



US00D964566S

(12) **United States Design Patent** (10) **Patent No.:** **US D964,566 S**
Jessop (45) **Date of Patent:** **** Sep. 20, 2022**

(54) **DENTAL RETRACTION DEVICE**
(71) Applicant: **ULTRADENT PRODUCTS, INC.**,
South Jordan, UT (US)

4,200,089 A 4/1980 Inoue
4,204,329 A 5/1980 Kahn
4,215,477 A 8/1980 Shanel
(Continued)

(72) Inventor: **Neil T. Jessop**, Sandy, UT (US)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **ULTRADENT PRODUCTS, INC.**,
South Jordan, UT (US)

CH 695235 A5 2/2006
CN 2416869 Y 1/2001
(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/774,992**

(22) Filed: **Mar. 19, 2021**

Ultradent Products Inc. Umbrella Soft Tissue Retractor. Retrieved on Nov. 9, 2020. Retrieved from the Internet: https://www.dentalcompare.com/4362-Dental-Cheek-Retractors/15968512-Umbreliz-Soft-Tissue-Retractor/?pda=4862115968512_2_011productdetails.

(Continued)

Related U.S. Application Data

(63) Continuation of application No. 29/693,541, filed on Jun. 3, 2019, now Pat. No. Des. 914,214.

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

Primary Examiner — Wan Laymon

(52) **U.S. Cl.**
USPC **D24/152; D4/135**

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

(58) **Field of Classification Search**
USPC D24/135, 152, 140, 127
CPC .. A61C 5/90; A61C 5/82; A61C 17/10; A61B
1/24; A61B 13/00; A61B 17/0293
See application file for complete search history.

(57) **CLAIM**

The ornamental design for a dental retraction device, as shown and described.

DESCRIPTION

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 2,589,504 A 3/1952 Miller
- 2,812,758 A 11/1957 Blumneschein
- 3,049,806 A 8/1962 Cofresi
- 3,241,550 A 3/1966 Gelarie
- 3,332,417 A 7/1967 Blanford et al.
- 3,396,468 A 8/1968 Dayhoff
- 3,772,790 A 11/1973 Swan-gett et al.
- 3,781,994 A 1/1974 Hesselgren
- 3,916,880 A 11/1975 Schroer
- 4,002,162 A 1/1977 Weisser
- 4,019,255 A 4/1977 Cohen et al.
- 4,053,984 A 10/1977 Moss
- 4,170,815 A 12/1979 Hottman

FIG. 1 is an upper perspective view of a dental retraction device;
FIG. 2 is a lower perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left view thereof
FIG. 6 is a right view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.

The broken lines shown in the figures are included for the purpose of illustrating environmental elements only and form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,259,067 A 3/1981 Nelson
 4,511,320 A 4/1985 Diamond
 4,512,742 A 4/1985 Shanel
 4,585,416 A 4/1986 DeNero et al.
 4,592,344 A 6/1986 Scheer
 4,600,387 A 7/1986 Ross
 4,640,273 A 2/1987 Greene
 4,671,260 A 5/1987 Buckner
 4,695,253 A 9/1987 Tysse
 4,744,758 A 5/1988 Harrison et al.
 4,820,155 A 4/1989 Sauveur et al.
 4,828,491 A 5/1989 Gray
 4,889,490 A 12/1989 Jenson et al.
 4,889,491 A 12/1989 Krygier et al.
 4,899,490 A 2/1990 Jokel
 4,952,143 A 8/1990 Becker et al.
 4,984,564 A 1/1991 Yuen
 5,011,409 A 4/1991 Gray
 5,032,178 A 7/1991 Cornel
 5,037,298 A 8/1991 Hickham
 5,064,770 A 11/1991 DeLuca
 5,078,604 A 1/1992 Malmin
 5,090,047 A 2/1992 Angotti et al.
 5,098,299 A 3/1992 Fischer
 5,104,317 A 4/1992 Riaz
 5,115,799 A 5/1992 McGann
 5,190,546 A 3/1993 Jervis
 5,199,872 A 4/1993 Leal
 5,211,559 A 5/1993 Hart et al.
 5,328,364 A 7/1994 Doyle
 5,340,313 A 8/1994 Hussin
 5,360,341 A 11/1994 Abramowitz
 5,366,478 A 11/1994 Brinkerhoff et al.
 5,460,524 A 10/1995 Anderson
 5,466,153 A 11/1995 Poindexter
 5,498,917 A 3/1996 Erickson et al.
 5,513,986 A 5/1996 Feltham et al.
 5,516,286 A 5/1996 Kushner
 5,524,644 A 6/1996 Crook
 5,590,504 A 1/1997 Heard et al.
 5,632,284 A 5/1997 Graether
 5,713,738 A 2/1998 Yarborough
 5,730,597 A 3/1998 Luttrell
 5,759,038 A 6/1998 Fischer
 5,803,734 A 9/1998 Knutson
 5,873,718 A 2/1999 Sullivan
 5,879,159 A 3/1999 Cipolla
 5,890,899 A 4/1999 Sclafani
 5,931,673 A 8/1999 Bolbolan
 6,022,214 A 2/2000 Hirsch
 6,089,740 A 7/2000 Forehand et al.
 6,102,701 A 8/2000 Engeron
 6,162,055 A 12/2000 Montgomery
 6,193,513 B1 2/2001 Pancallo
 6,213,772 B1 4/2001 Costello
 6,231,343 B1 5/2001 Ishibashi
 6,254,534 B1 7/2001 Butler et al.
 6,267,591 B1 7/2001 Barstow
 6,309,625 B1 10/2001 Jenson et al.
 6,343,933 B1 2/2002 Montgomery
 6,361,320 B2 3/2002 Yarborough
 6,391,283 B1 5/2002 Jensen et al.
 6,416,319 B1 7/2002 Cipolla
 6,416,322 B2 7/2002 Qualliotine
 6,436,034 B1 8/2002 Funatogawa
 6,450,983 B1 9/2002 Rambo
 6,485,301 B1 11/2002 Gemunder et al.
 6,500,002 B2 12/2002 Horiguchi
 6,514,075 B1 2/2003 Jacob
 6,688,783 B2 2/2004 Janosik et al.
 6,692,250 B1 2/2004 Decaudi et al.
 6,712,608 B2 3/2004 Bliis et al.
 6,716,929 B2 4/2004 Fischer et al.
 6,733,290 B2 5/2004 West et al.
 6,752,630 B2 6/2004 Roetzer

6,773,290 B2 8/2004 Lai
 6,783,363 B2 8/2004 Eguchi
 D496,995 S 10/2004 Dorfman
 6,805,127 B1 10/2004 Karasic
 6,880,954 B2 4/2005 Ollett et al.
 D504,721 S 5/2005 Dorfman
 6,923,761 B1 8/2005 Dorfman
 6,981,870 B2 1/2006 Heasiey
 6,988,893 B2 1/2006 Haywood
 7,040,894 B2 5/2006 Horvath
 7,077,652 B2 7/2006 Kilcher et al.
 7,300,401 B2 11/2007 Patrickus
 D564,658 S 3/2008 Anderson
 D615,203 S 5/2010 Hirsch et al.
 D617,455 S 6/2010 Mori et al.
 8,017,304 B2 9/2011 Tarutani et al.
 D652,143 S 1/2012 Brown
 8,118,900 B2 2/2012 Raether
 8,251,069 B2 8/2012 Burdumy
 8,376,743 B1 2/2013 Bukhary
 8,974,321 B2 3/2015 Schlamp et al.
 8,974,382 B2 3/2015 Taljaard
 D737,964 S 9/2015 Jessop
 D761,958 S 7/2016 Jessop
 9,387,054 B2 7/2016 Hines et al.
 9,901,332 B2 2/2018 Jessop
 D914,214 S 3/2021 Jessop
 2001/0012608 A1 8/2001 Darnell
 2001/0037053 A1 11/2001 Bonadio et al.
 2002/0022211 A1 2/2002 Horiguchi
 2003/0152196 A1 8/2003 Bratslavsky et al.
 2003/0198605 A1 10/2003 Montgomery
 2004/0005529 A1 1/2004 O'Neill
 2004/0033205 A1 2/2004 Date et al.
 2004/0049099 A1 3/2004 Ewers
 2004/0076926 A1 4/2004 Baughman
 2004/0084626 A1 5/2004 Kostiza
 2004/0097795 A1 5/2004 Horvath
 2004/0152051 A1 8/2004 Craig
 2004/0170945 A1 9/2004 Heasley
 2005/0048434 A1 3/2005 Cipolla et al.
 2005/0064370 A1 3/2005 Duret
 2005/0074720 A1 4/2005 Anderson
 2005/0171406 A1 8/2005 Dorfman et al.
 2005/0186535 A1 8/2005 Bills et al.
 2005/0227199 A1 10/2005 Patrickus
 2005/0265933 A1 12/2005 Montgomery et al.
 2006/0003284 A1 1/2006 Sale et al.
 2006/0069316 A1 3/2006 Dorfman et al.
 2006/0155171 A1 7/2006 Yang
 2006/0234187 A1 10/2006 Kilcher et al.
 2007/0148619 A1 6/2007 Anderson
 2007/0231773 A1 10/2007 Pontynen et al.
 2007/0270965 A1 11/2007 Ferguson
 2008/0064001 A1 3/2008 Dorfman et al.
 2008/0115789 A1 5/2008 Green
 2008/0153058 A1 6/2008 Horvath
 2009/0035718 A1 2/2009 Coffee
 2009/0081611 A1 3/2009 Hines
 2011/0060194 A1 3/2011 Risto et al.
 2012/0012120 A1 1/2012 Giffey
 2013/0230822 A1 9/2013 Hines
 2016/0270880 A1 9/2016 Hines et al.
 2020/0375696 A1* 12/2020 Jessop A61C 5/90

FOREIGN PATENT DOCUMENTS

CN 200963161 Y 10/2007
 CN 101299956 A 11/2008
 CN 202262973 U 6/2012
 CN 202408831 U 9/2012
 CN 202590146 U 12/2012
 EP 1455636 4/2009
 JP 0051797 S 1/1976
 JP S51797 A 1/1976
 JP 0169510 H 5/1989
 JP 2002017670 A 1/2002
 JP 2005511232 A 4/2005
 JP 3851631 B2 11/2006

(56)

References Cited

FOREIGN PATENT DOCUMENTS

JP	2007209635	A	8/2007
JP	2007283094	A	11/2007
JP	2010540117	A	12/2010
JP	2012254212	A	12/2012
KR	19980087815	A	12/1998
KR	1019980087815		12/1998
KR	200359447	Y1	8/2004
WO	2002007636	A1	1/2002
WO	2003051185	A1	6/2003
WO	2004075927	A2	9/2004
WO	2007115144	A2	10/2007
WO	2009042957	A2	4/2009

OTHER PUBLICATIONS

Notice of Allowance dated Oct. 13, 2017 cited in U.S. Appl. No. 14/776,667.
 "Radius of Curvature" from [https://en.wikipedia.org/wiki/ Radius_of_curvature](https://en.wikipedia.org/wiki/Radius_of_curvature) on Jul. 27, 2017.
 Office Action dated Aug. 3, 2017 cited in U.S. Appl. No. 15/166,011.
 Office Action dated May 5, 2017 cited in U.S. Appl. No. 14/776,867.
 Office Action issued in JP Patent Application No. 2018-502701 dated Mar. 1, 2017.
 Notice of Allowance dated Mar. 13, 2017 in U.S. Appl. No. 29/563,114.
 Office Action dated Mar. 1, 2017 cited in U.S. Appl. No. 16/166,011.
 Office Action dated Dec. 2, 2015 in U.S. Appl. No. 29/563,114.
 Supplementary European Search Report issued In European Application No. EP14753277, dated Oct. 20, 2016.
 Office Action dated Nov. 17, 2016 In U.S. Appl. No. 14/776,867.
 Office Action dated Sep. 6, 2015 in U.S. Appl. No. 15/166,011.
 Office Action dated Dec. 16, 2015 in U.S. Appl. No. 13/829,609.
 Office Action dated Jan. 20, 2016 in U.S. Appl. No. 29/533,704.
 Notice of Allowance dated Mar. 18, 2016 in U.S. Appl. No. 29/532,890.

Notice of Allowance dated Mar. 29, 2016 in U.S. Appl. No. 13/829,609.
 Notice of Allowance dated Apr. 8, 2016 in U.S. Appl. No. 29/533,794.
 U.S. Appl. No. 60/975,387, filed Sep. 26, 2007 to Pontynen.
 U.S. Appl. No. 61/788,929, filed Mar. 15, 2013 to Jessop et al.
 U.S. Appl. No. 28/485,036, filed Mar. 14, 2014 to Jessop et al.
 U.S. Appl. No. 29/532,890, filed Jul. 10, 2015 to Jessop et al.
 U.S. Appl. No. 29/533,704, filed Jul. 21, 2015 to Jessop et al.
 U.S. Appl. No. 14/776,867, filed Sep. 15, 2015 to Jessop et al.
 Isolite Systems. Isolite I2. Available at: www.isolitesystems.com. Accessed on Oct. 21, 2008.
 Kerr Corporation. Consumable Dental Restorative Materials Manufacturer. Available at: www.kerrhawe.com. Accessed on Oct. 21, 2008.
 Ivoclar Vivadent Inc. OptraDam Available at: www.ivoclar.co.nz Accessed on Oct. 21, 2008.
 OptiDam. Available at www.kerrhawe.com Accessed Jul. 10, 2007.
 OptraGate. Available at www.ivoclar.co.nz. Accessed Jul. 10, 2007.
 Dentapops. Available at hp://dynaflex.com/en-usk/dept_329.html. Accessed Jul. 10, 2007.
 Drysolator: Dental Dry Isolator. Available at <http://drysolator.com/index.html>. Accessed on Jul. 31, 2007 (2 pages).
 Full Arch Dry Field System. Available at <http://www.nolaspecialties.com/fulardryfiel.html>. Accessed on Jul. 31, 2007 (1 page).
 Notice of Rejection in Japanese Patent Application No. 2010-527217 dated Mar. 11, 2014, acting as English Translation of cited reference JP H1-69510.
 Office Action dated Apr. 22, 2011 in U.S. Appl. No. 12/239,477.
 Office Action dated Nov. 14, 2011 in U.S. Appl. No. 12/238,477.
 Office Action dated Feb. 12, 2013 in U.S. Appl. No. 12/239,477.
 Office Action dated Sep. 23, 2013 in U.S. Appl. No. 12/239,477.
 Office Action dated Jun. 25, 2014 in U.S. Appl. No. 13/829,609.
 Office Action dated Nov. 26, 2014 in U.S. Appl. No. 13/289,609.
 Notice of Allowance dated Jun. 24, 2015 in U.S. Appl. No. 29/485,036.
 U.S. Appl. No. 18/430,168, Title: Dental Retraction Device, filed Jun. 3, 2019, Inventor: Neil T. Jossop.

* cited by examiner

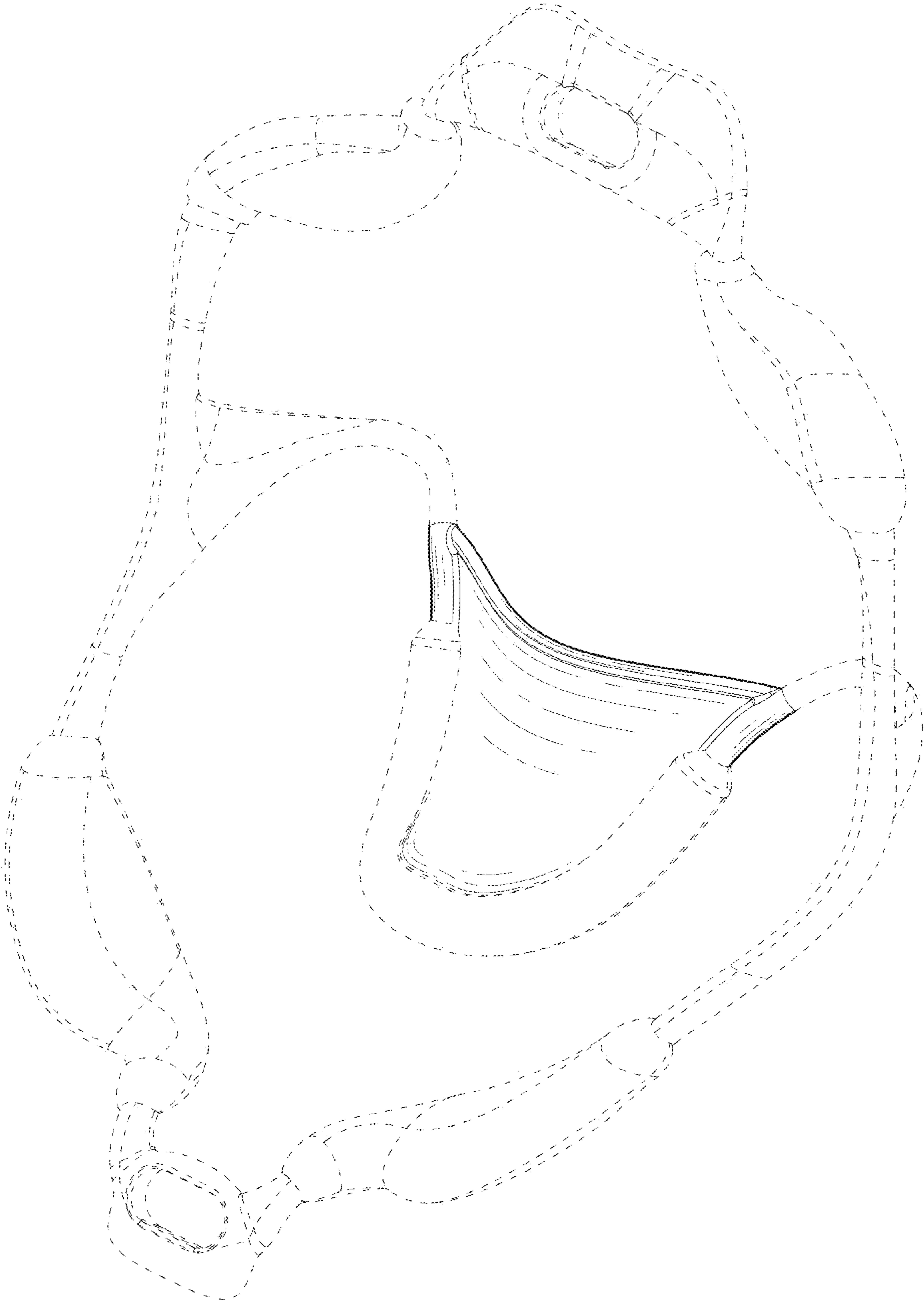


FIG. 1

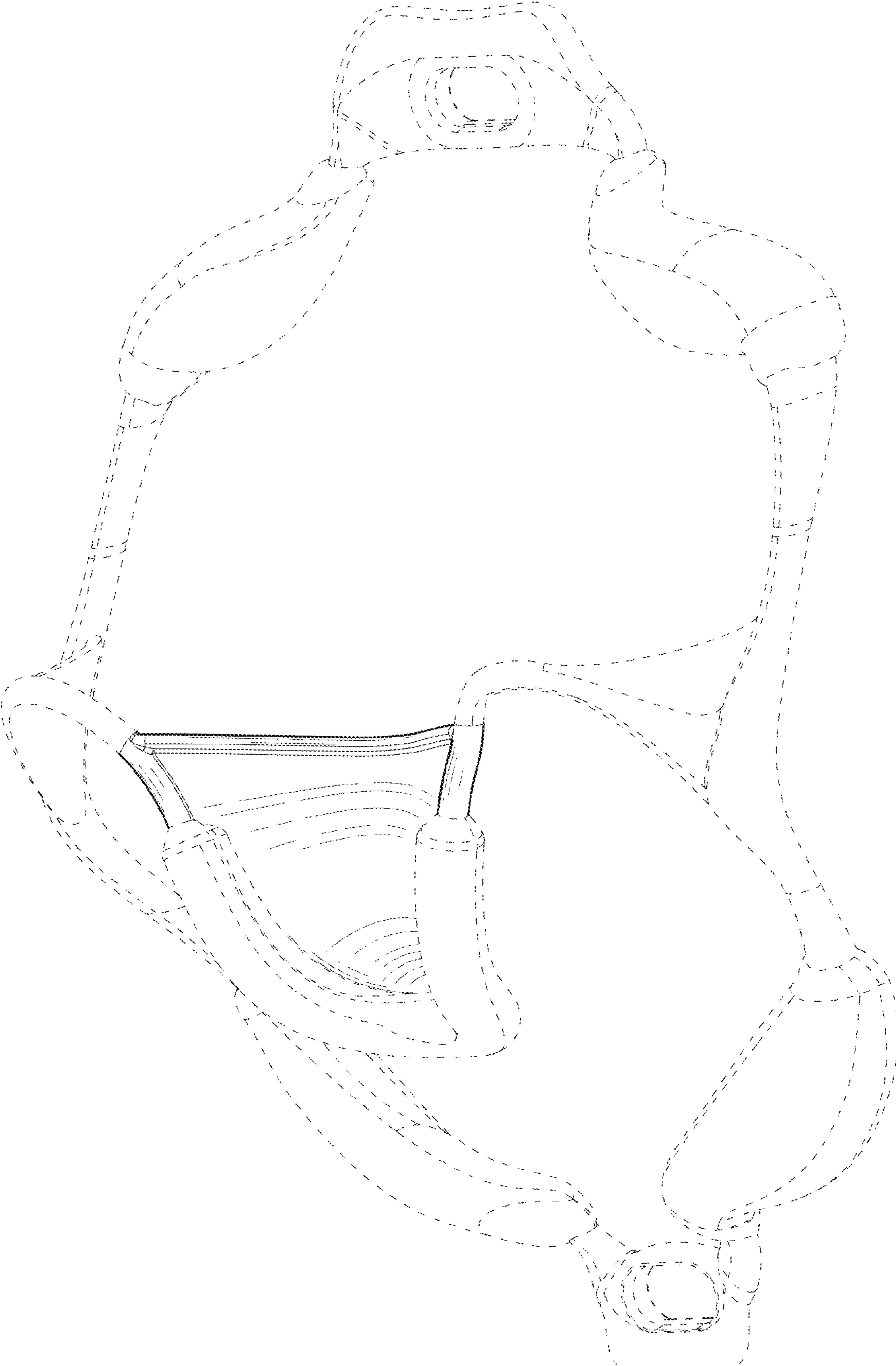


FIG. 2

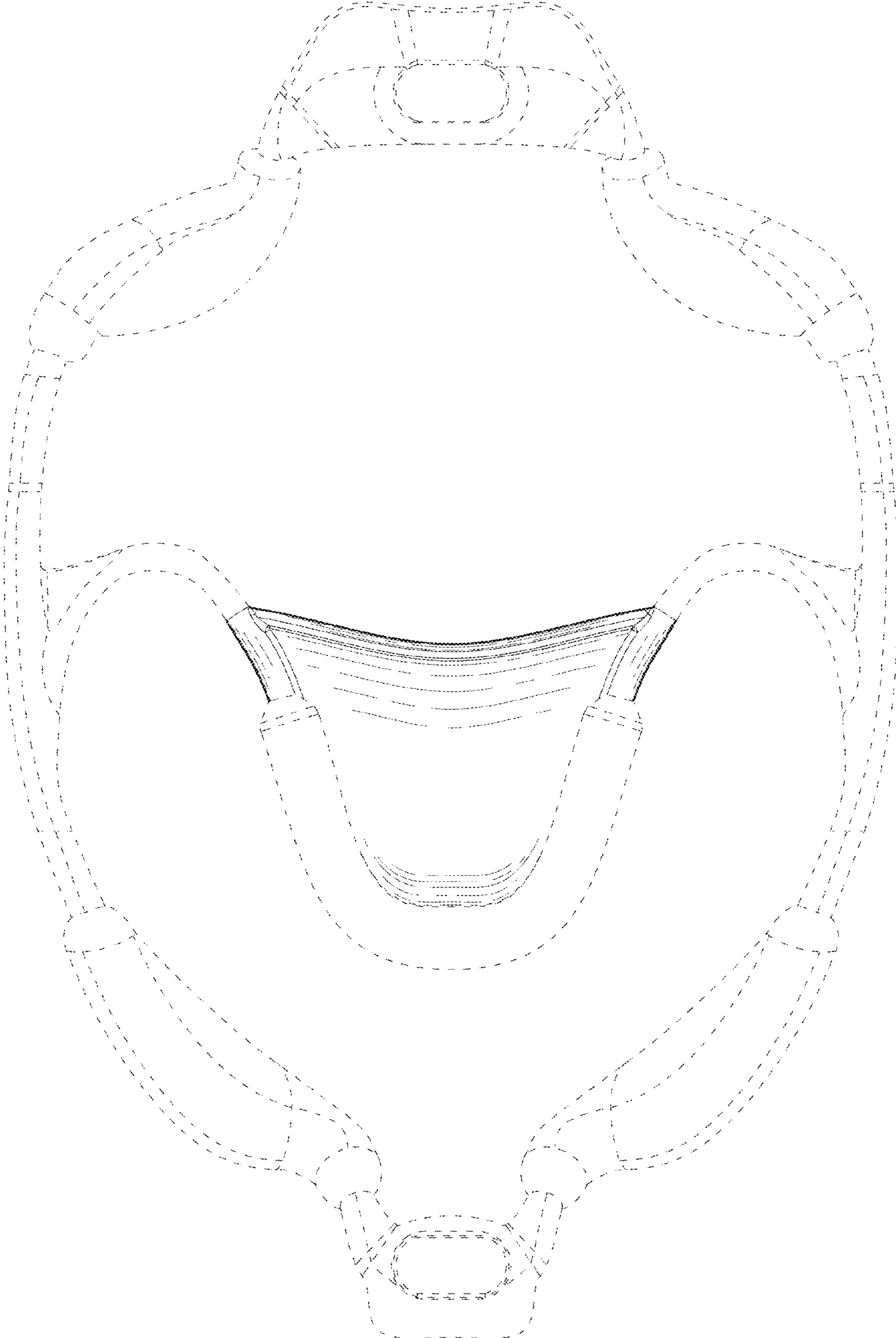


FIG. 3

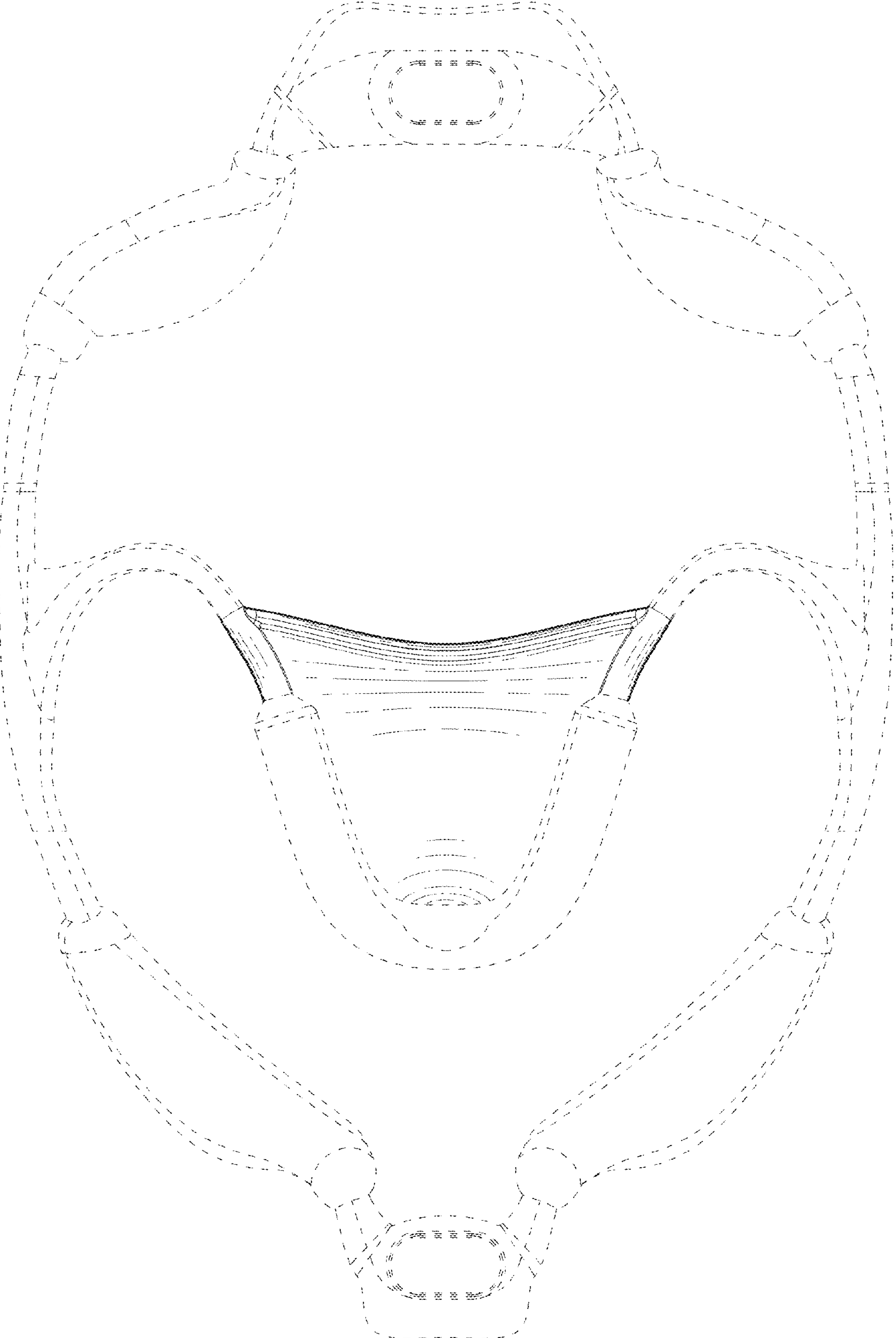


FIG. 4

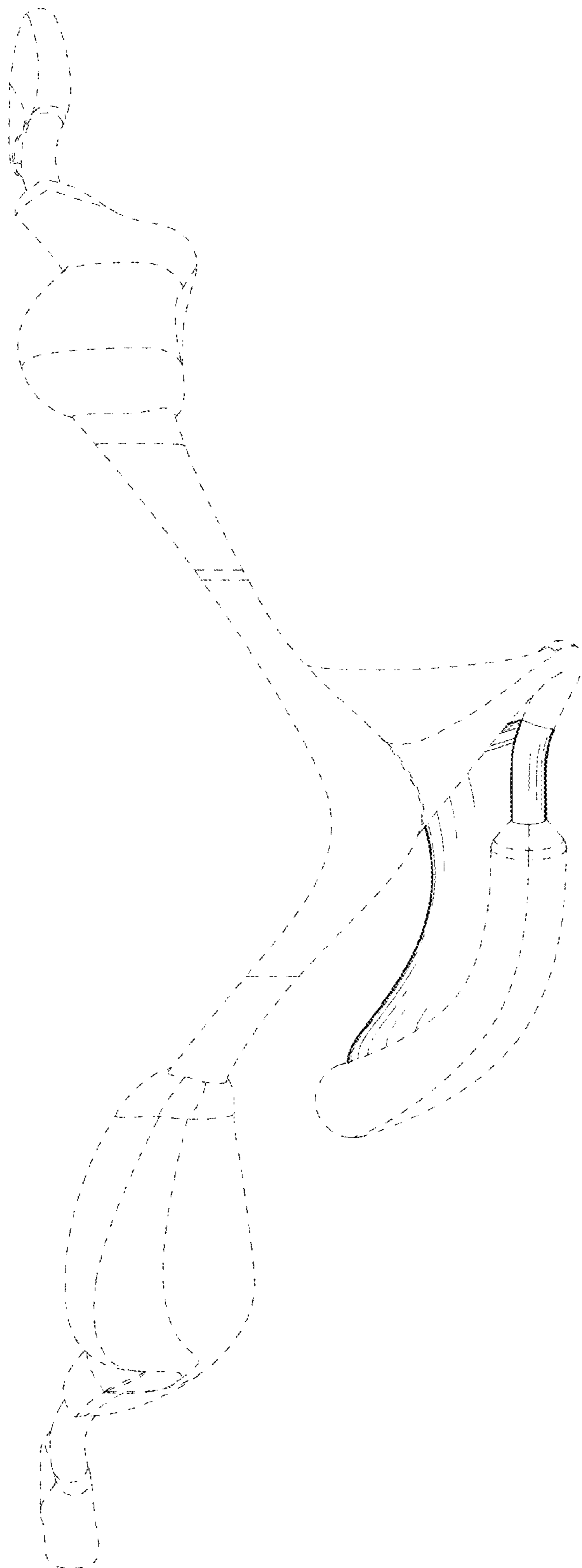


FIG. 5

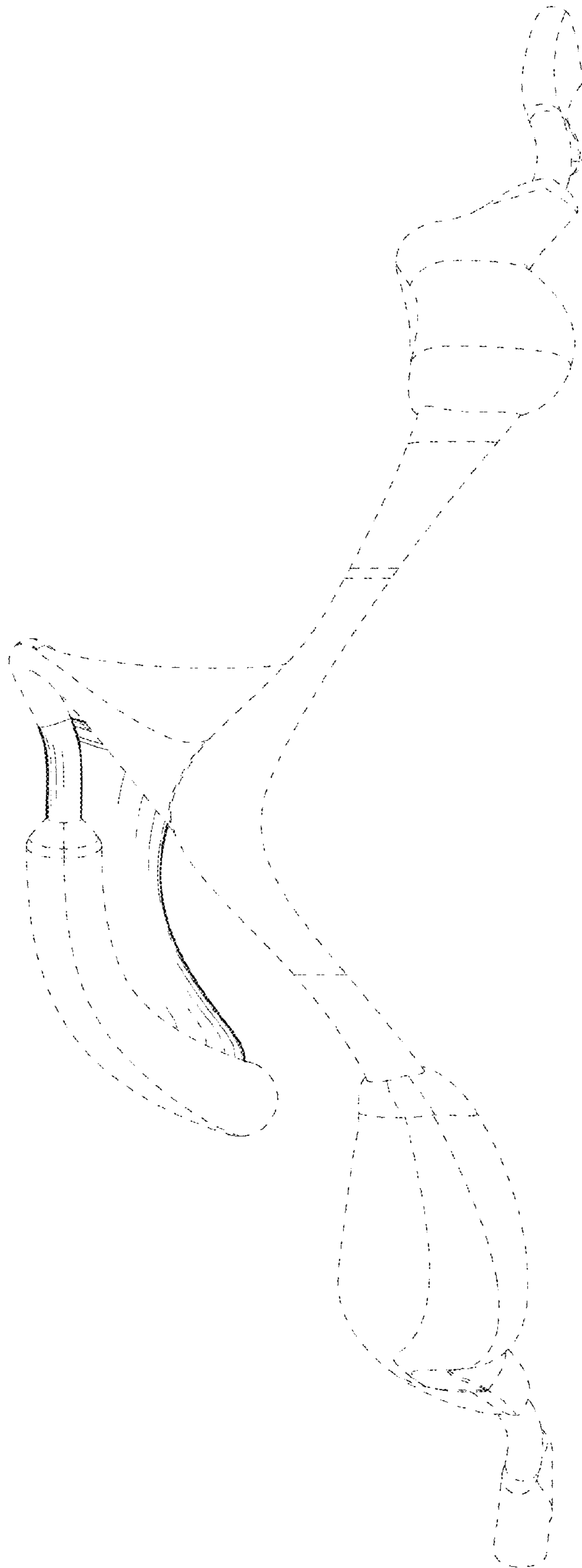


FIG. 6

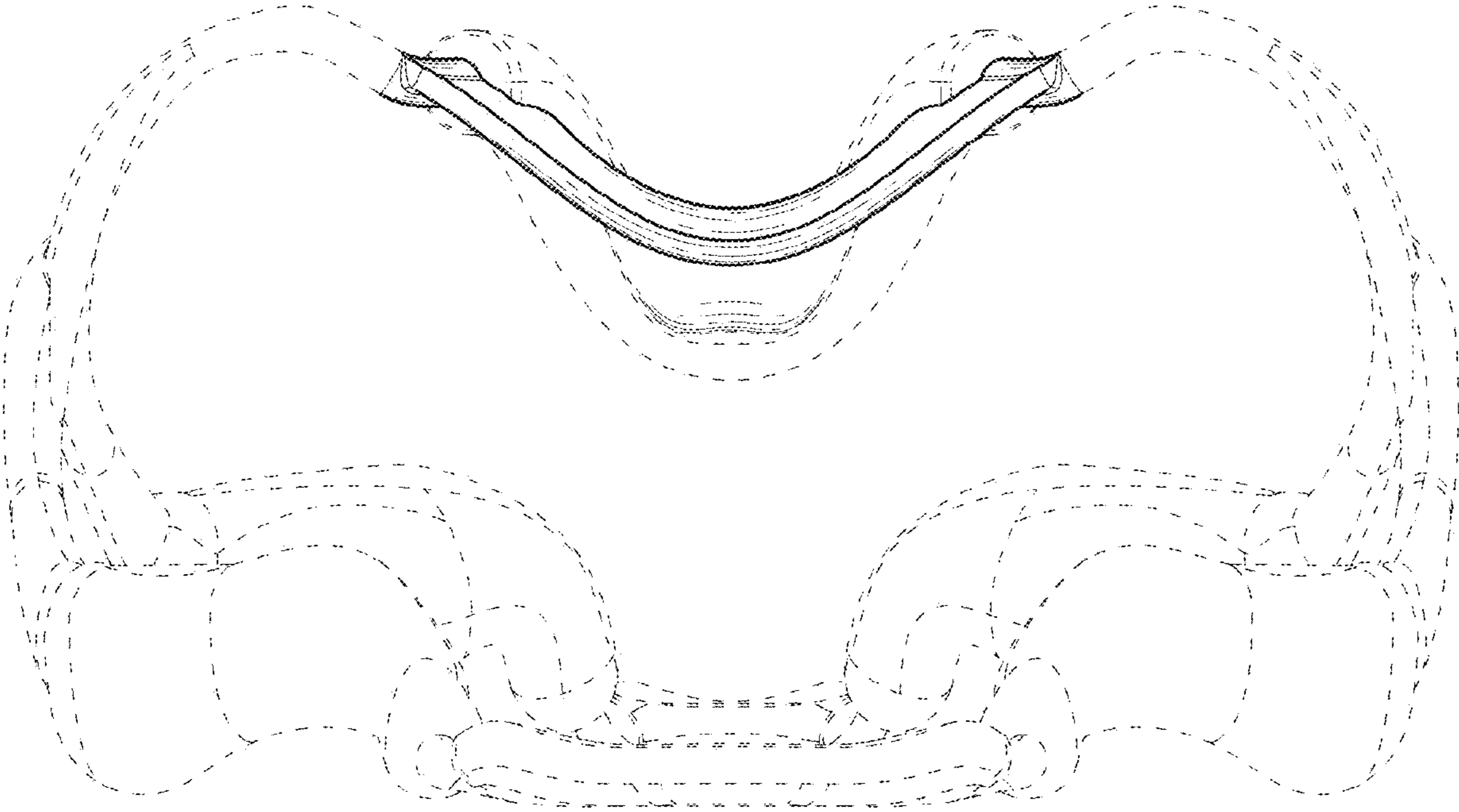


FIG. 7

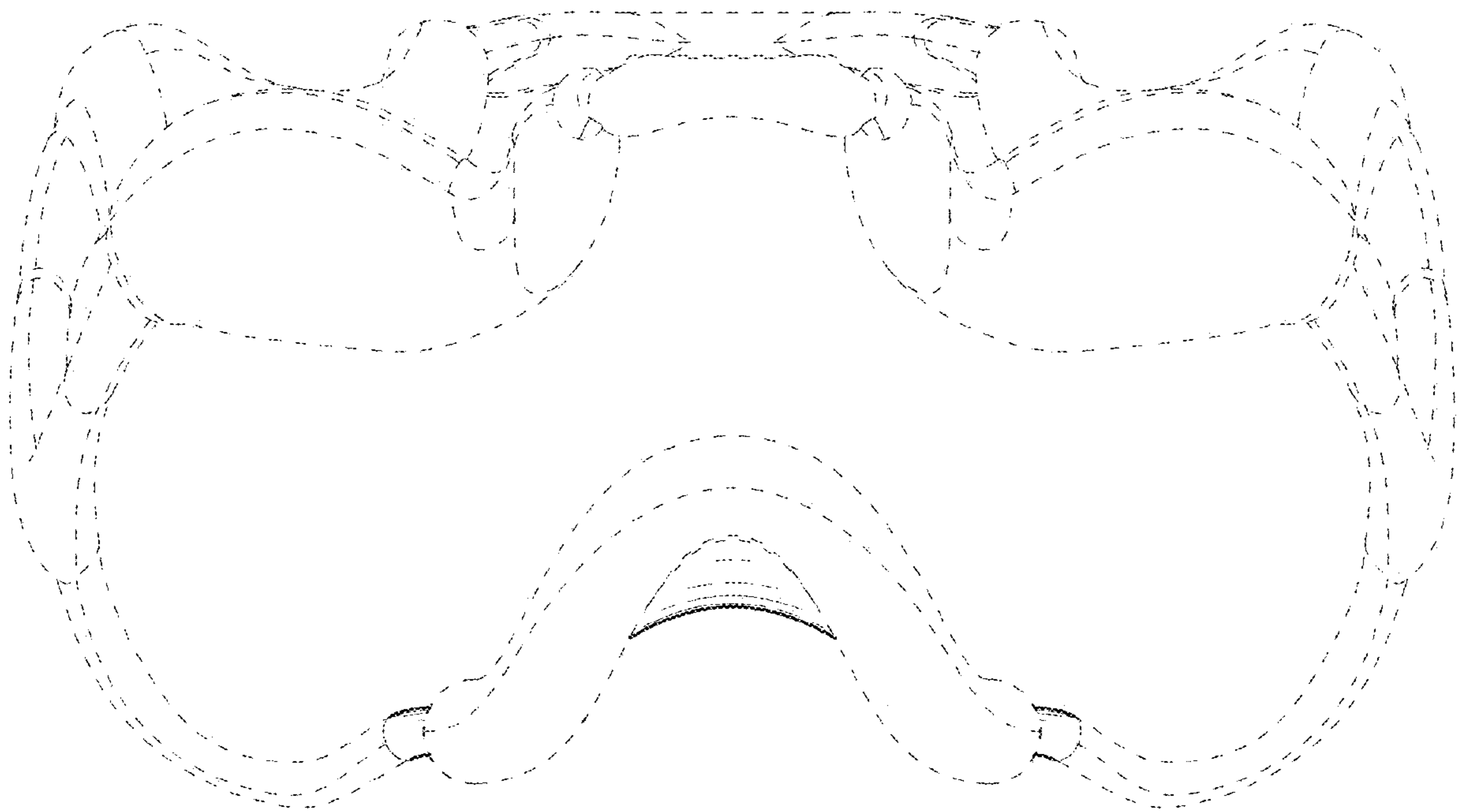


FIG. 8