



US00D504950S

(12) **United States Design Patent**  
**Lai et al.**

(10) **Patent No.:** **US D504,950 S**  
(45) **Date of Patent:** **\*\* May 10, 2005**

- (54) **ORTHODONTIC APPLIANCE**
- (75) Inventors: **Ming-Lai Lai**, Arcadia, CA (US);  
**Jirina V. Pospisil**, Hacienda Heights,  
CA (US); **Russell A. Jordan**, Rancho  
Cucamonga, CA (US)
- (73) Assignee: **3M Innovative Properties Company**,  
St. Paul, MN (US)
- (\*\*) Term: **14 Years**
- (21) Appl. No.: **29/198,721**
- (22) Filed: **Feb. 3, 2004**
- (51) **LOC (7) Cl.** ..... **24-99**
- (52) **U.S. Cl.** ..... **D24/180**
- (58) **Field of Search** ..... D24/152, 153,  
D24/154, 155, 156, 180, 182, 140, 141;  
433/8, 9, 10, 13, 16

- 5,269,681 A 12/1993 Degnan
- 5,358,402 A 10/1994 Reed et al.
- 5,366,372 A 11/1994 Hansen et al.
- 5,380,196 A 1/1995 Kelly et al.
- D358,649 S \* 5/1995 Moschik ..... D24/180
- 5,439,379 A 8/1995 Hansen
- 6,648,638 B2 11/2003 Castro et al.
- 6,709,268 B2 3/2004 Pospisil
- 2003/0113683 A1 6/2003 Puttler et al.

\* cited by examiner

*Primary Examiner*—Charles A. Rademaker

(74) *Attorney, Agent, or Firm*—James D. Christoff

(57) **CLAIM**

The ornamental design for an orthodontic appliance, as shown and described.

**DESCRIPTION**

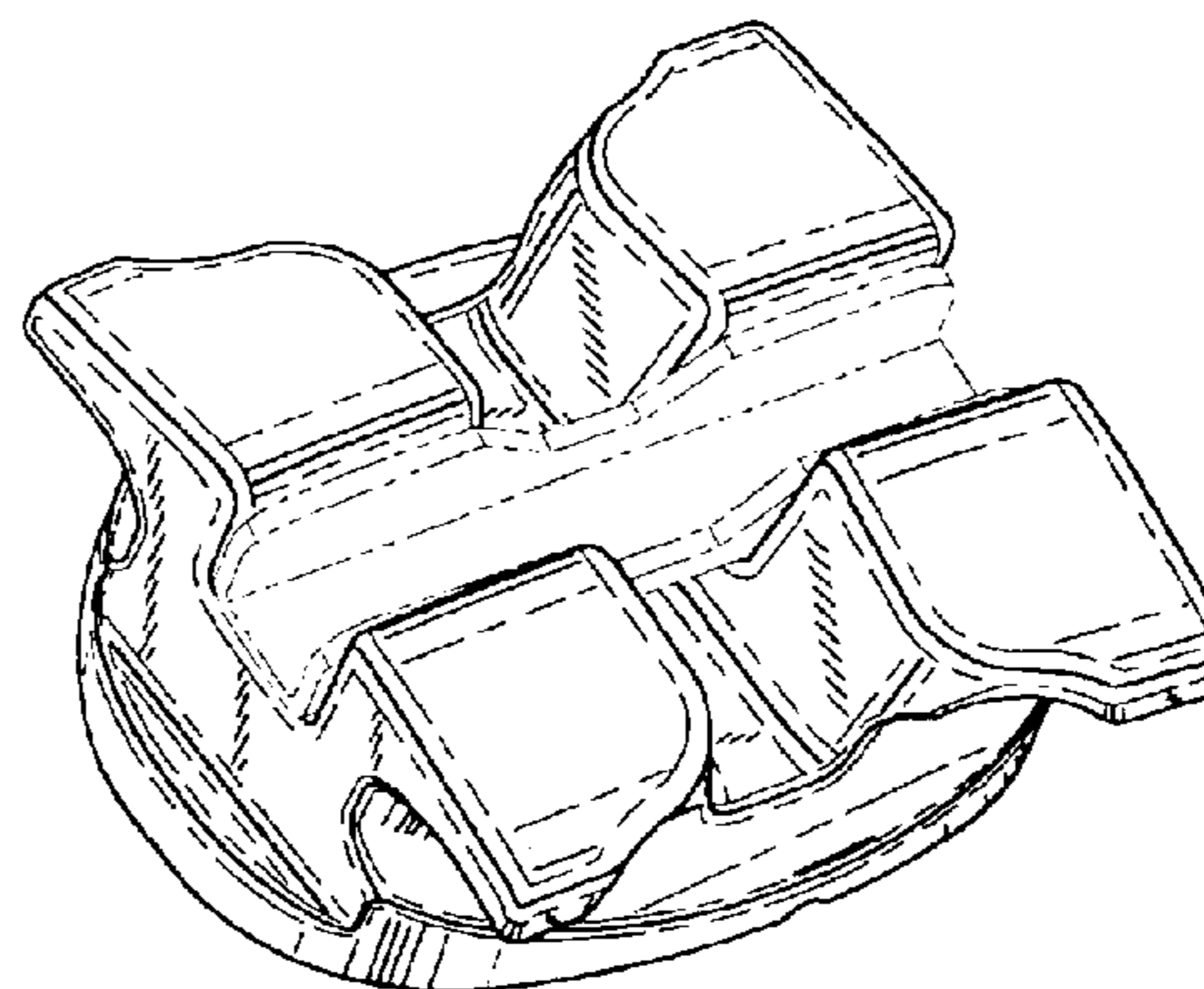
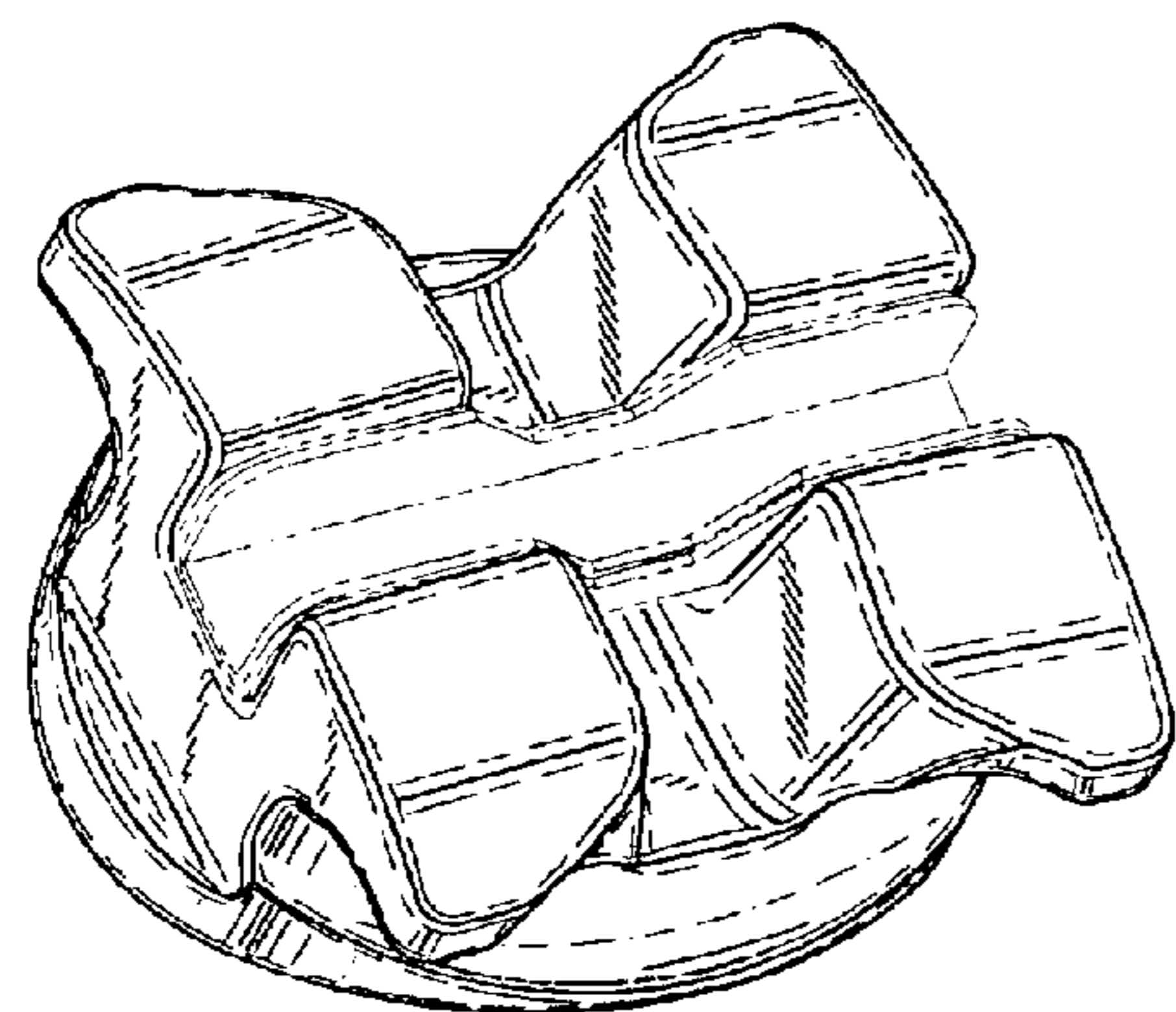
FIG. 1 is a bottom, front, left side perspective view of an orthodontic appliance showing our new design; FIG. 2 is a top, rear, left side perspective view thereof; FIG. 3 is a left side elevational view thereof; FIG. 4 is a right side elevational view thereof; FIG. 5 is a top plan view thereof; FIG. 6 is a bottom view thereof; FIG. 7 is a front elevational view thereof; FIG. 8 is a rear elevational view thereof; FIG. 9 is a bottom, front, left side perspective view of an orthodontic appliance illustrating another embodiment of our new design; FIG. 10 is a top, rear, left side perspective view thereof; FIG. 11 is a left side elevational view thereof; FIG. 12 is a right side elevational view thereof; FIG. 13 is a top plan view thereof; FIG. 14 is a bottom view thereof; FIG. 15 is a front elevational view thereof; and, FIG. 16 is a rear elevational view thereof.

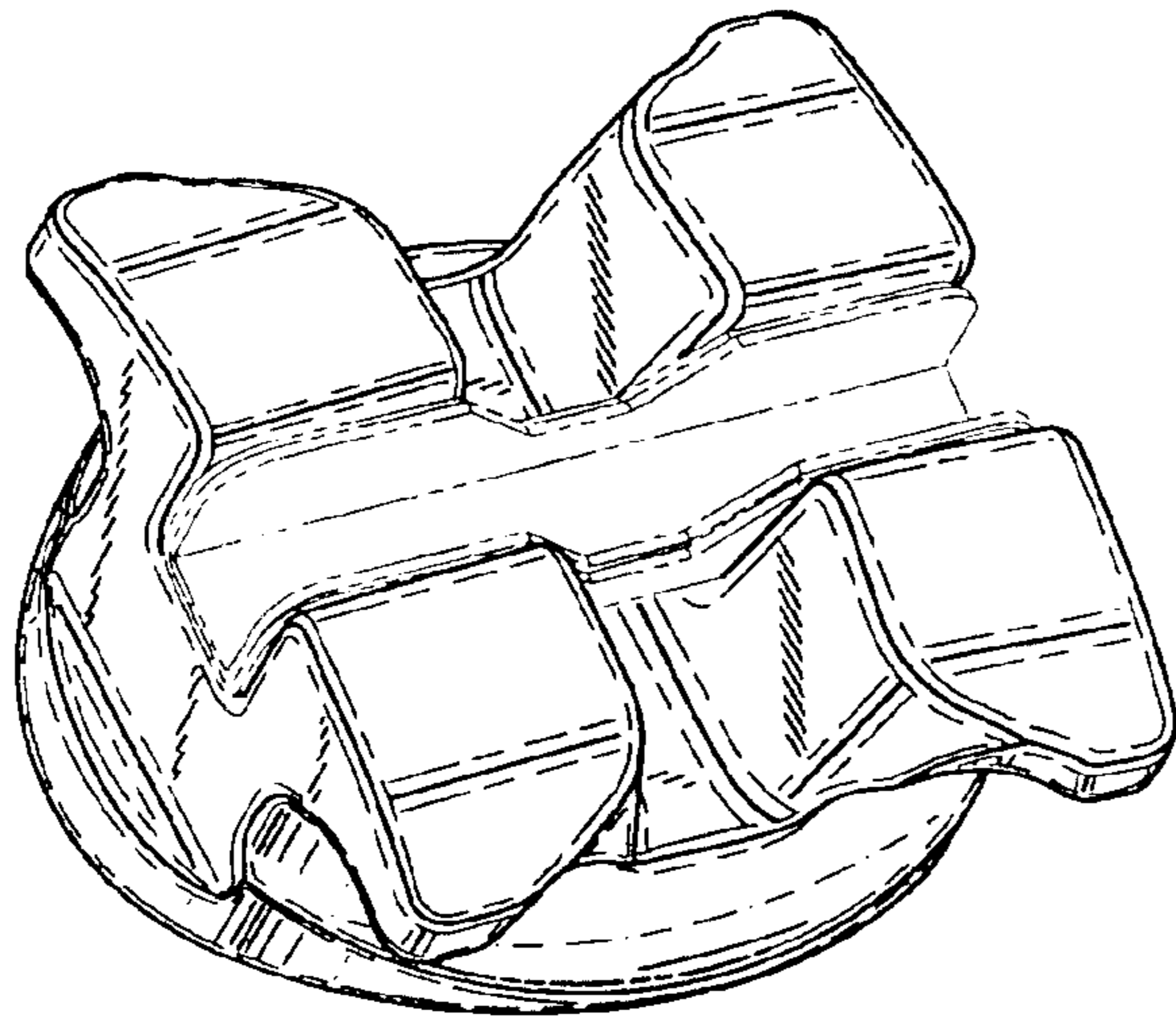
The broken line drawing of an archwire slot liner is for illustrative purposes only and forms no part of the claimed design.

**1 Claim, 4 Drawing Sheets**

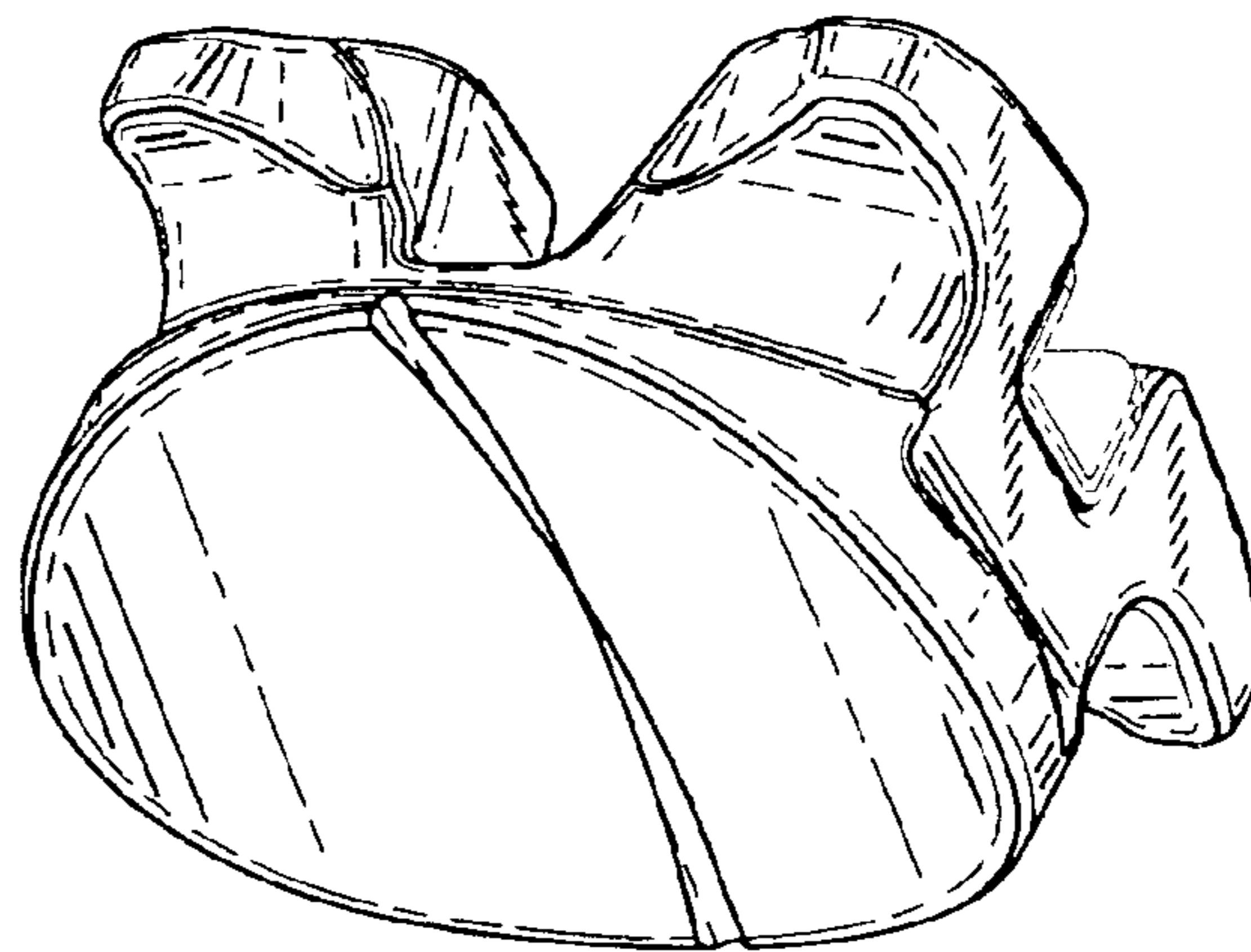
(56) **References Cited**  
U.S. PATENT DOCUMENTS

- 2,368,851 A 2/1945 Laskin
- 3,578,744 A 5/1971 Wildman
- 3,765,091 A 10/1973 Northcutt
- 3,922,787 A 12/1975 Fischer et al.
- RE28,889 E 7/1976 Wildman
- 3,969,821 A 7/1976 Lee, Jr. et al.
- 4,107,844 A 8/1978 Kurz
- 4,219,617 A 8/1980 Wallshein
- 4,531,911 A 7/1985 Creekmore
- D289,329 S \* 4/1987 Evans ..... D24/180
- D290,040 S 5/1987 Kelly
- 4,820,151 A 4/1989 Pospisil
- D303,708 S \* 9/1989 Pospisil ..... D24/180
- D304,077 S 10/1989 Pospisil
- 4,878,840 A 11/1989 Reynolds
- 4,936,773 A 6/1990 Kawaguchi
- D315,957 S 4/1991 Kelly et al.
- D322,482 S \* 12/1991 Ianieri et al. .... D24/180
- 5,095,602 A 3/1992 Reher et al.
- D331,975 S 12/1992 Pospisil

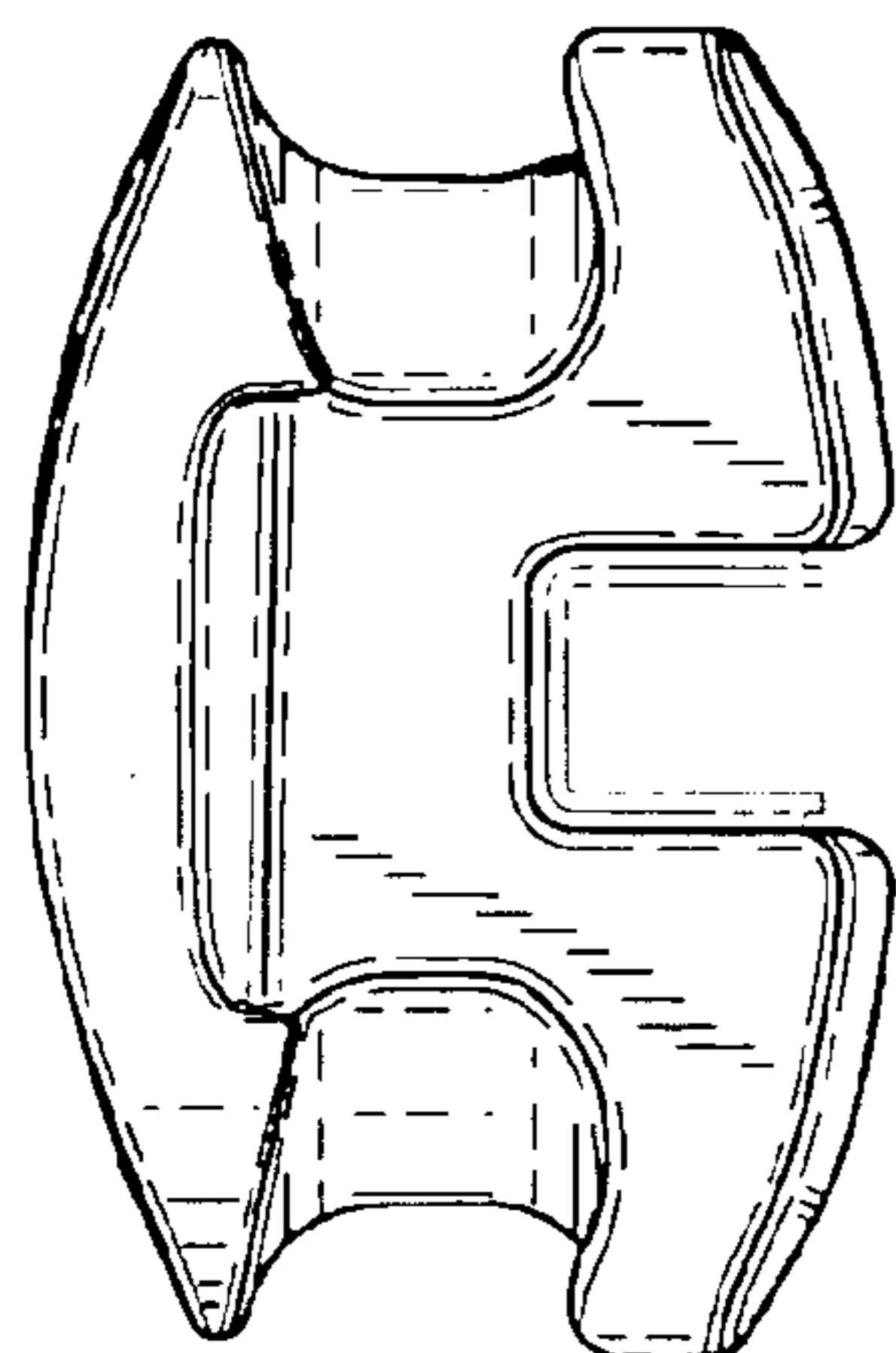




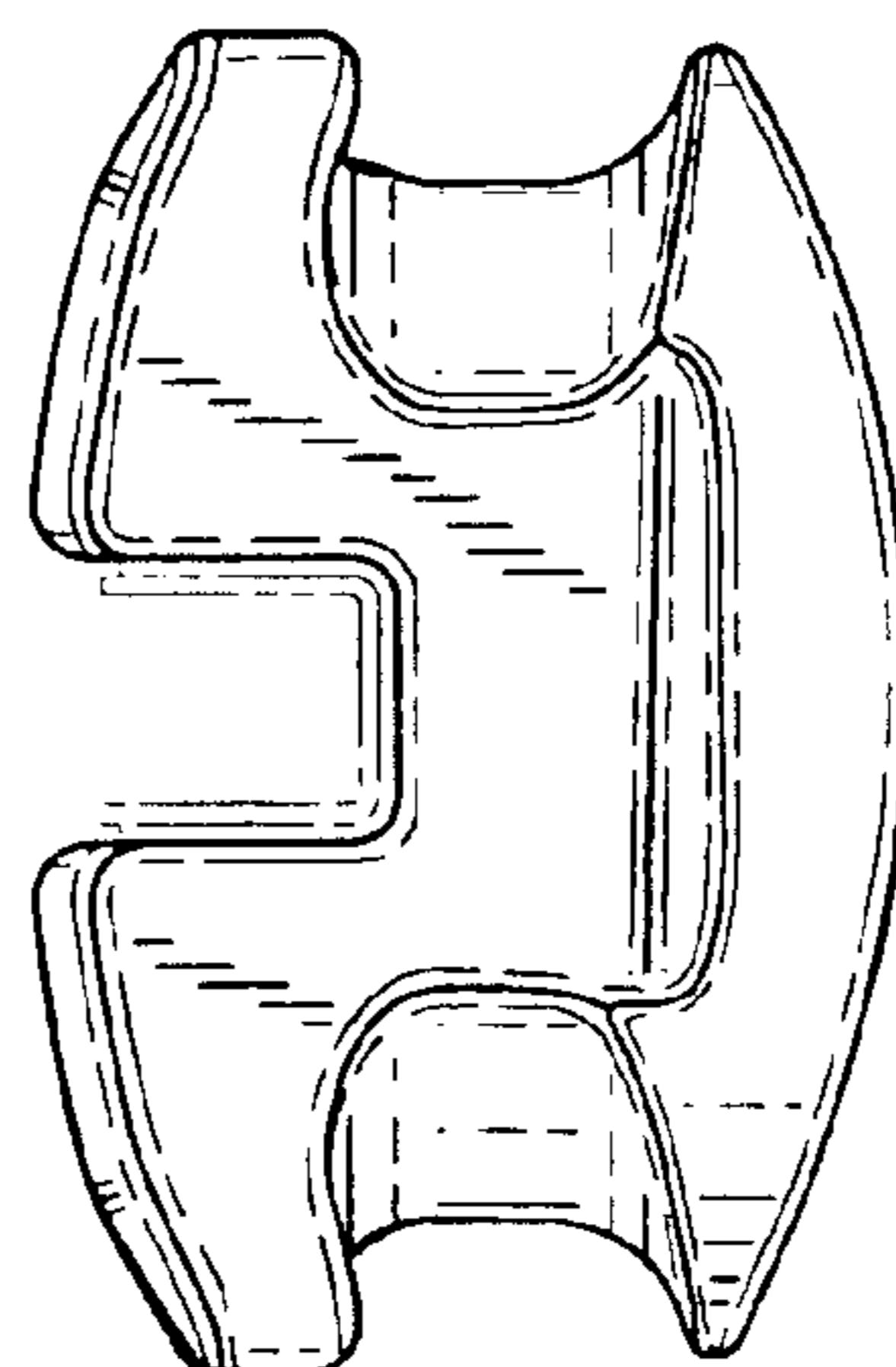
*FIG. 1*



*FIG. 2*



*FIG. 3*



*FIG. 4*

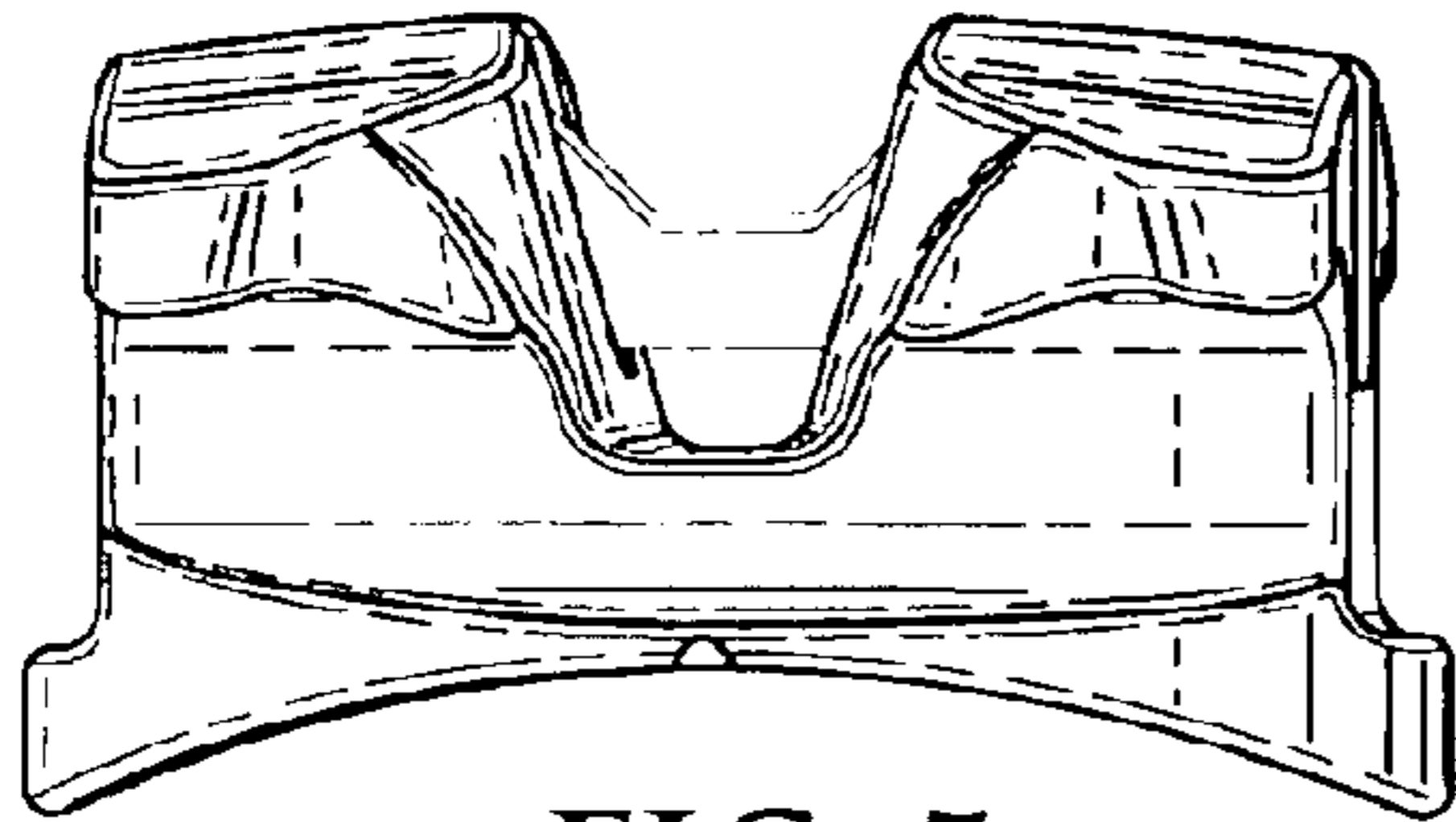


FIG. 5

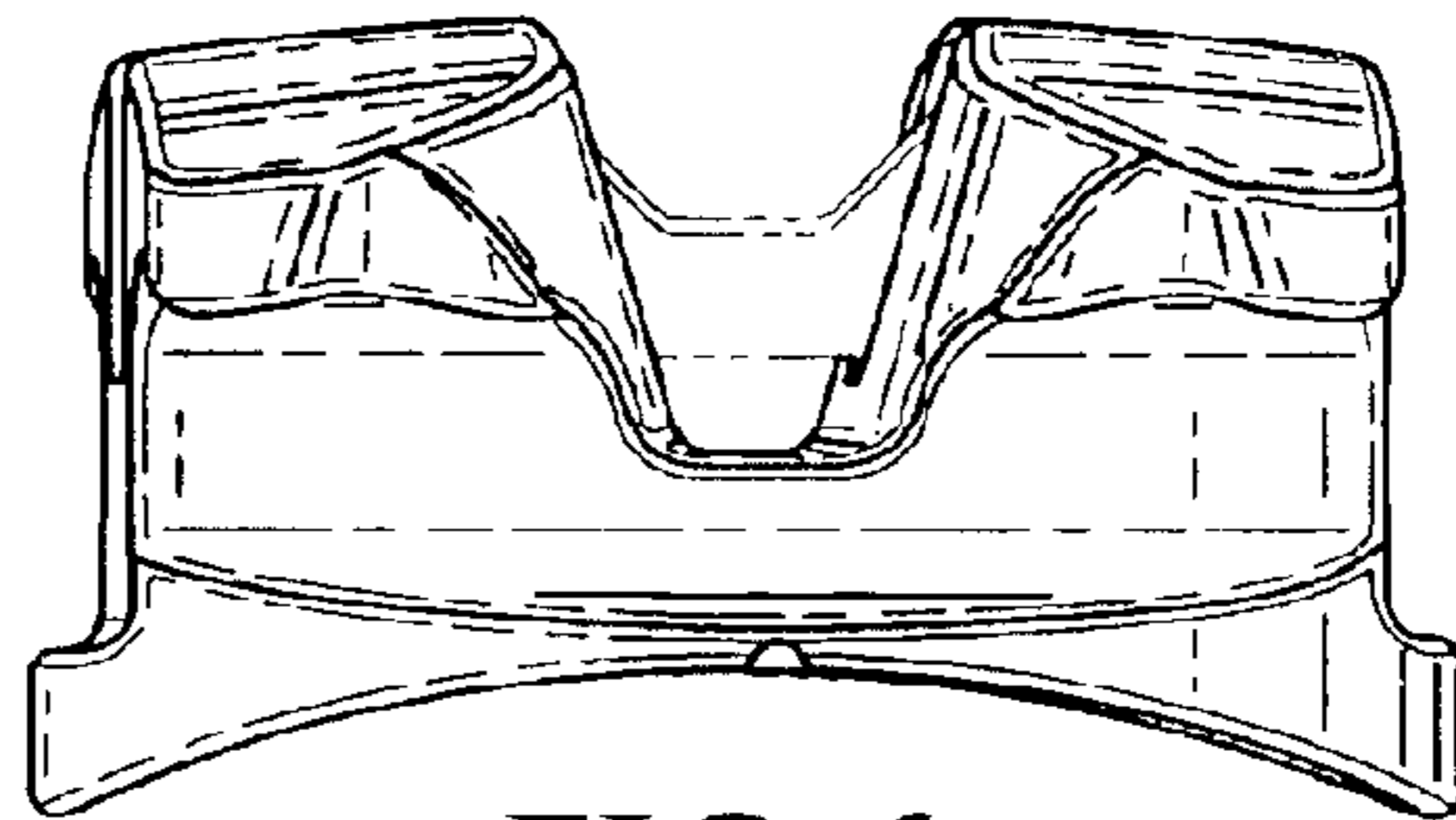


FIG. 6

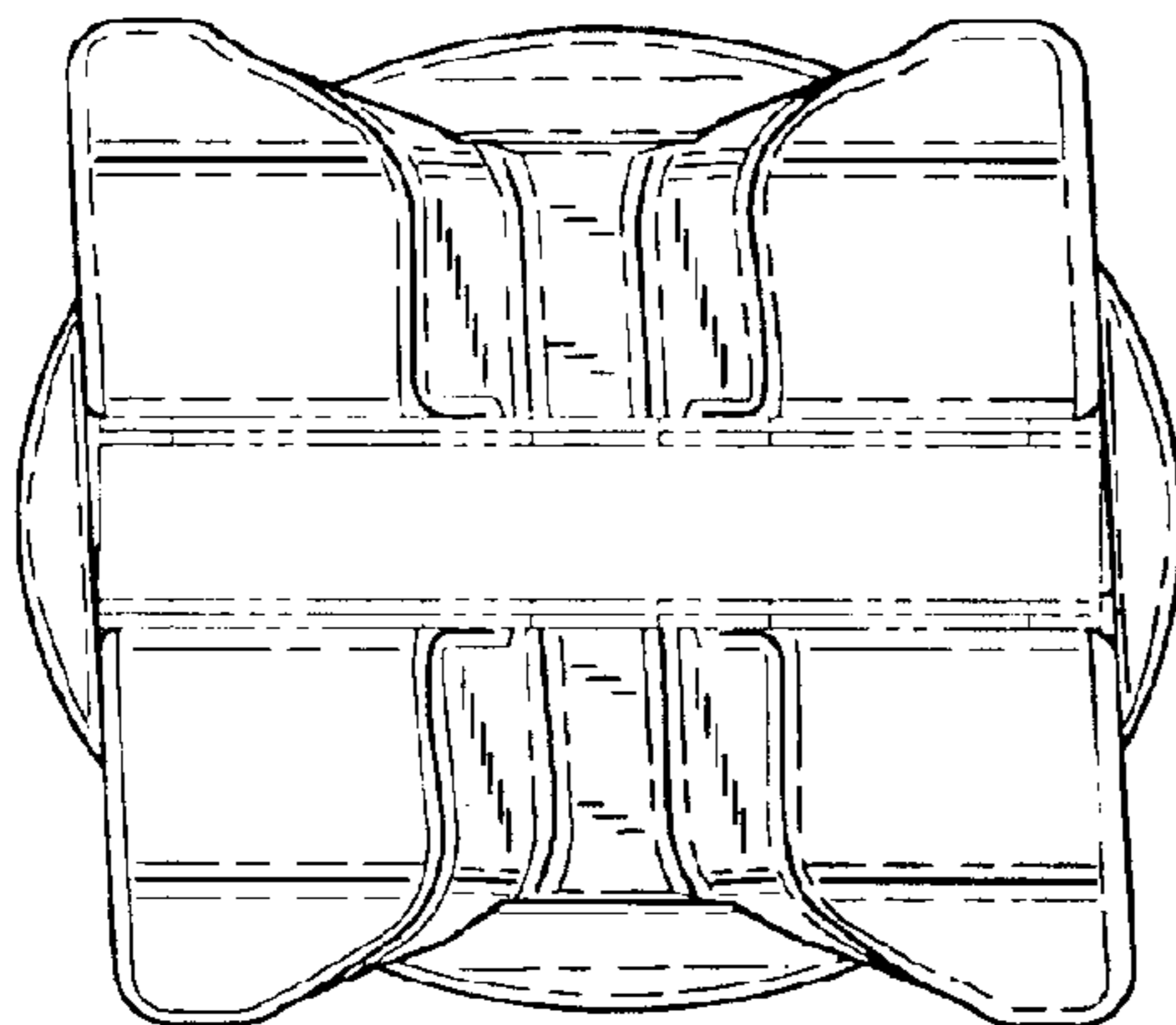


FIG. 7

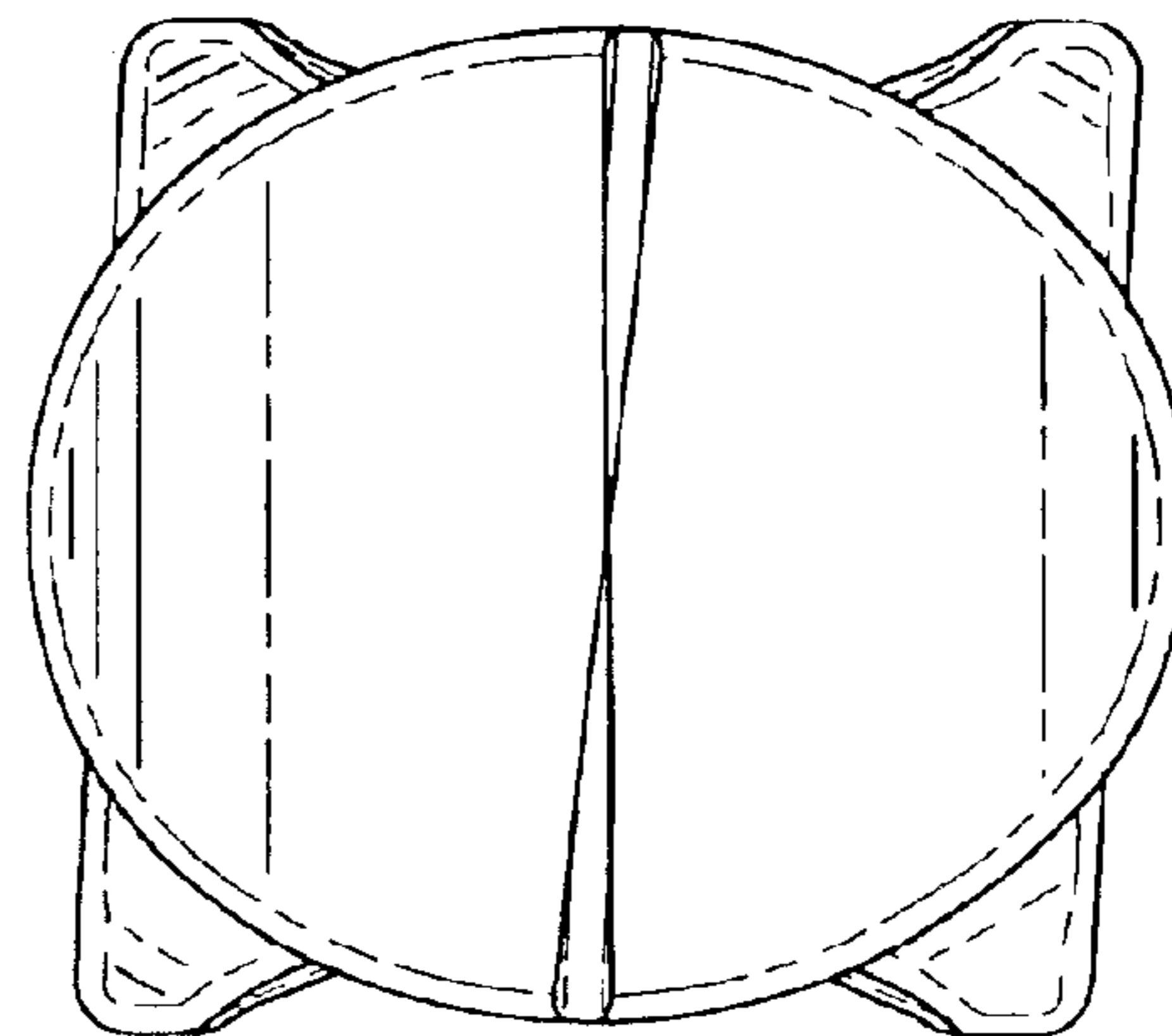
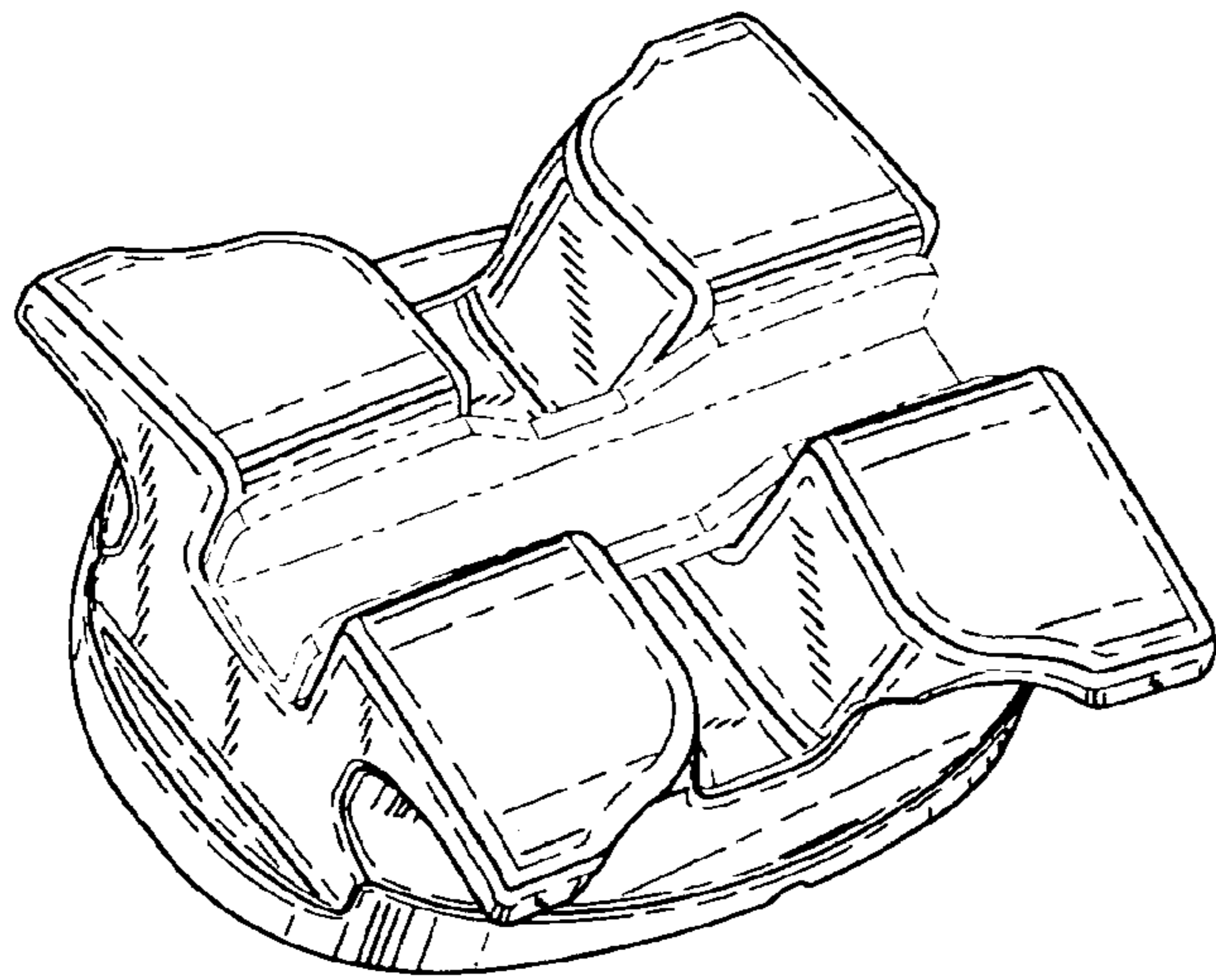
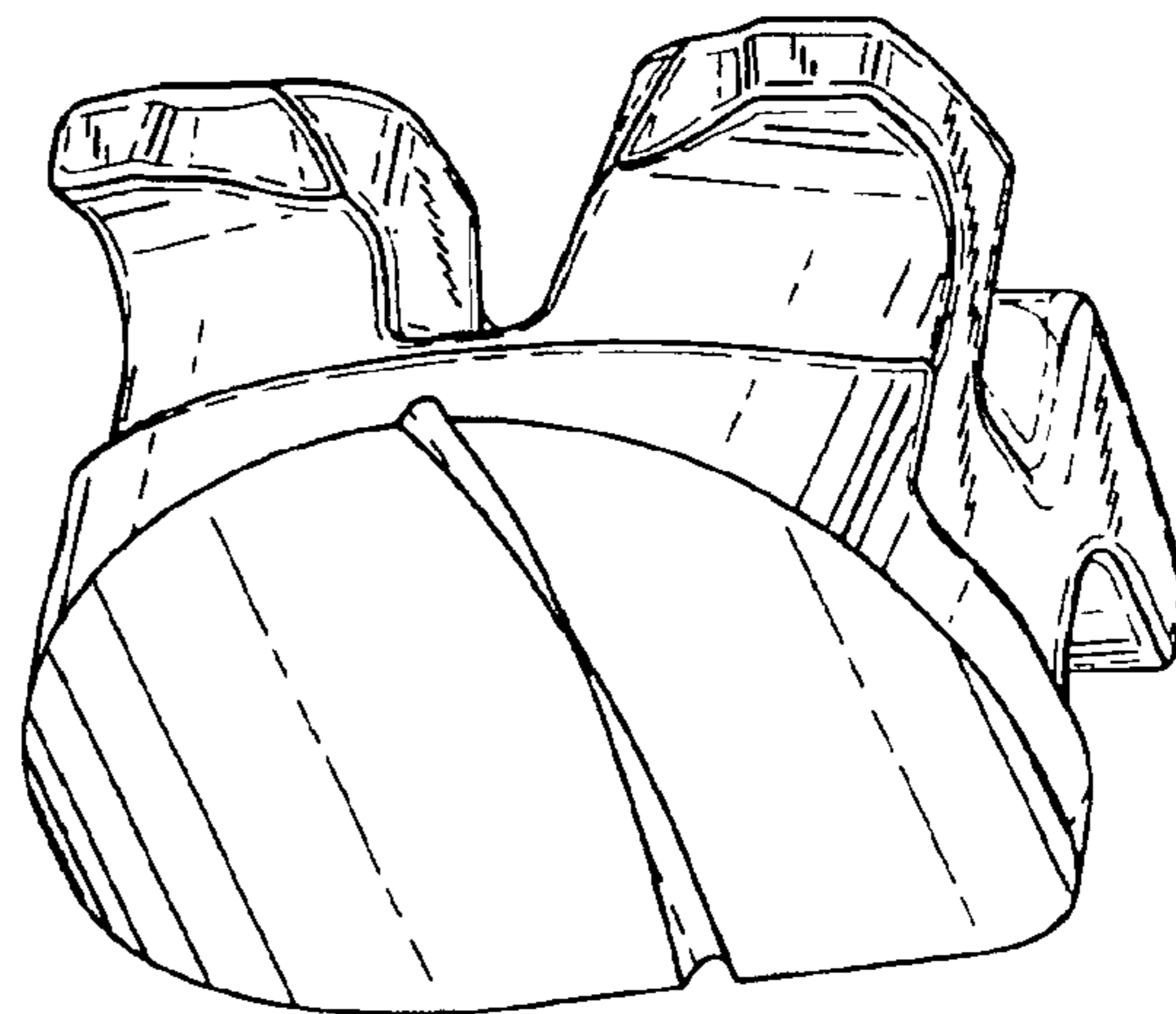


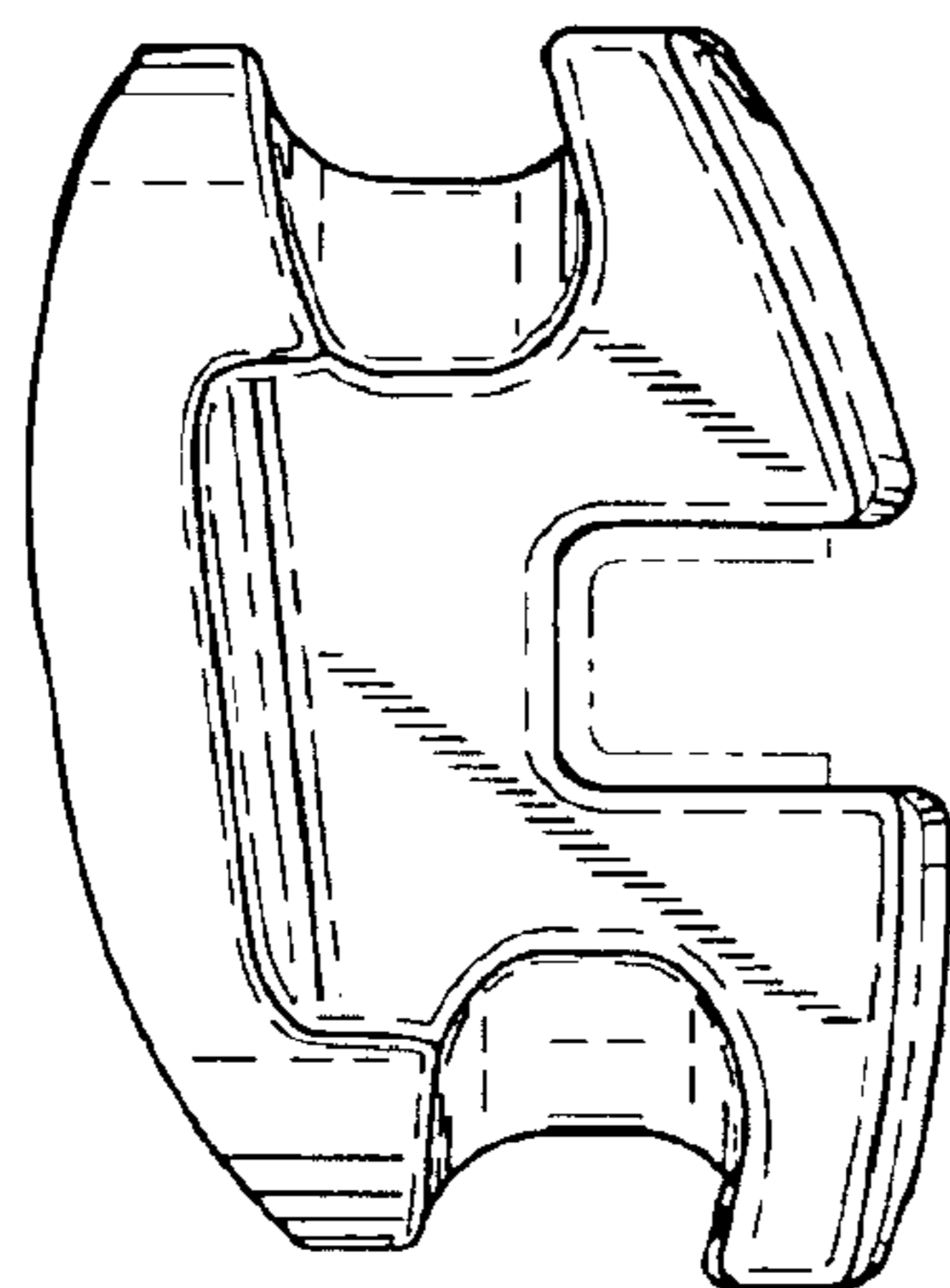
FIG. 8



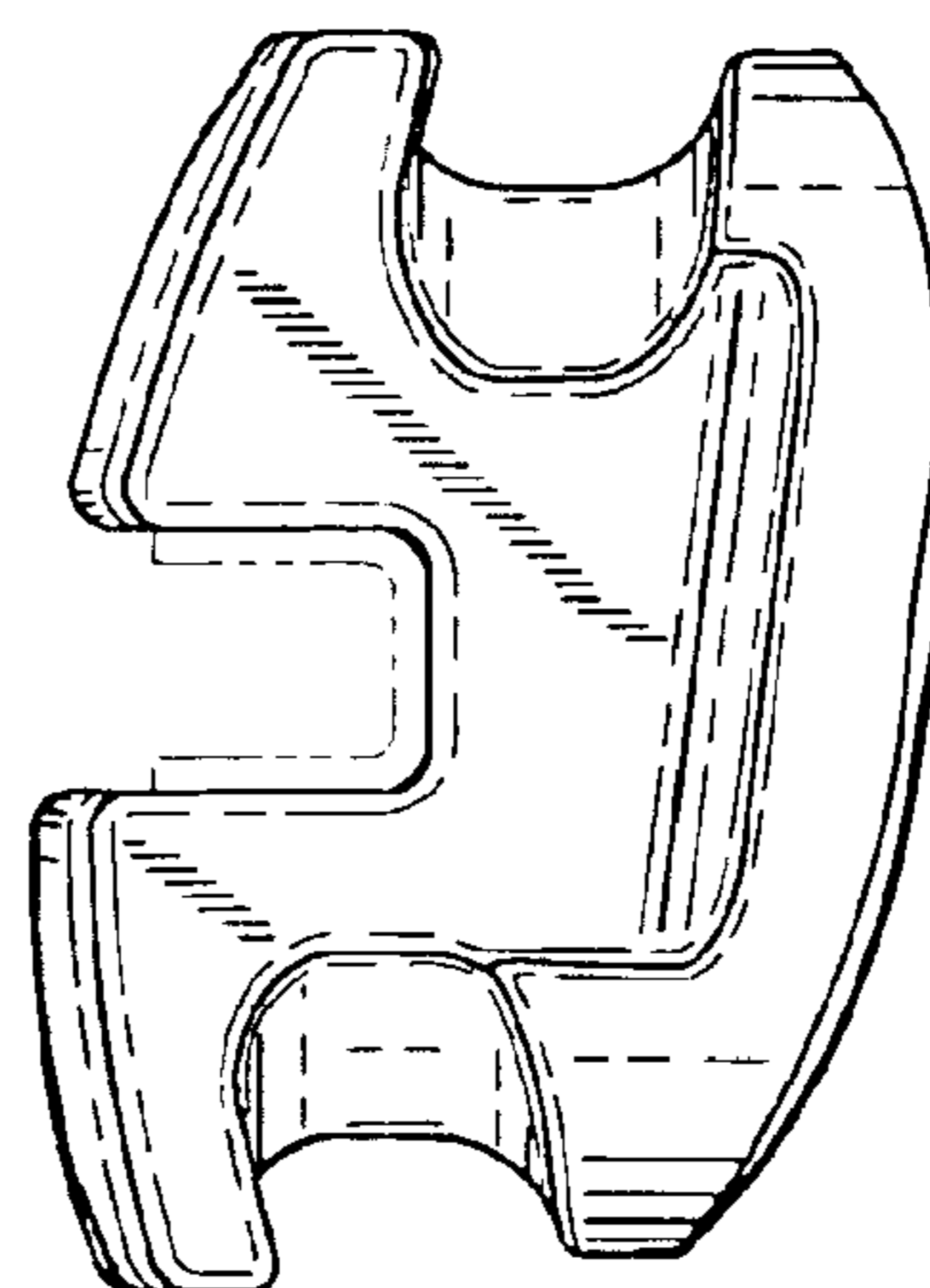
**FIG. 9**



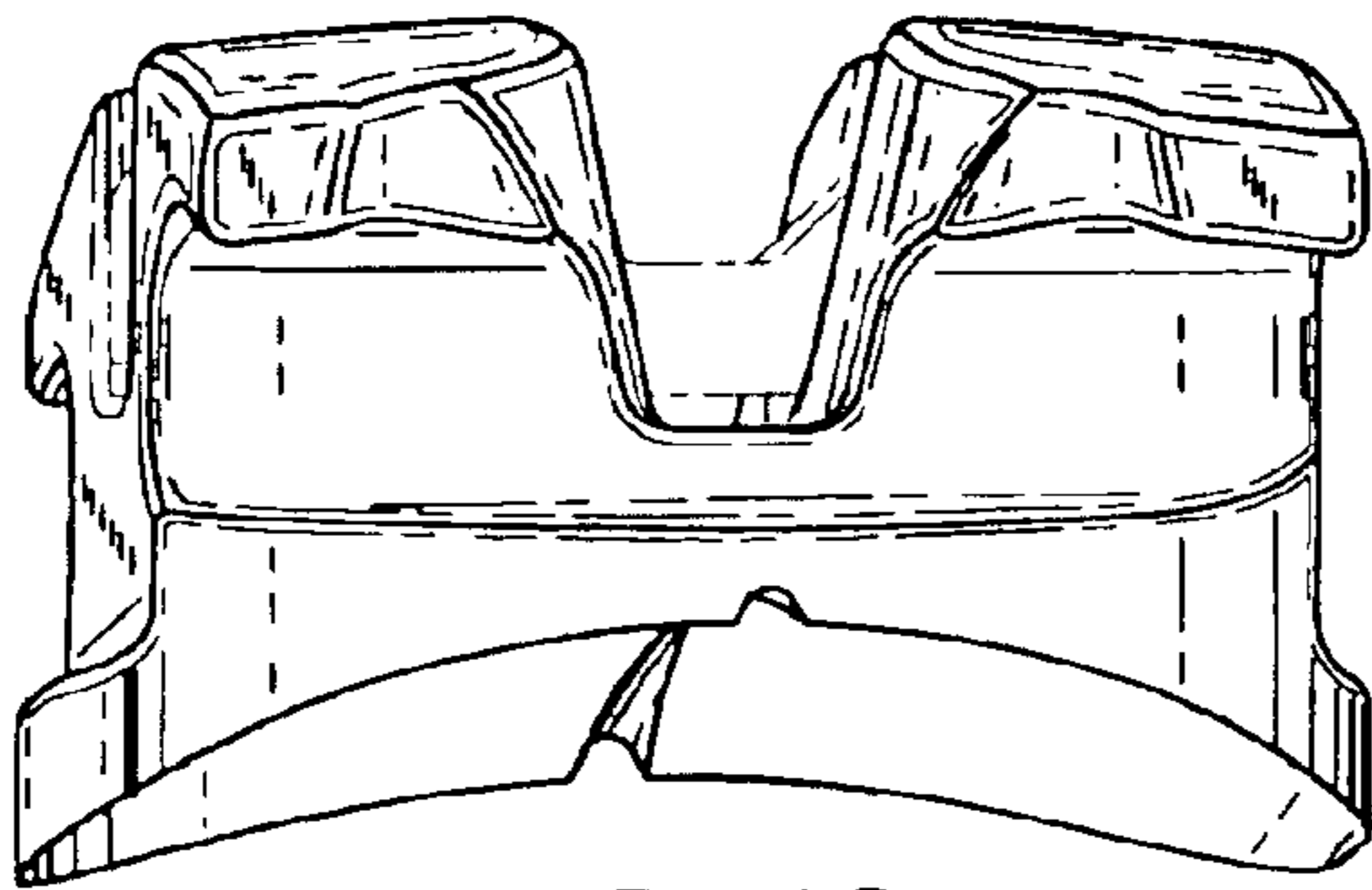
**FIG. 10**



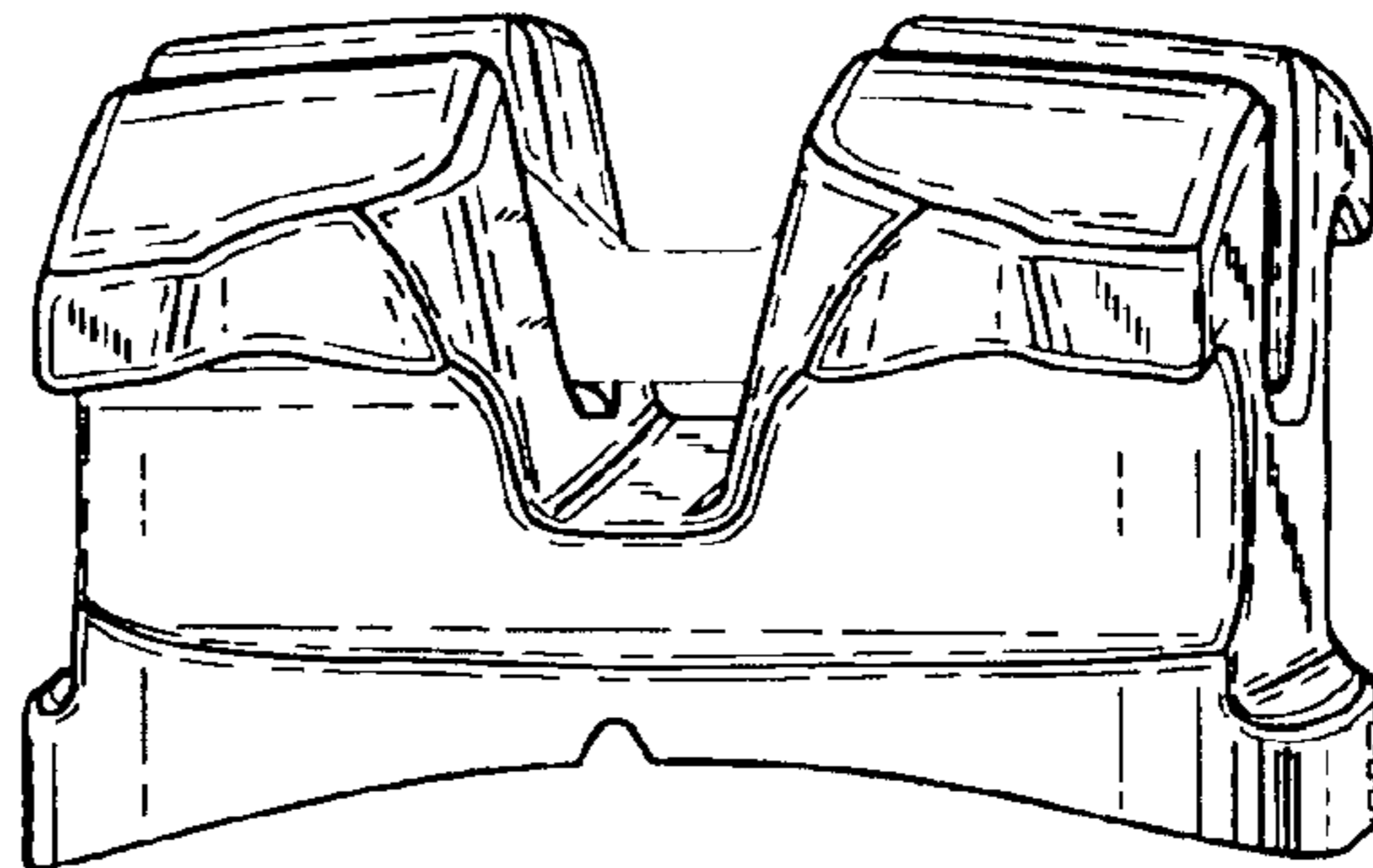
**FIG. 11**



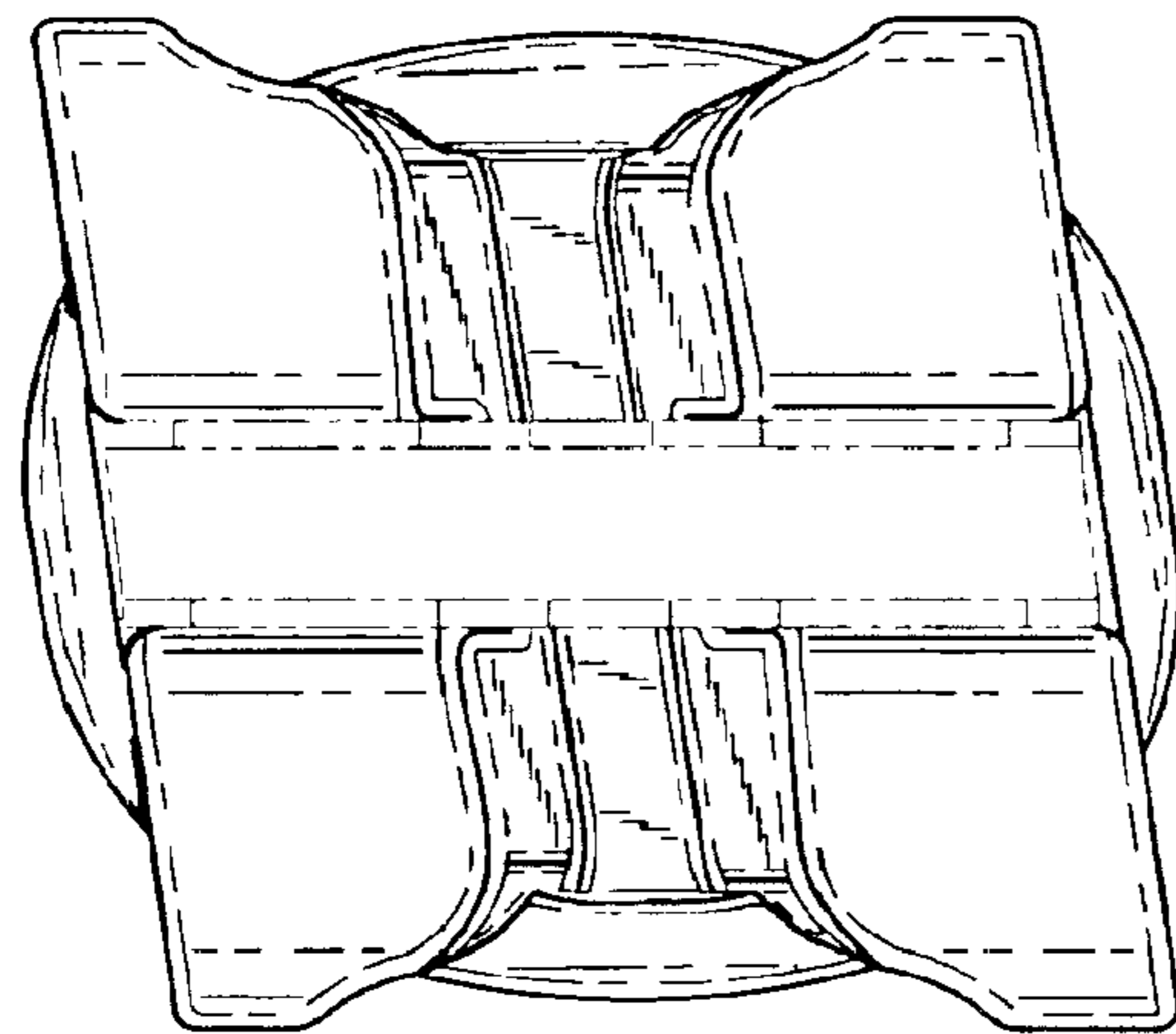
**FIG. 12**



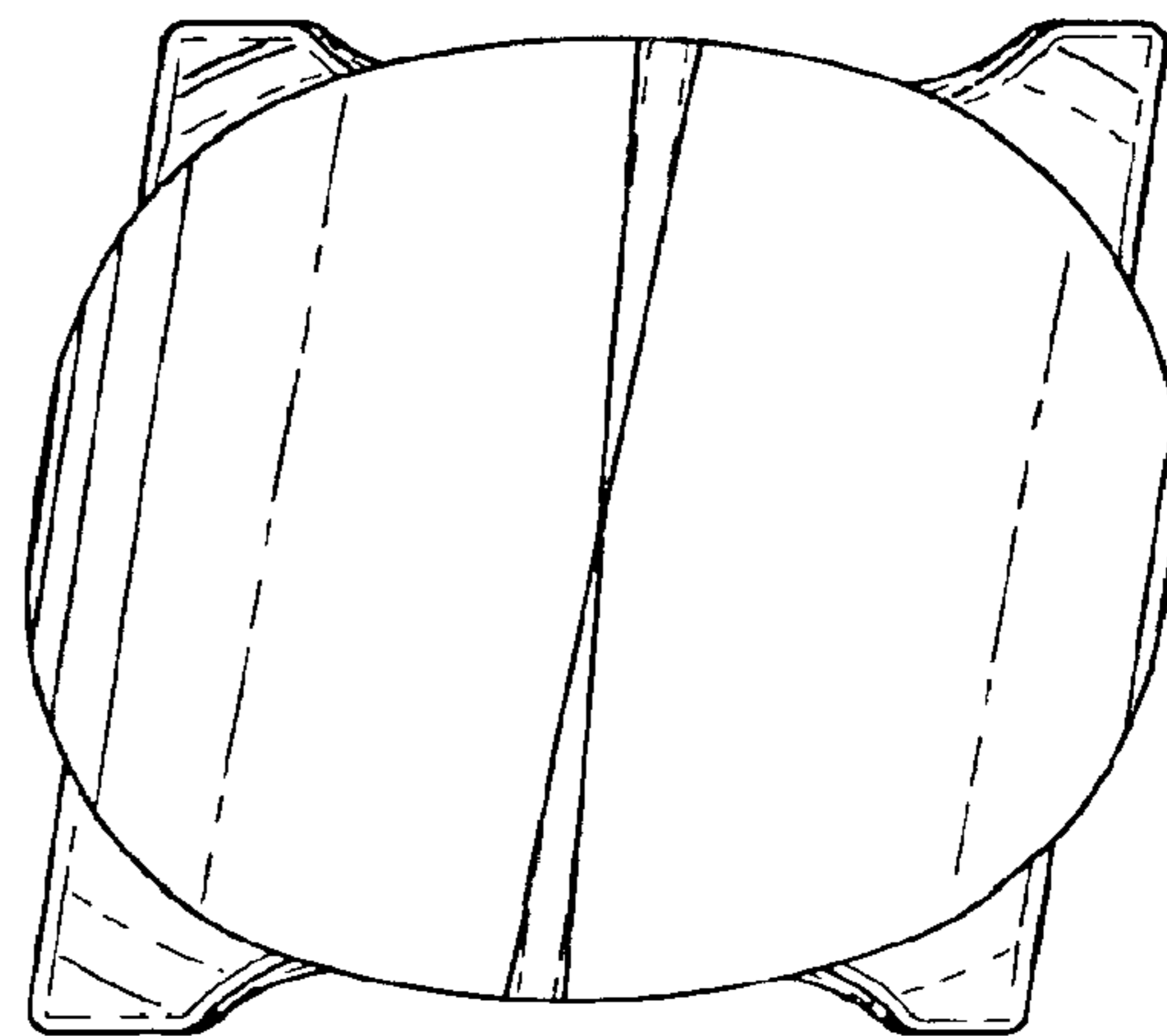
*FIG. 13*



*FIG. 14*



*FIG. 15*



*FIG. 16*