



US00D909585S

(12) **United States Design Patent**  
**Voudouris**

(10) **Patent No.:** **US D909,585 S**

(45) **Date of Patent:** **\*\* Feb. 2, 2021**

(54) **BITE TOWER**

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(73) Assignee: **Spartan Orthodontics Inc.**, Toronto (CA)

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/679,328**

(22) Filed: **Feb. 5, 2019**

**Related U.S. Application Data**

(63) Continuation of application No. 16/501,104, filed on Feb. 9, 2018.

(51) **LOC (13) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/180**

(58) **Field of Classification Search**  
USPC ..... D24/152-154, 176-182, 155, 156,  
D24/227-229, 234, 133-135, 144-146,  
D24/151, 107, 108, 110.5, 184, 185, 209,  
D24/210, 223-226, 230; D29/108;  
D6/513, 514, 515

(Continued)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

1,861,645 A \* 6/1932 Stein ..... 433/38  
2,674,798 A \* 4/1954 Craigo ..... A61C 9/00  
433/71

(Continued)

**OTHER PUBLICATIONS**

SmileTech Bite Turbos,[site visited Jul. 15, 2020]. Available from Internet. URL: <https://www.amazon.com/Bite-Turbos-Dental-Orthodontic-Materials/dp/B072QCY9BX> (Year: 2020).\*

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(57) **CLAIM**

The ornamental design for a bite tower, as shown and described.

**DESCRIPTION**

FIG. 1 is a side perspective view of a first embodiment of a bite tower.

FIG. 2 is a top-side perspective view of the design of FIG. 1, installed in a patient's mouth;

FIG. 3 is a front view of the design of FIG. 1.

FIG. 4 is a left side view of the design of FIG. 1.

FIG. 5 is a right side view of the design of FIG. 1.

FIG. 6 is a top view of the design of FIG. 1.

FIG. 7 is a bottom view of the design of FIG. 1.

FIG. 8 is a side perspective of a second embodiment of a bite tower, having a round aperture therethrough.

FIG. 9 is a front view of the design of FIG. 8.

FIG. 10 is a left side view of the design of FIG. 8.

FIG. 11 is a right side view of the design of FIG. 8.

FIG. 12 is a top view of the design of FIG. 8.

FIG. 13 is a bottom view of the design of FIG. 8.

FIG. 14 is a side perspective view of a third embodiment of a bite tower, having a round aperture therethrough, and a notch formed on a top surface thereof.

FIG. 15 is a front view of the design of FIG. 14.

FIG. 16 is a left side view of the design of FIG. 14.

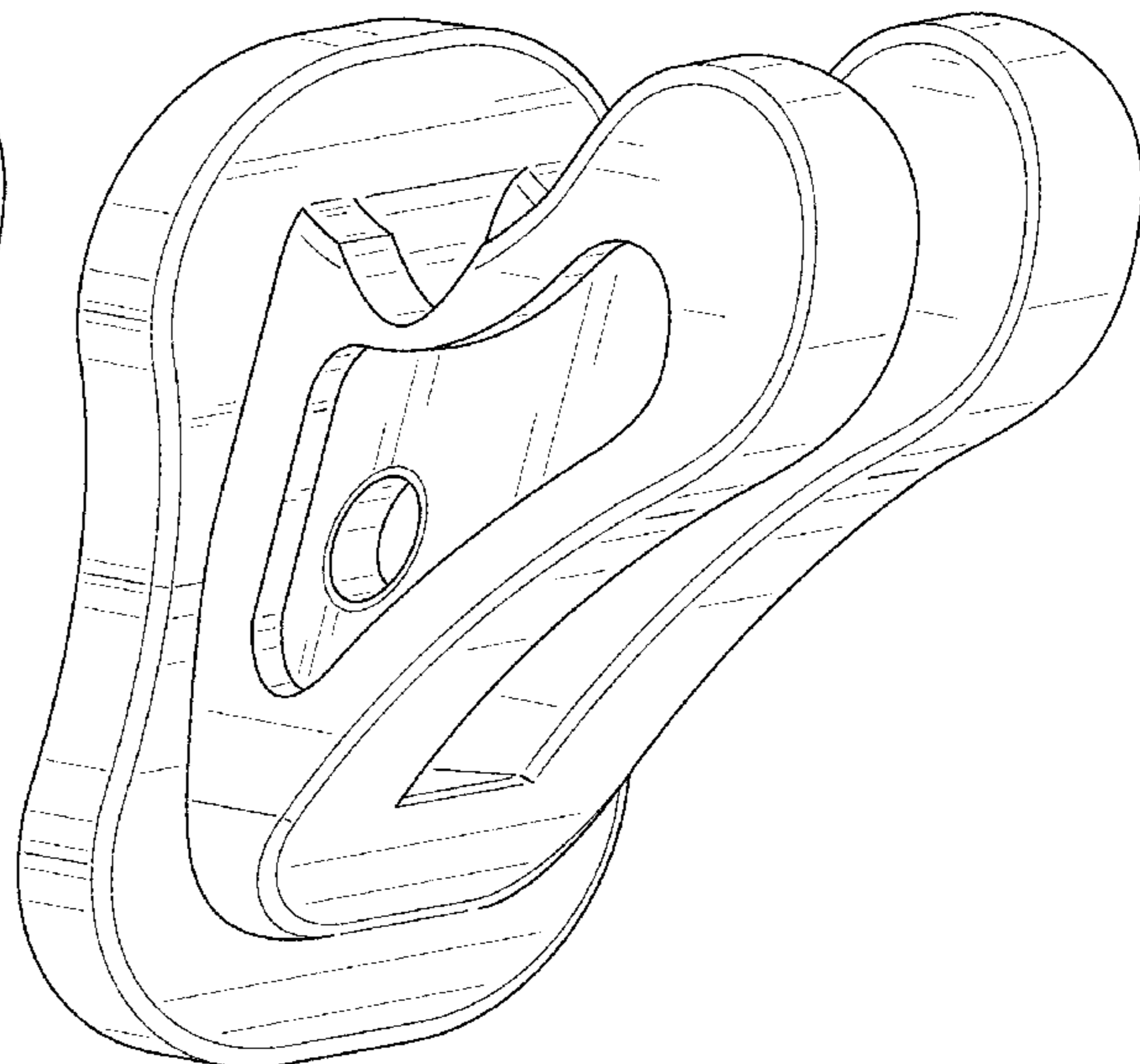
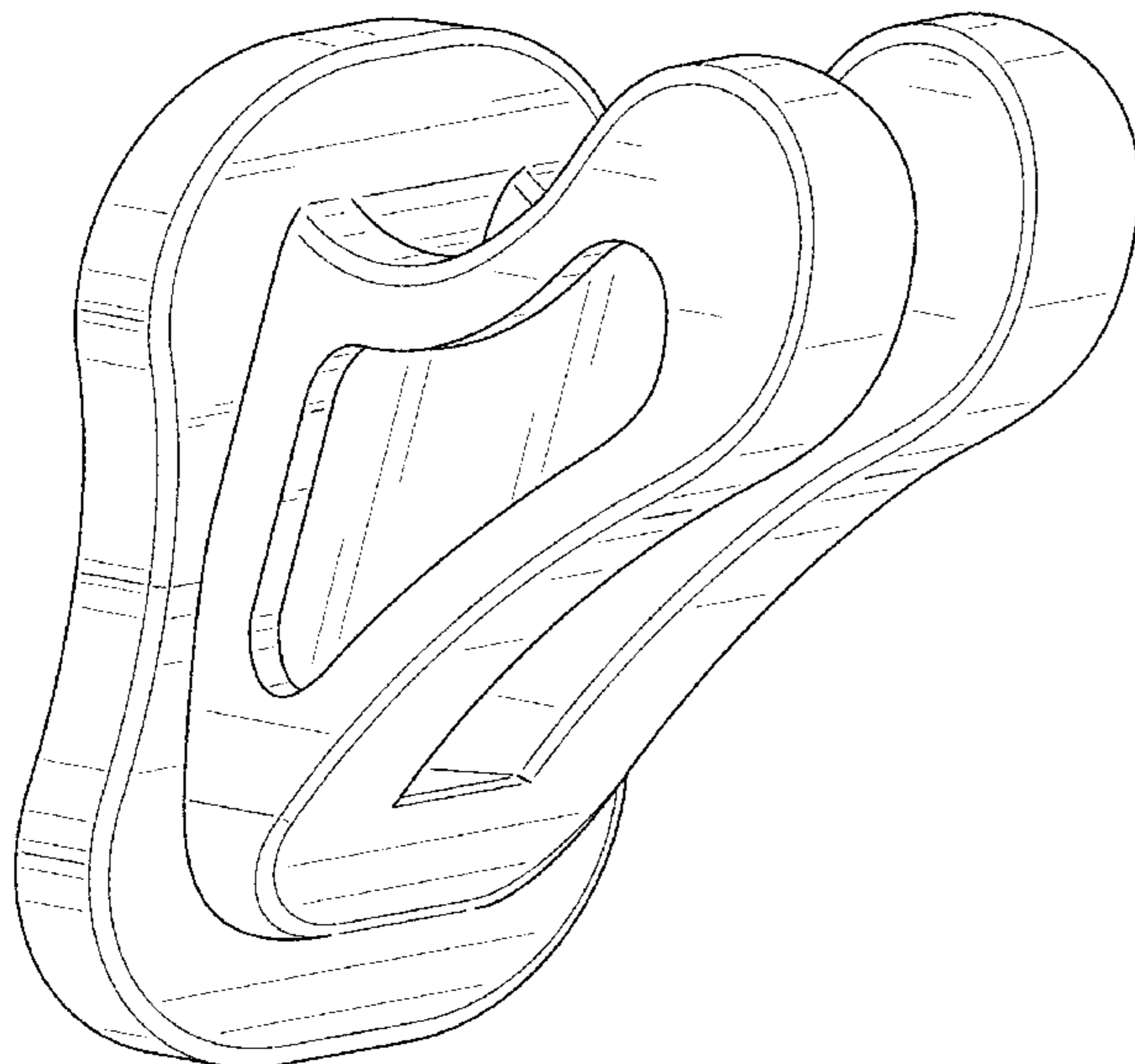
FIG. 17 is a right side view of the design of FIG. 14.

FIG. 18 is a top view of the design of FIG. 14; and,

FIG. 19 is a bottom view of the design of FIG. 14.

The broken line structure in FIG. 2 showing the bite tower in a condition of use is for environmental purposes only and forms no part of the claimed design.

**1 Claim, 19 Drawing Sheets**



(58) **Field of Classification Search**

CPC .. A61C 5/00; A61C 5/12; A61C 5/122; A61C 5/125; A61C 5/127; A61C 7/00; A61C 7/18; A61C 15/00; A61C 15/04; A61C 15/043; A61C 17/04; A61C 17/88; A61C 7/10; A61C 7/16; A61C 7/36; A61C 7/145; A61C 7/148; A61C 19/06; A61C 19/063; A61C 19/066; A61C 7/12; A61C 7/14; A61C 7/141; A61C 7/143; A61C 7/287; A61C 7/146; A61B 50/00; A61B 50/30; A61B 50/31; A61N 5/06; A61N 5/0603; A61N 5/0613; A61N 2005/0606

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,855,670 A \* 10/1958 Rose ..... A61F 5/566  
433/215  
3,478,429 A \* 11/1969 Shilliday ..... A61C 7/08  
433/6  
4,419,992 A \* 12/1983 Chorbajian ..... A63B 71/085  
128/862  
D297,665 S \* 9/1988 Neeley ..... D24/176  
4,915,630 A \* 4/1990 Honig ..... A61C 5/007  
433/215  
D322,482 S \* 12/1991 Ianieri ..... D24/180  
5,957,686 A \* 9/1999 Anthony ..... A61C 7/08  
433/19  
5,964,587 A \* 10/1999 Sato ..... A61C 7/00  
128/861  
6,309,215 B1 \* 10/2001 Phan ..... A61C 7/00  
433/24  
6,364,659 B1 \* 4/2002 Lotte ..... A61C 7/00  
433/18  
6,368,106 B1 \* 4/2002 Clark ..... A61C 7/00  
433/19  
6,464,494 B1 \* 10/2002 Young ..... A61C 7/10  
433/18  
6,464,495 B1 \* 10/2002 Voudouris ..... A61C 7/00  
433/18  
7,226,287 B2 \* 6/2007 Abels ..... A61C 7/00  
433/18

7,293,987 B2 \* 11/2007 Abels ..... A61C 7/00  
433/18  
D571,648 S \* 6/2008 Rieder ..... D8/395  
D644,504 S \* 9/2011 Rieder ..... D8/395  
D660,436 S \* 5/2012 Dupray ..... D24/180  
D666,722 S \* 9/2012 Dragan ..... D24/152  
8,257,079 B1 \* 9/2012 Plowman ..... A61F 5/566  
433/18  
8,544,472 B2 \* 10/2013 Gaskell ..... A61C 17/08  
128/848  
9,084,649 B2 \* 7/2015 Kansal ..... A61C 7/00  
D768,863 S \* 10/2016 Paehl ..... D24/180  
9,517,112 B2 \* 12/2016 Hagelganz ..... A61C 7/12  
9,539,065 B2 \* 1/2017 Cinader, Jr. .... A61C 19/003  
9,585,733 B2 \* 3/2017 Voudouris ..... A61C 7/287  
D799,048 S \* 10/2017 Wigal ..... D24/180  
9,895,206 B2 \* 2/2018 Izadi ..... A61C 7/146  
10,136,966 B2 \* 11/2018 Reybrouck ..... A61C 7/12  
D837,382 S \* 1/2019 Steen ..... D24/180  
10,201,403 B2 \* 2/2019 Ji ..... A61C 7/34  
10,219,876 B2 \* 3/2019 Soo ..... B22F 7/08  
10,238,476 B2 \* 3/2019 Karazivan ..... A61C 7/146  
D847,349 S \* 4/2019 Edgren ..... D24/180  
10,299,894 B2 \* 5/2019 Tanugula ..... A61C 7/002  
D854,163 S \* 7/2019 Vela Hernandez ..... D24/180  
D859,663 S \* 9/2019 Cetta ..... D24/180  
10,405,949 B2 \* 9/2019 Lee ..... A61C 7/002  
10,485,636 B2 \* 11/2019 Hung ..... A61C 7/20  
10,492,890 B2 \* 12/2019 Cinader, Jr. .... A61C 7/14  
10,537,406 B2 \* 1/2020 Wu ..... A61C 7/08  
D877,341 S \* 3/2020 Hung ..... D24/180  
10,588,713 B2 \* 3/2020 Andreiko ..... A61C 7/146  
10,631,953 B2 \* 4/2020 Wen ..... A61C 7/08  
10,639,130 B2 \* 5/2020 Blee ..... A61C 7/146  
10,639,134 B2 \* 5/2020 Shanjani ..... A61B 5/1111  
2003/0198911 A1 \* 10/2003 Knopp ..... B33Y 80/00  
433/6  
2003/0207224 A1 \* 11/2003 Lotte ..... A61C 7/36  
433/6  
2015/0238283 A1 \* 8/2015 Tanugula ..... G06F 30/00  
433/6  
2019/0125494 A1 \* 5/2019 Li ..... A61C 7/36  
2019/0336248 A1 \* 11/2019 Voudouris ..... A61C 7/36  
2020/0100873 A1 \* 4/2020 Tanugula ..... A61C 7/002  
2020/0170754 A1 \* 6/2020 Lombardi ..... A61C 17/04

\* cited by examiner

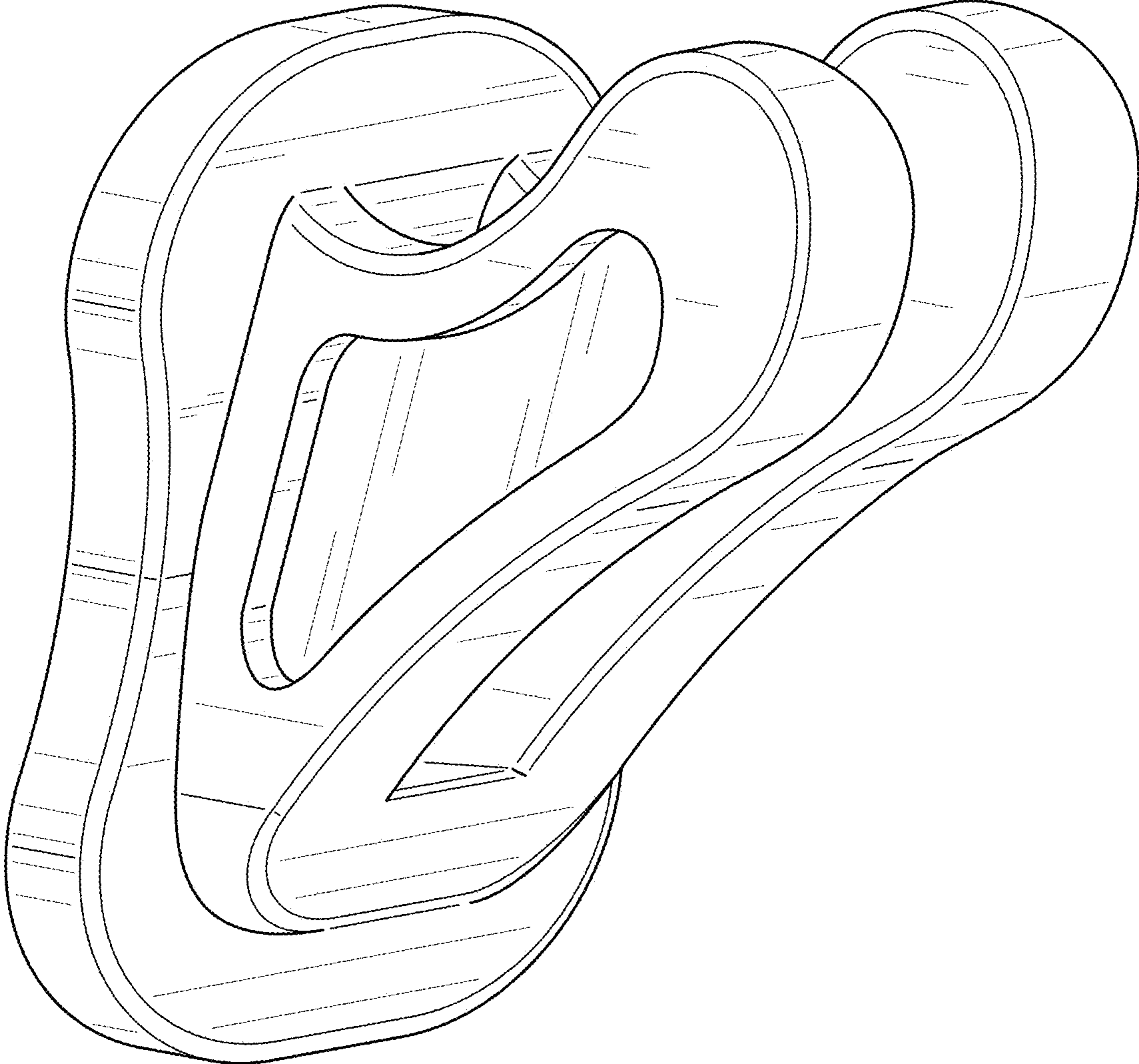


FIG. 1

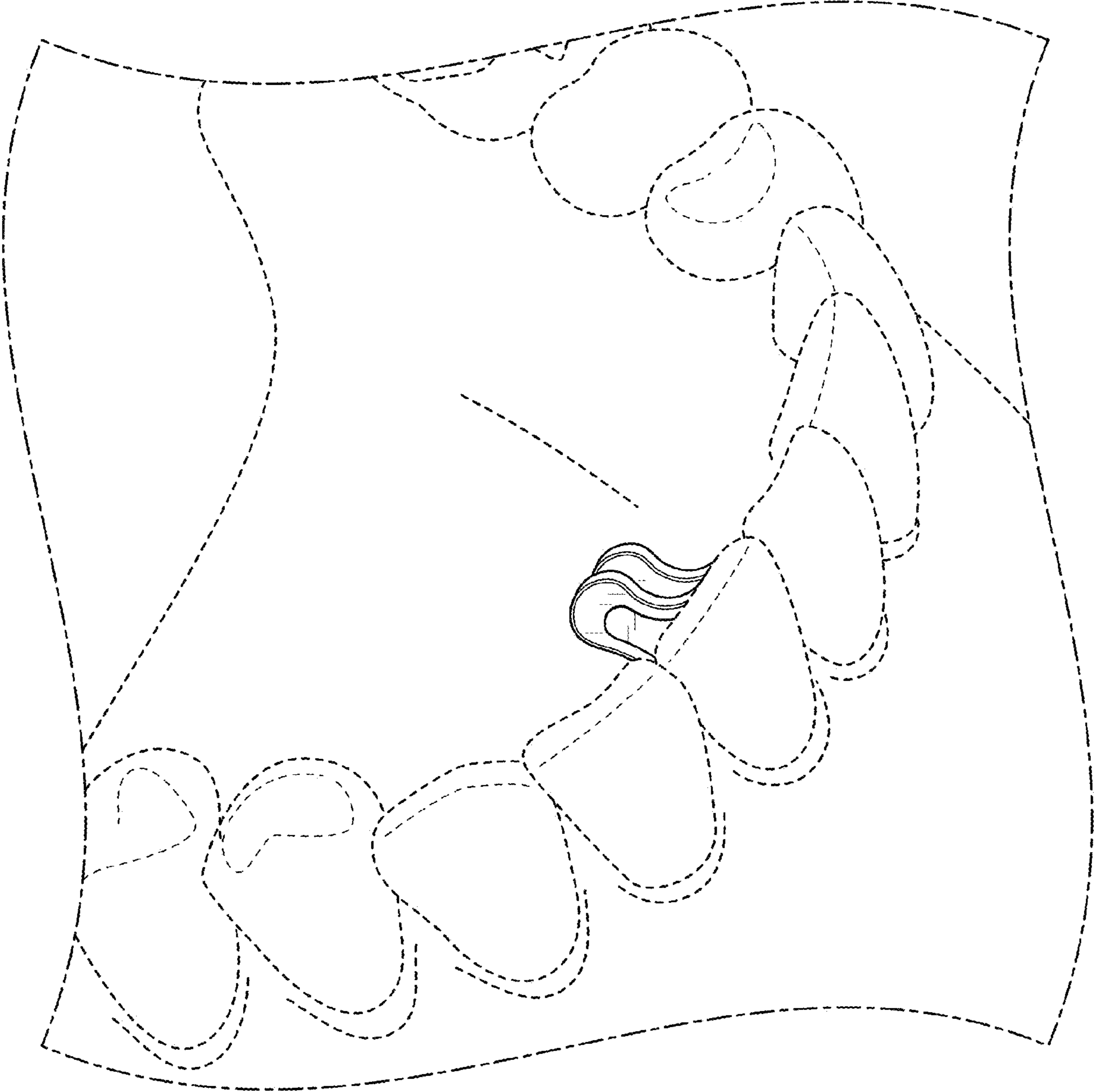


FIG. 2

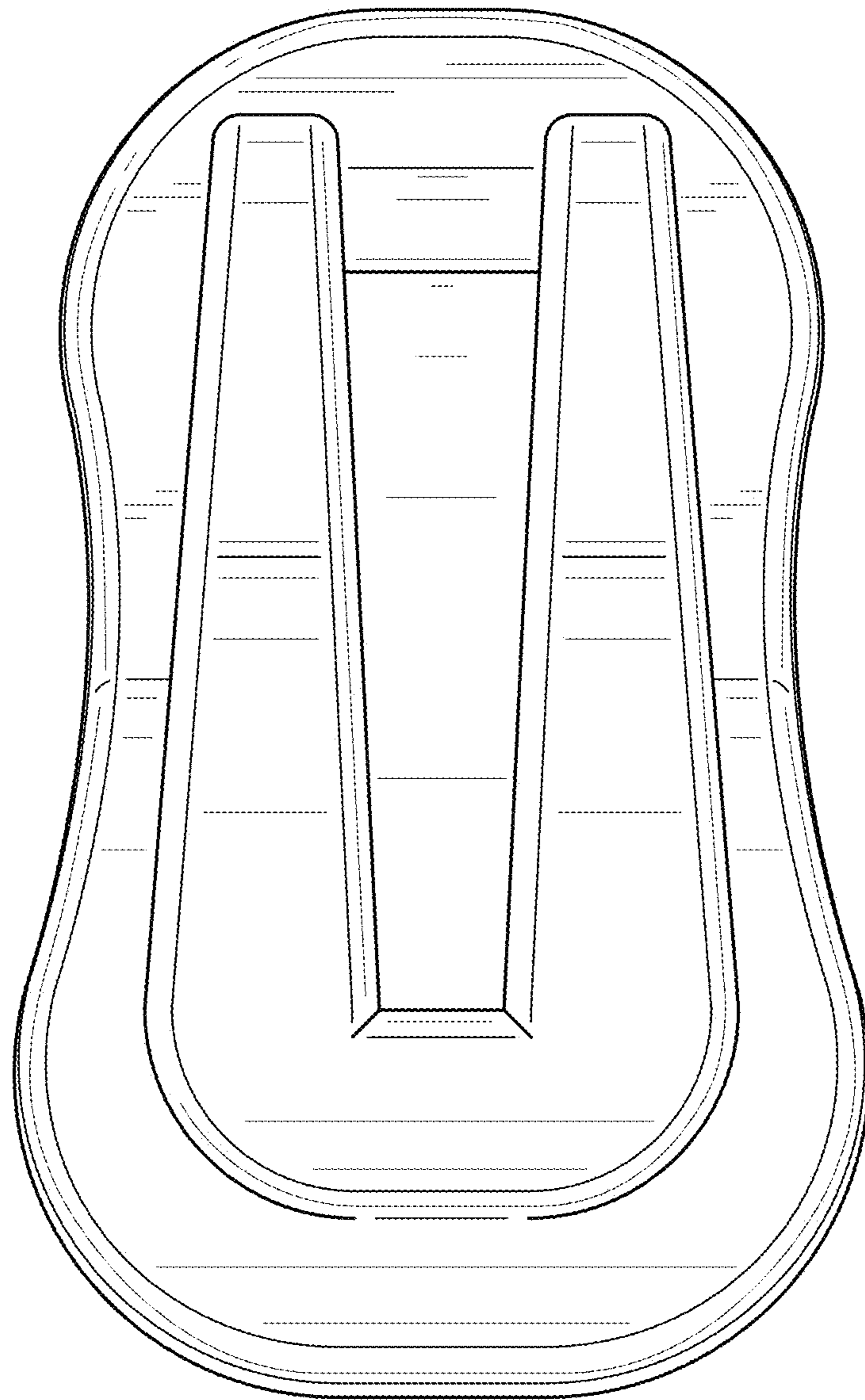


FIG. 3

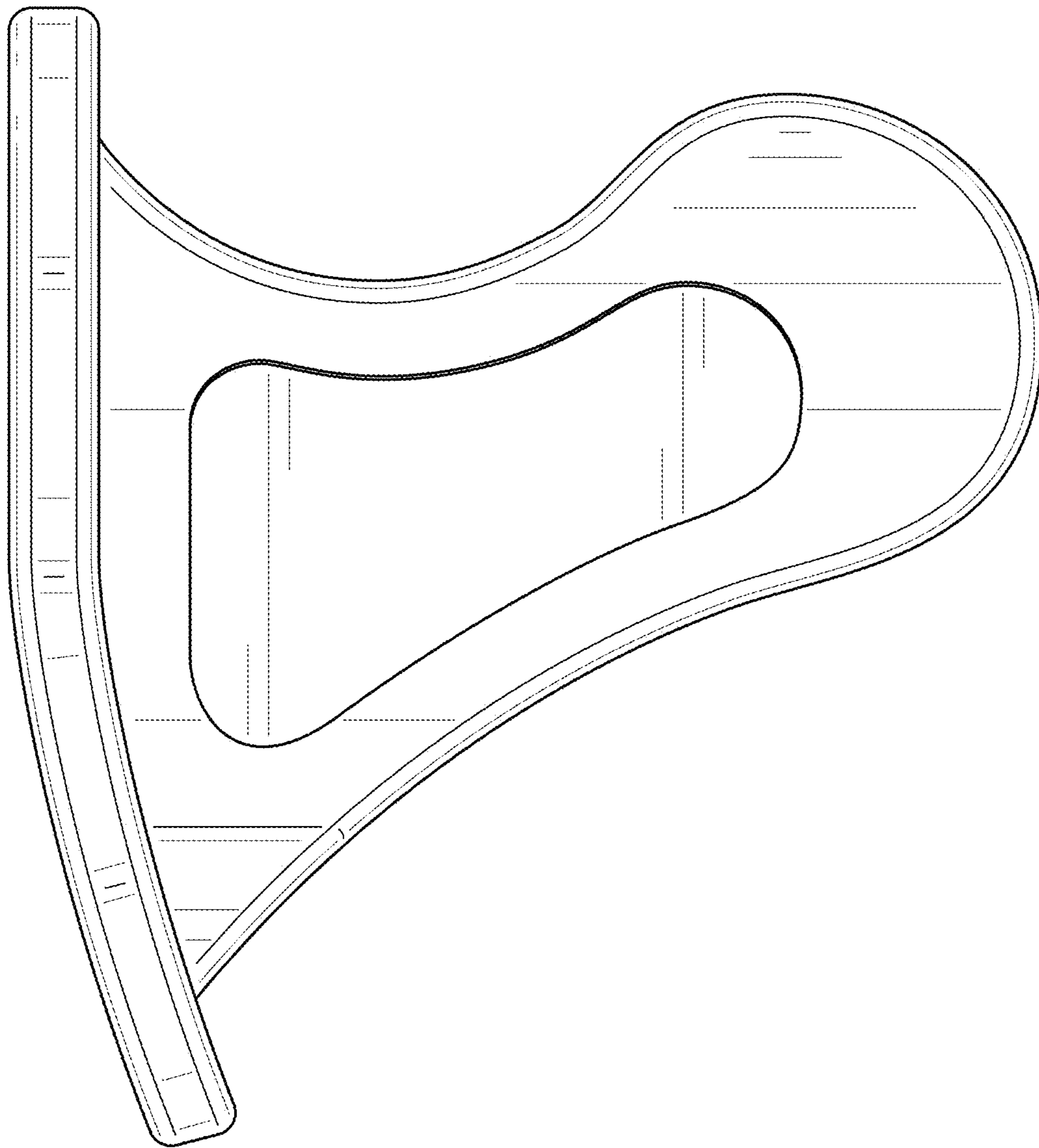


FIG. 4

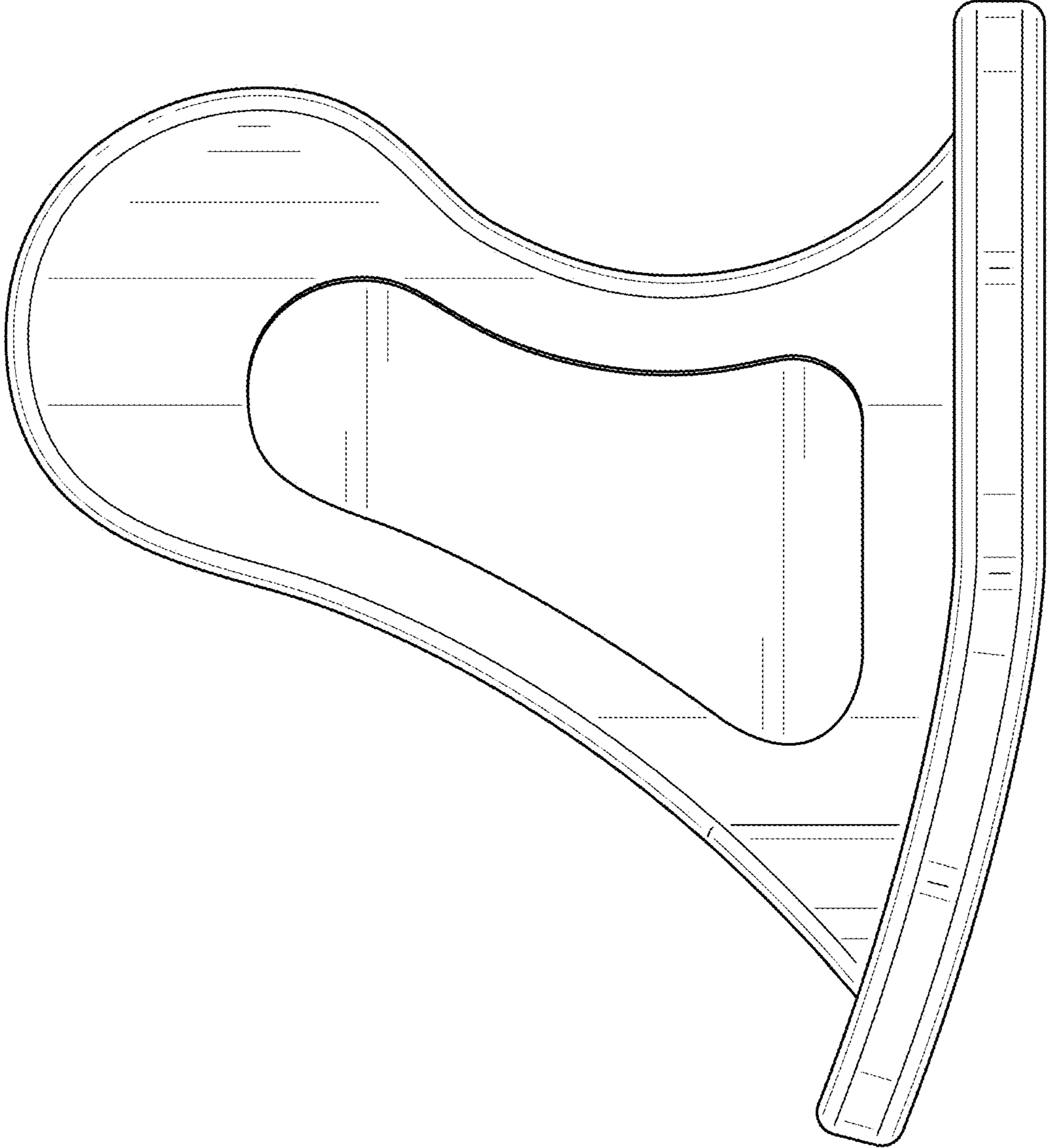


FIG. 5

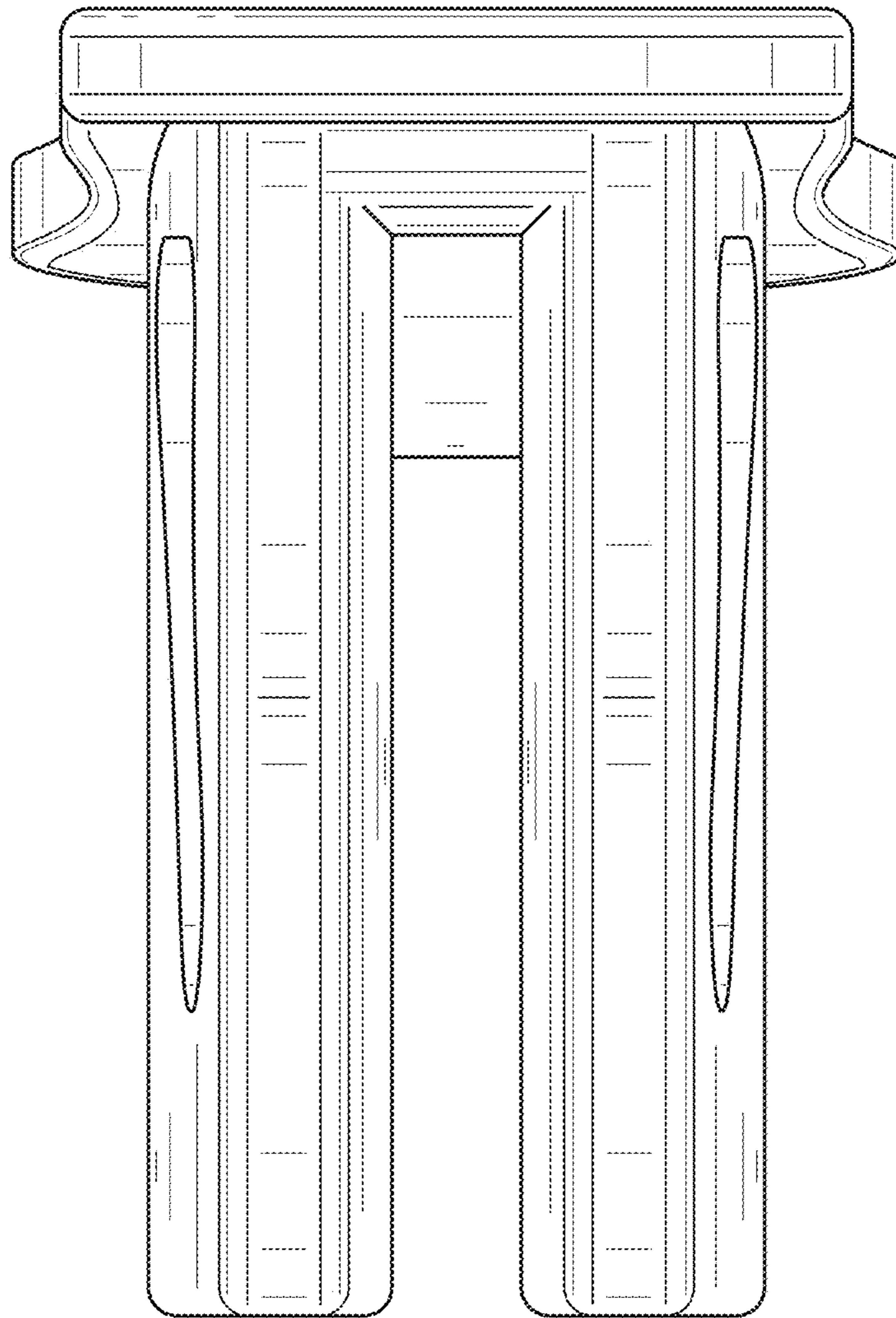


FIG. 6



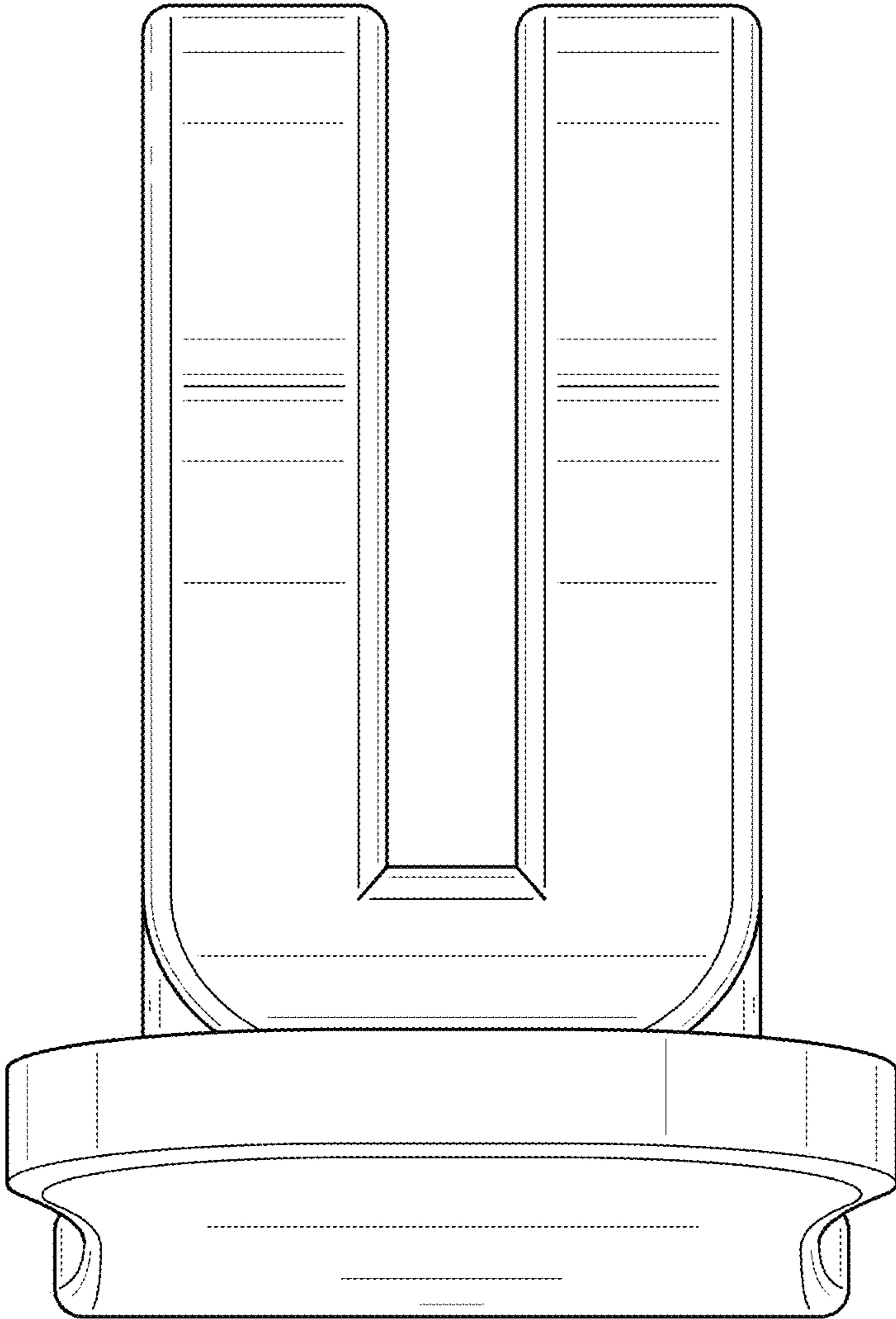


FIG. 7

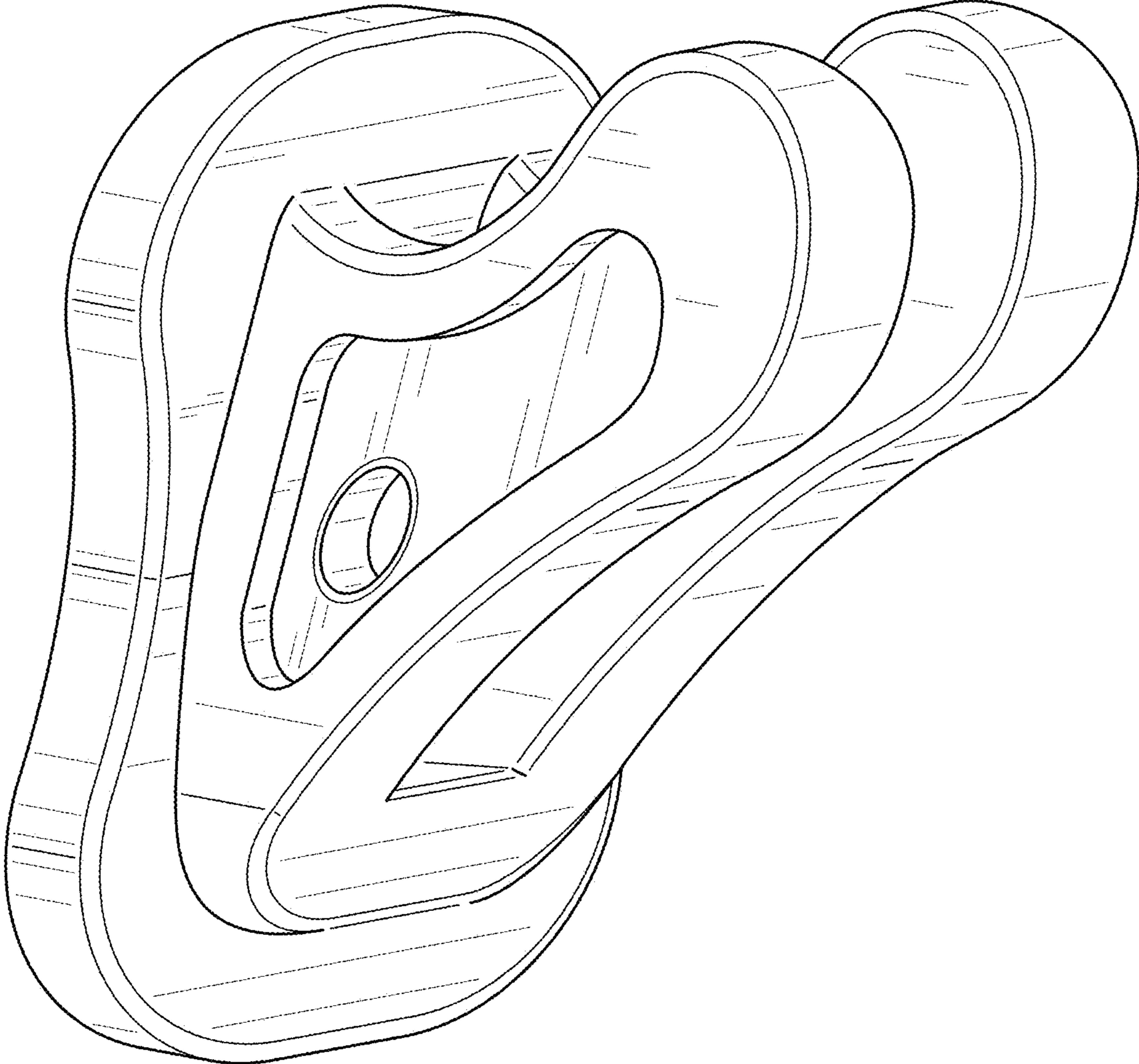


FIG. 8

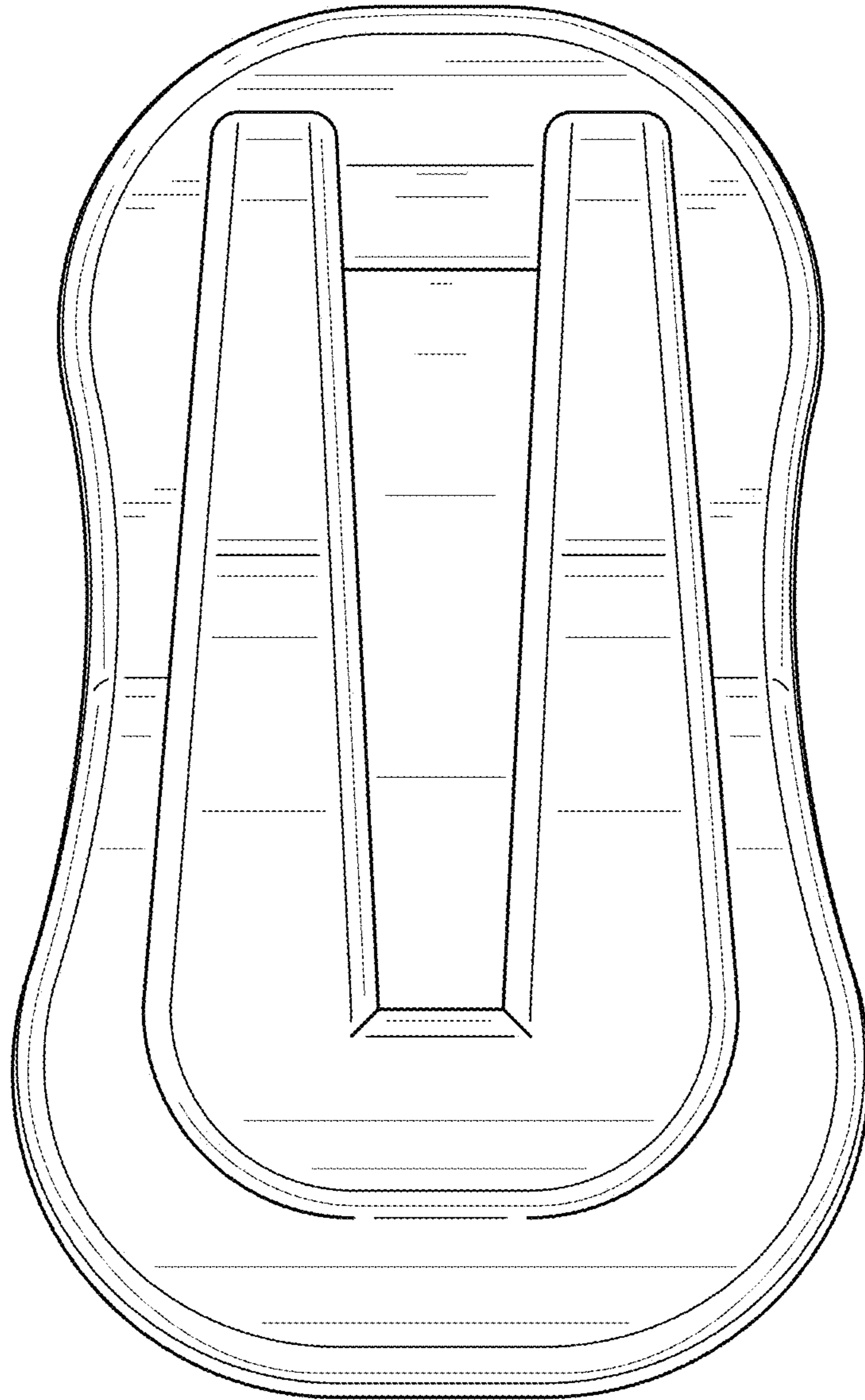


FIG. 9

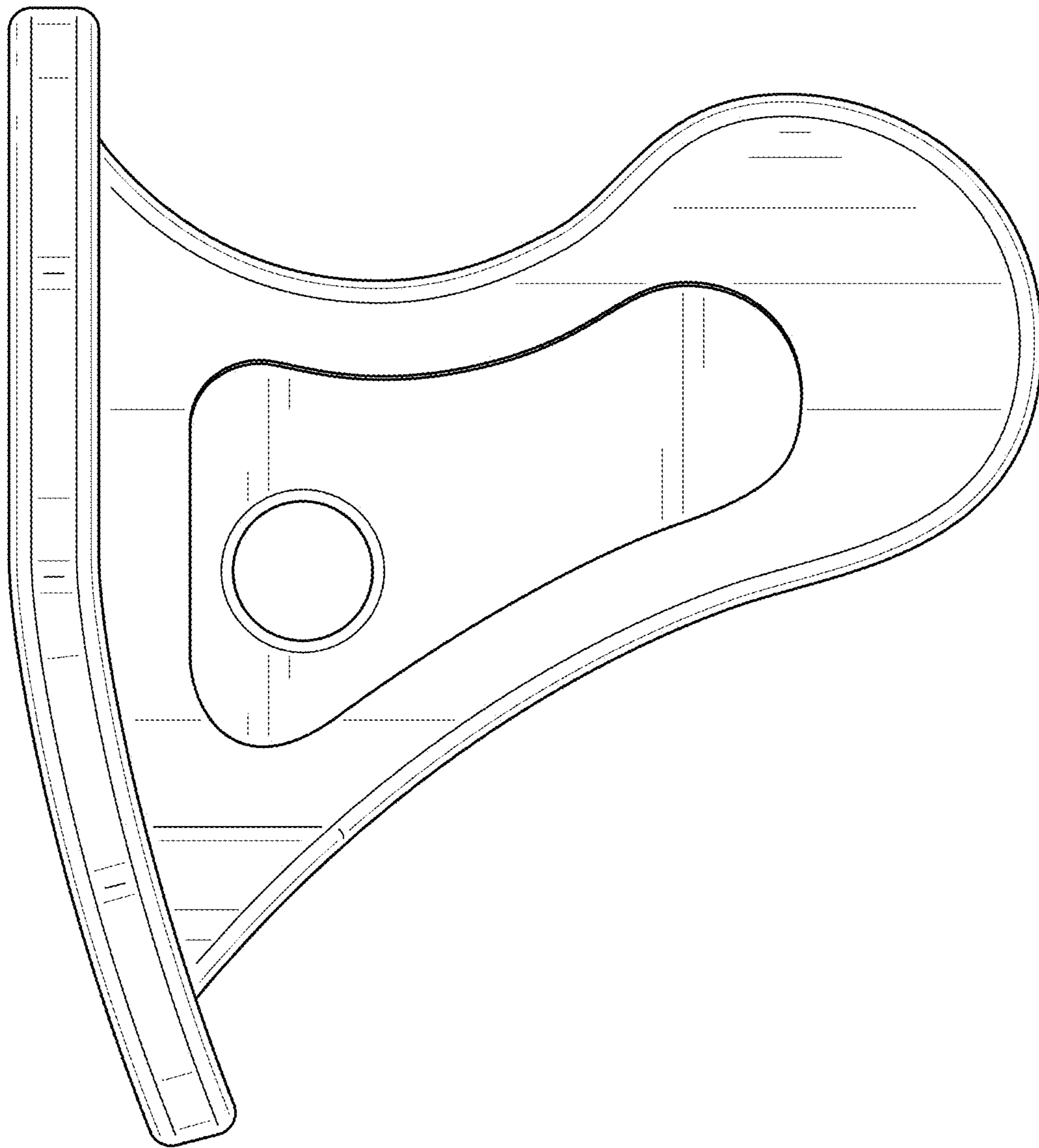


FIG. 10

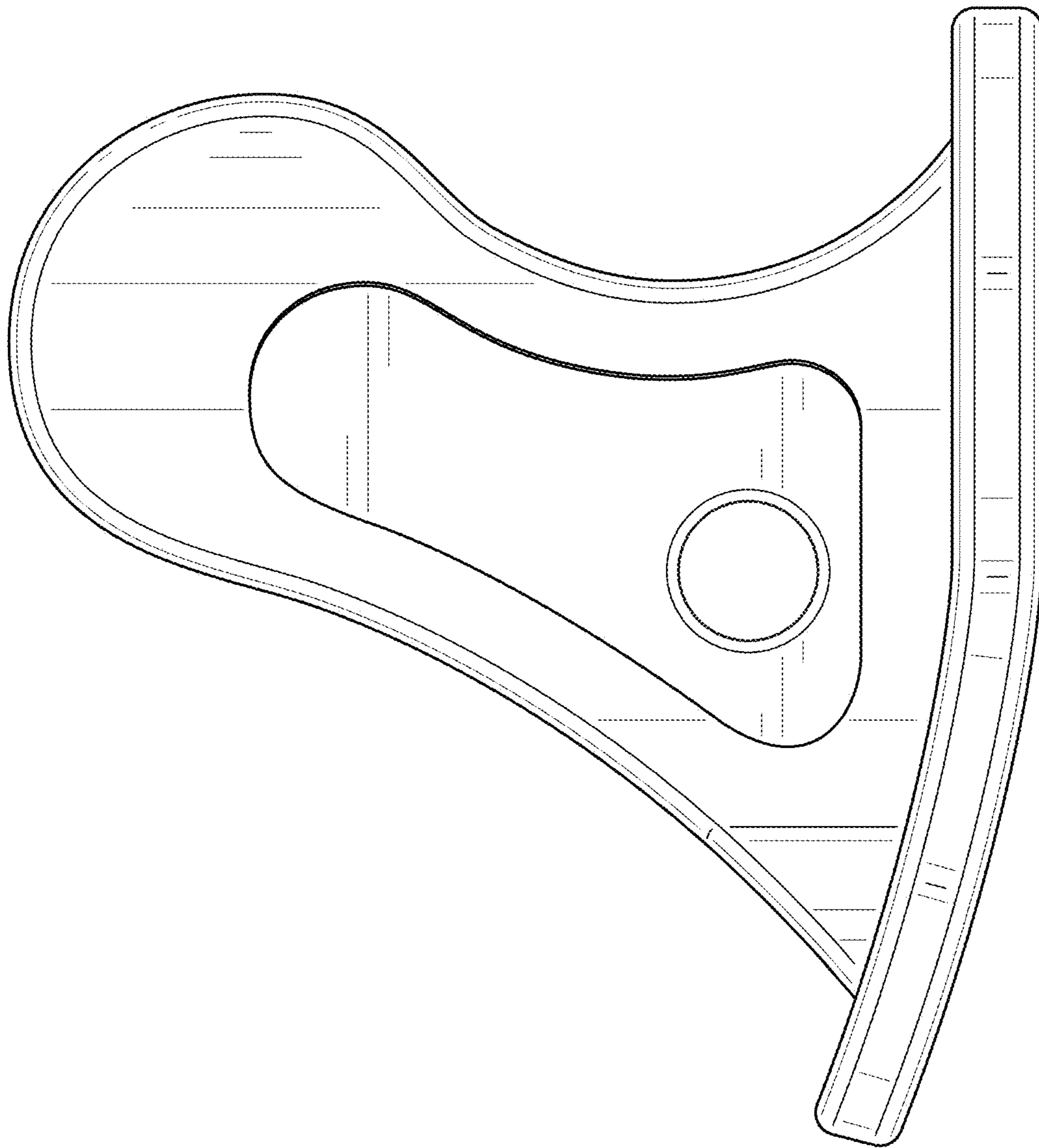


FIG. 11

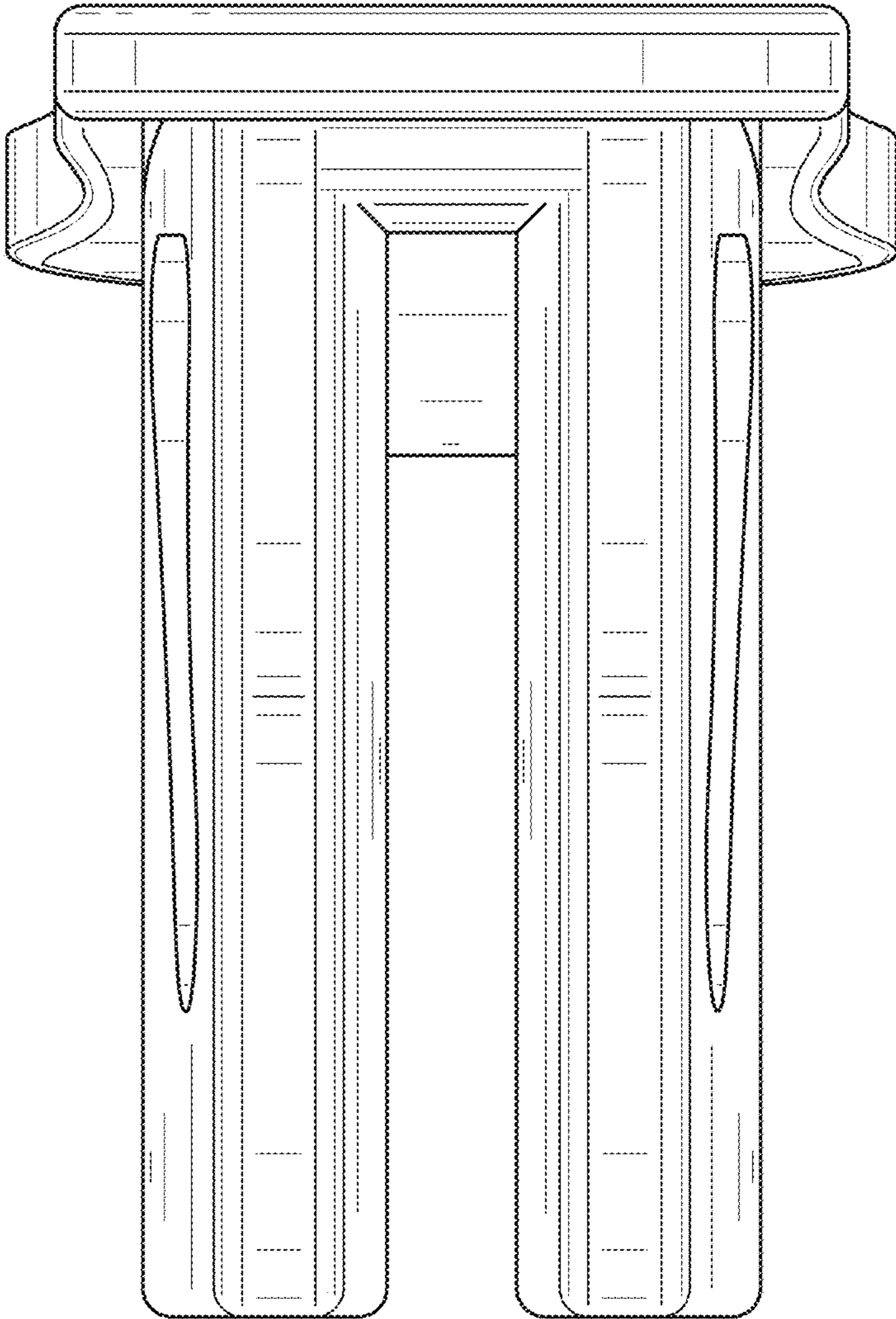


FIG. 12

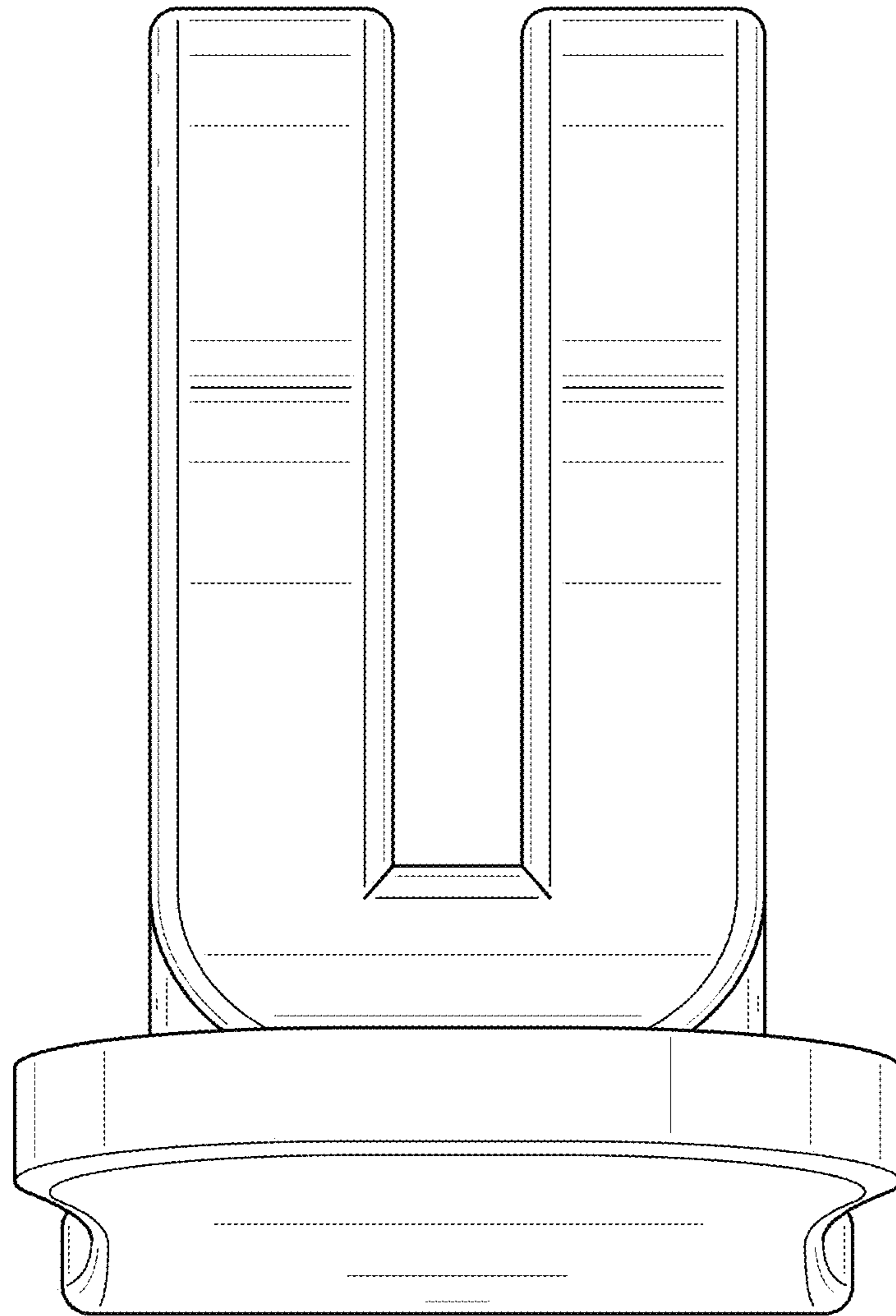


FIG. 13

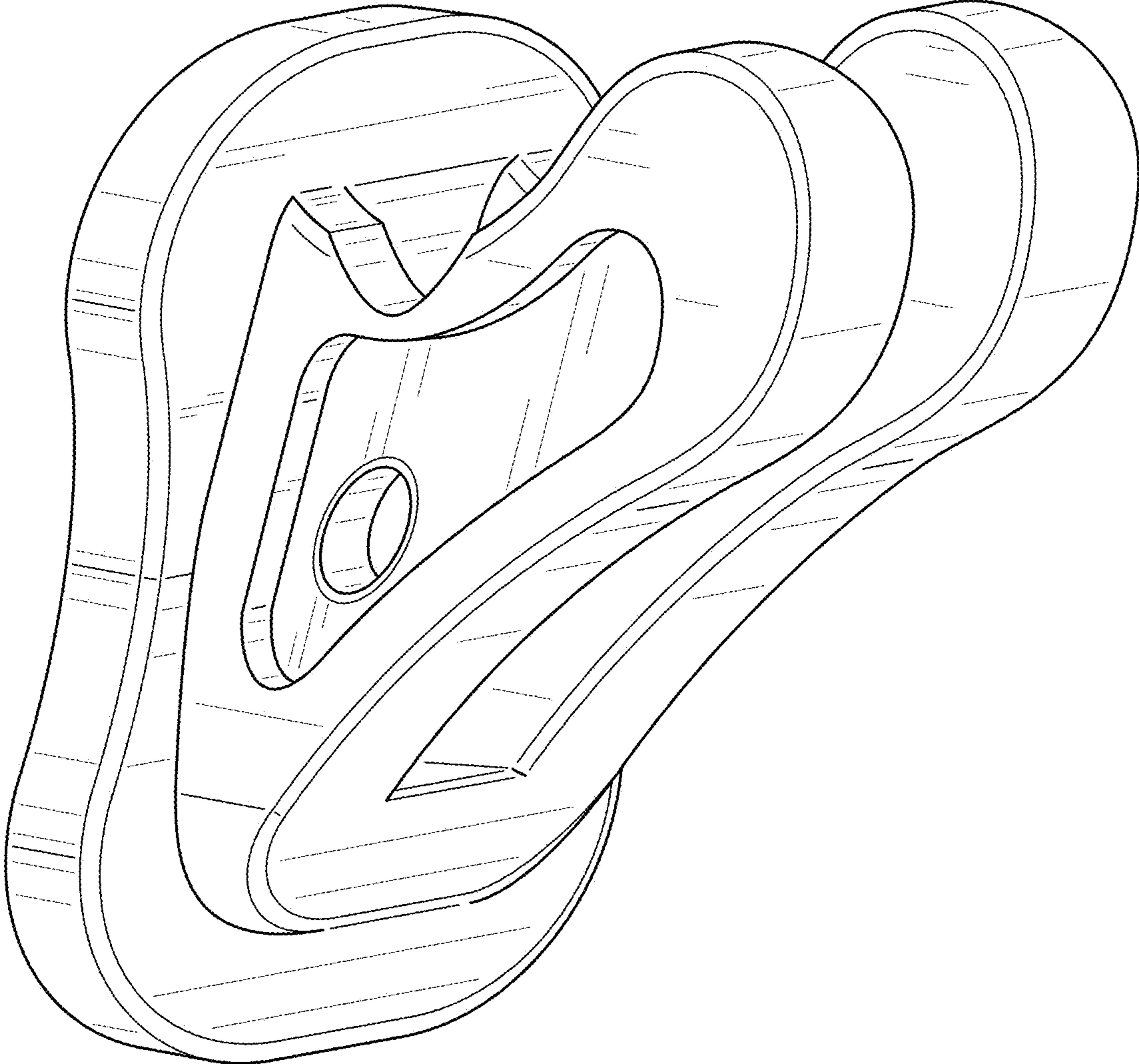


FIG. 14



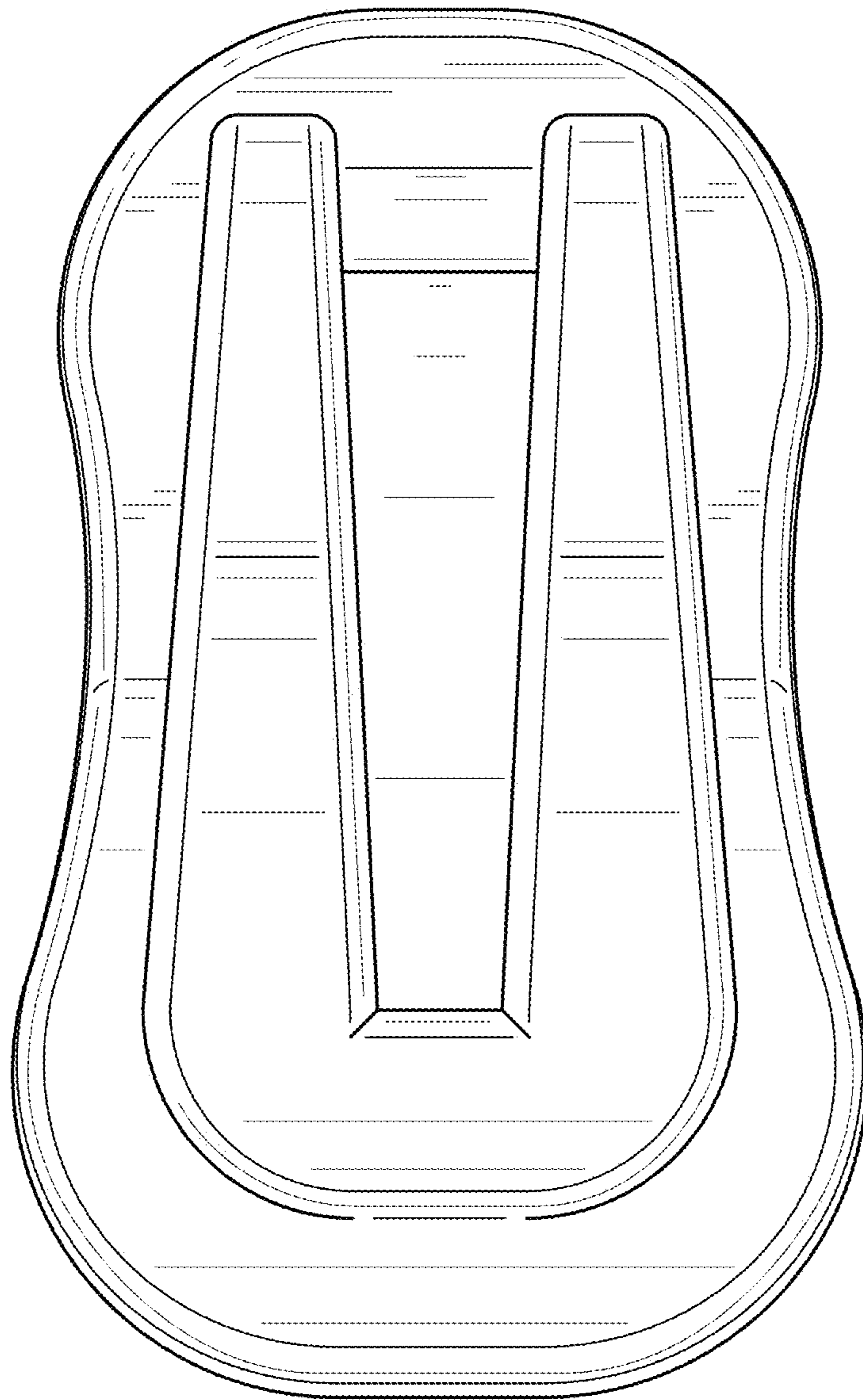


FIG. 15

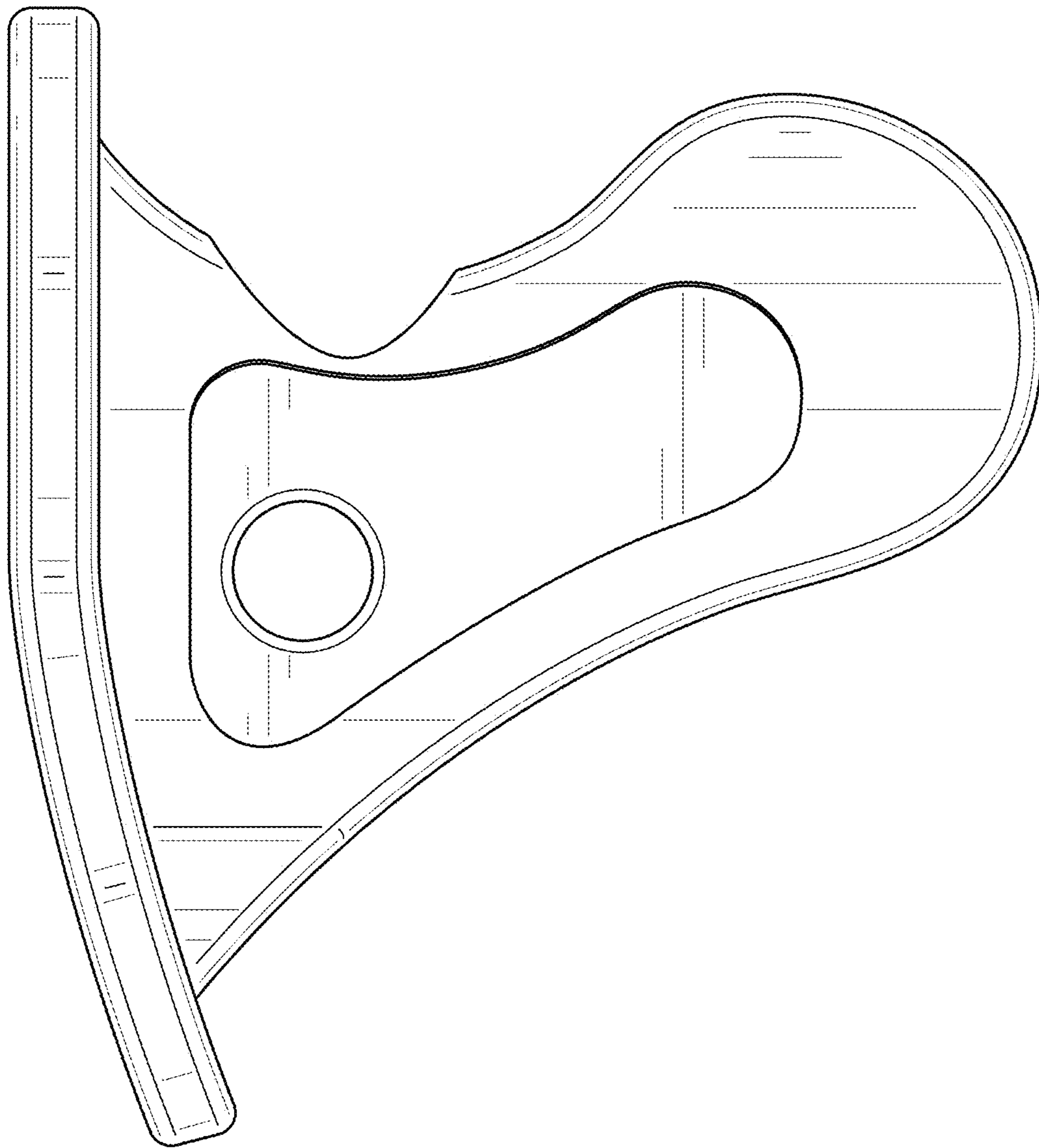


FIG. 16

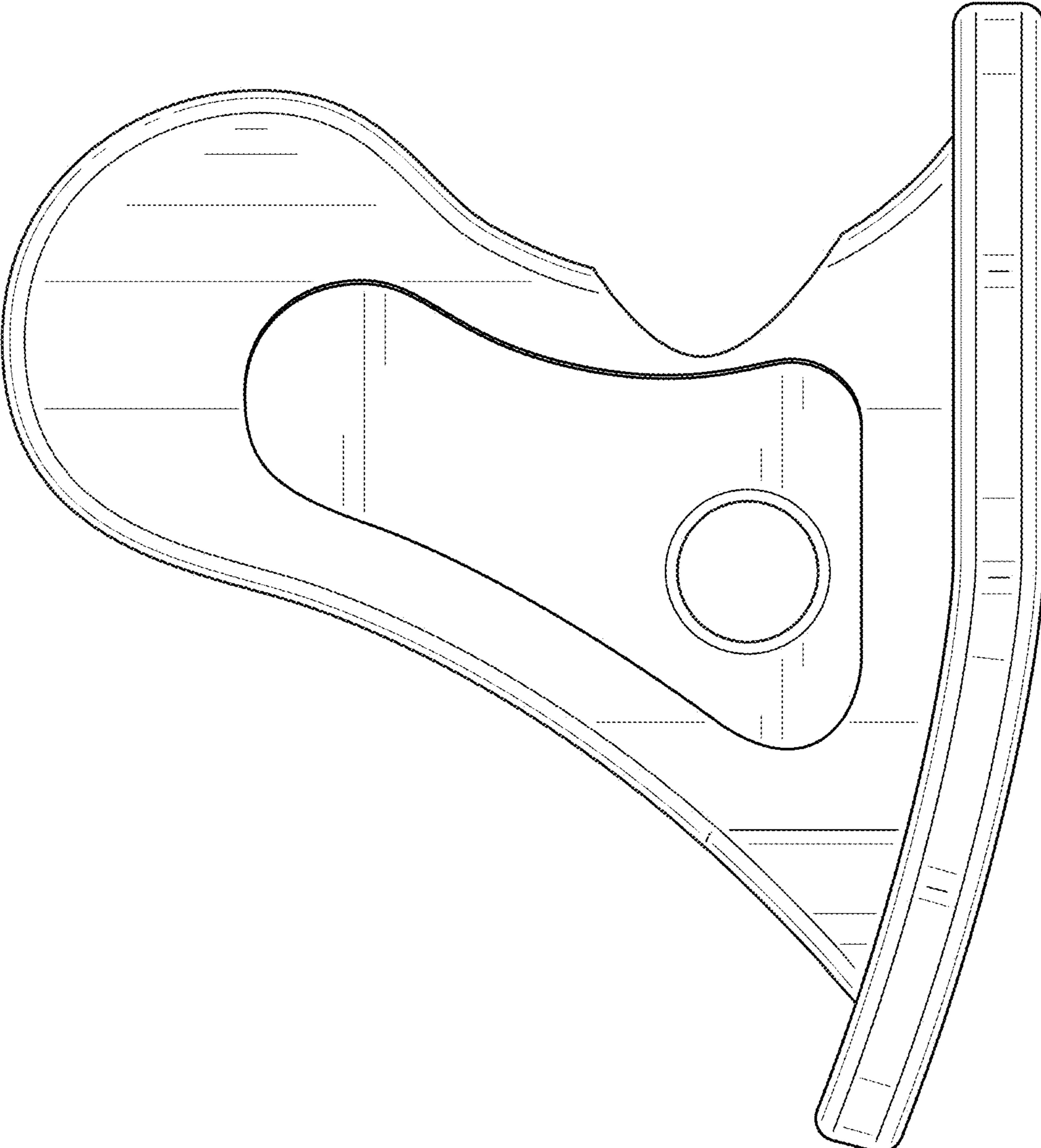


FIG. 17

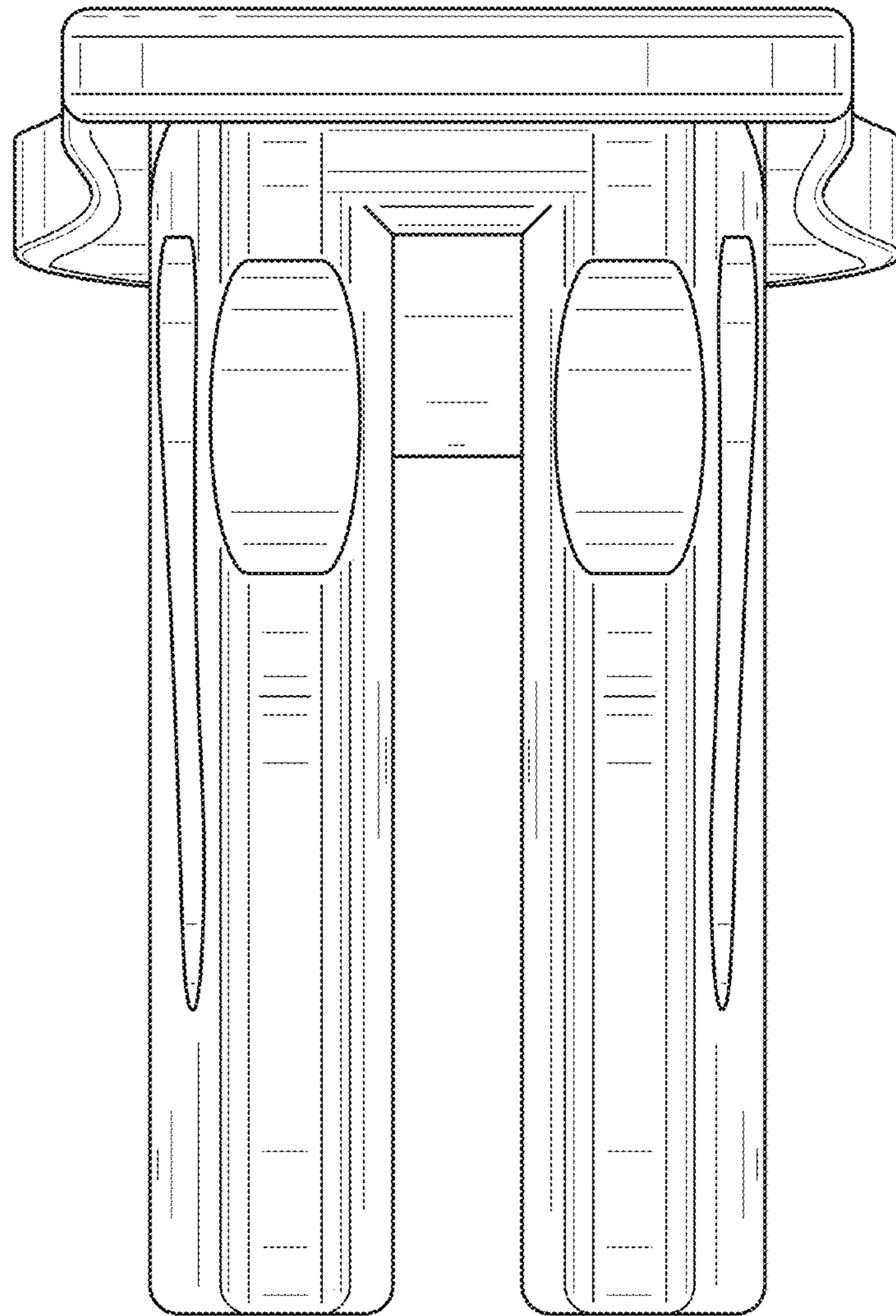


FIG. 18

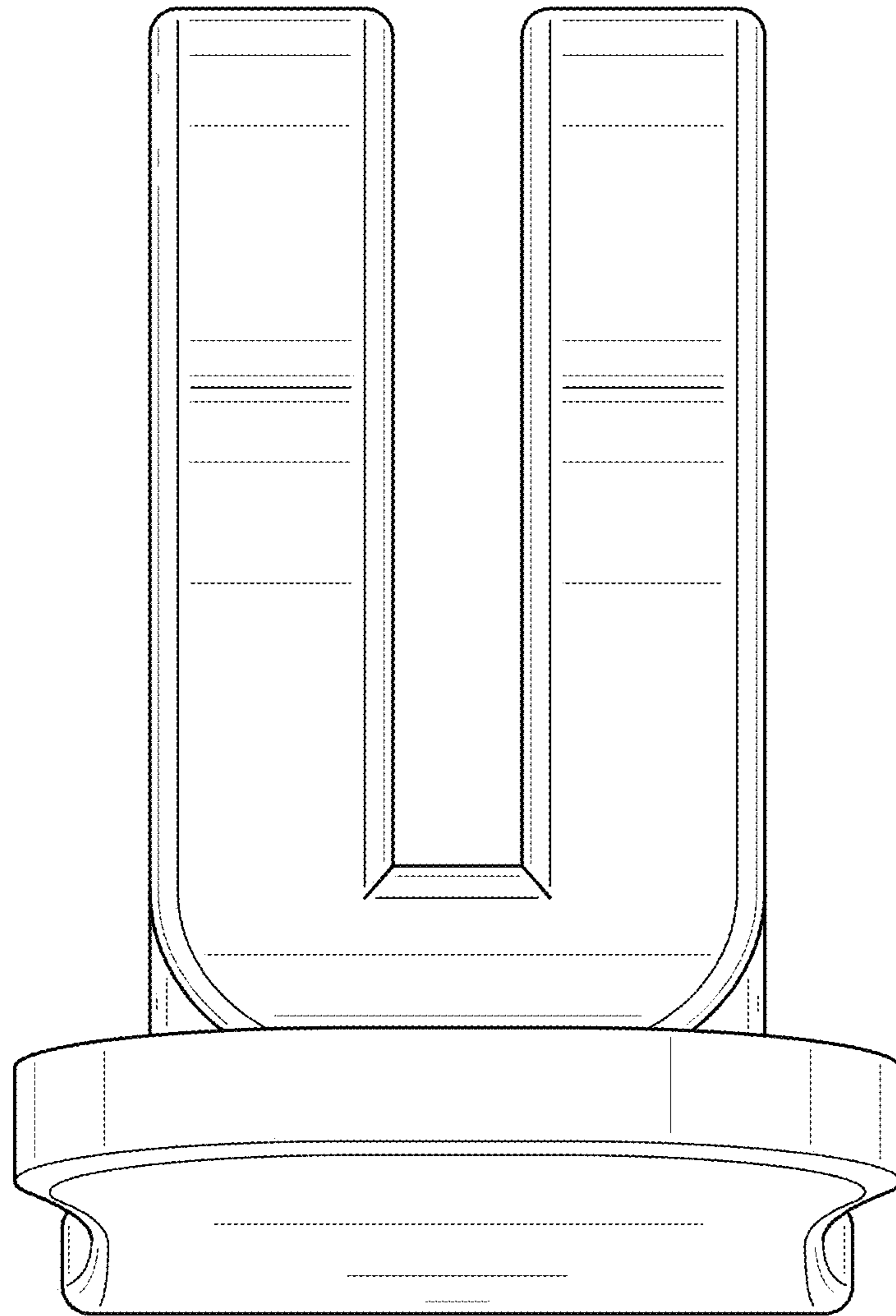


FIG. 19