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(12) **United States Design Patent** (10) **Patent No.:** **US D820,445 S**  
**Jessop et al.** (45) **Date of Patent:** **\*\* Jun. 12, 2018**

(54) **CHEEK RETRACTOR DEVICE**  
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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.

(Continued)

**FOREIGN PATENT DOCUMENTS**

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CH 695235 A5 2/2006  
CH 695235 A8 3/2006

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

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**OTHER PUBLICATIONS**

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**Related U.S. Application Data**

(62) Division of application No. 29/532,890, filed on Jul. 10, 2015, now Pat. No. Des. 761,958, which is a division of application No. 29/485,036, filed on Mar. 14, 2014, now Pat. No. Des. 737,964.

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(51) **LOC (11) Cl.** ..... **24-02**

(57) **CLAIM**

(52) **U.S. Cl.**

The ornamental design for a cheek retractor device, as shown and described.

USPC ..... **D24/135**

(58) **Field of Classification Search**

**DESCRIPTION**

USPC ..... D24/132, 152, 153, 154, 155, 156;  
600/140, 242, 237, 235, 208, 210, 238  
CPC ... A61B 1/32; A61B 17/0206; A61B 17/0293;  
A61C 5/14; A61M 16/0493; A61M  
2025/022  
See application file for complete search history.

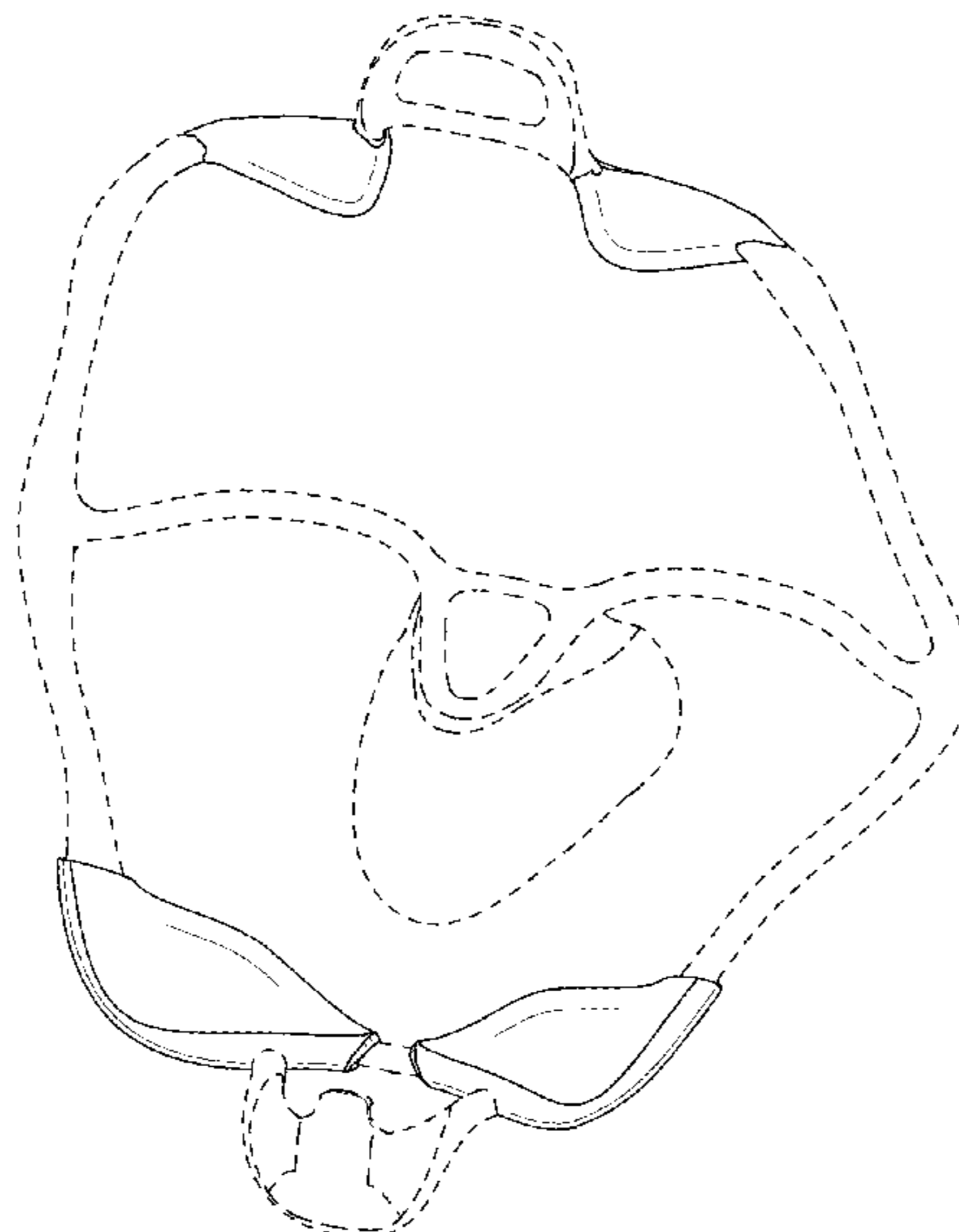
FIG. 1 is a front perspective view of a cheek retractor device;  
FIG. 2 is a rear perspective view thereof;  
FIG. 3 is a front view thereof;  
FIG. 4 is a rear view thereof;  
FIG. 5 is a first side view thereof;  
FIG. 6 is a second side view thereof;  
FIG. 7 is a top view thereof; and,  
FIG. 8 is a bottom view thereof.  
The broken lines shown in FIGS. 1-8 illustrate portions of the cheek retractor device that form no part of the claimed design.

(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

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

4,053,984 A 10/1977 Moss  
 4,179,815 A 12/1979 Hoffman  
 4,200,089 A 4/1980 Inoue  
 4,204,329 A 5/1980 Kahn  
 4,215,477 A 8/1980 Shanel  
 4,259,067 A 3/1981 Nelson  
 4,511,329 A 4/1985 Diamond  
 4,512,742 A 4/1985 Shanel  
 4,585,416 A 4/1986 DeNero  
 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 6/1987 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 Jensen 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 Cornell  
 5,037,298 A 8/1991 Hickham  
 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 Riazzi  
 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  
 5,499,917 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  
 5,964,770 A 10/1999 Flomenblit  
 6,017,304 A 1/2000 Vierra et al.  
 6,022,214 A 2/2000 Hirsch et al.  
 6,089,740 A 7/2000 Forehand et al.  
 6,102,701 A 8/2000 Engeron  
 6,116,900 A 9/2000 Ostler  
 6,162,055 A 12/2000 Montgomery et al.  
 6,193,513 B1 2/2001 Pancallo  
 6,213,772 B1 4/2001 Costello  
 6,231,343 B1 5/2001 Ishibashi et al.  
 6,254,534 B1 7/2001 Butler et al.  
 6,267,591 B1 7/2001 Barstow  
 6,309,625 B1 10/2001 Jensen et al.  
 6,343,933 B1 2/2002 Montgomery et al.  
 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 Germunder 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 Decaudin et al.  
 6,712,608 B2 3/2004 Bills et al.  
 6,716,029 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 et al.  
 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  
 6,974,321 B2 12/2005 Hirsch et al.  
 6,981,870 B2 1/2006 Heasley  
 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.  
 D652,143 S 1/2012 Brown  
 8,376,743 B1 2/2013 Bukhary  
 8,974,382 B2 3/2015 Taljaard  
 D737,964 S 9/2015 Jessop et al.  
 D761,958 S \* 7/2016 Jessop ..... D24/135  
 D792,590 S \* 7/2017 Jessop ..... D24/135  
 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'Neil  
 2004/0033205 A1 2/2004 Date et al.  
 2004/0049099 A1 3/2004 Ewers  
 2004/0076926 A1 4/2004 Baughman  
 2004/0084826 A1 5/2004 Kostiza  
 2004/0097795 A1 5/2004 Horvath  
 2004/0152051 A1 8/2004 Craig  
 2004/0170945 A1 9/2004 Heasley  
 2004/0209225 A1 10/2004 Kilcher et al.  
 2004/0219486 A1 11/2004 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.  
 2006/0115789 A1 6/2006 Wishart  
 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.  
 2008/0153058 A1 6/2008 Horvath  
 2009/0081611 A1 3/2009 Hines et al.  
 2011/0060194 A1 3/2011 Risto et al.  
 2012/0012120 A1 1/2012 Giffey  
 2013/0230822 A1 9/2013 Hines  
 2016/0008094 A1 1/2016 Jessop et al.  
 2016/0022381 A1 1/2016 Jessop et al.  
 2016/0270880 A1 9/2016 Hines et al.

FOREIGN PATENT DOCUMENTS

CN 2416869 1/2001  
 CN 200963161 10/2007  
 CN 101299956 11/2008  
 CN 202262973 6/2012  
 CN 202408831 9/2012  
 CN 202590146 12/2012  
 EP 1455636 B1 4/2009  
 JP S51-797 1/1976

(56)

## References Cited

## FOREIGN PATENT DOCUMENTS

JP	H1-69510	5/1989
JP	2002017670	1/2002
JP	2005511232 T2	4/2005
JP	3851631 B2	11/2006
JP	2007-209635	8/2007
JP	2007-283094	11/2007
JP	2010-540117	12/2010
JP	2012-254212	12/2012
KR	1019980087815	12/1998
KR	20-0359447	8/2004
WO	WO 0207636 A1	1/2002
WO	WO03051185 A1	6/2003
WO	WO04075927 A2	9/2004
WO	WO2007115144 A2	10/2007
WO	WO2007115144 A3	10/2007
WO	WO2009042957 A2	4/2009
WO	WO2009042957 A3	5/2009

## OTHER PUBLICATIONS

U.S. Appl. No. 15/166,011, dated Sep. 6, 2016, Office Action.  
Office Action dated May 5, 2017 cited in U.S. Appl. No. 14/776,867.  
"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.  
U.S. Appl. No. 60/975,387, filed Sep. 26, 2007, Pontynen.  
U.S. Appl. No. 61/789,929, filed Mar. 15, 2013, Jessop et al.  
U.S. Appl. No. 29/485,036, filed Mar. 14, 2014, Jessop et al.  
U.S. Appl. No. 29/532,890, filed Jul. 10, 2015, Jessop et al.  
U.S. Appl. No. 29/533,704, filed Jul. 21, 2015, Jessop et al.  
U.S. Appl. No. 29/563,114, filed May 2, 2016, Jessop et al.  
U.S. Appl. No. 15/166,011, filed May 26, 2016, Hines et al.  
Isolite Systems. Isolite i2. Available at: [www.isolitesystems.com](http://www.isolitesystems.com). Accessed on Oct. 21, 2008.  
Kerr Corporation. Consumable Dental Restorative Materials Manufacturer. Available at: [www.kerrhawe.com](http://www.kerrhawe.com) Accessed on Oct. 21, 2008.

Ivoclar Vivadent Inc. OptraDam Available at: [www.ivoclar.co.nz](http://www.ivoclar.co.nz). Accessed on Oct. 21, 2008.  
OptiDam. Available at [www.kerrhawe.com](http://www.kerrhawe.com). Accessed Jul. 10, 2007.  
OptraGate. Available at [www.ivoclar.co.nz](http://www.ivoclar.co.nz). Accessed Jul. 10, 2007.  
Dentapops. Available at [http://dynaflex.com/en-us/dept\\_329.html](http://dynaflex.com/en-us/dept_329.html). Accessed Jul. 10, 2007.  
Drysolor: Dental Dry Isolator. Available at <http://drysolor.com/index.html>. Accessed on Jul. 31, 2007 (2 pages).  
Full Arch Dry Field System. Available at <http://www.nolaspecialties.com/fulardryfiel.html>. Accessed Jul. 31, 2007 (1 Page).  
Notice of Rejection in Japanese Patent Application No. 2010-527217 dated Mar. 11, 2014, acting English Translation of cited reference JP H1-69510.  
U.S. Appl. No. 12/239,477, dated Apr. 22, 2011, Office Action.  
U.S. Appl. No. 12/239,477, dated Nov. 14, 2011, Office Action.  
U.S. Appl. No. 12/239,477, dated Feb. 12, 2013, Office Action.  
U.S. Appl. No. 12/239,477, dated Sep. 23, 2013, Office Action.  
U.S. Appl. No. 13/829,609, dated Jun. 25, 2014, Office Action.  
U.S. Appl. No. 13/829,609, dated Nov. 26, 2014, Office Action.  
U.S. Appl. No. 29/485,036, dated Jun. 24, 2015, Notice of Allowance.  
U.S. Appl. No. 13/829,609, dated Dec. 16, 2015, Office Action.  
U.S. Appl. No. 29/533,704, dated Jan. 20, 2016, Office Action.  
U.S. Appl. No. 29/532,890, dated Mar. 18, 2016, Notice of Allowance.  
U.S. Appl. No. 13/829,609, dated Mar. 29, 2016, Notice of Allowance.  
U.S. Appl. No. 29/533,704, dated Apr. 8, 2016, Notice of Allowance.  
Supplementary European Search Report issued in European Application No. EP14763277, dated Oct. 20, 2016.  
U.S. Appl. No. 14/776,867, dated Nov. 17, 2016, Office Action.  
Office Action issued in JP Patent Application No. 2016-502701 dated: Mar. 1, 2017.  
U.S. Appl. No. 29/563,114, dated Mar. 13, 2017, Notice of Allowance.  
Office Action dated Dec. 2, 2016 cited in U.S. Appl. No. 29/563,114.  
Notice of Allowance dated Oct. 13, 2017 cited in U.S. Appl. No. 14/776,867.

\* cited by examiner

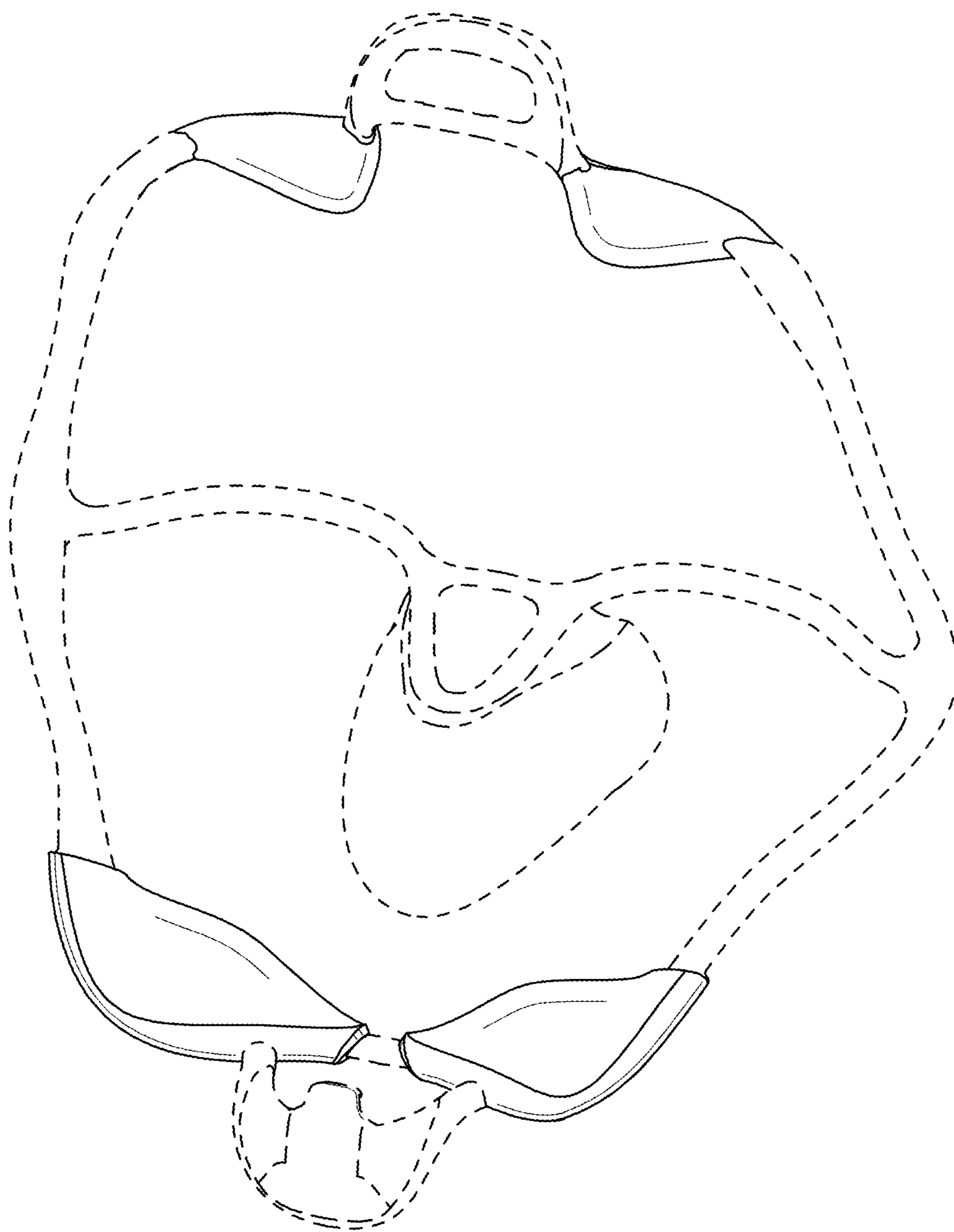


FIG. 1

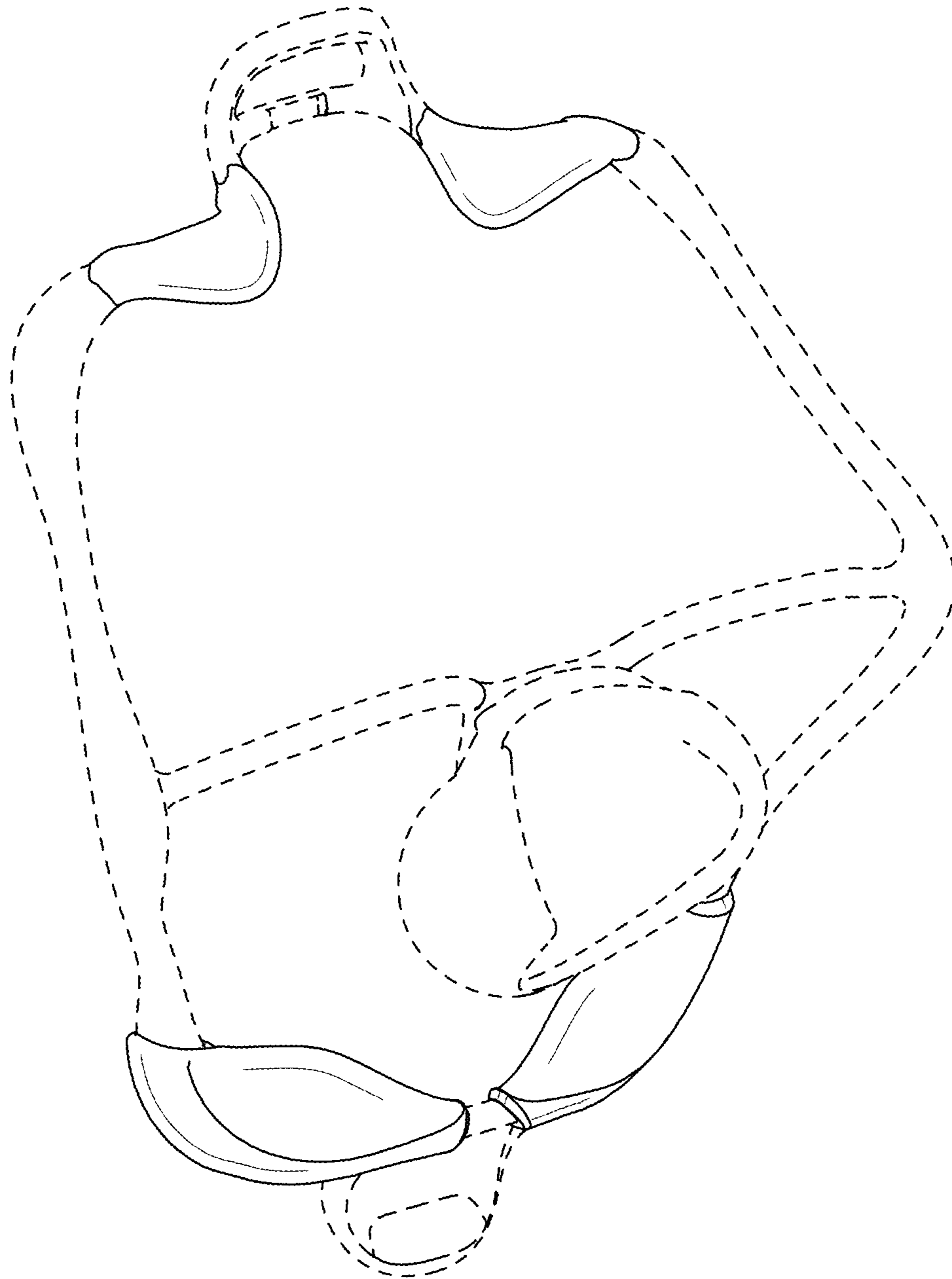


FIG. 2

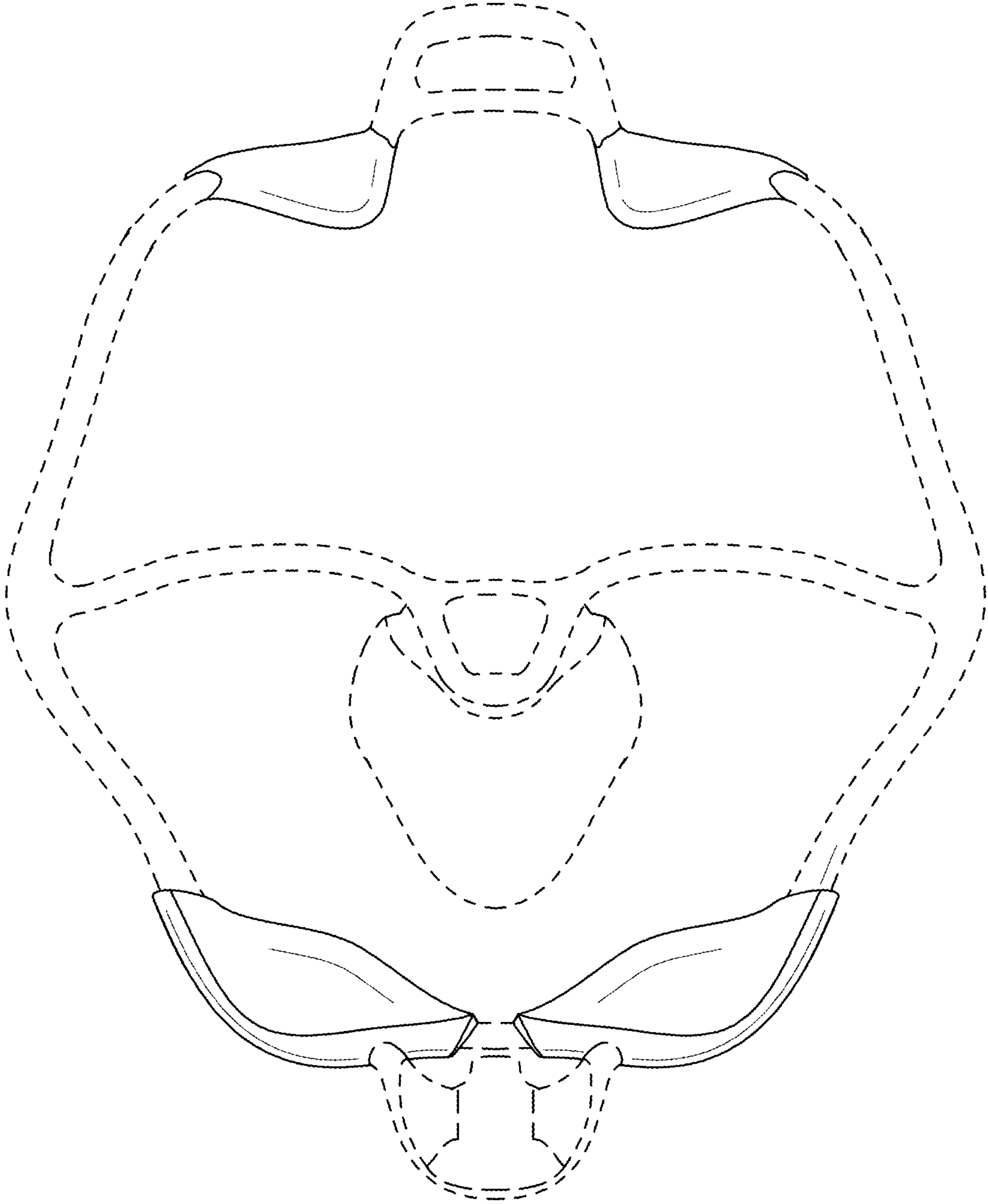


FIG. 3

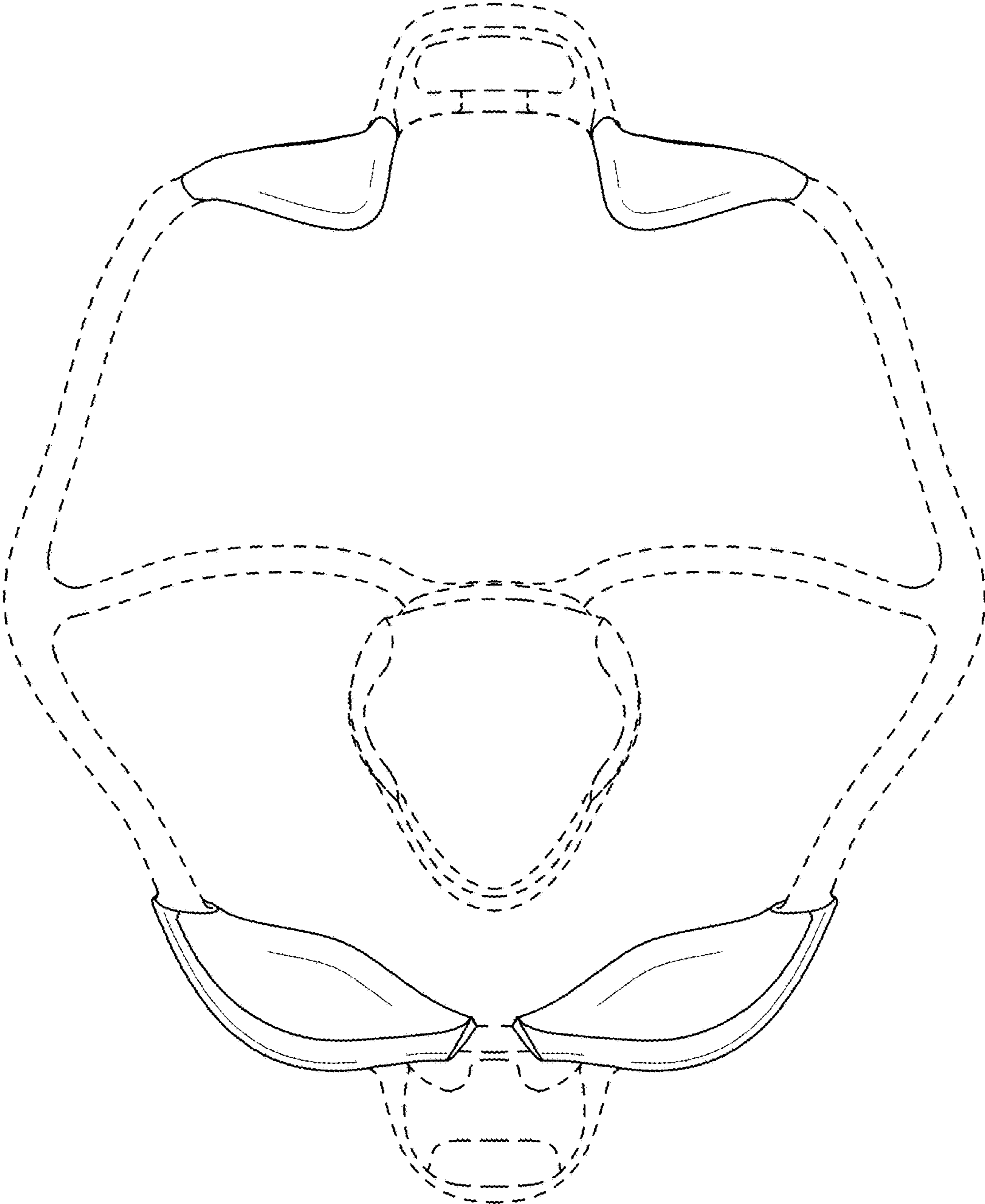


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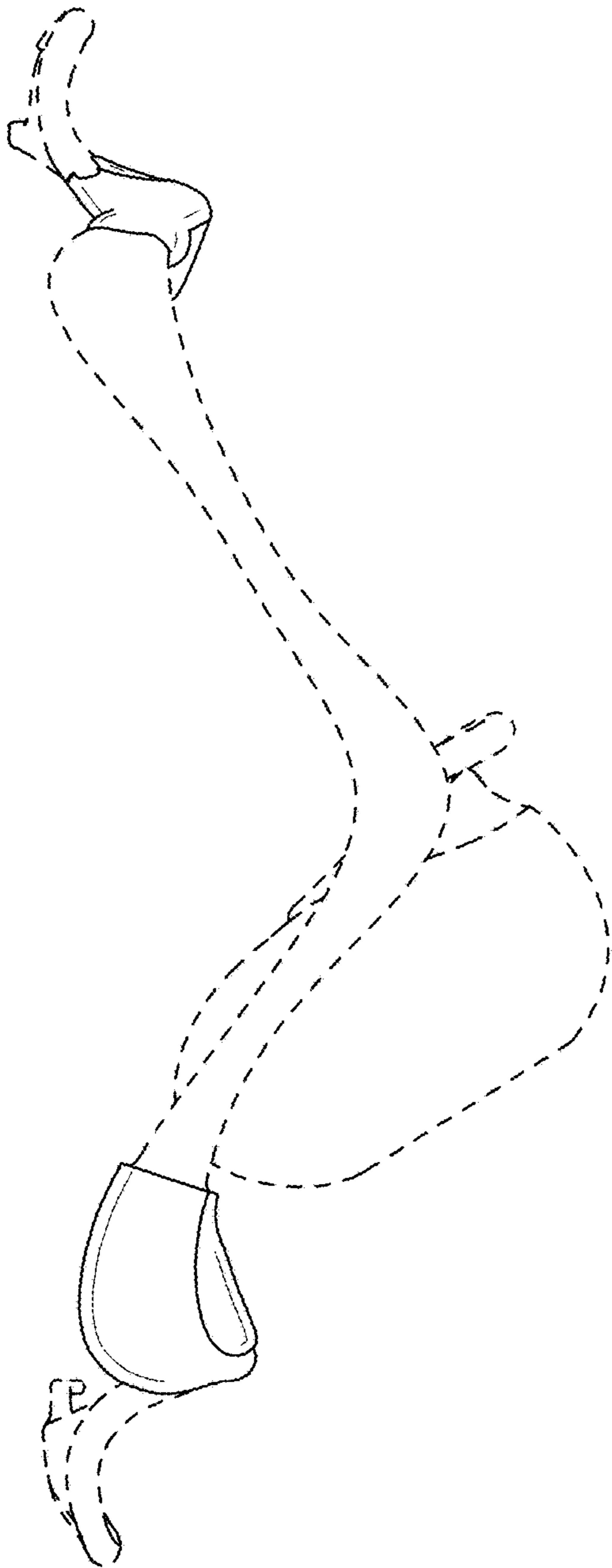


FIG. 5

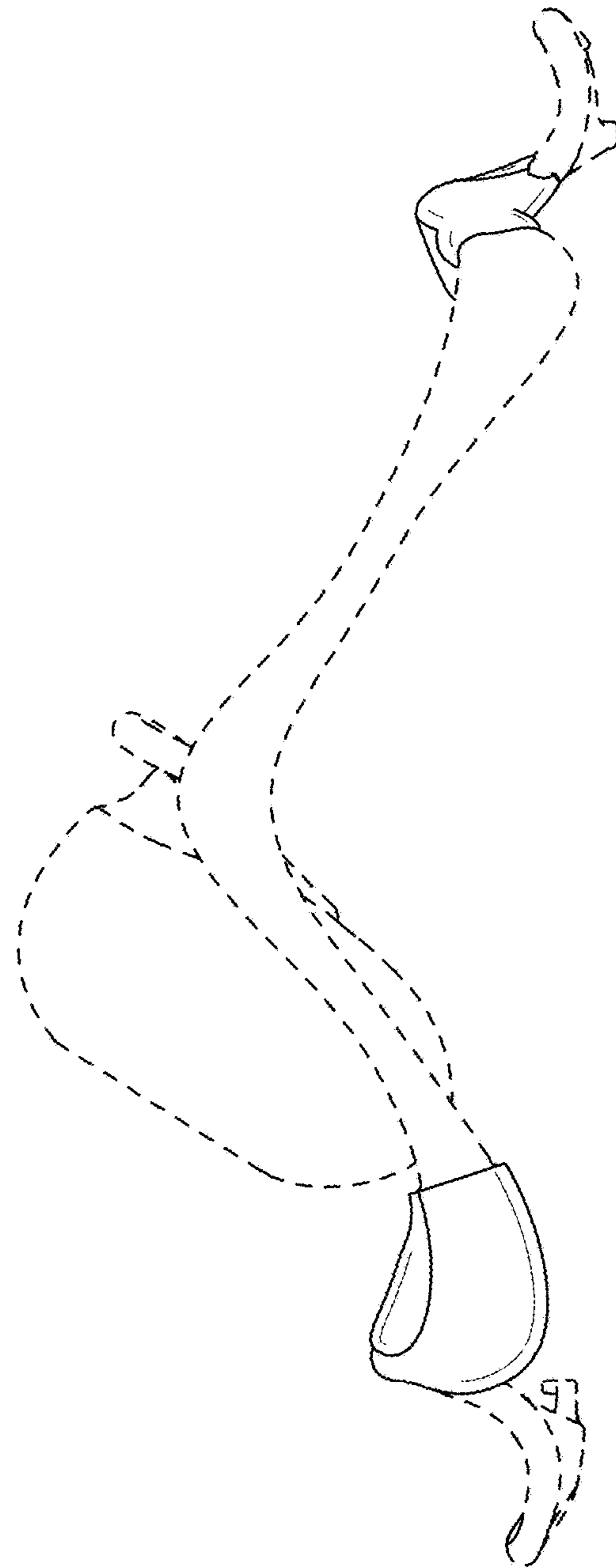


FIG. 6



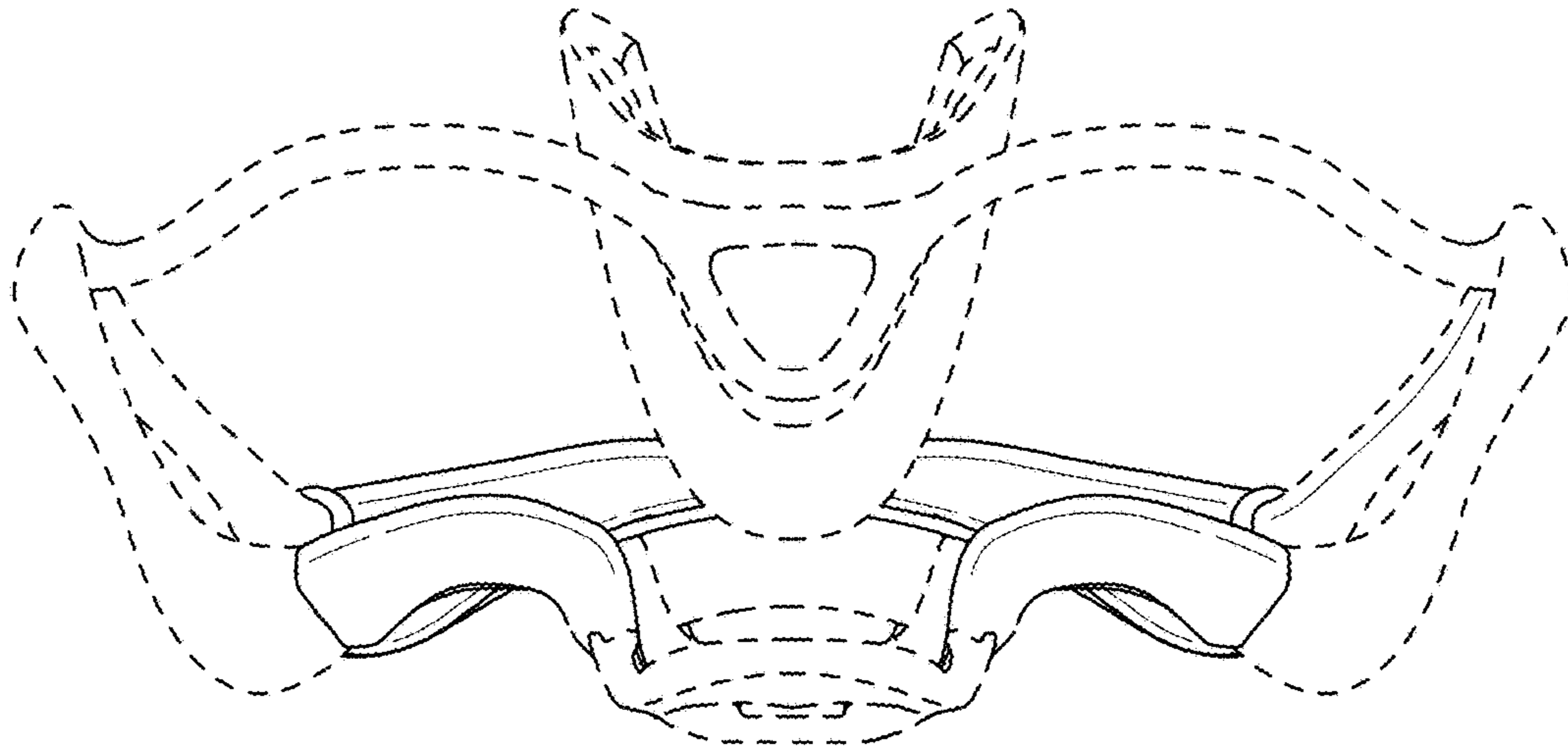


FIG. 7

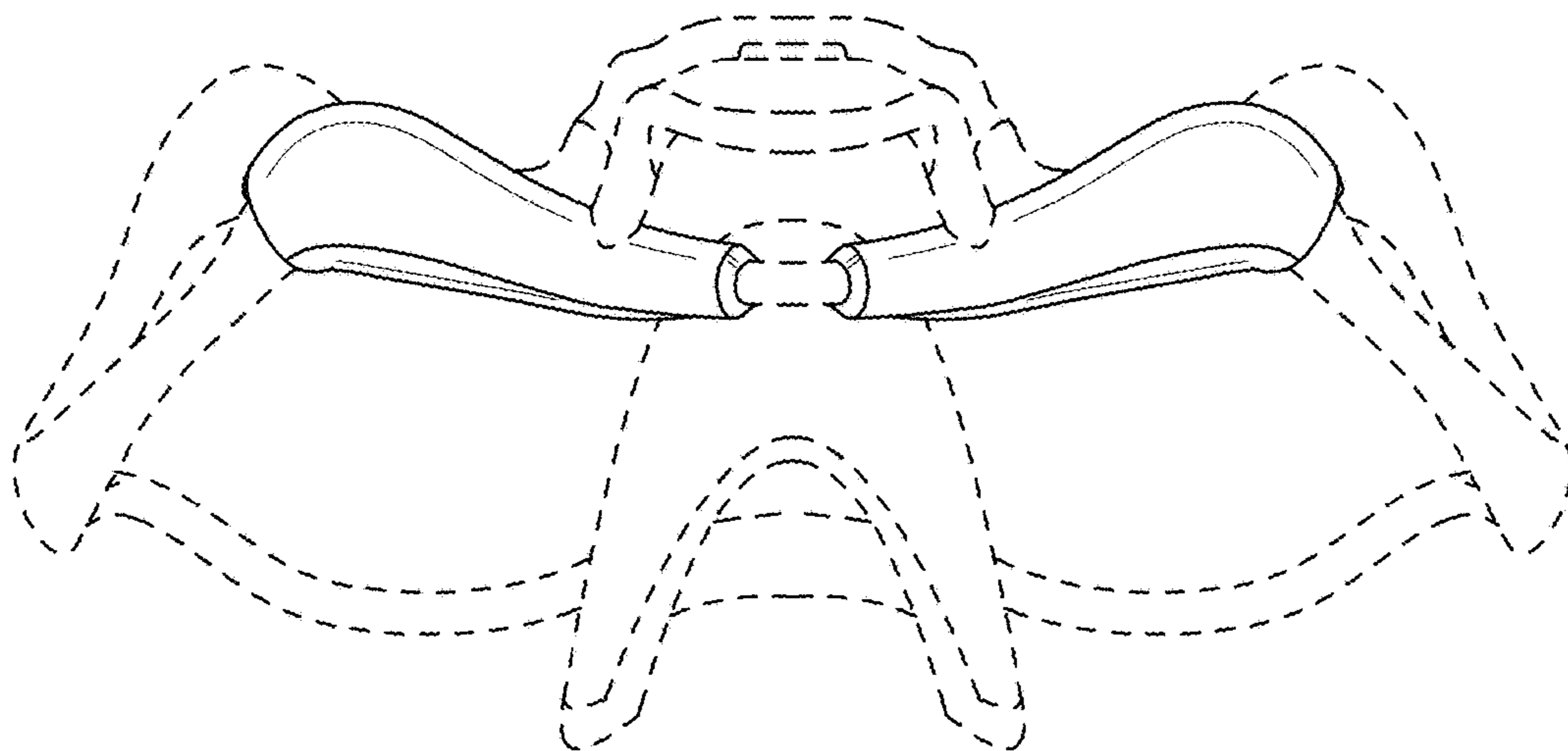


FIG. 8