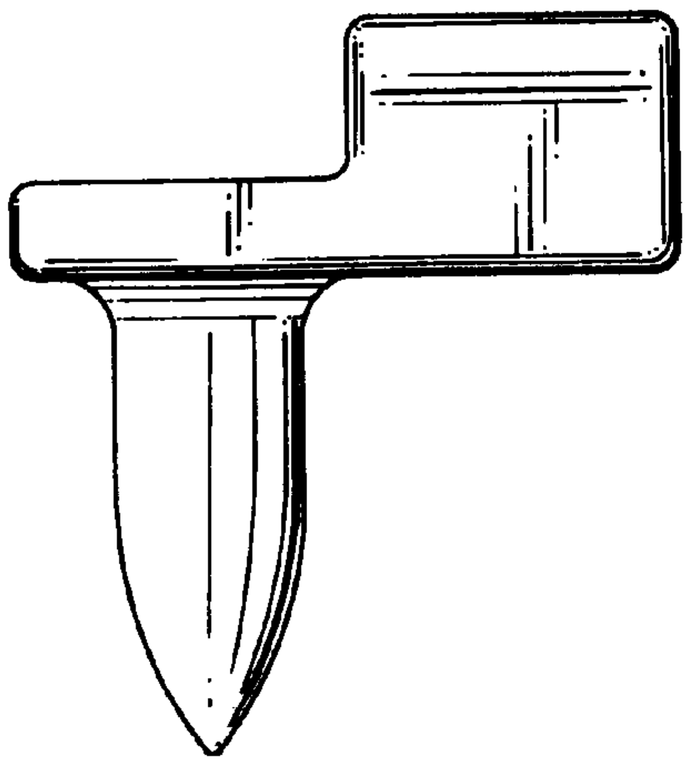


FIG.4

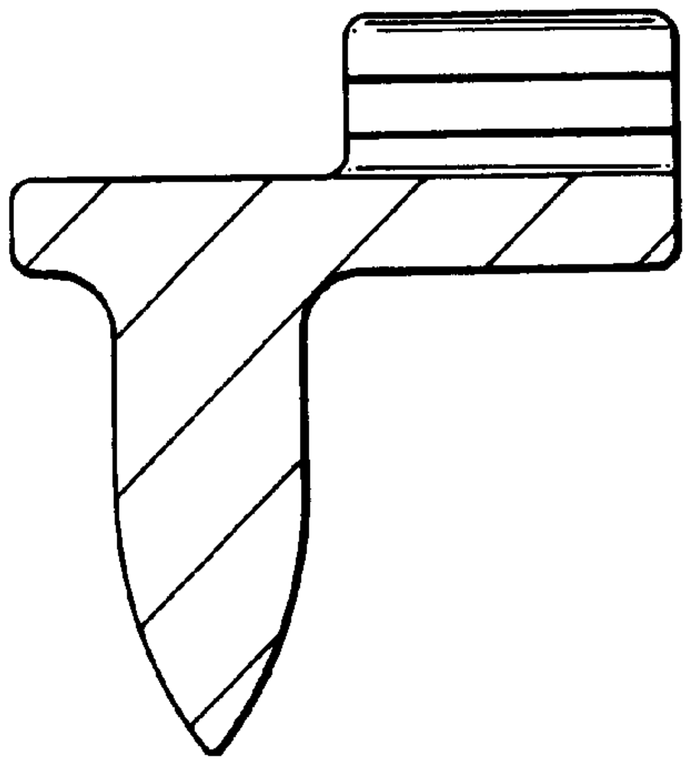


FIG.2

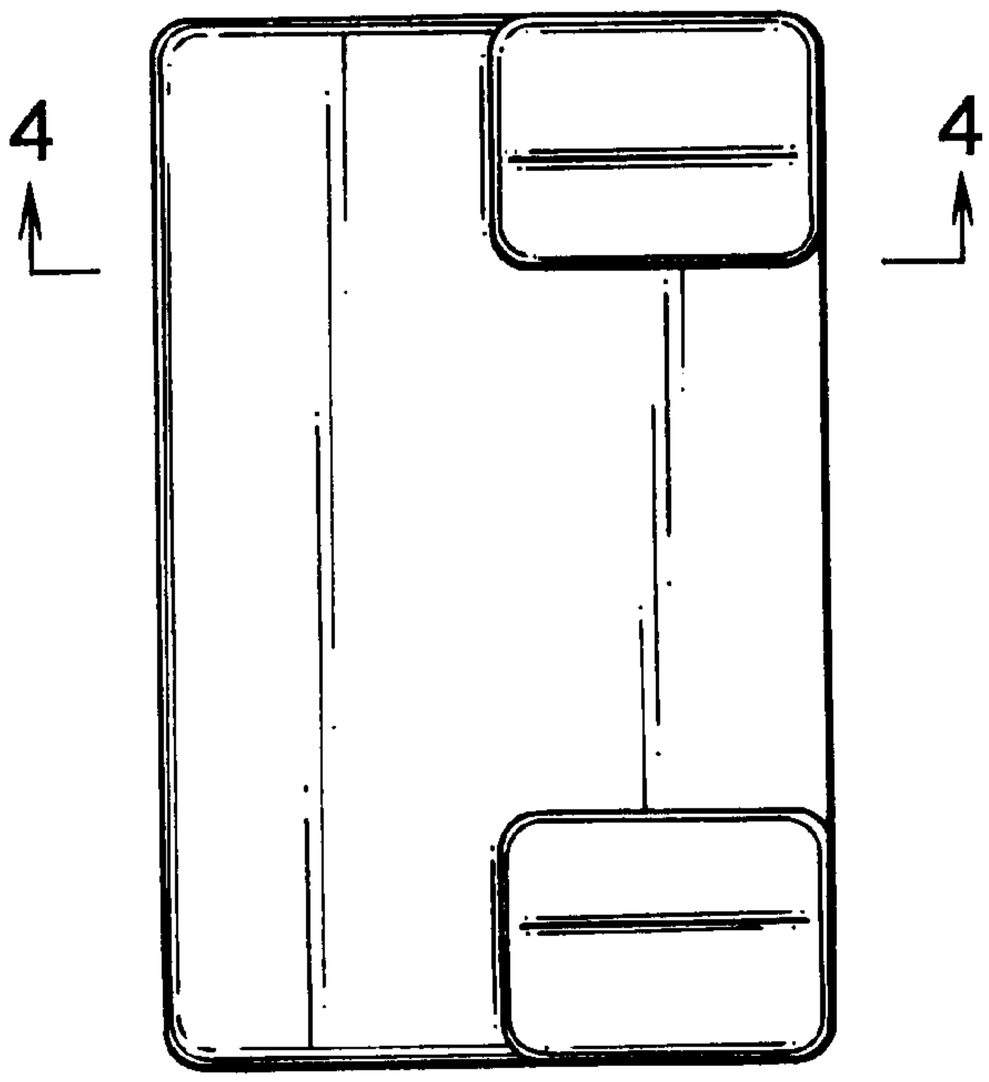


FIG.3

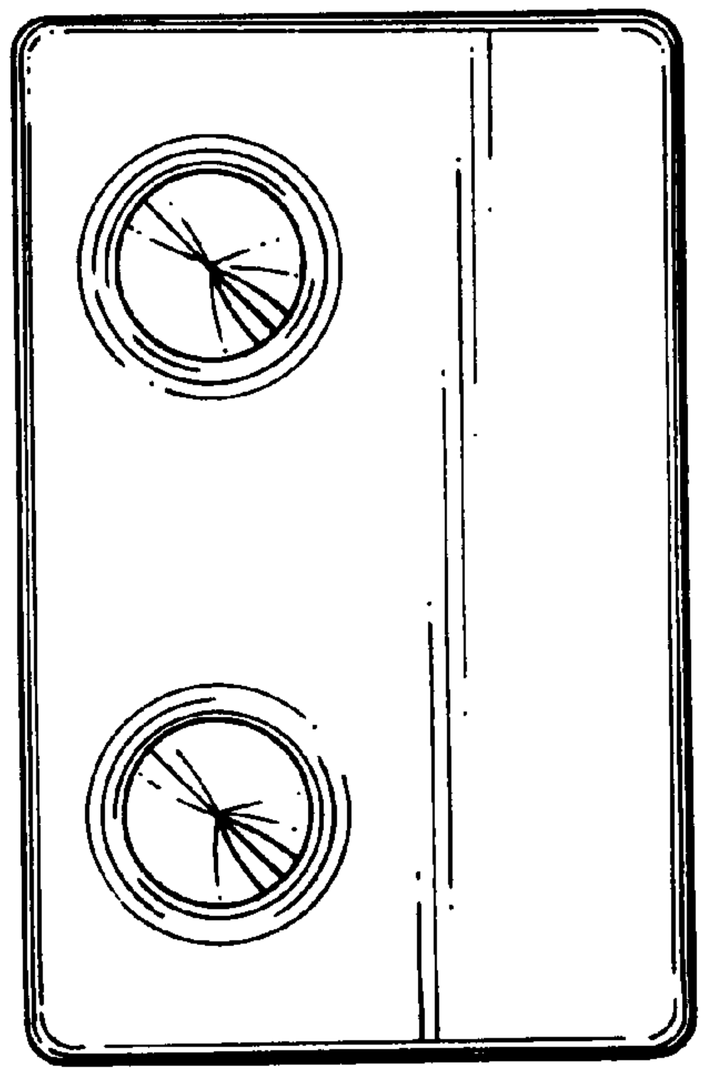


FIG.5

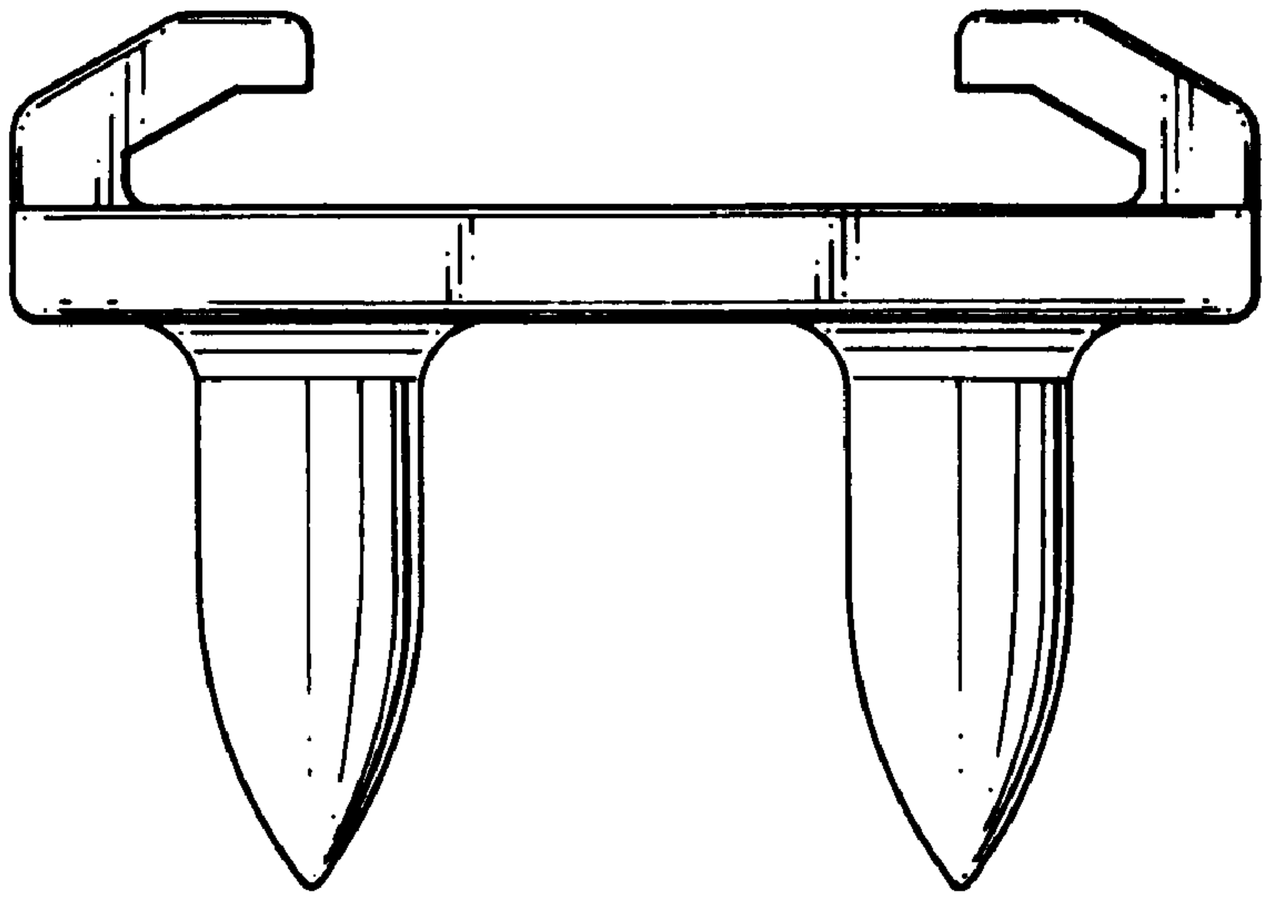


FIG.6

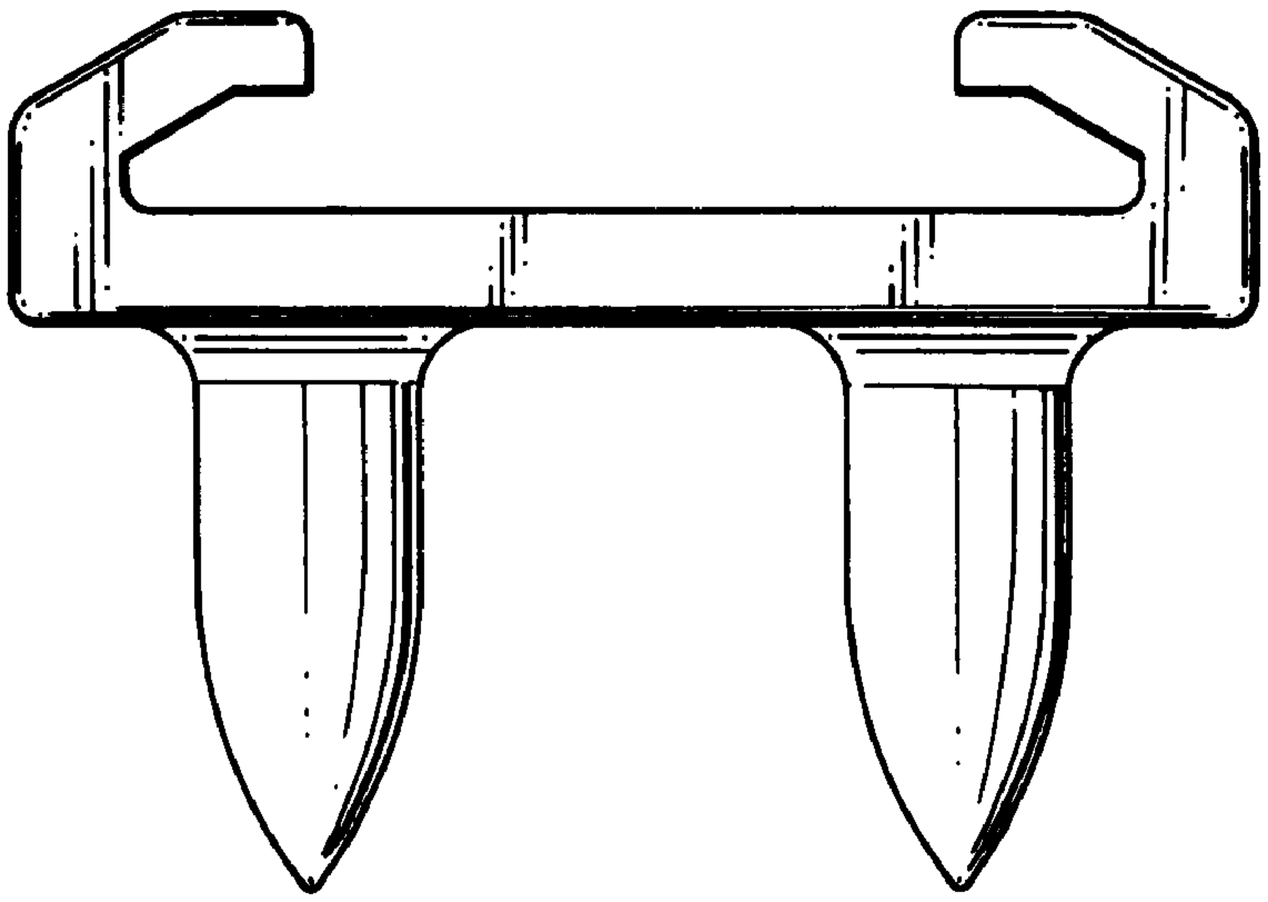


FIG.7

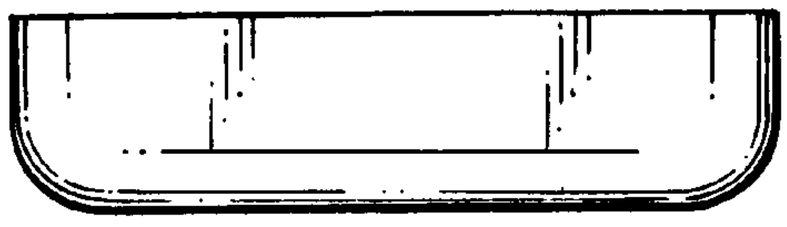


FIG.11

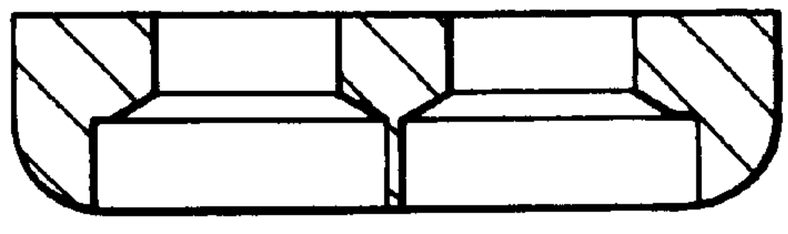


FIG.8

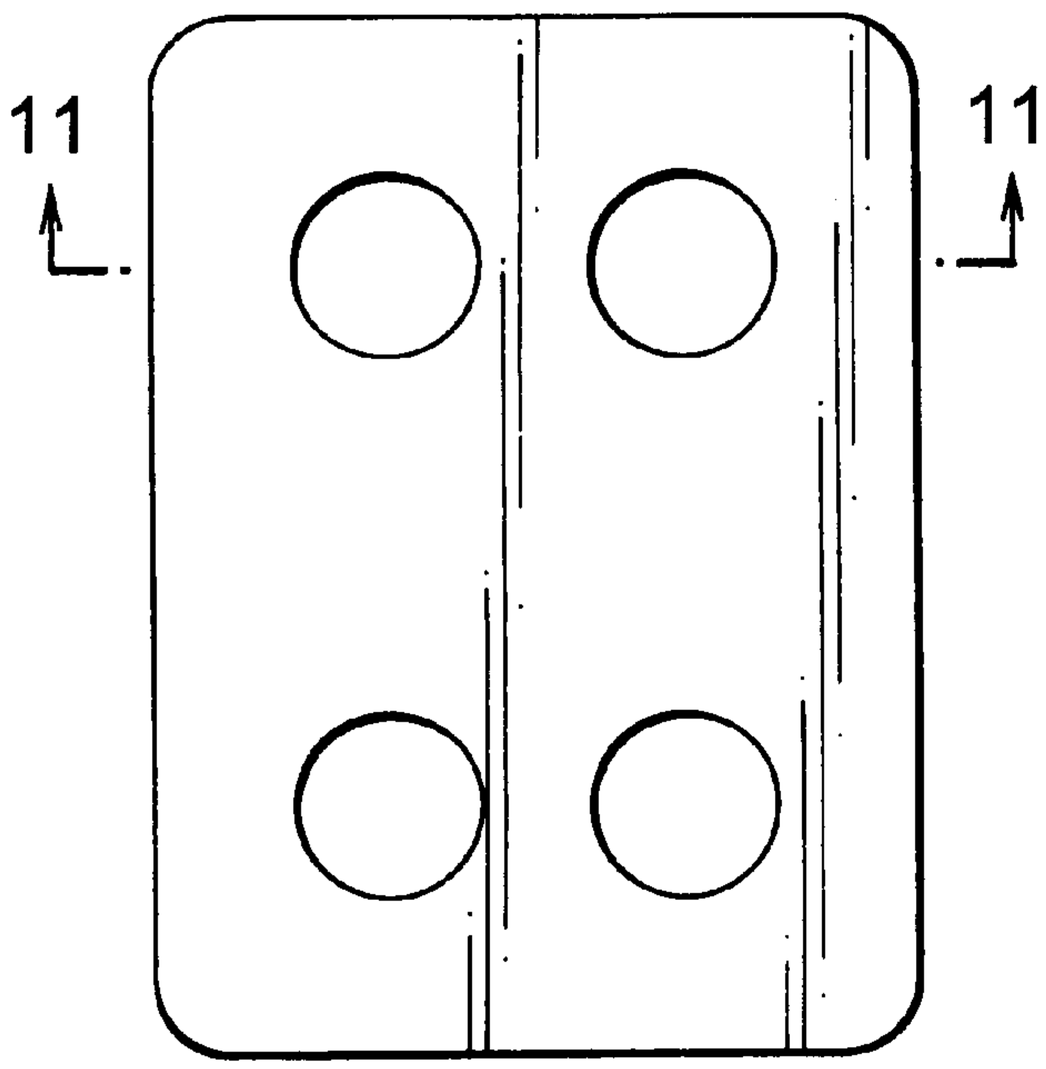


FIG.9

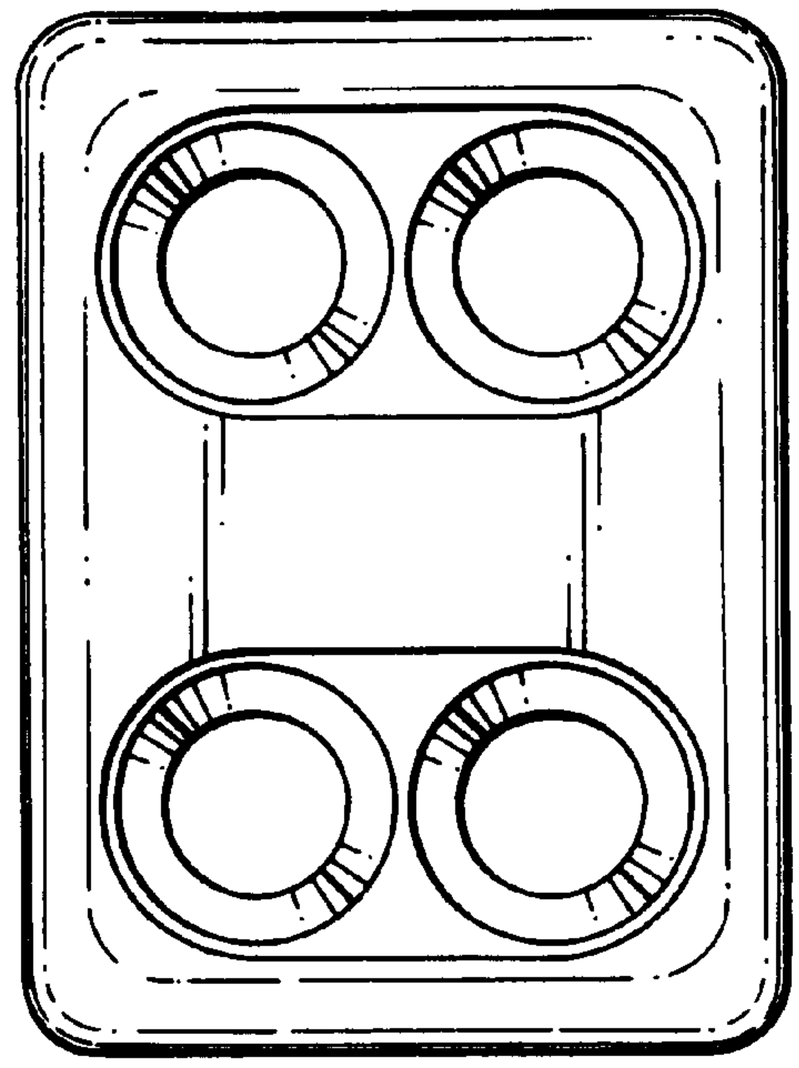


FIG.10

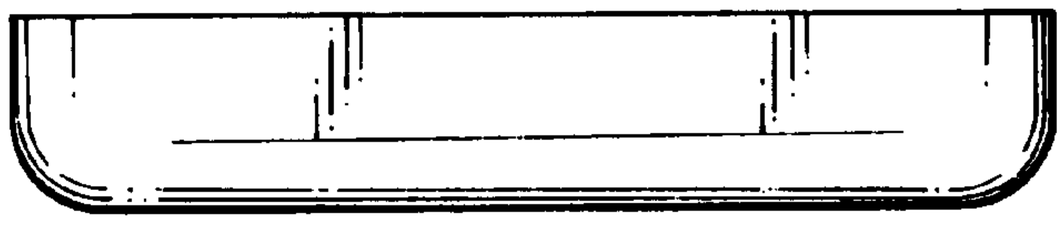


FIG.12

FIG.13

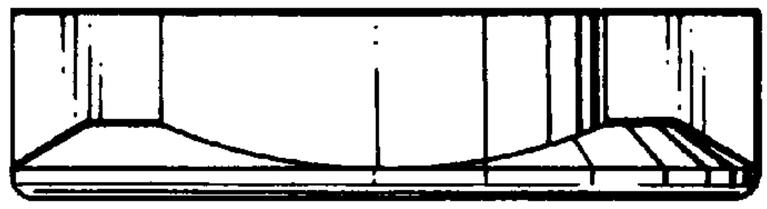


FIG.14

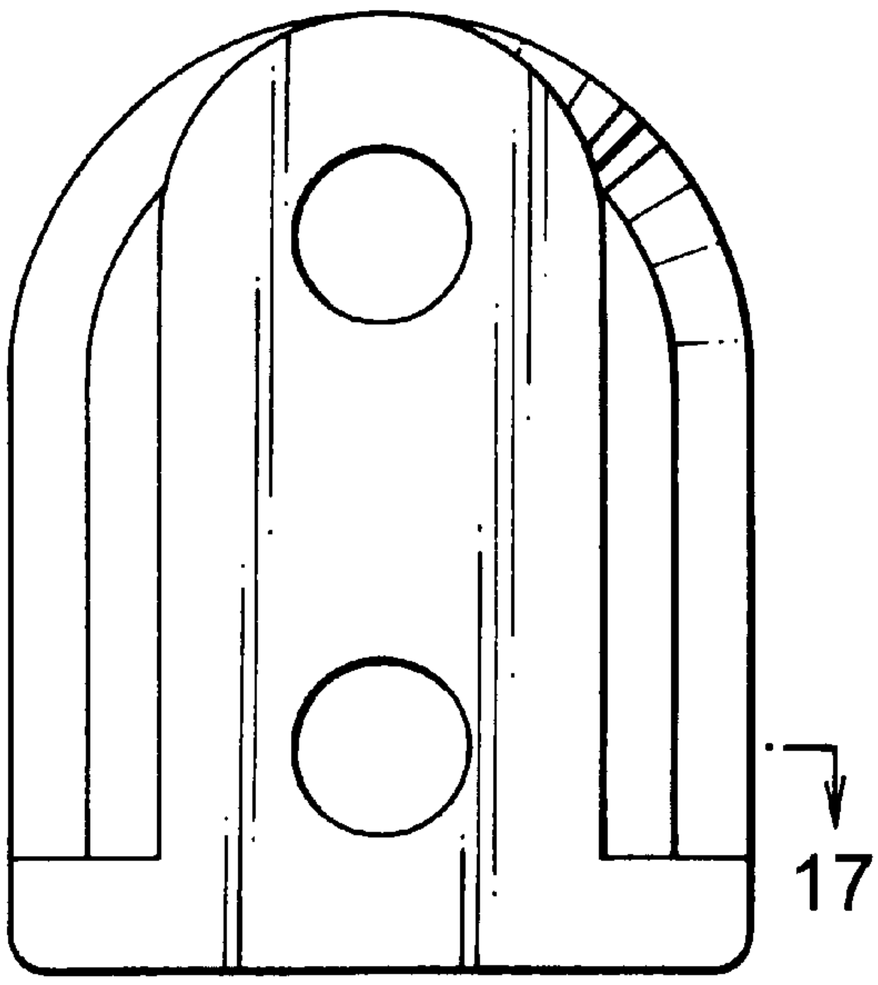


FIG.15

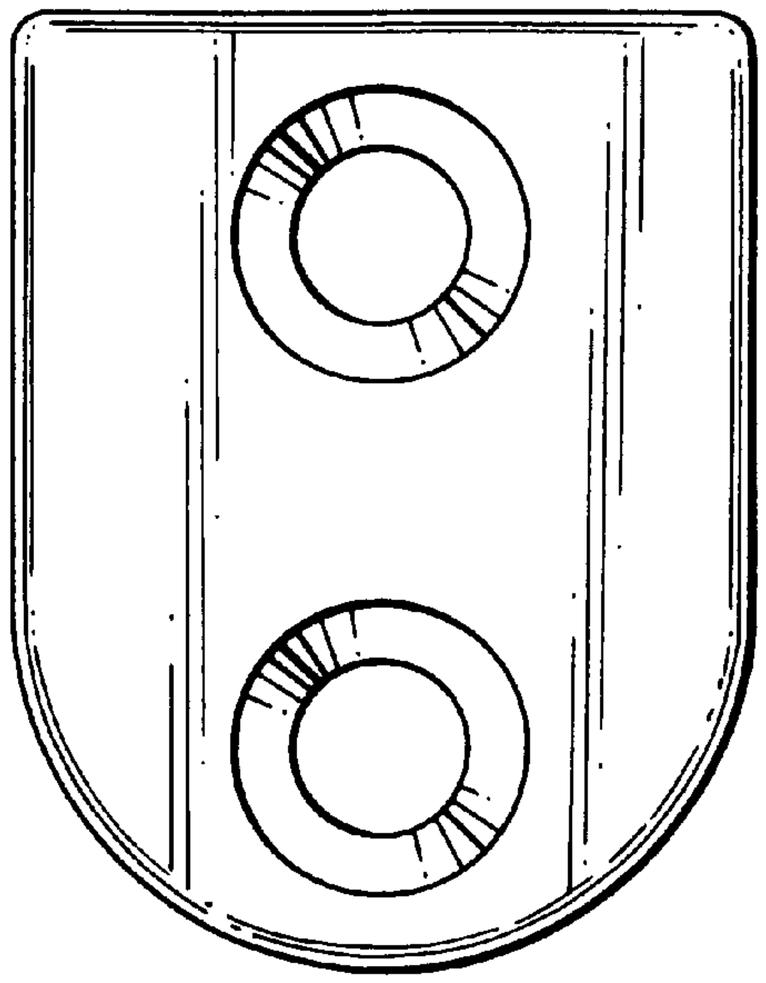


FIG.17

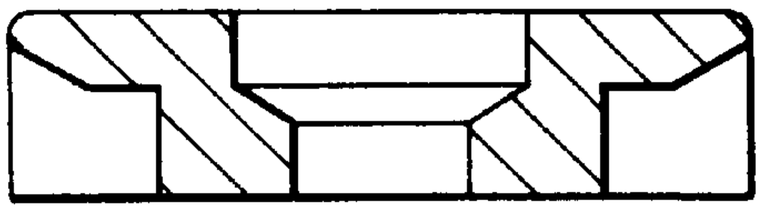


FIG.16

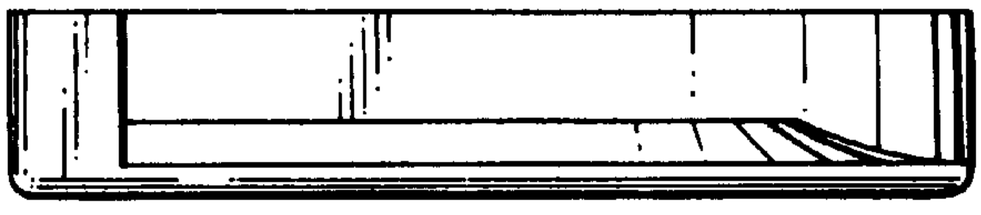


FIG.18

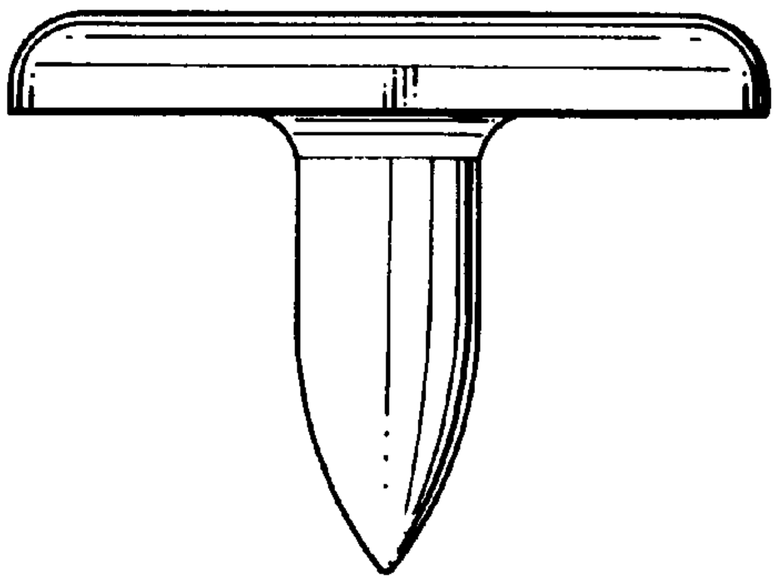


FIG.22

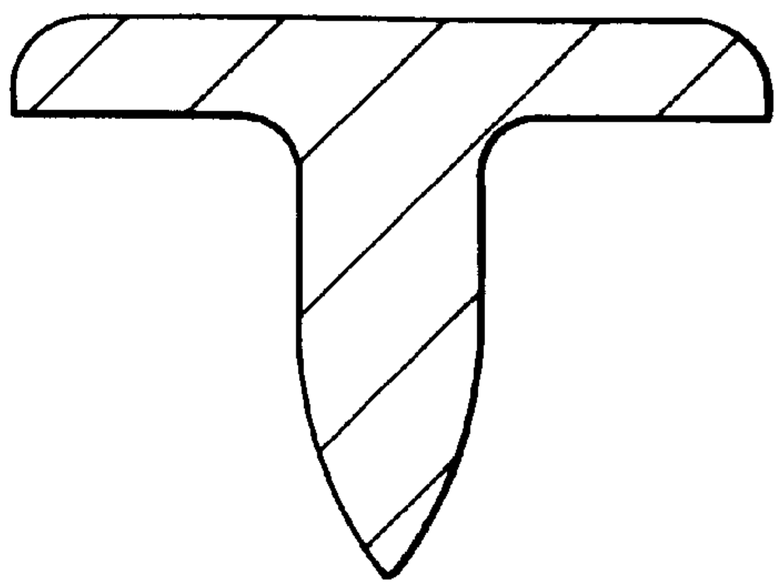


FIG.19

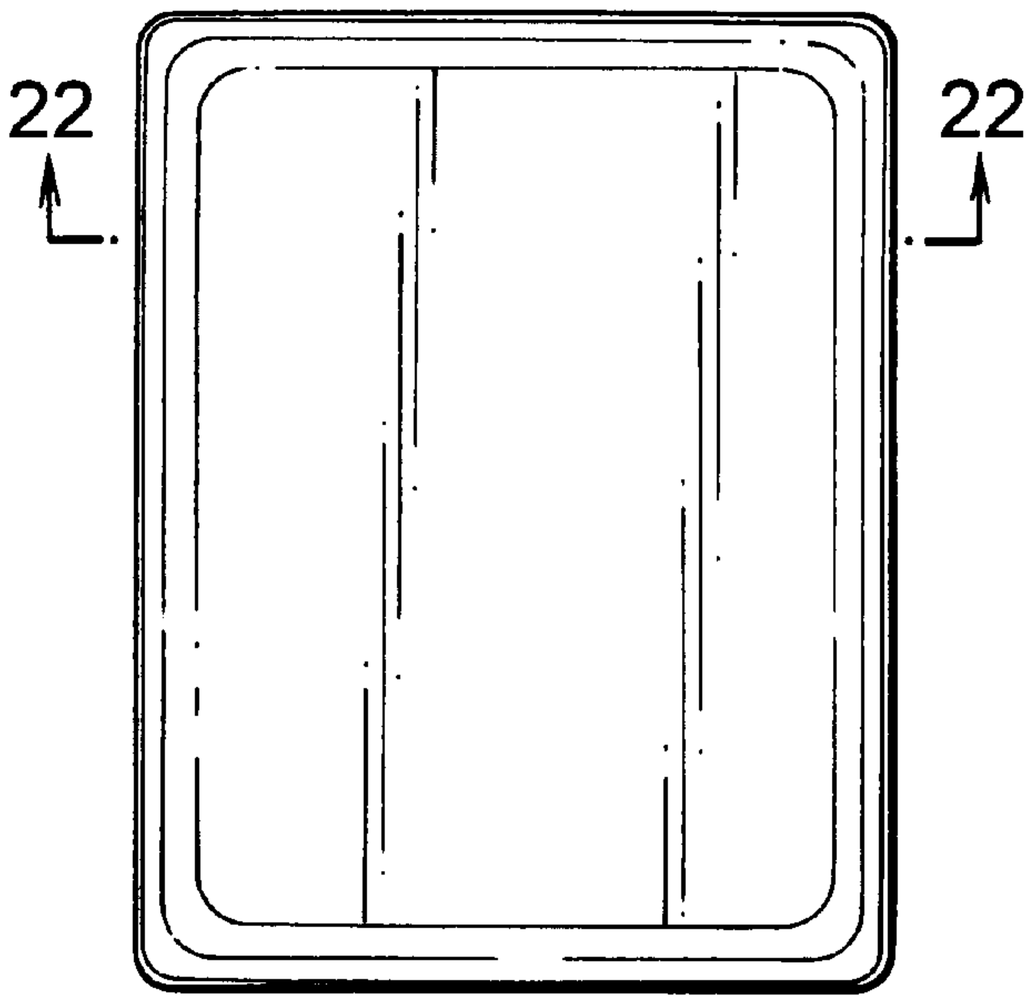


FIG.20

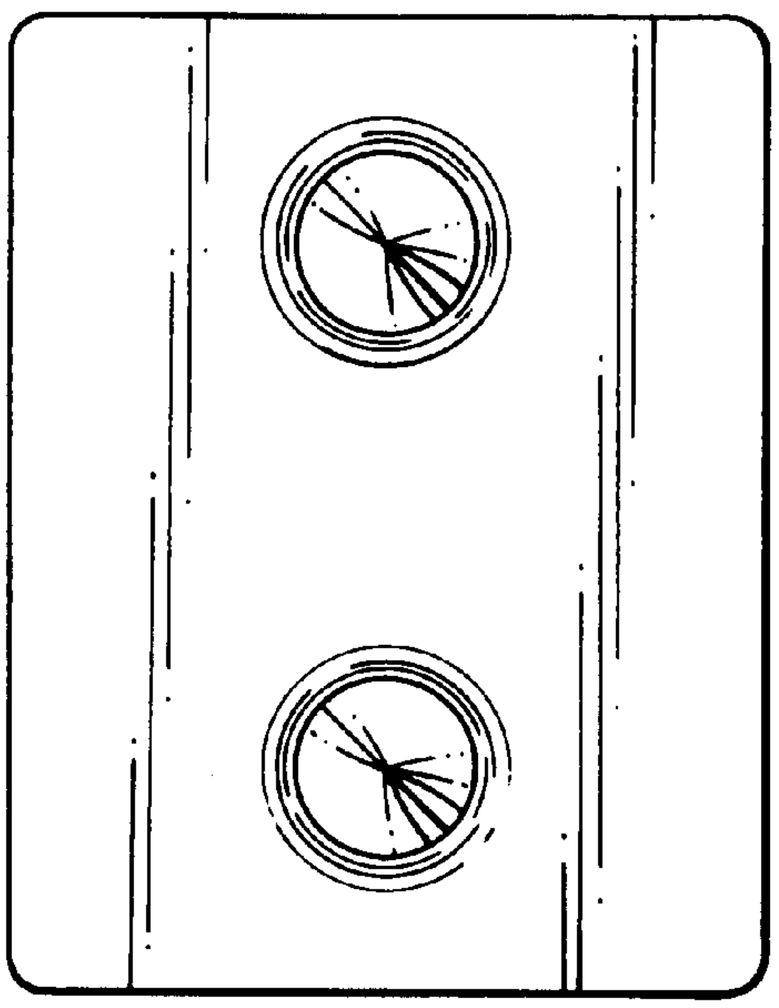


FIG.21

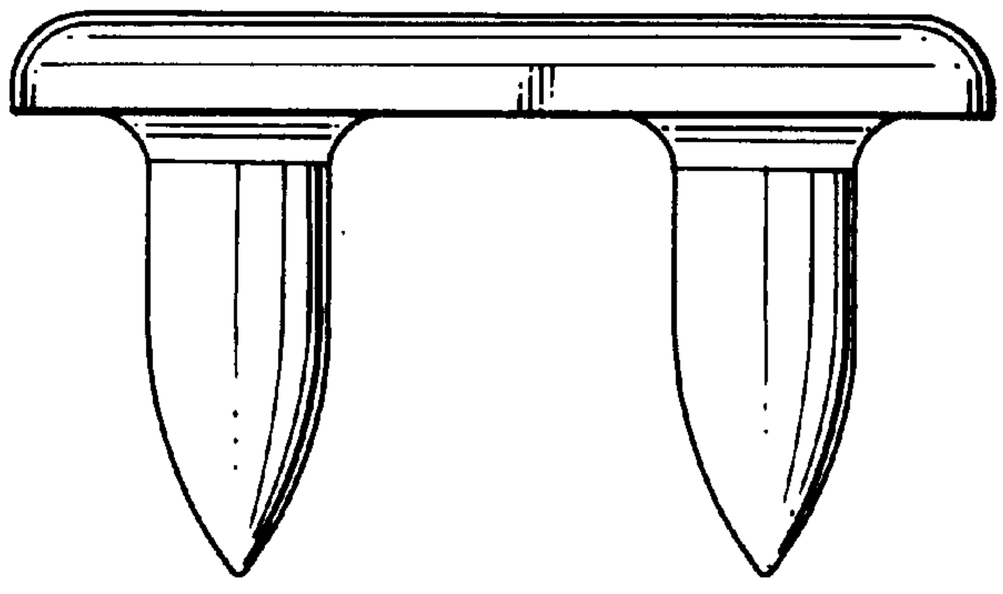


FIG.23

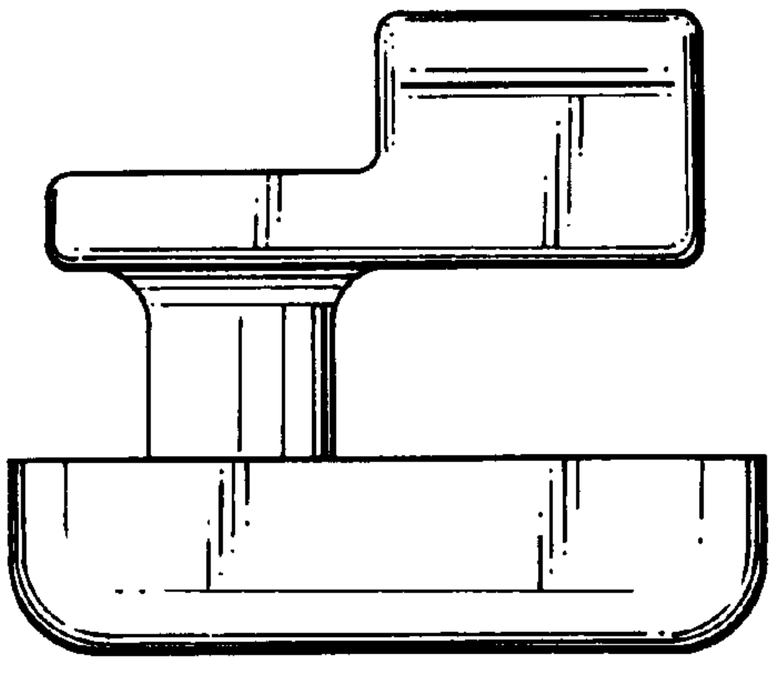


FIG.26

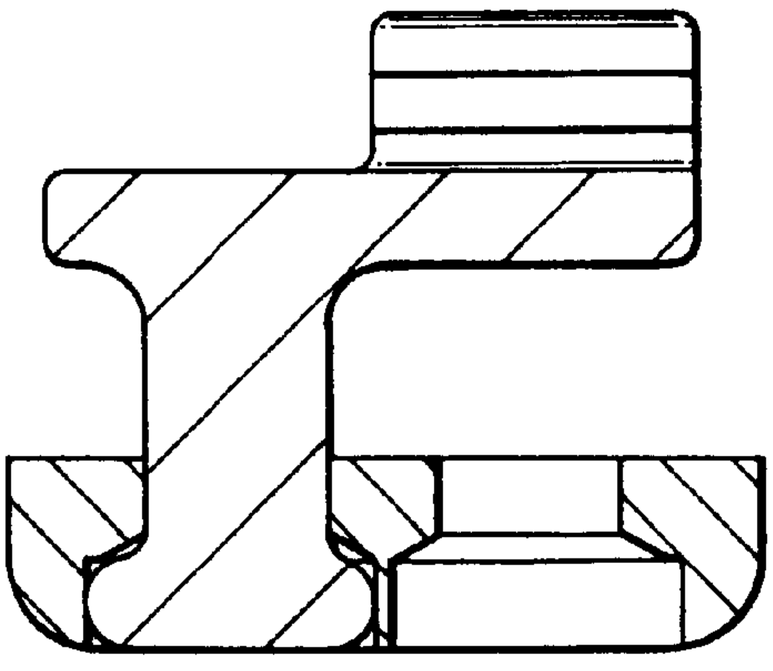


FIG.24

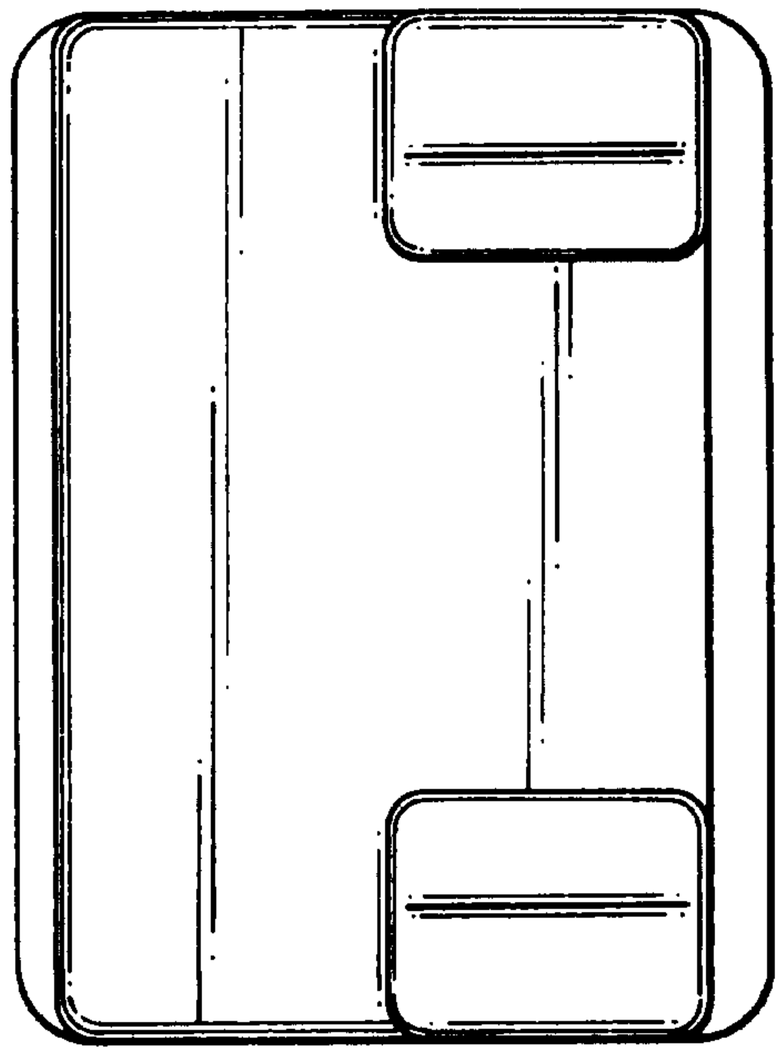


FIG.25

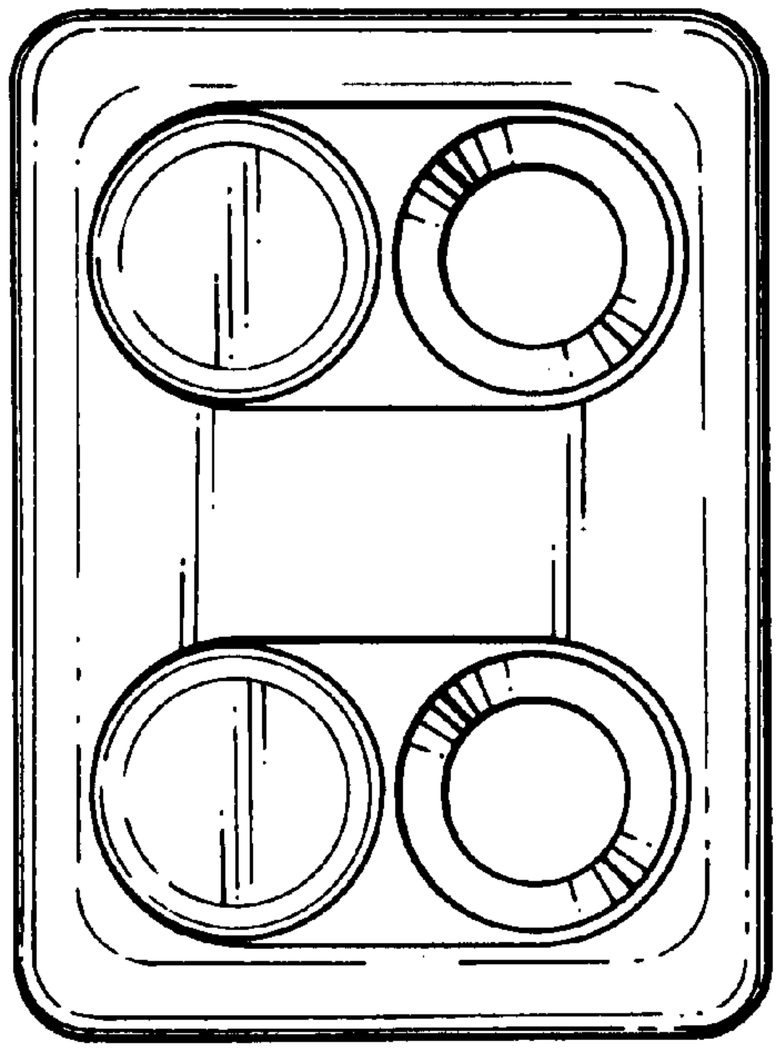


FIG.27

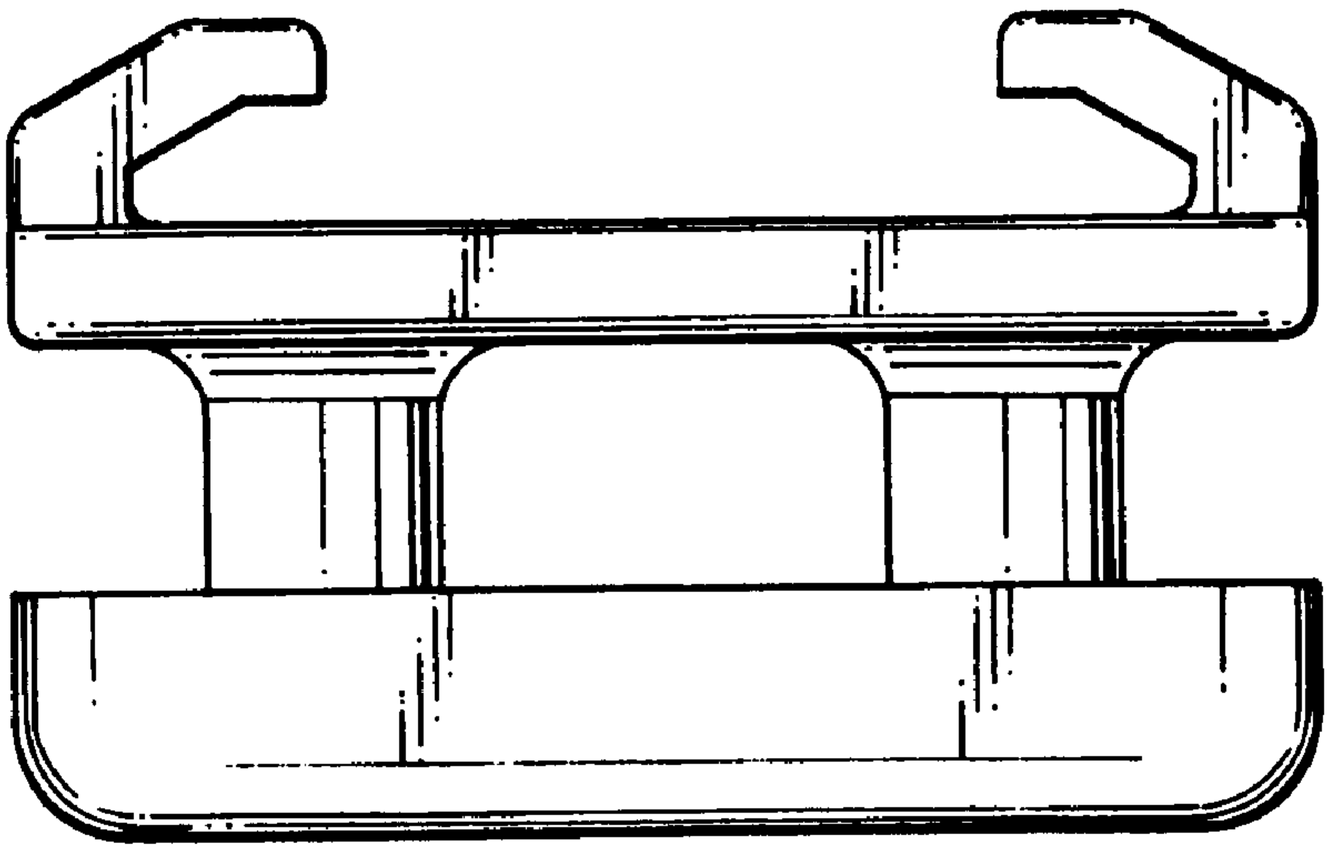


FIG.28

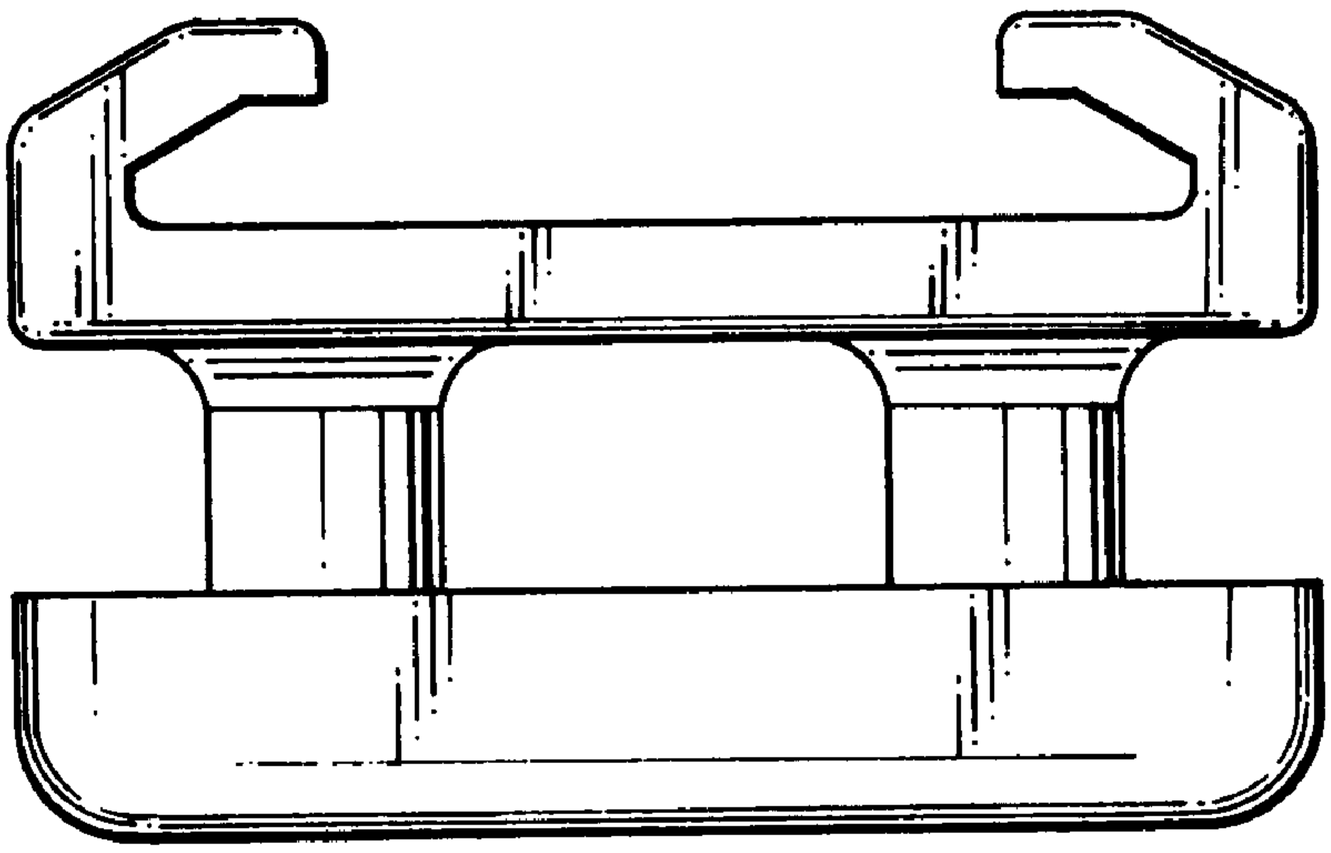


FIG.29

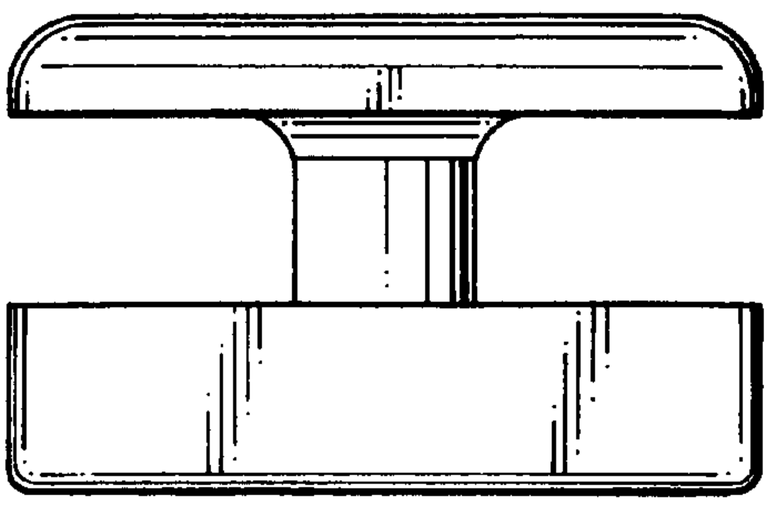


FIG.30

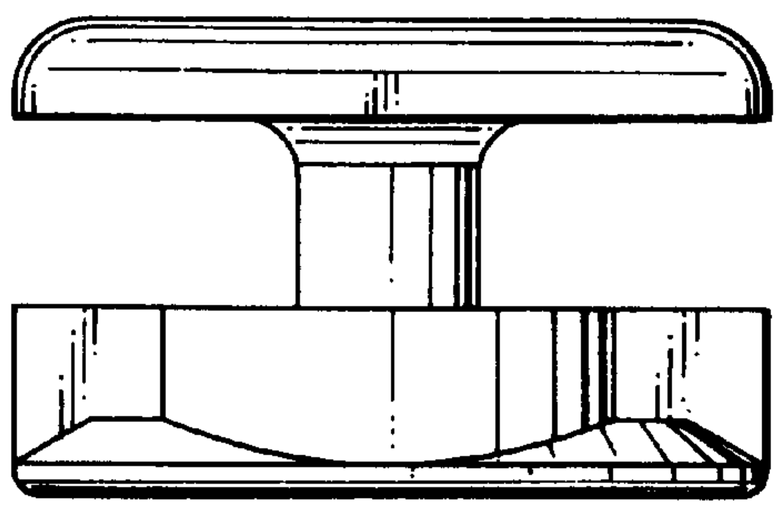


FIG.31

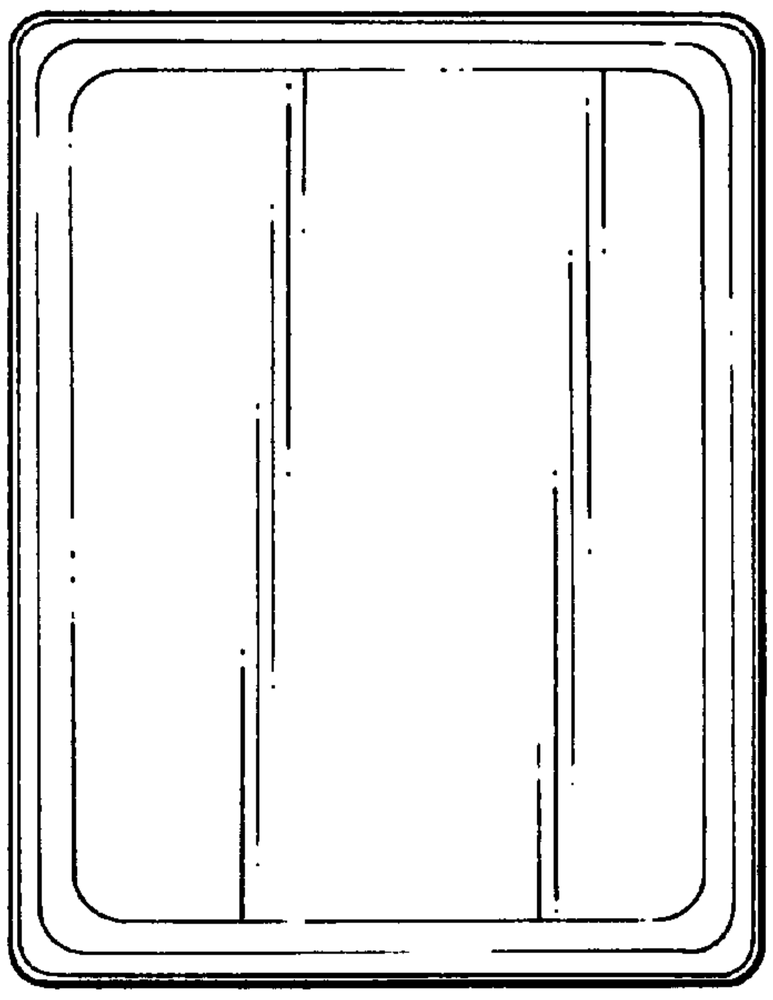


FIG.32

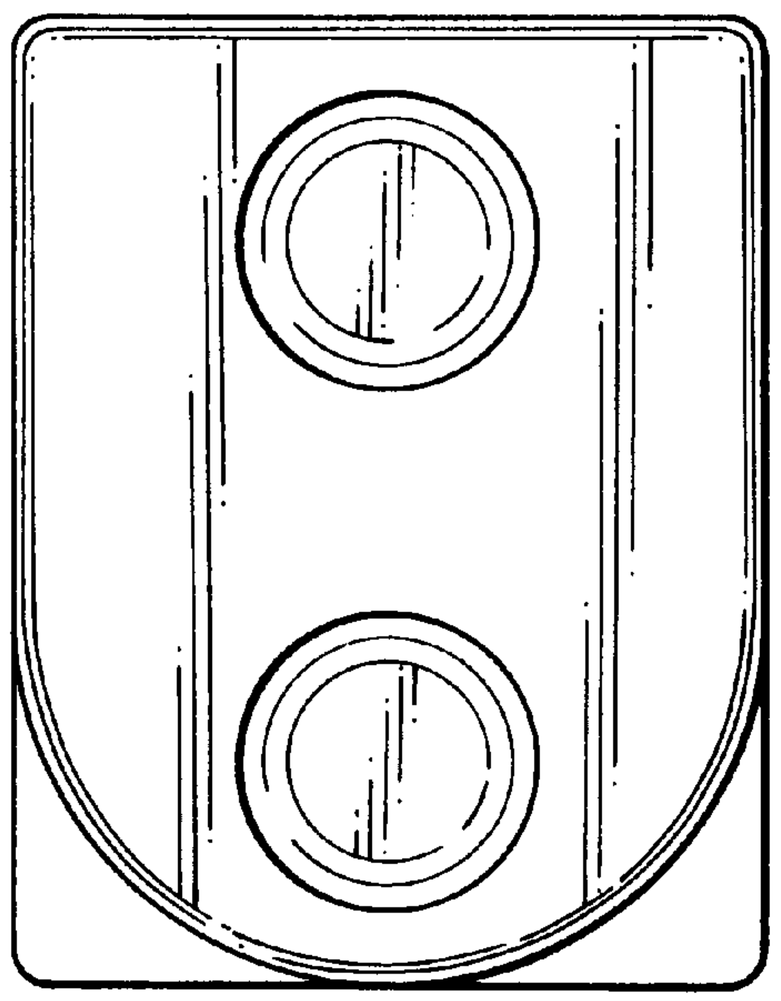


FIG.33

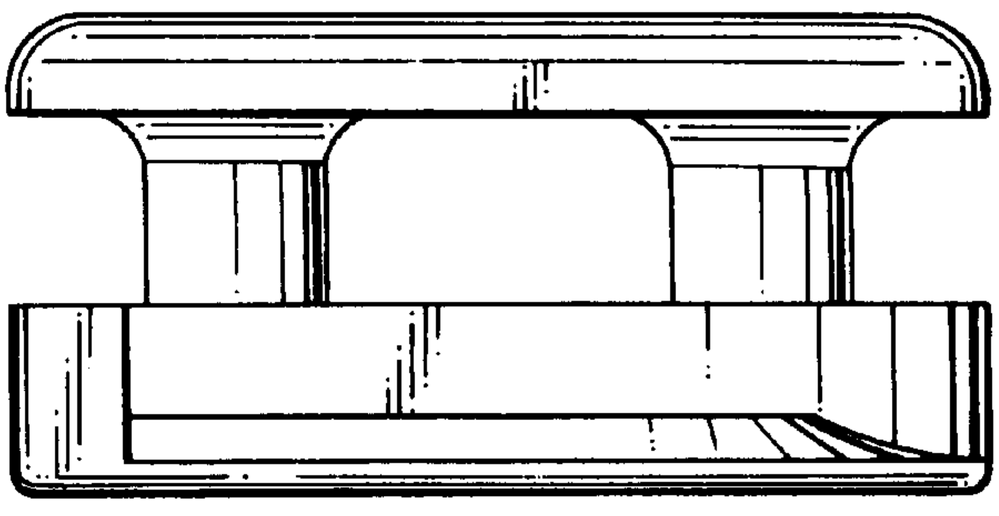


FIG.34

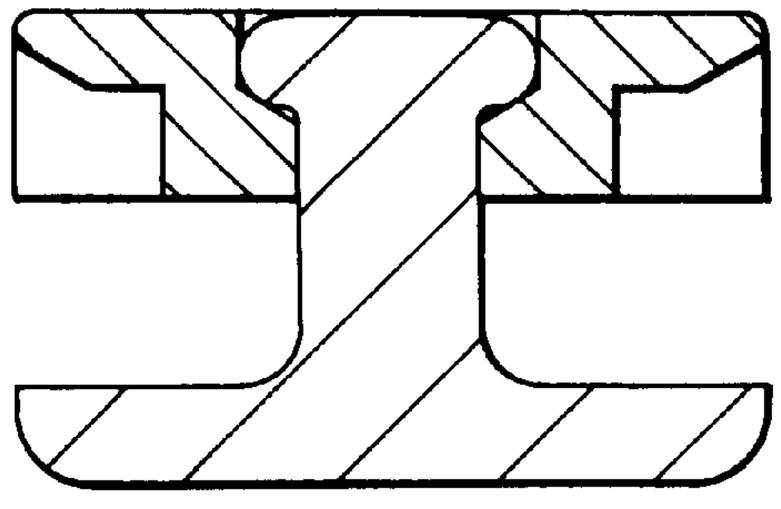
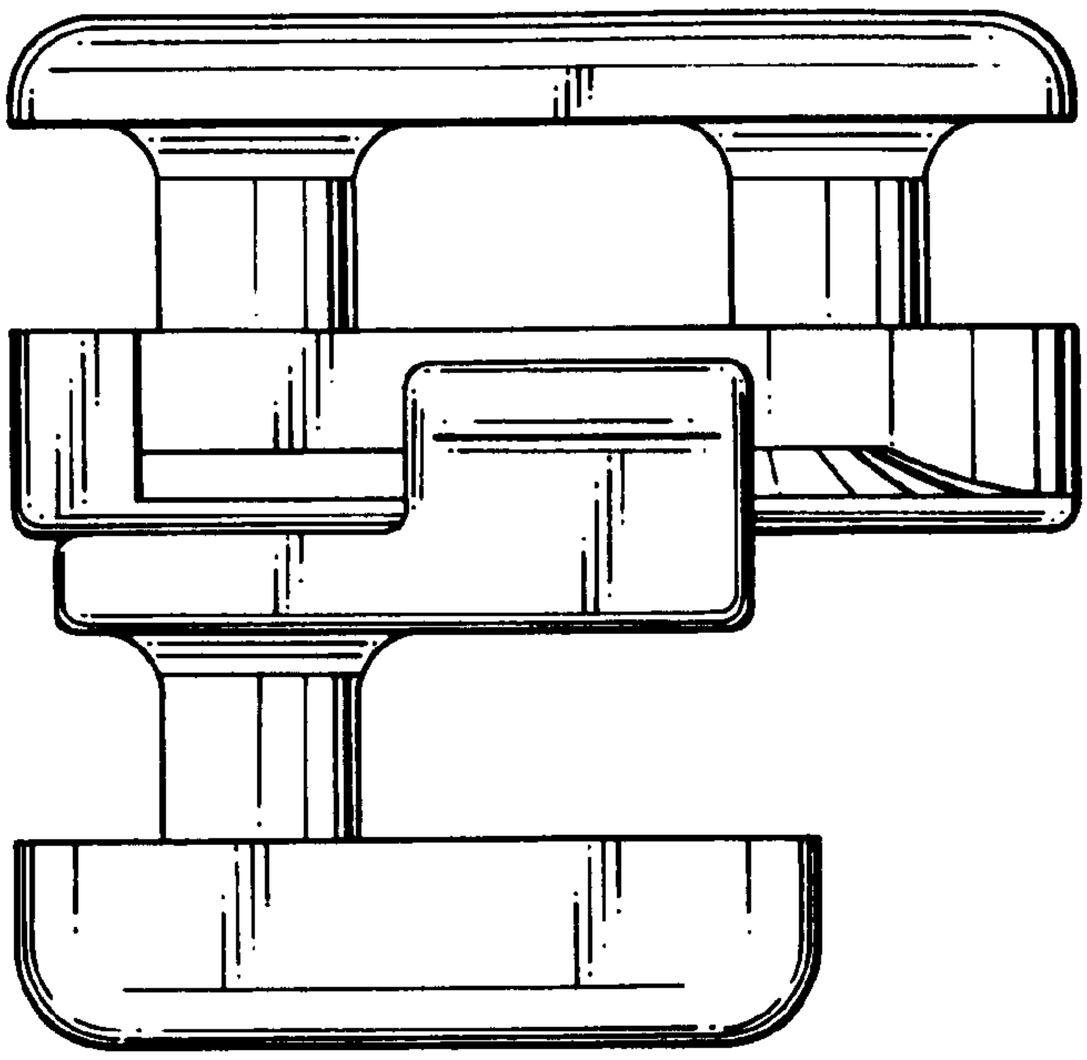


FIG.35



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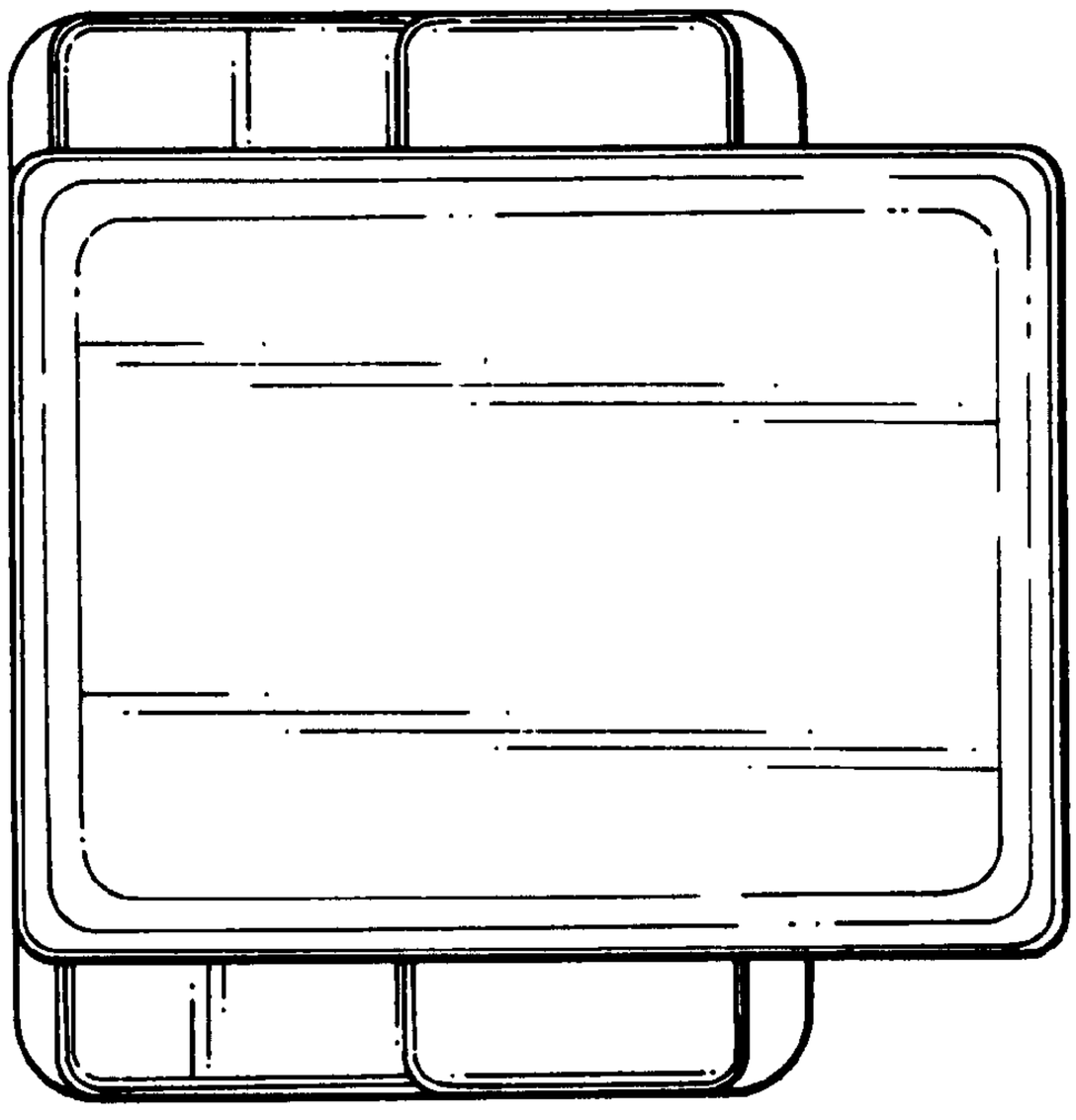

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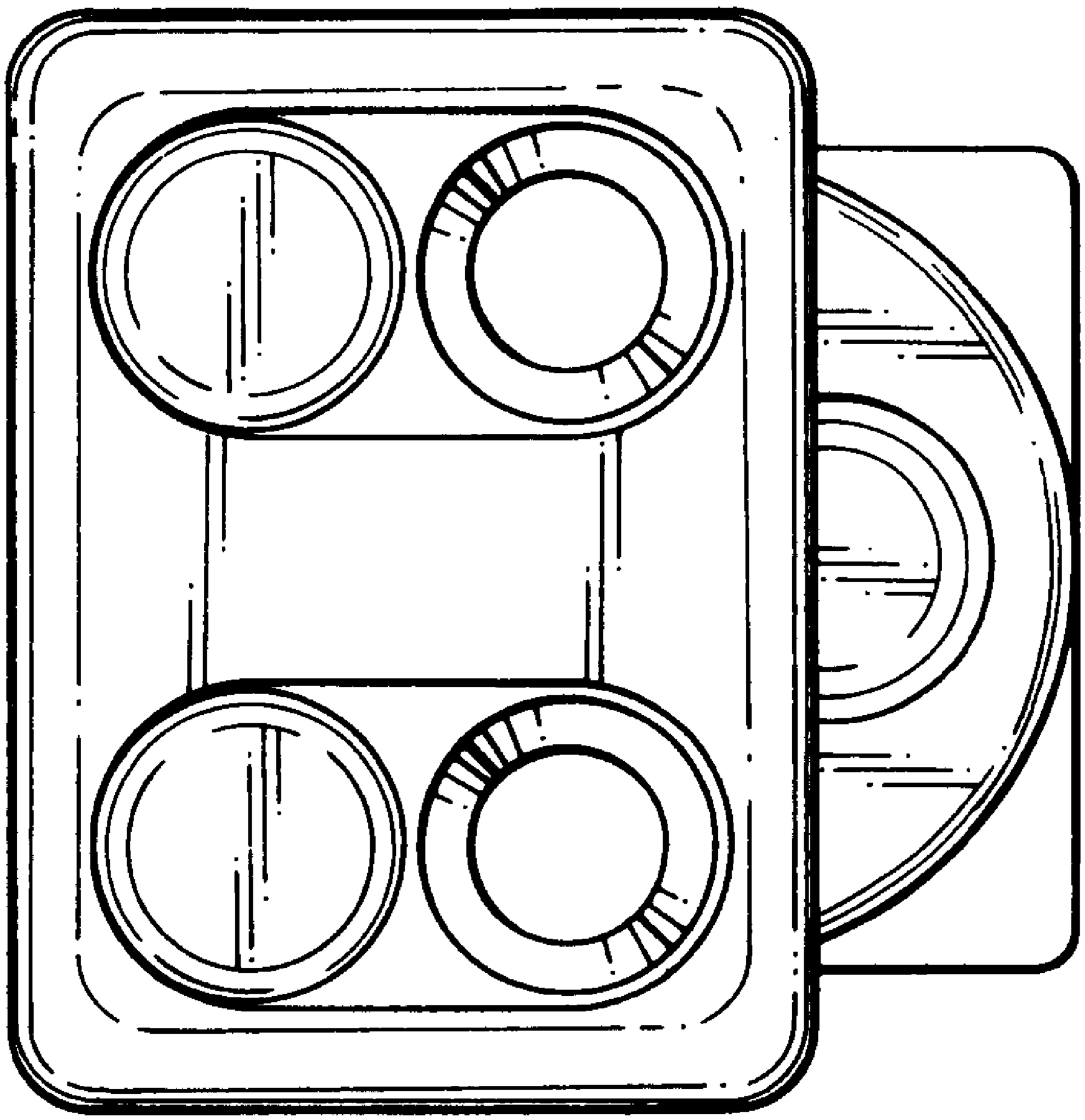

FIG.38

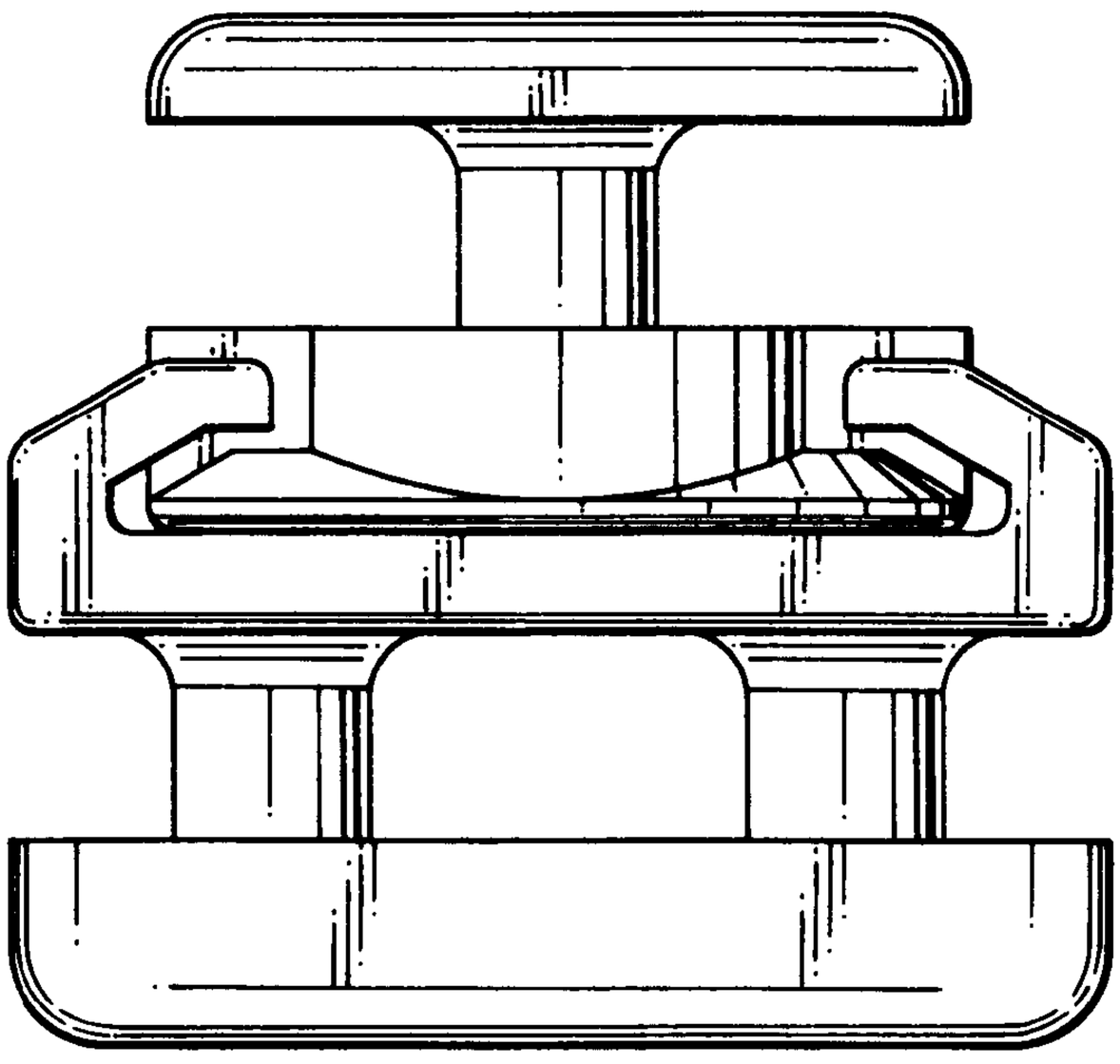

FIG.39

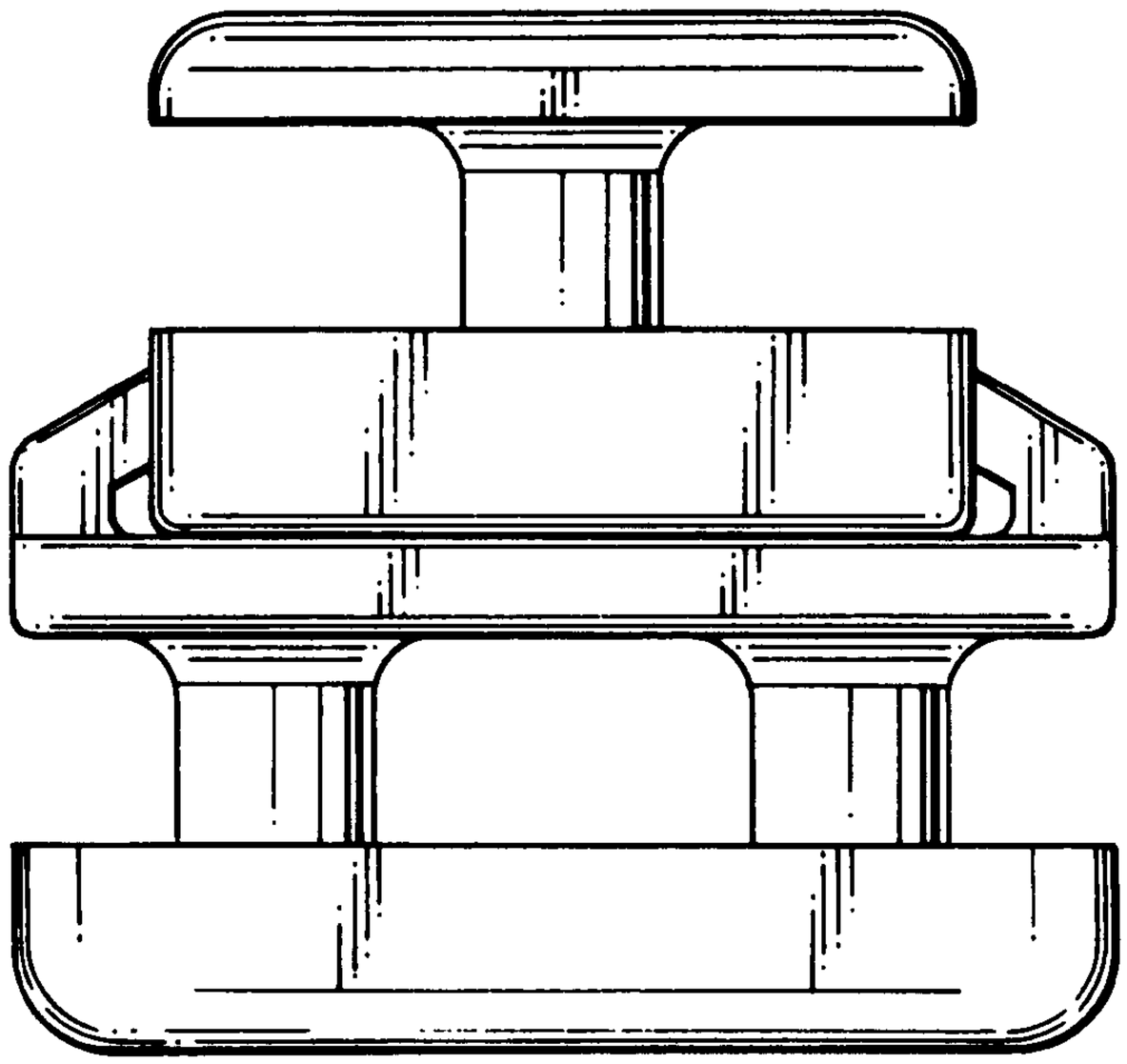

FIG.40