



US00D763449S

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

(10) **Patent No.:** **US D763,449 S**

(45) **Date of Patent:** **** Aug. 9, 2016**

(54) **DENTAL MATRIX RING**

(71) Applicant: **Ultradent Products, Inc.**, South Jordan, UT (US)

(72) Inventors: **Scot N. Andersen**, Draper, UT (US); **Merry Suzanne Wilson**, Salt Lake City, UT (US); **Ryan G. Noel**, Saratoga Springs, UT (US); **Steve Peterson**, Spring Lake, MI (US); **Thomas Garrison**, Spring Lake, MI (US)

(73) Assignee: **Ultradent Products, Inc.**, South Jordan, UT (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/512,039**

(22) Filed: **Dec. 16, 2014**

(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/181**

(58) **Field of Classification Search**
USPC D24/107, 155–156, 176, 180–182
CPC A61C 5/125; A61C 5/127; A61C 5/12;
A61C 7/00; A61C 7/18
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

348,628 A 9/1886 Hewett
677,268 A 6/1901 Power

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0097266 5/1983
WO WO 2014/047029 3/2014

OTHER PUBLICATIONS

Image from www.dentismart.com, dated Jul. 7, 2015, p. 1 of attached PDF, showing SmartView Clip and SmartBand from CompositeSmart, LLC (via WayBack Machine).

(Continued)

Primary Examiner — Wan Laymon

(74) *Attorney, Agent, or Firm* — Maschoff Brennan

(57) **CLAIM**

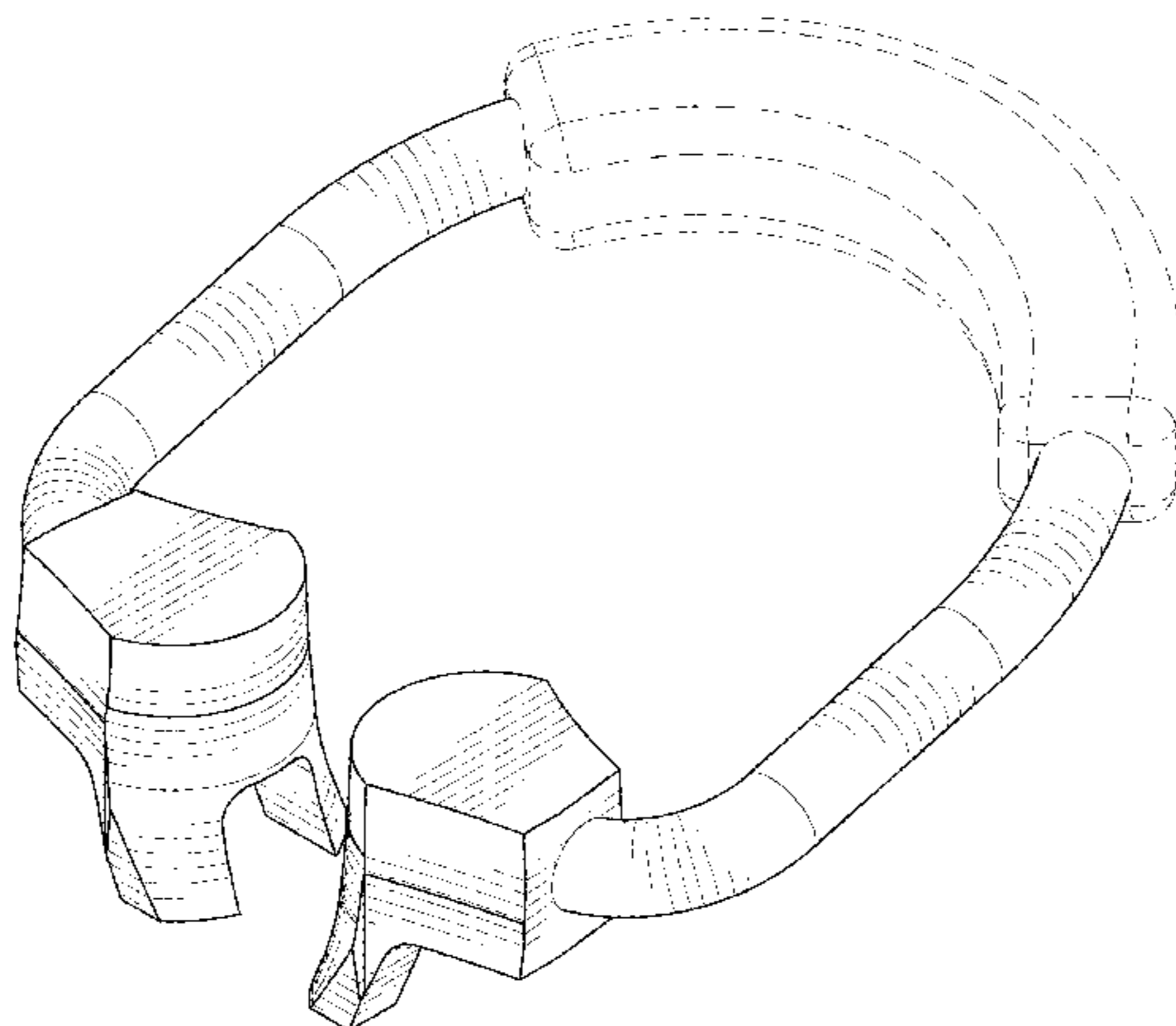
The ornamental design for a dental matrix ring, as shown and described.

DESCRIPTION

FIG. 1 is a upper perspective view of an exemplary embodiment of a dental matrix ring;
FIG. 2 is a front view of the dental matrix ring shown in FIG. 1;
FIG. 3 is a rear view of the dental matrix ring shown in FIG. 1;
FIG. 4 is a top view of the dental matrix ring shown in FIG. 1;
FIG. 5 is a bottom view of the dental matrix ring shown in FIG. 1;
FIG. 6 is a left side view of the dental matrix ring shown in FIG. 1;
FIG. 7 is a right side view of the dental matrix ring; shown in FIG. 1;
FIG. 8 is a upper perspective view of another exemplary embodiment of a dental matrix ring;
FIG. 9 is a front view of the dental matrix ring shown in FIG. 8;
FIG. 10 is a rear view of the dental matrix ring shown in FIG. 8;
FIG. 11 is a top view of the dental matrix ring shown in FIG. 8;
FIG. 12 is a bottom view of the dental matrix ring shown in FIG. 8;
FIG. 13 is a left side view of the dental matrix ring shown in FIG. 8; and,
FIG. 14 is a right side view of the dental matrix ring; shown in FIG. 8.

The broken lines shown in the figures represent portions of the dental matrix ring that form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

| | | | | |
|--------------|------|---------|-----------------|-----------------------------|
| 2,651,841 | A | 9/1953 | Peterson | |
| 4,718,852 | A | 1/1988 | Galler | |
| 5,607,302 | A | 3/1997 | Garrison et al. | |
| 6,206,697 | B1 | 3/2001 | Hugo | |
| 6,220,858 | B1 | 4/2001 | McKenna et al. | |
| 6,293,796 | B1 | 9/2001 | Trom et al. | |
| 6,325,625 | B1 | 12/2001 | Meyer | |
| 6,336,810 | B1 | 1/2002 | Bertoletti | |
| 6,589,053 | B2 | 7/2003 | Bills | |
| 7,077,651 | B2 | 7/2006 | Anderson | |
| 7,175,432 | B2 * | 2/2007 | McDonald | A61C 5/127 433/139 |
| 7,284,983 | B2 | 10/2007 | McDonald | |
| D604,854 | S | 11/2009 | McDonald | |
| 8,029,281 | B2 | 10/2011 | Ho | |
| 8,529,258 | B2 | 9/2013 | Doenges et al. | |
| D747,809 | S * | 1/2016 | Anderson | D24/181 |
| 2005/0118554 | A1 | 6/2005 | Kilcher et al. | |
| 2013/0252198 | A1 | 9/2013 | Boos et al. | |
| 2013/0252199 | A1 | 9/2013 | Clark | |
| 2013/0344455 | A1 | 12/2013 | Hull et al. | |
| 2014/0242544 | A1 | 8/2014 | Anderson et al. | |
| 2015/0216625 | A1 * | 8/2015 | McDonald | A61C 5/125 433/155 |

OTHER PUBLICATIONS

Image from www.dentismart.com, dated Feb. 14, 2015, p. 2 of attached PDF, showing SmartView Clip from CompositeSmart, LLC (via WayBack Machine).

Image from www.dentismart.com, dated Feb. 14, 2015, p. 3 of attached PDF, showing partial view of SmartView Clip from CompositeSmart, LLC (via WayBack Machine).

Image from www.dentismart.com, dated Sep. 3, 2014, p. 4 of attached PDF, showing SmartView Clips from CompositeSmart, LLC (via WayBack Machine).

Image from www.dentismart.com, dated Jul. 7, 2015, p. 16 of attached PDF, showing SmartBand from CompositeSmart, LLC (via WayBack Machine).

Image from www.dentismart.com, dated Jul. 7, 2015, p. 17 of attached PDF, showing SmartBand from CompositeSmart, LLC (via WayBack Machine).

Image from www.dentismart.com, dated Jul. 17, 2013, p. 18 of attached PDF, showing coated SmartBands from CompositeSmart, LLC (via WayBack Machine).

Image from www.dentismart.com, dated Sep. 2, 2014, p. 19 of attached PDF, showing uncoated SmartBands from CompositeSmart, LLC (via WayBack Machine).

Image from www.dentismart.com dated Sep. 3, 2014, p. 20 of attached PDF, showing assortment of coated SmartBands from CompositeSmart, LLC (via WayBack Machine).

* cited by examiner

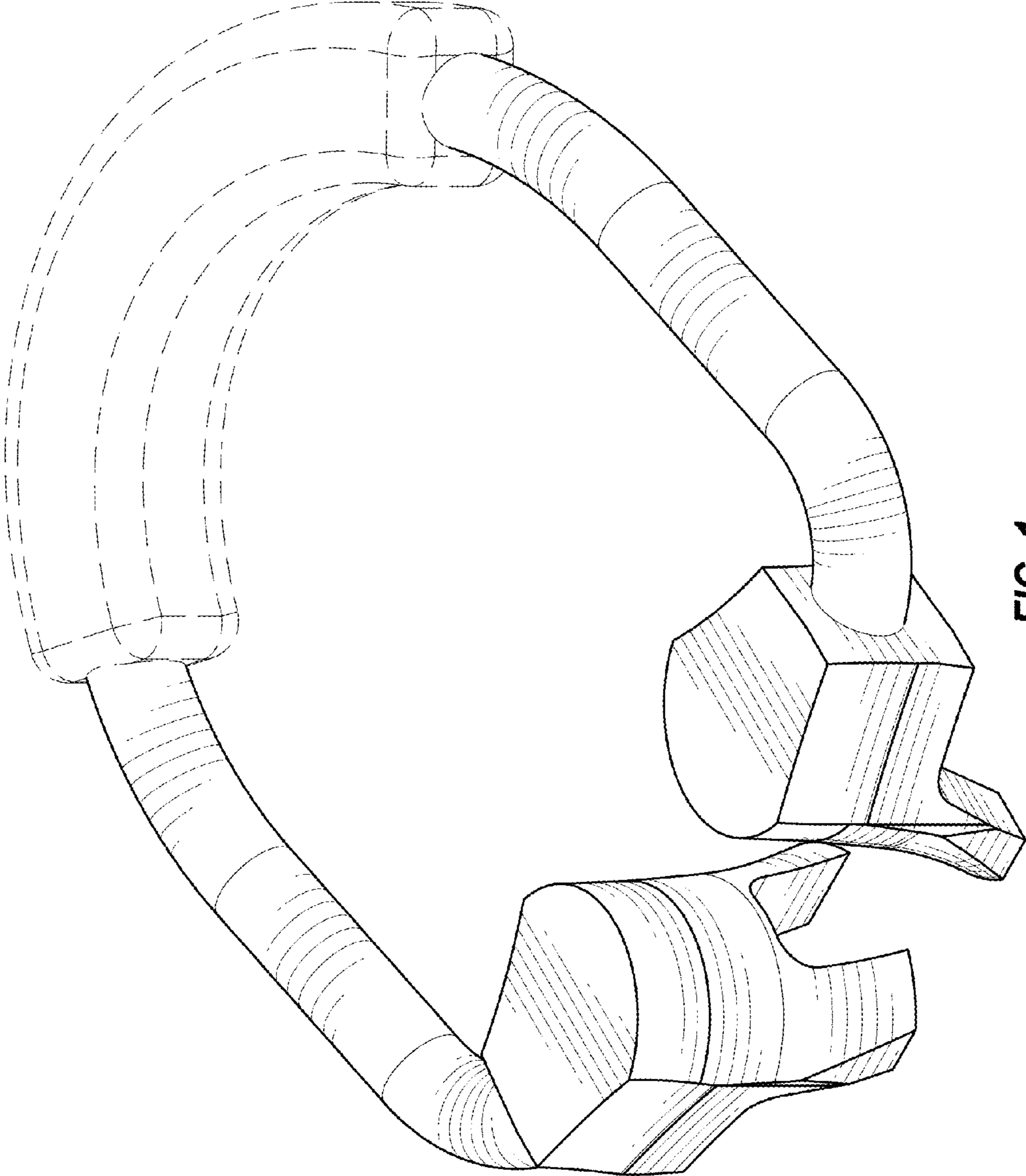


FIG. 1

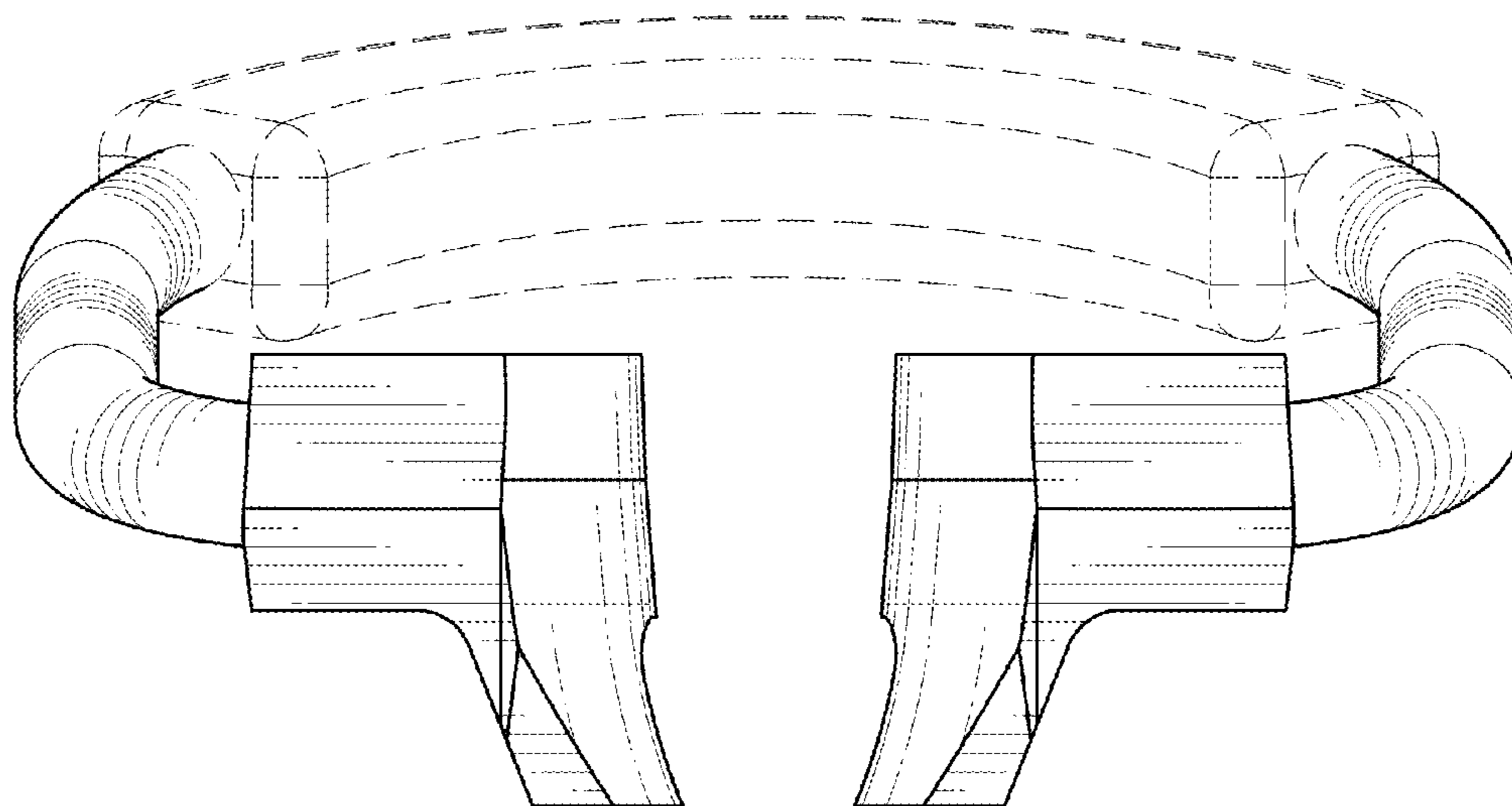


FIG. 2

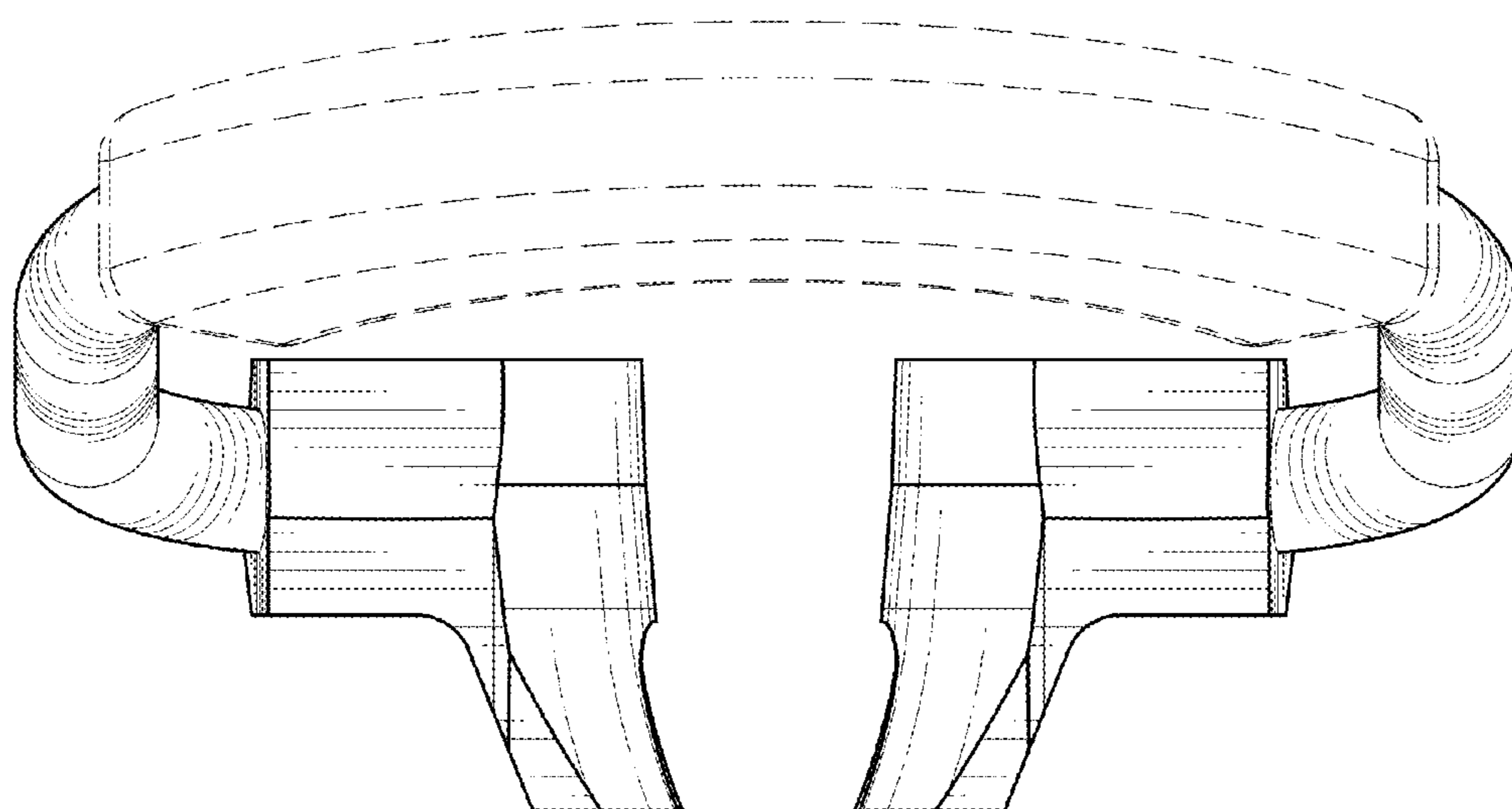


FIG. 3

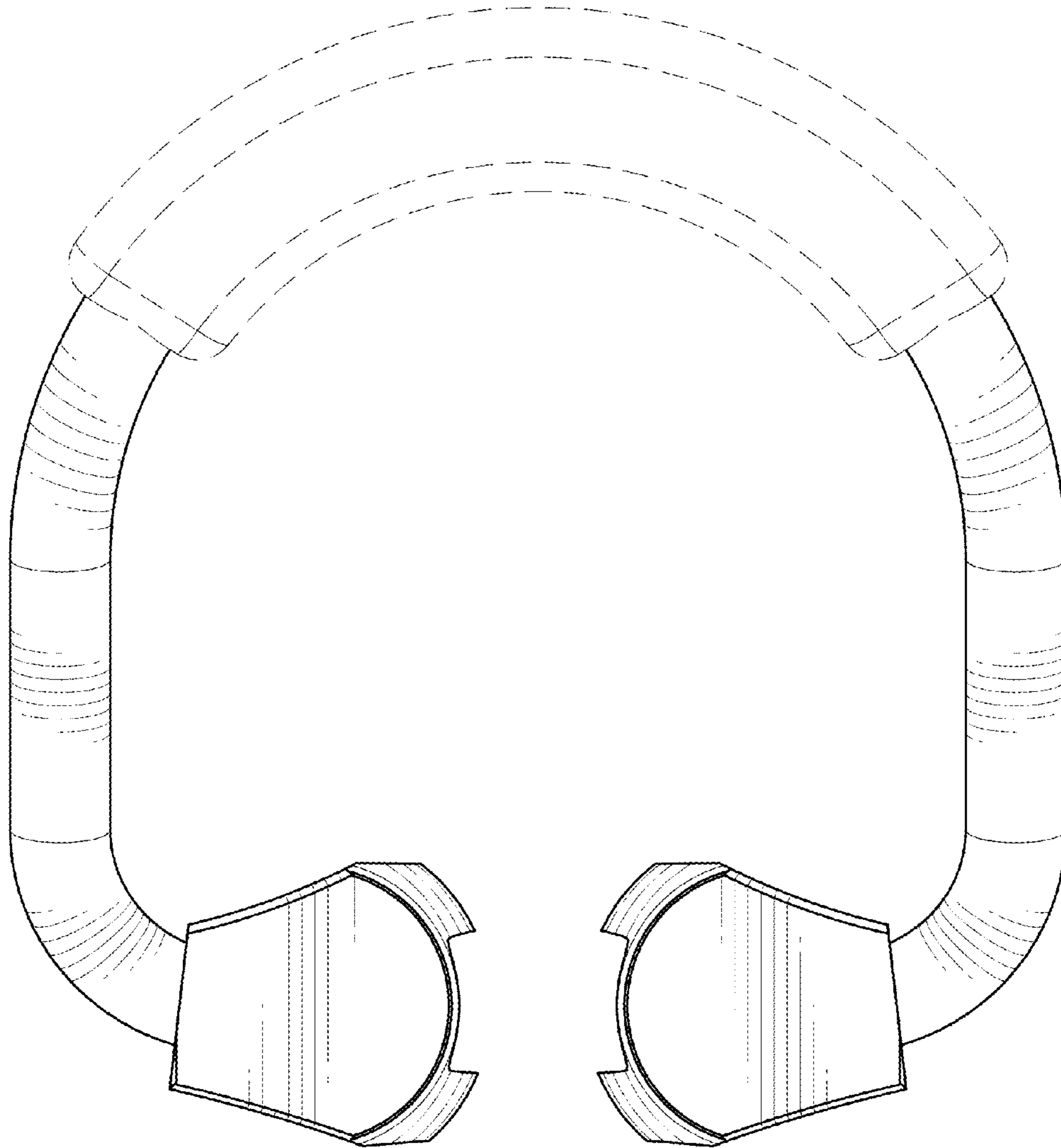


FIG. 4

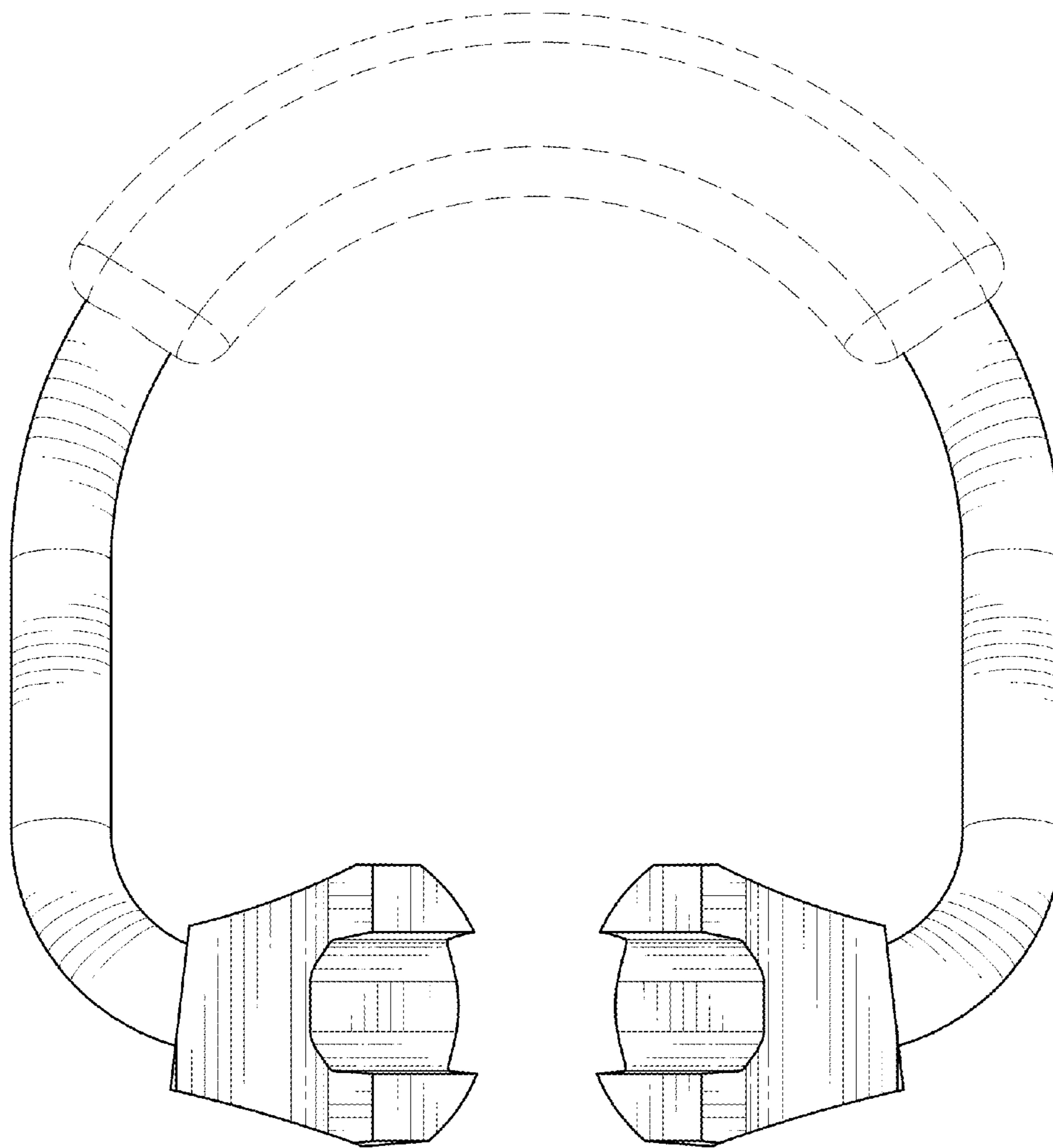


FIG. 5

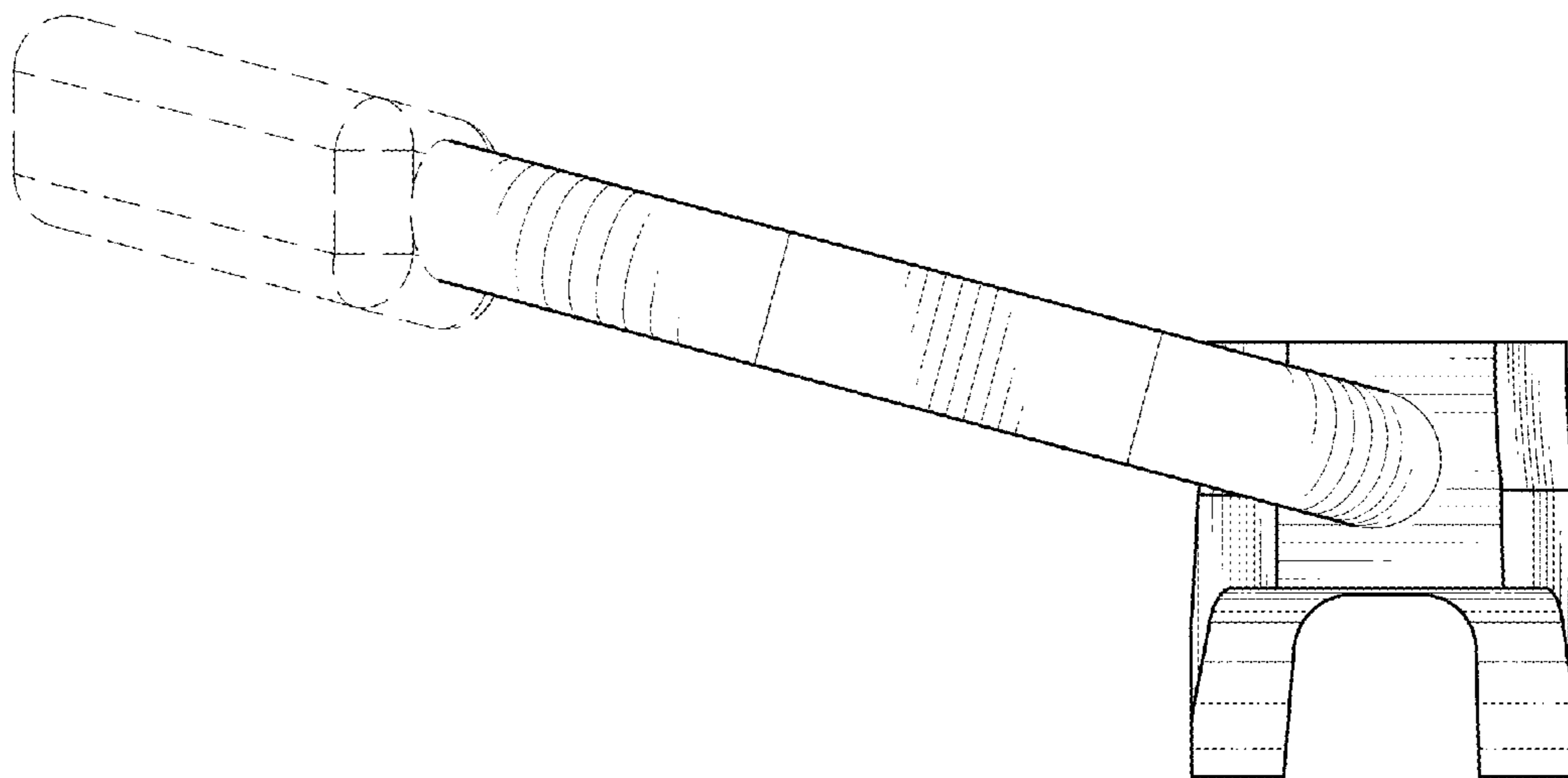


FIG. 6

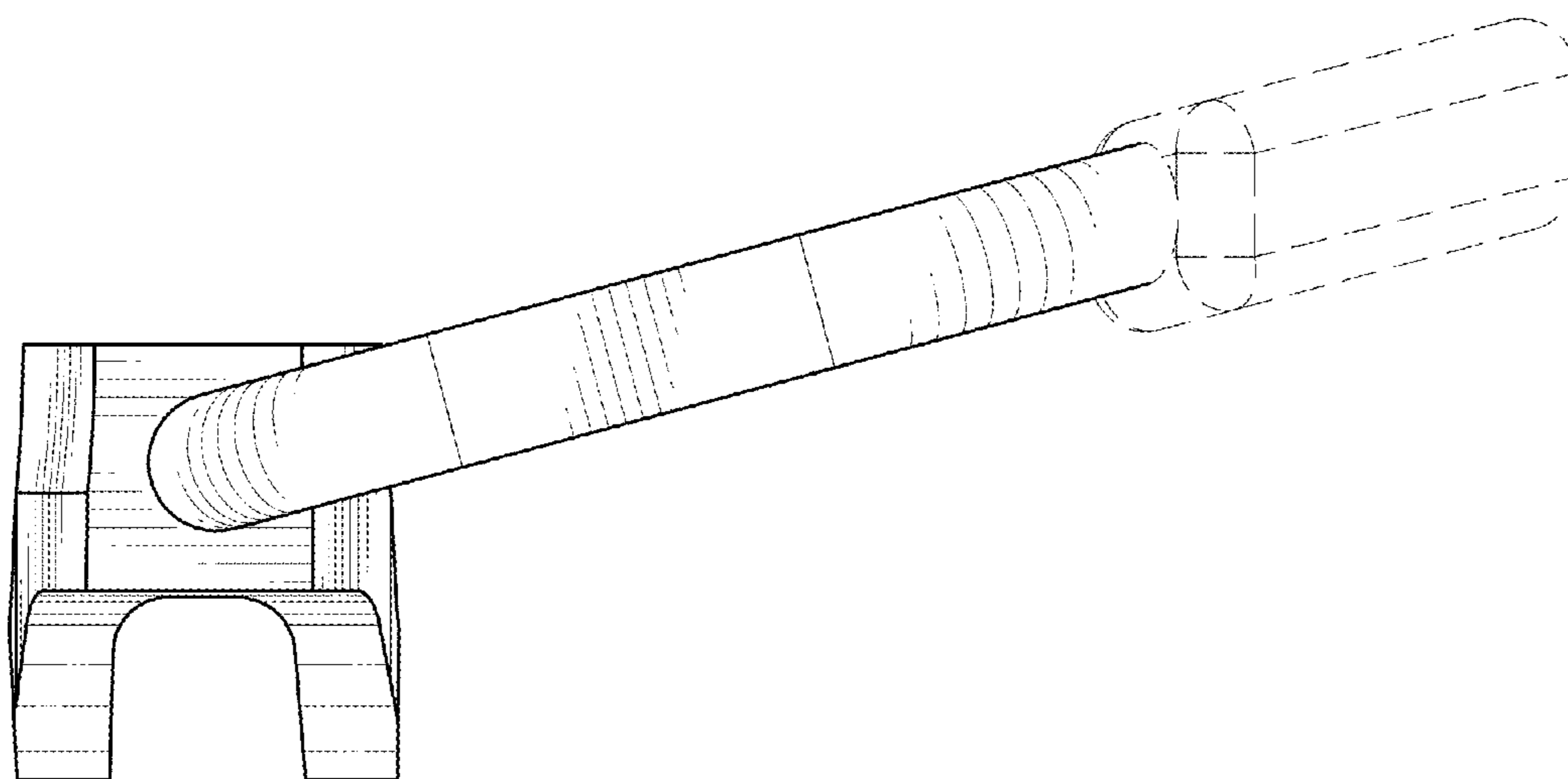


FIG. 7

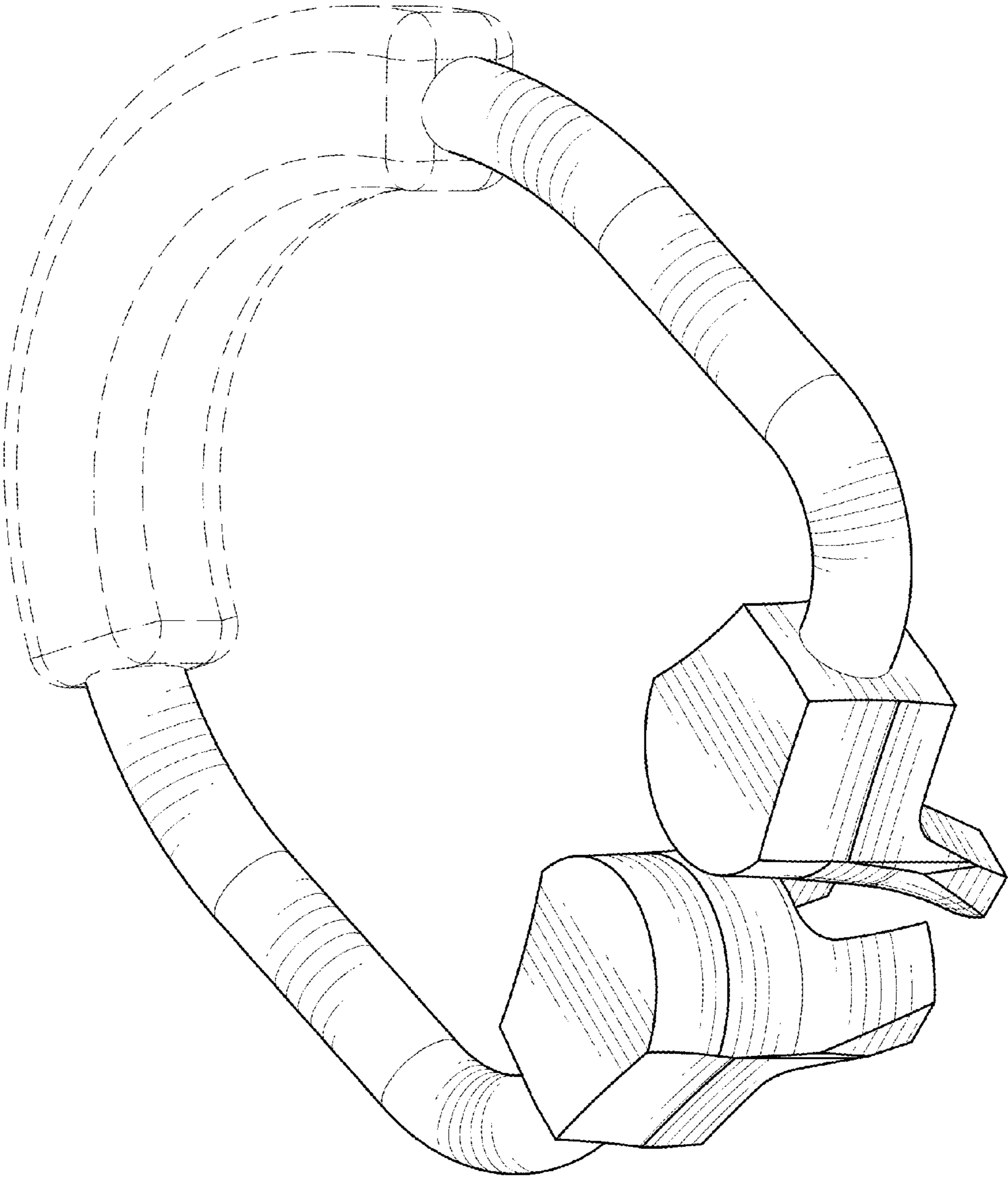


FIG. 8

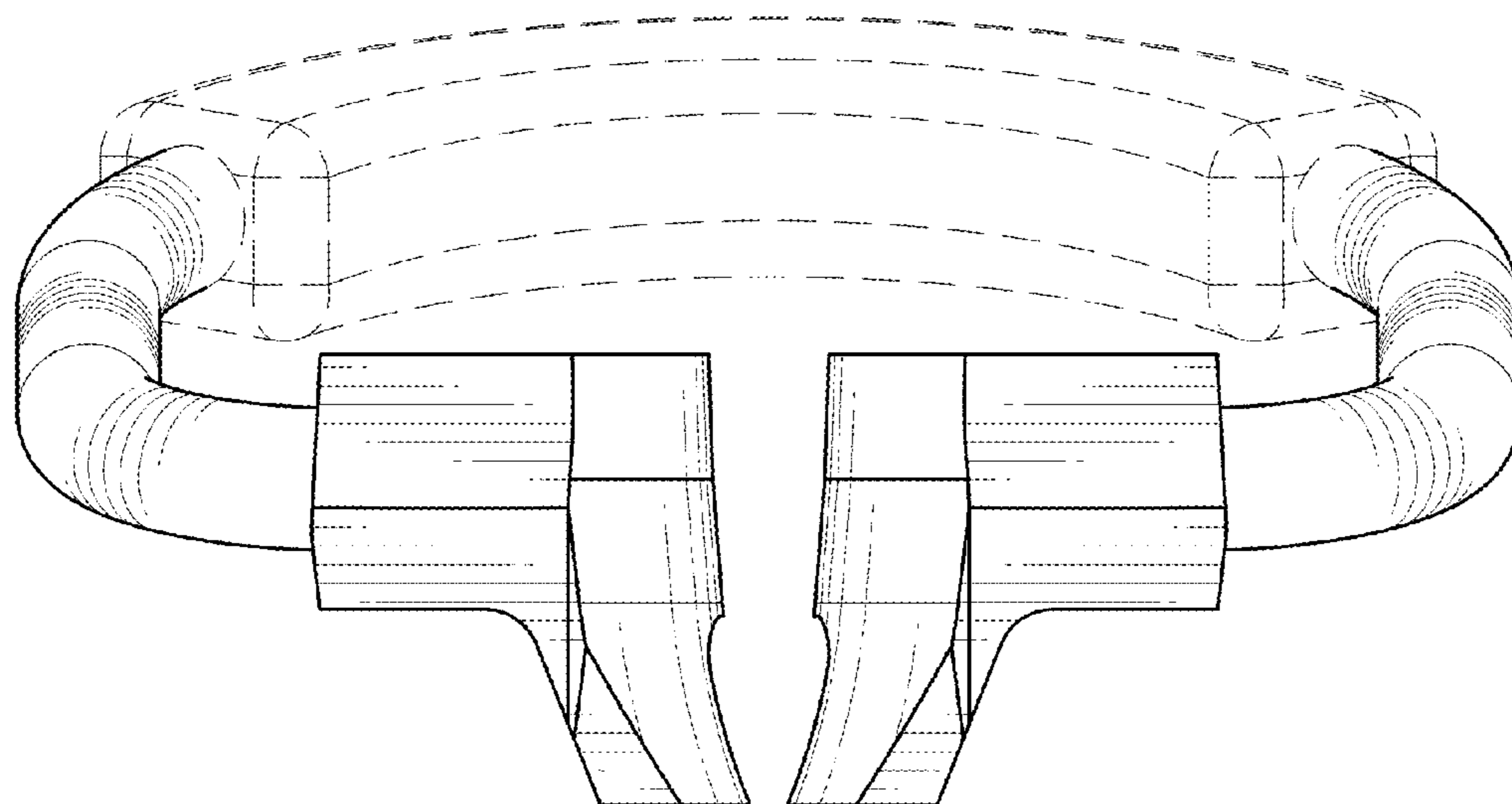


FIG. 9

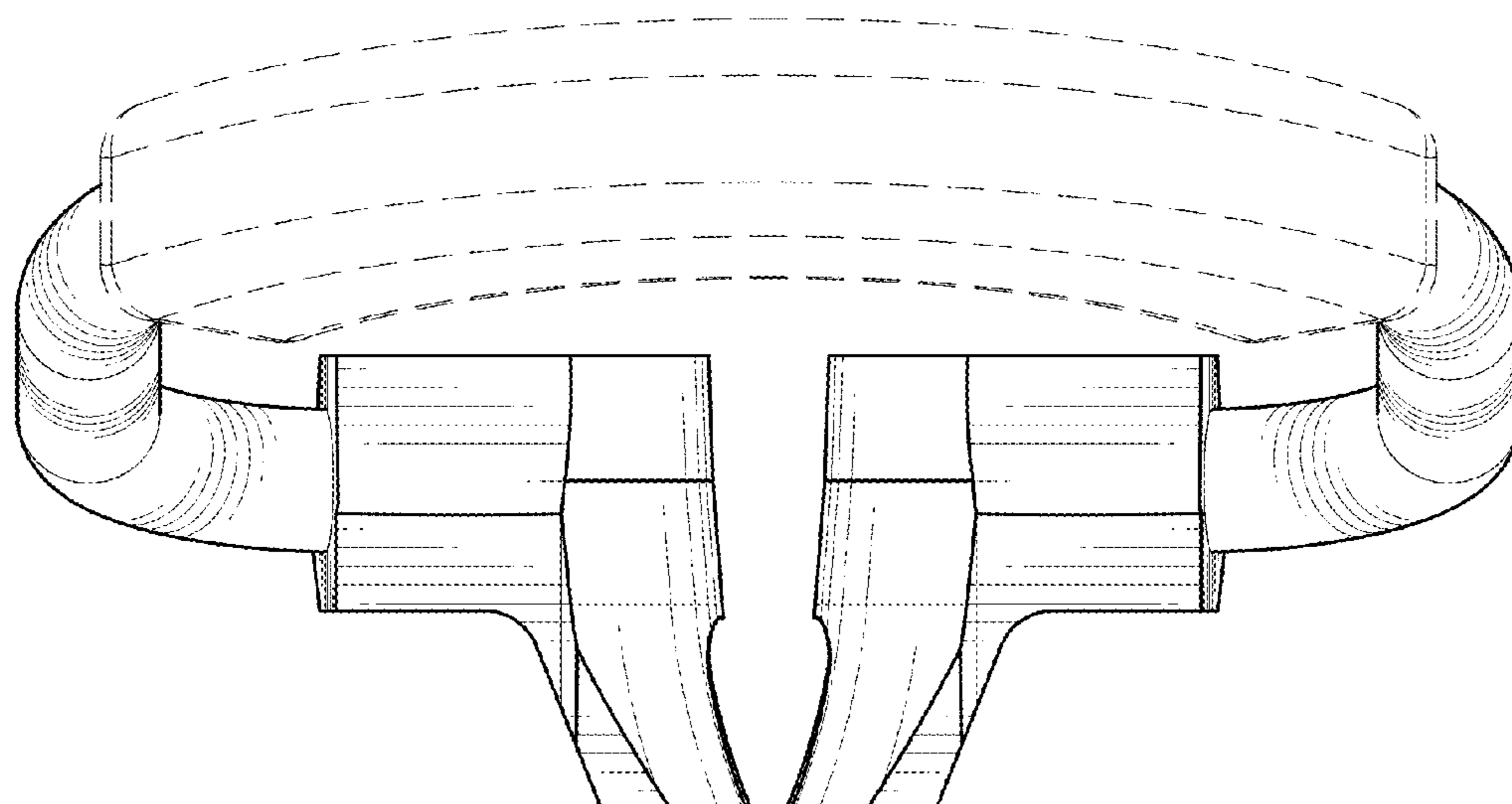


FIG. 10

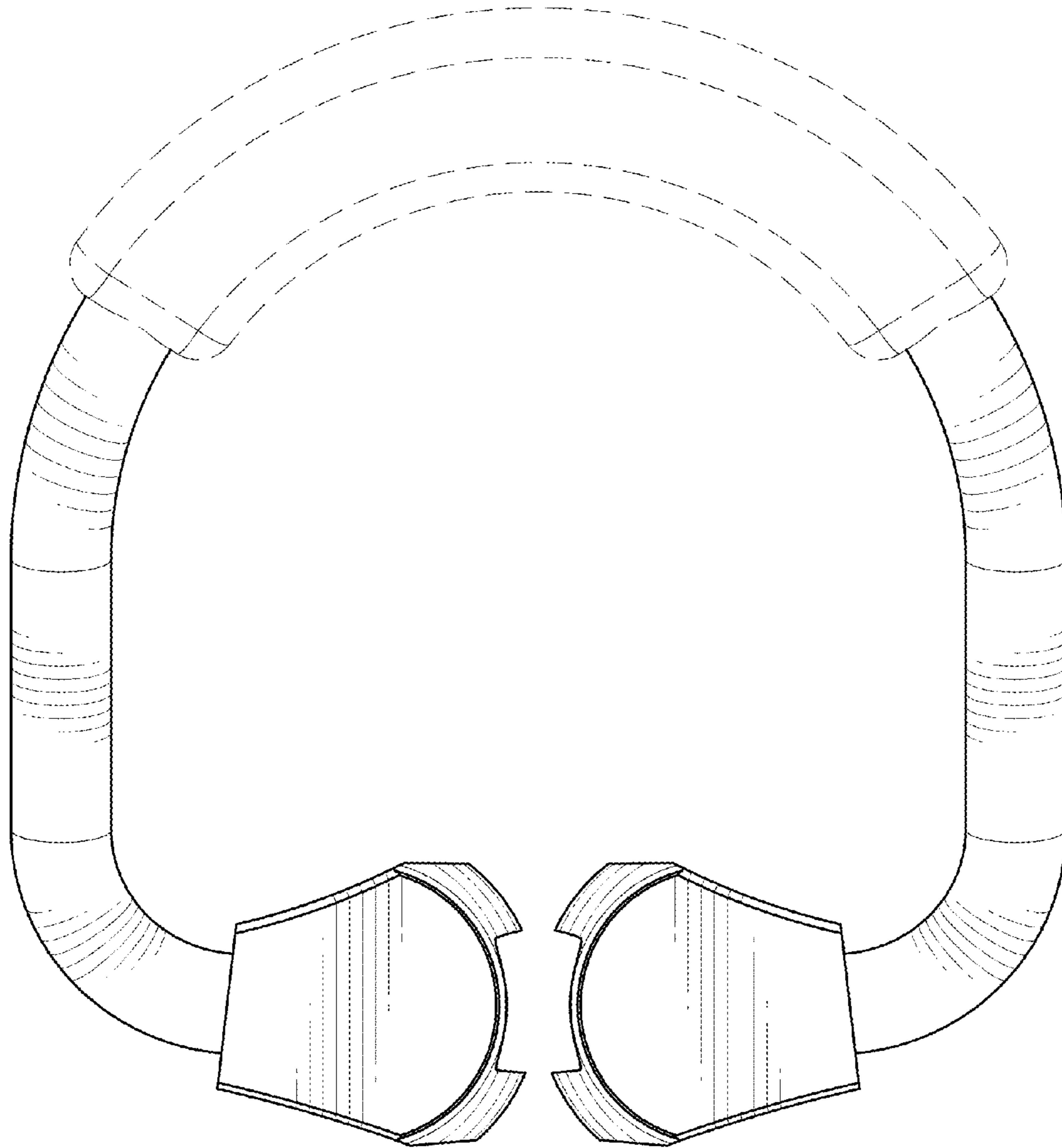


FIG. 11

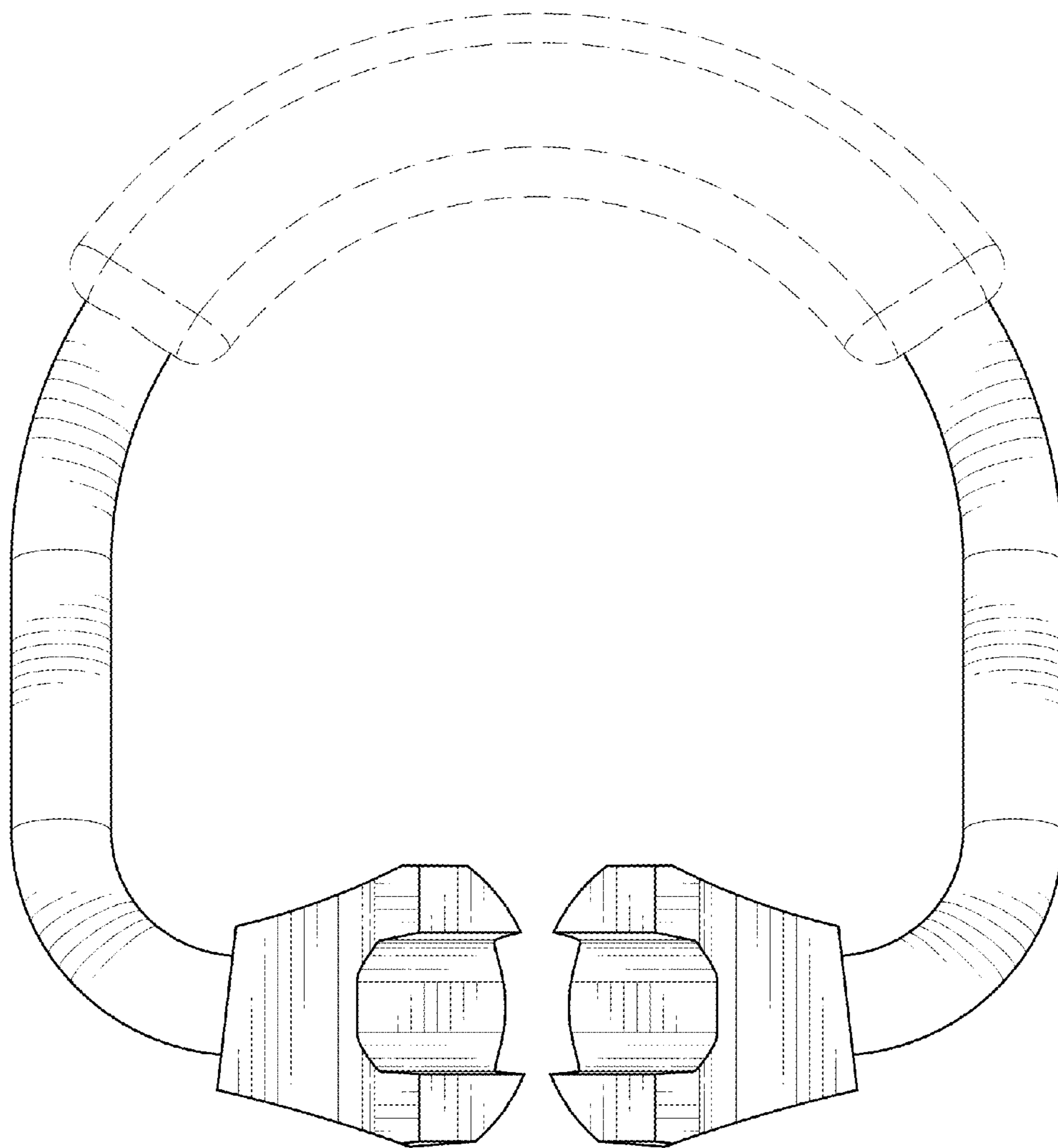


FIG. 12

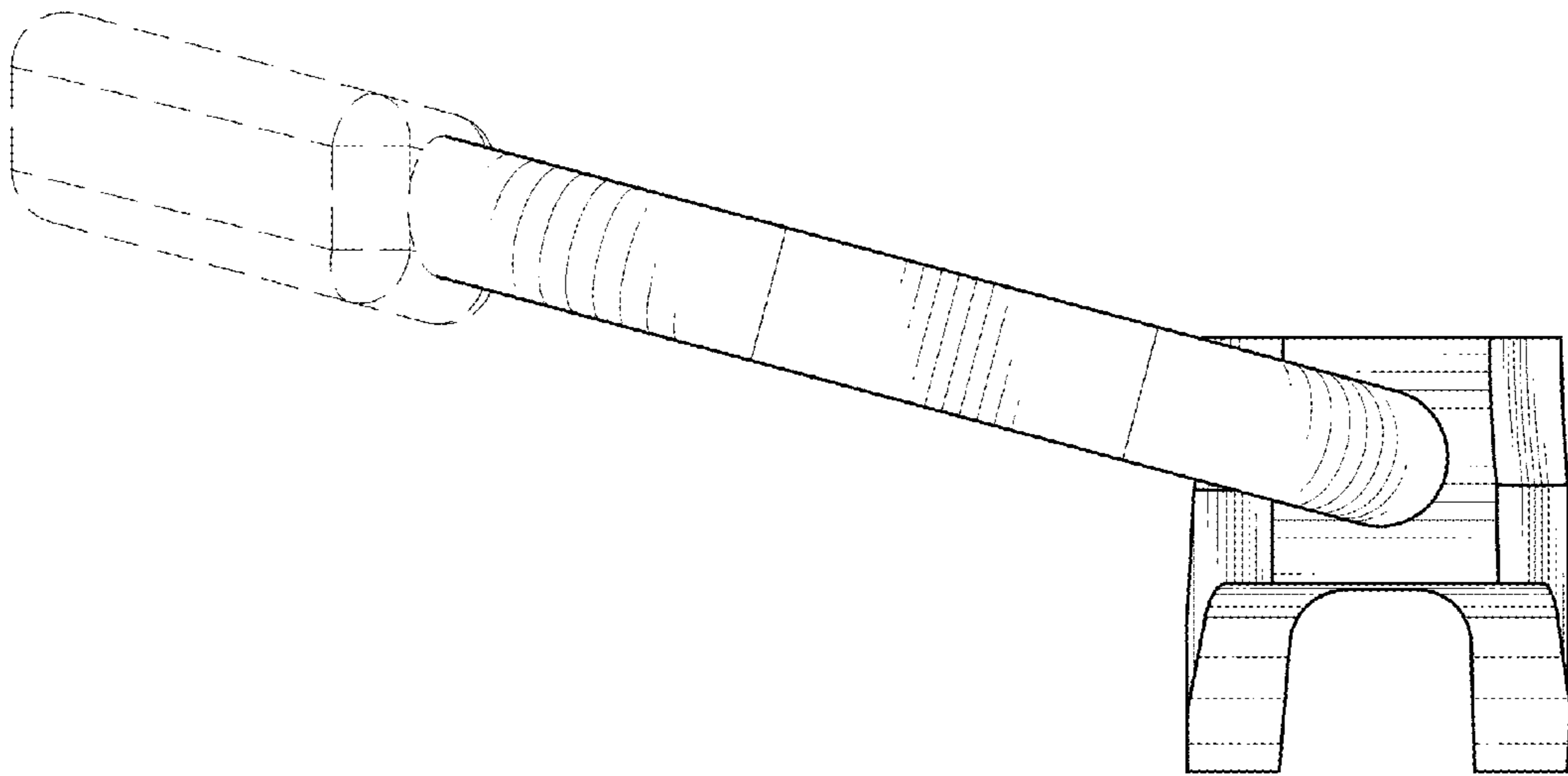


FIG. 13

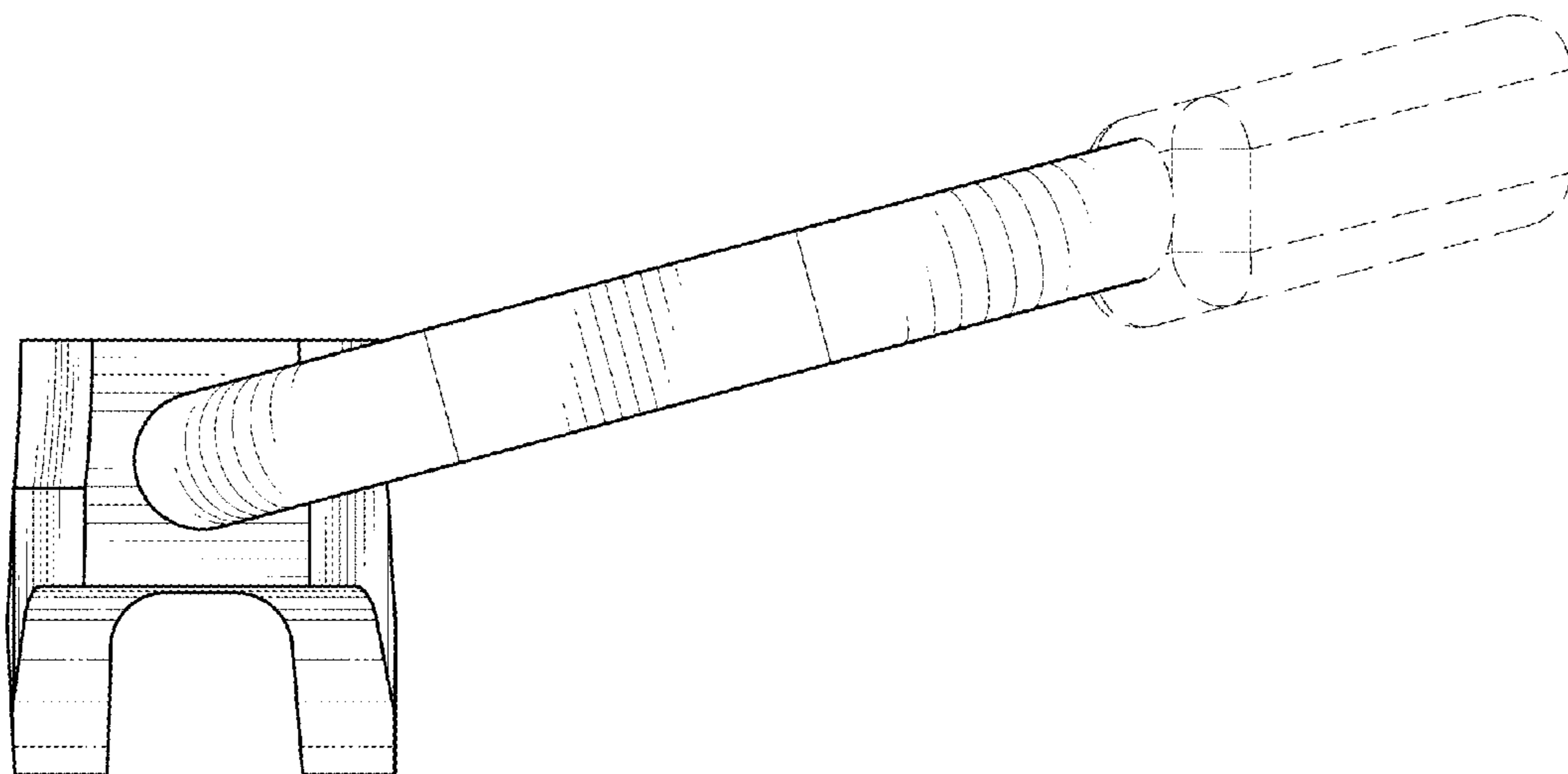


FIG. 14