



US00D875242S

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

(10) **Patent No.:** **US D875,242 S**
(45) **Date of Patent:** **** Feb. 11, 2020**

(54) **NASAL MASK AND BREATHING TUBE SET**

3,042,035 A 7/1962 George
3,065,747 A 11/1962 Charles
3,079,917 A 3/1963 Godfrey

(71) Applicant: **Fisher & Paykel Healthcare Limited,**
Auckland (NZ)

(Continued)

(72) Inventors: **Callum Ross Gordon,** Auckland (NZ);
Ryan Anthony Graham, Auckland
(NZ); **Bruno Sintive,** Auckland (NZ);
Mark Andrew Thompson, Auckland
(NZ); **Amit Galgali,** Auckland (NZ);
Vicky Dan Gao, Auckland (NZ);
Cameron Robert Willis, Auckland
(AU); **Jake Baker Hocking,** Auckland
(NZ); **Priyanka Ferdinand Pereira,**
Auckland (NZ)

FOREIGN PATENT DOCUMENTS

AU 2005/100738 11/2005
EP 1057494 12/2000

(Continued)

(73) Assignee: **Fisher & Paykel Healthcare Limited,**
Auckland (NZ)

OTHER PUBLICATIONS

U.S. Appl. No. 29/618,347, filed Sep. 20, 2017, Gordon, et al.

Primary Examiner — Lilyana Bekic

(74) *Attorney, Agent, or Firm* — Knobbe, Martens, Olson
& Bear, LLP

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

(57) **CLAIM**

The ornamental design for a nasal mask and breathing tube set, as shown and described.

(21) Appl. No.: **29/618,346**

DESCRIPTION

(22) Filed: **Sep. 20, 2017**

(51) **LOC (12) Cl.** **29-02**

(52) **U.S. Cl.**
USPC **D24/110.4**

(58) **Field of Classification Search**
USPC D24/110, 110.1, 110.4–110.6, 127
CPC A61M 16/0622; A61M 16/0616; A61M
16/06; A61M 16/0666; A61M 16/0683
See application file for complete search history.

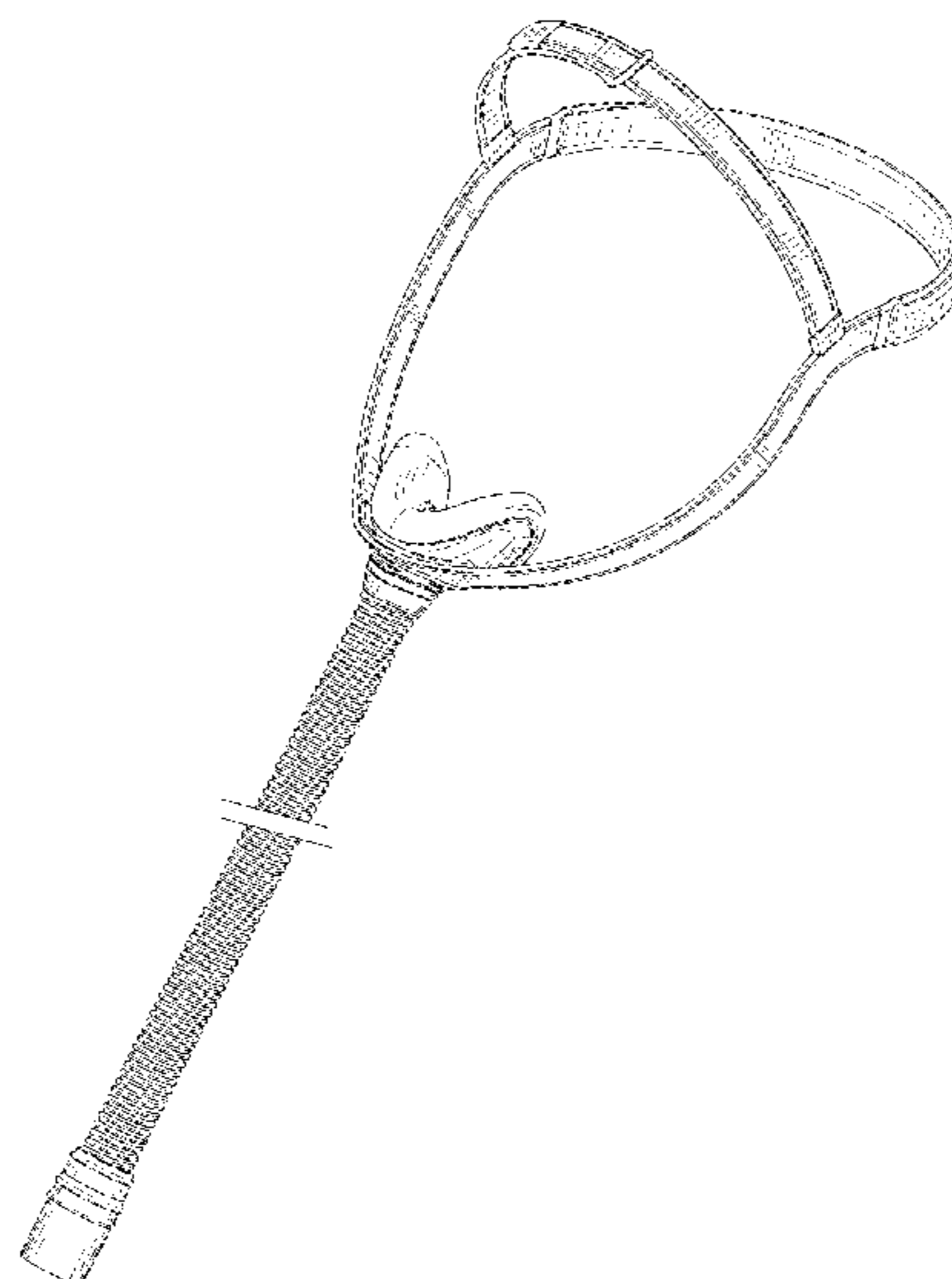
FIG. 1 is a top, front and right side perspective view of a nasal mask and breathing tube set showing our new design; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a left side view thereof; FIG. 5 is a right side view thereof; FIG. 6 is a top view thereof; FIG. 7 is a bottom view thereof; and, FIG. 8 is a top, front and right side perspective view thereof, shown with an alternative breathing tube having a set length. The breathing tube of the nasal mask is shown with a symbolic break in its length. The appearance of any portion of the article between the break lines forms no part of the claimed design. The broken lines in the drawings depict portions of the nasal mask and breathing tube set that form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,610,793 A 12/1926 Leo
2,353,643 A 7/1944 Bulbulian
2,452,722 A 11/1948 Boothby et al.
2,620,794 A 12/1952 George
2,970,593 A 2/1961 Seeler
3,040,741 A 6/1962 Carolan

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,295,529 A	1/1967	Stephen et al.	8,573,201 B2	11/2013	Rummery et al.
3,530,031 A	9/1970	Loew	8,573,212 B2	11/2013	Lynch et al.
3,792,702 A	2/1974	Delest	8,636,007 B2	1/2014	Rummery et al.
3,815,596 A	6/1974	Keener et al.	8,950,404 B2	2/2015	Formica et al.
3,824,999 A	7/1974	King	9,032,955 B2	5/2015	Lubke et al.
3,850,168 A	11/1974	Ferguson et al.	9,044,564 B2	6/2015	Dravitzki et al.
3,850,171 A	11/1974	Ball et al.	9,095,673 B2	8/2015	Barlow et al.
4,033,353 A	7/1977	La Rosa	D737,953 S *	9/2015	Wells D24/110
4,454,880 A	6/1984	Muto et al.	9,149,594 B2	10/2015	Kooij et al.
4,480,639 A	11/1984	Peterson et al.	D757,252 S *	5/2016	Von Moger D24/110.5
4,513,896 A	4/1985	Hirsch	D770,036 S *	10/2016	Walls D24/110.4
4,753,233 A	6/1988	Grimes	9,517,320 B2	12/2016	Barlow et al.
4,915,105 A	4/1990	Lee	9,539,403 B2	1/2017	Eves et al.
4,947,488 A	8/1990	Ashinoff	D787,662 S *	5/2017	Guney D24/110.4
4,960,121 A	10/1990	Nelson et al.	D797,921 S *	9/2017	Huang D24/110.4
5,237,986 A	8/1993	Seppala et al.	D798,439 S	9/2017	Siew et al.
5,485,837 A	1/1996	Solesbee et al.	D808,516 S	1/2018	Edwards et al.
5,560,354 A	10/1996	Berthon-Jones et al.	D815,728 S *	4/2018	Walls D24/110.4
5,657,752 A	8/1997	Landis et al.	10,039,894 B2 *	8/2018	Walls A61M 16/0683
5,676,133 A	10/1997	Hickle et al.	10,080,856 B2 *	9/2018	McLaren A61M 16/06
5,724,965 A	3/1998	Handke et al.	D855,793 S *	8/2019	Gordon D24/110.4
5,832,918 A	11/1998	Pantino	D857,190 S *	8/2019	Siew D24/110.4
5,921,239 A	7/1999	McCall et al.	2003/0196655 A1	10/2003	Ging et al.
6,019,101 A	2/2000	Cotner et al.	2004/0211427 A1	10/2004	Jones et al.
6,119,694 A	9/2000	Correa et al.	2004/0226566 A1	11/2004	Gunaratnam et al.
6,338,342 B1	1/2002	Fecteau et al.	2005/0051171 A1	3/2005	Booth
6,386,198 B1	5/2002	Rugless	2005/0076912 A1	4/2005	Eifler et al.
6,418,929 B1	7/2002	Norfleet	2006/0042629 A1	3/2006	Geist
6,431,172 B1	8/2002	Bordewick	2006/0169286 A1	8/2006	Eifler et al.
6,467,483 B1	10/2002	Kopacko et al.	2007/0062536 A1	3/2007	McAuley et al.
6,470,886 B1	10/2002	Jestrabek-Hart	2007/0095350 A1	5/2007	Darkin et al.
6,497,232 B2	12/2002	Fecteau et al.	2007/0175479 A1	8/2007	Groll
6,561,190 B1	5/2003	Kwok	2007/0175480 A1	8/2007	Gradon et al.
6,581,594 B1	6/2003	Drew et al.	2008/0047560 A1	2/2008	Veliss et al.
6,584,977 B1	7/2003	Serowski	2008/0092904 A1	4/2008	Gunaratnam et al.
6,591,837 B1	7/2003	Byram	2008/0092906 A1	4/2008	Gunaratnam et al.
6,729,333 B2	5/2004	Barnett et al.	2008/0190432 A1	8/2008	Blochlinger et al.
6,892,729 B2	5/2005	Smith et al.	2008/0196727 A1	8/2008	Ho et al.
6,928,657 B2	8/2005	Bell et al.	2008/0210241 A1	9/2008	Schulz et al.
6,951,218 B2	10/2005	Gradon et al.	2009/0044808 A1	2/2009	Guney et al.
7,077,139 B2	7/2006	Amante et al.	2009/0078264 A1	3/2009	Martin et al.
7,255,106 B2	8/2007	Gallem et al.	2009/0151729 A1	6/2009	Judson et al.
7,353,827 B2	4/2008	Geist	2009/0151733 A1	6/2009	Welchel et al.
7,448,386 B2	11/2008	Ho et al.	2009/0199856 A1	8/2009	Berlin
7,461,656 B2	12/2008	Gunaratnam et al.	2009/0223519 A1	9/2009	Eifler et al.
7,493,902 B2	2/2009	White et al.	2010/0000544 A1	1/2010	Blaszczkiewicz et al.
7,556,043 B2	7/2009	Ho et al.	2010/0006101 A1	1/2010	McAuley et al.
7,658,189 B2	2/2010	Davidson et al.	2010/0132717 A1	6/2010	Davidson et al.
7,703,457 B2	4/2010	Barnett et al.	2010/0192955 A1	8/2010	Biener et al.
7,743,767 B2	6/2010	Ging et al.	2010/0192957 A1	8/2010	Hobson et al.
7,753,051 B2	7/2010	Burrow et al.	2010/0229868 A1	9/2010	Rummery et al.
7,845,352 B2	12/2010	Sleeper et al.	2010/0313891 A1	12/2010	Veliss et al.
7,856,982 B2	12/2010	Matula, Jr. et al.	2010/0319700 A1	12/2010	Ng et al.
7,874,291 B2	1/2011	Ging et al.	2011/0000492 A1 *	1/2011	Veliss A61M 16/0666 128/207.13
7,874,293 B2	1/2011	Gunaratnam et al.	2011/0067704 A1	3/2011	Kooij et al.
7,896,003 B2	3/2011	Matula et al.	2011/0126841 A1	6/2011	Matula, Jr. et al.
7,931,023 B2	4/2011	Berthon-Jones et al.	2011/0146685 A1	6/2011	Allan et al.
7,975,694 B2	7/2011	Ho	2011/0232649 A1	9/2011	Collazo et al.
7,997,267 B2	8/2011	Ging et al.	2011/0240030 A1	10/2011	Ho et al.
8,042,546 B2	10/2011	Gunaratnam et al.	2011/0247627 A1	10/2011	Omura et al.
8,061,355 B2	11/2011	Jaffre et al.	2011/0265796 A1	11/2011	Amarasinghe
8,100,126 B2	1/2012	McAuley et al.	2011/0308526 A1	12/2011	Ho et al.
8,118,027 B2	2/2012	Matula, Jr. et al.	2011/0315141 A1	12/2011	Lavi et al.
8,127,764 B2	3/2012	Ho et al.	2012/0037161 A1	2/2012	Ging et al.
8,127,765 B2	3/2012	Ho et al.	2012/0067349 A1	3/2012	Barlow et al.
8,132,270 B2	3/2012	Lang et al.	2012/0090622 A1 *	4/2012	Chang A61M 16/0666 128/207.18
8,161,971 B2	4/2012	Jaffe et al.	2012/0132209 A1	5/2012	Rummery et al.
8,186,352 B2	5/2012	Gunaratnam et al.	2012/0138060 A1	6/2012	Barlow
8,291,906 B2	10/2012	Kooij et al.	2012/0152255 A1	6/2012	Barlow et al.
8,297,285 B2	10/2012	Henry et al.	2012/0216812 A1	8/2012	Pastoor et al.
8,371,302 B2	2/2013	Ging et al.	2012/0222680 A1	9/2012	Eves et al.
8,397,728 B2	3/2013	D'Souza et al.	2012/0304999 A1	12/2012	Swift et al.
8,505,535 B2	8/2013	Jones et al.	2012/0318270 A1	12/2012	McAuley et al.
D692,554 S *	10/2013	Siew D24/110.1	2013/0000648 A1	1/2013	Madaus et al.
8,550,084 B2	10/2013	Ng et al.	2013/0037030 A1	2/2013	Matula, Jr.
			2013/0139822 A1	6/2013	Gibson et al.
			2013/0152937 A1	6/2013	Jablonski

(56)

References Cited

U.S. PATENT DOCUMENTS

2013/0220327 A1 8/2013 Barlow et al.
 2013/0319422 A1 12/2013 Ho et al.
 2014/0000614 A1* 1/2014 Chang A61M 16/0666
 128/205.25
 2014/0026890 A1 1/2014 Haskard et al.
 2014/0053844 A1 2/2014 Rummery et al.
 2014/0060544 A1 3/2014 Matula, Jr. et al.
 2014/0073847 A1 3/2014 Mujwid et al.
 2014/0150798 A1 6/2014 Fong et al.
 2014/0166018 A1 6/2014 Dravitzki et al.
 2014/0174448 A1 6/2014 Dravitzki et al.
 2014/0190486 A1 7/2014 Dunn et al.
 2014/0209098 A1 7/2014 Dunn et al.
 2014/0238402 A1 8/2014 Austin et al.
 2014/0283843 A1* 9/2014 Eves A61M 11/00
 128/206.24
 2015/0090268 A1 4/2015 Madaus et al.
 2015/0128953 A1 5/2015 Formica et al.
 2015/0151071 A1 6/2015 Moger et al.
 2015/0174355 A1 6/2015 Willard et al.
 2015/0290415 A1 10/2015 Dunn
 2015/0352307 A1 12/2015 Rutan
 2016/0151596 A1* 6/2016 Slight A61M 16/0622
 128/207.18
 2016/0287830 A1* 10/2016 Walls A61M 16/0683
 2018/0304036 A1* 10/2018 Huang A61M 16/0666
 2019/0030272 A1* 1/2019 Graham A61M 16/0683

FOREIGN PATENT DOCUMENTS

EP 1488820 12/2004
 EP 1163923 12/2011

EP 2444113 4/2012
 EP 2481435 8/2012
 GB 377926 8/1932
 GB 823887 11/1959
 GB 826198 12/1959
 GB 880942 10/1961
 GB 974960 11/1964
 GB 1049604 11/1966
 GB 2367757 4/2002
 WO WO 1996/021788 11/1993
 WO WO 1997/000092 1/1997
 WO WO 1997/048432 12/1997
 WO WO 2002/11804 2/2002
 WO WO2004/073778 9/2004
 WO WO 2005/094928 10/2005
 WO WO 2008/007985 1/2008
 WO WO 2009/026627 3/2009
 WO WO 2009/052560 4/2009
 WO WO 2009/144695 12/2009
 WO WO 2010/131189 11/2010
 WO WO 2011/062510 5/2011
 WO WO 2011/142678 11/2011
 WO WO 2012/028995 3/2012
 WO WO 2012/045127 4/2012
 WO WO 2012/052902 4/2012
 WO WO 2012/055886 5/2012
 WO WO 2013/006065 1/2013
 WO WO 2013/071359 5/2013
 WO WO 2013/170290 11/2013
 WO WO 2014/015382 1/2014
 WO WO 2014/015383 1/2014
 WO WO 2014/110626 7/2014
 WO WO 2014110622 7/2014
 WO WO 2014/124323 8/2014
 WO WO 2015/070289 5/2015

* cited by examiner

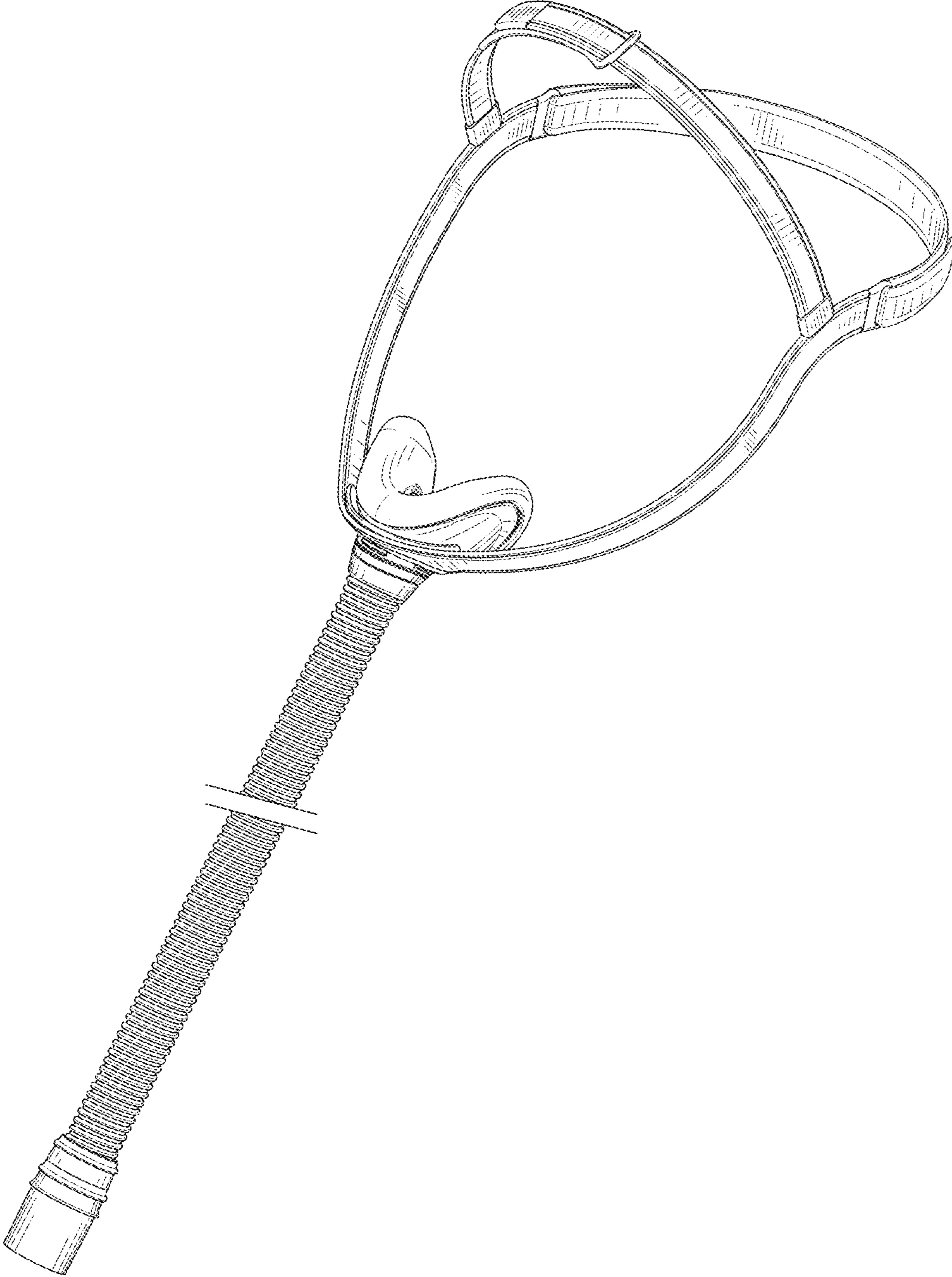


FIGURE 1

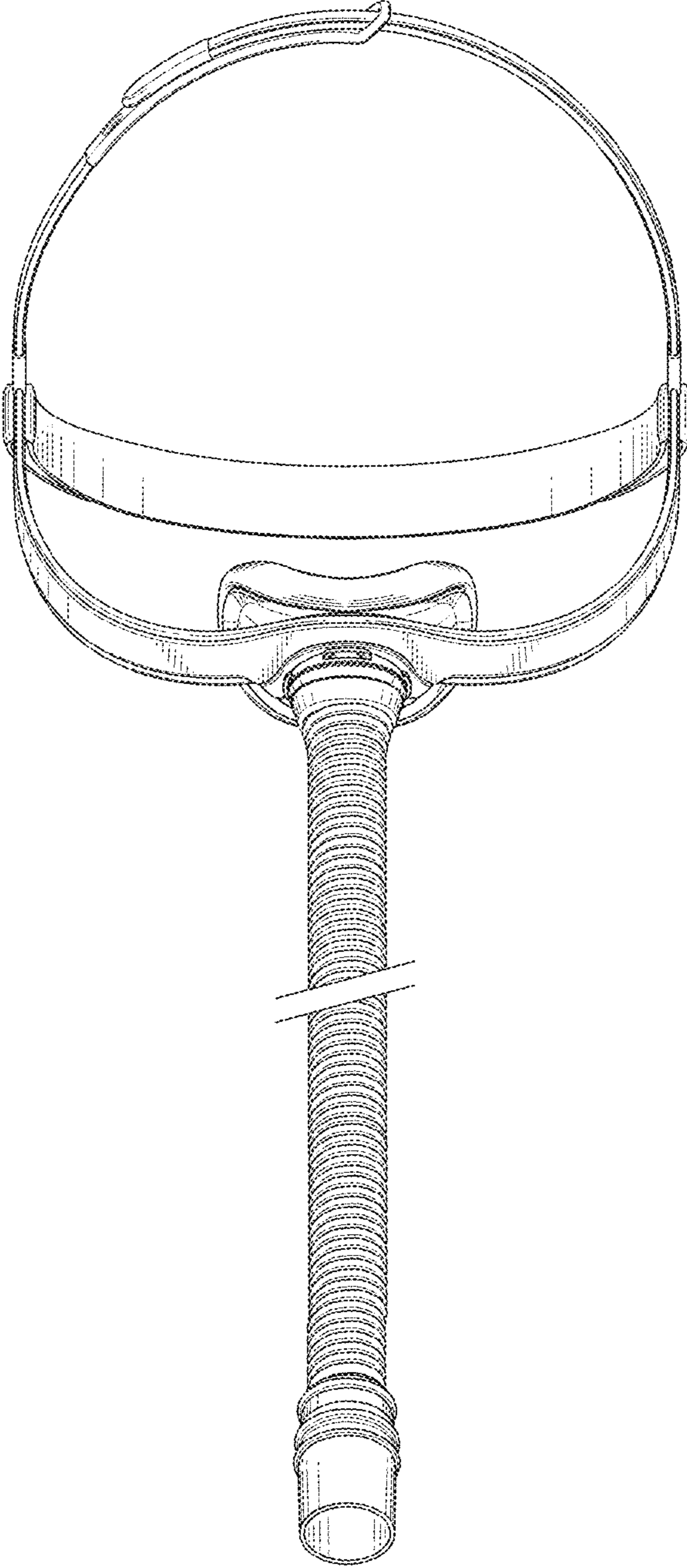


FIGURE 2

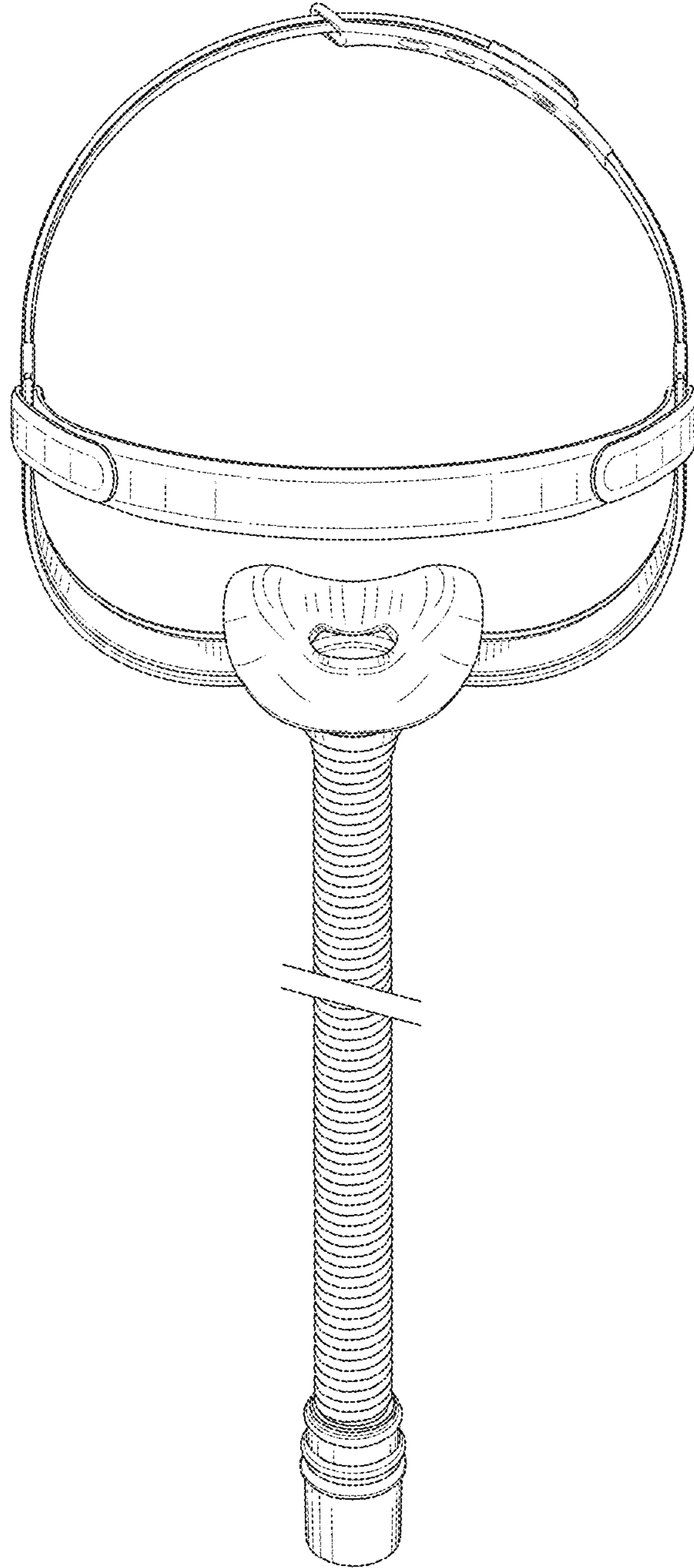


FIGURE 3

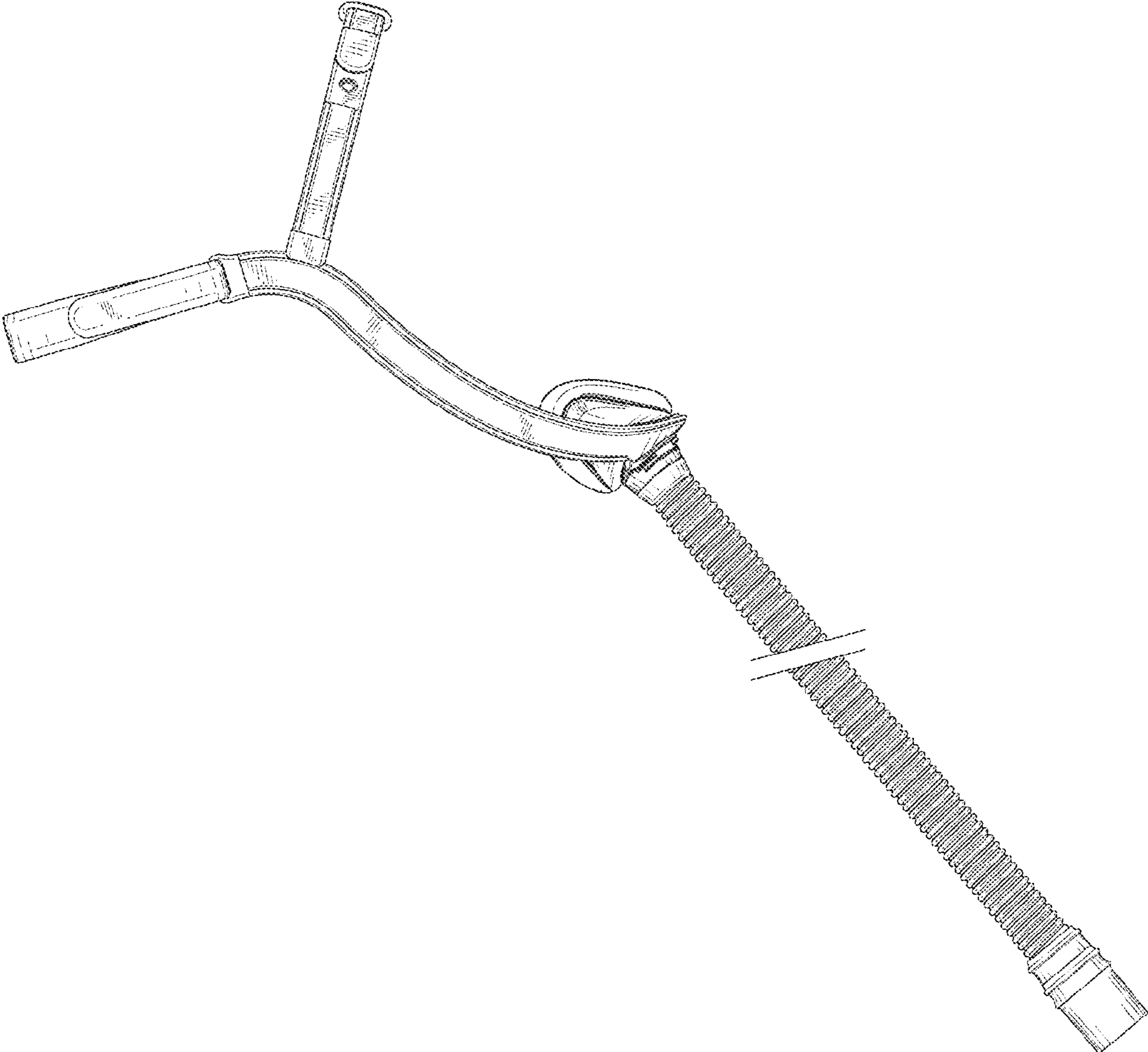


FIGURE 4

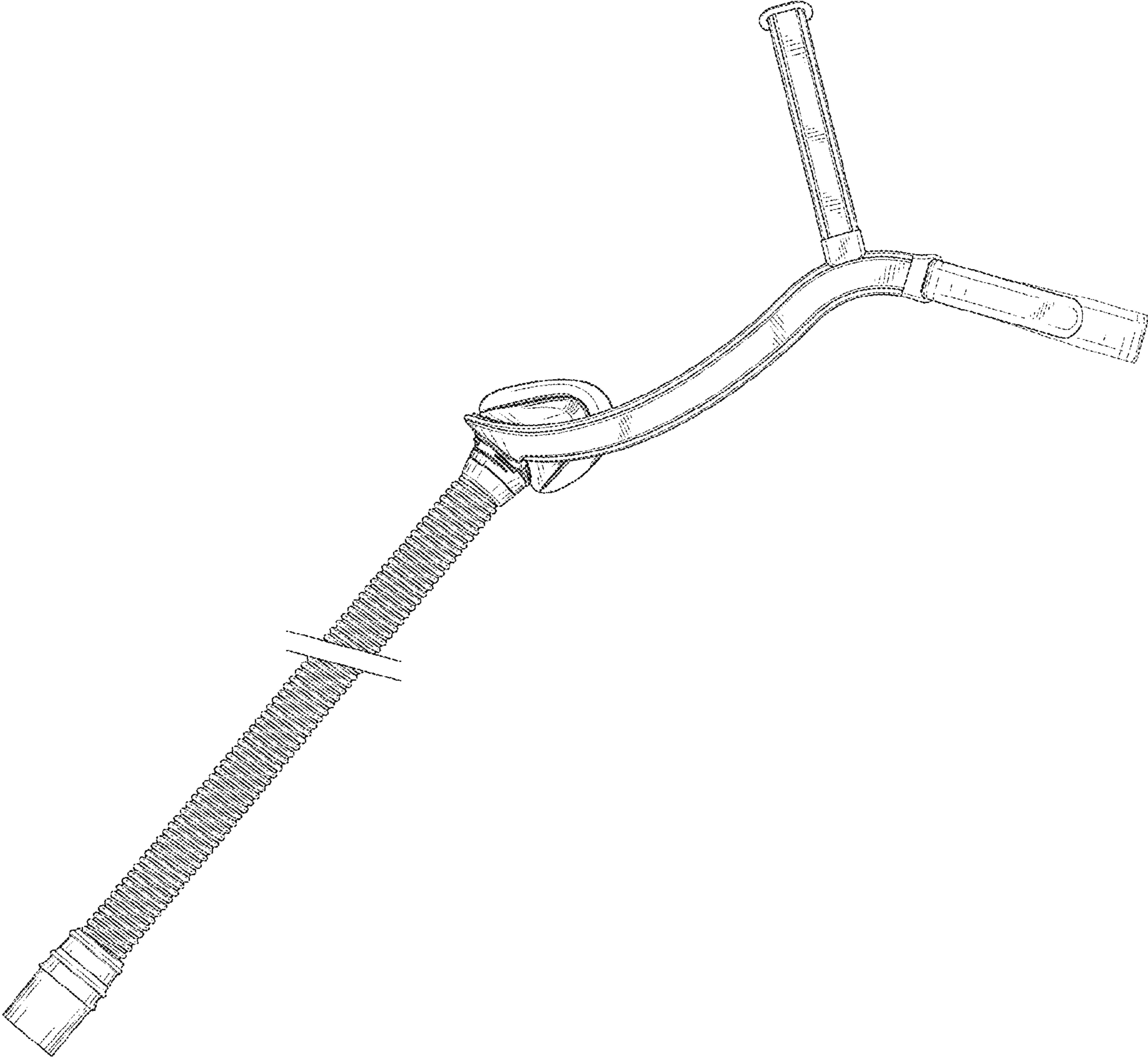


FIGURE 5

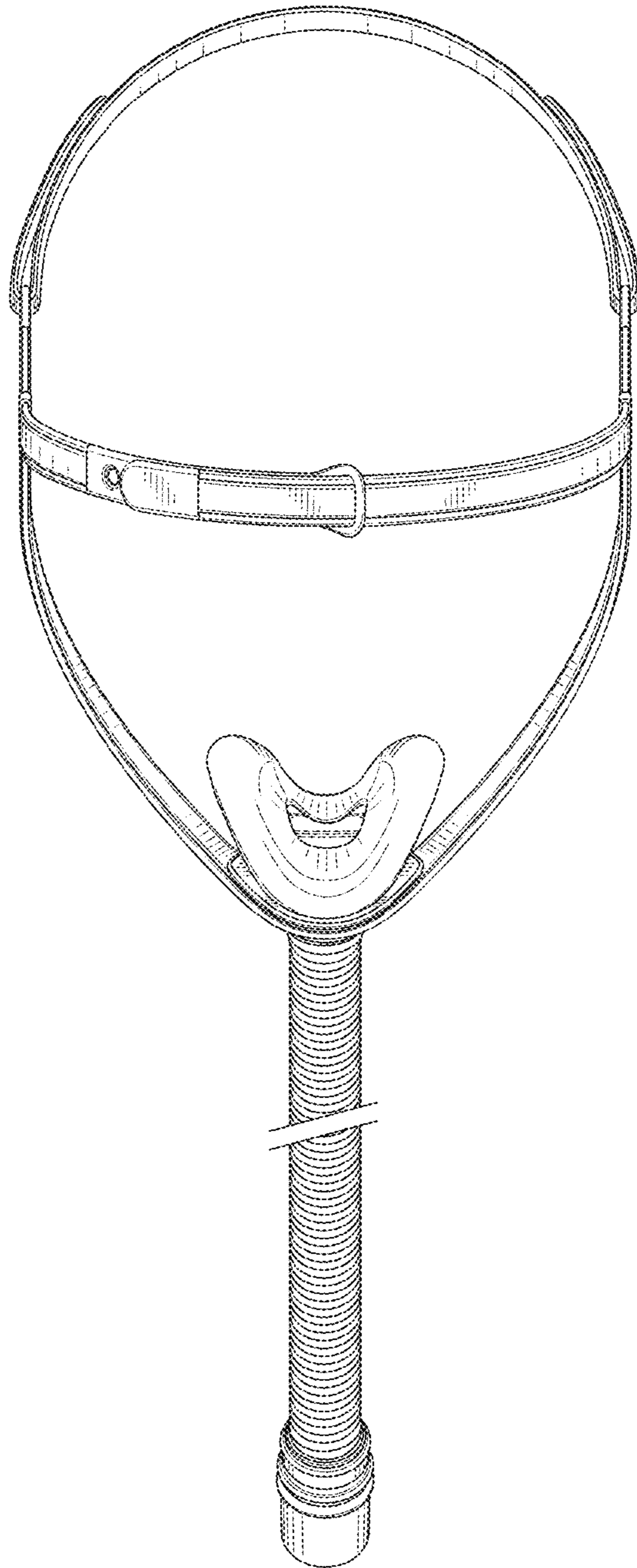


FIGURE 6

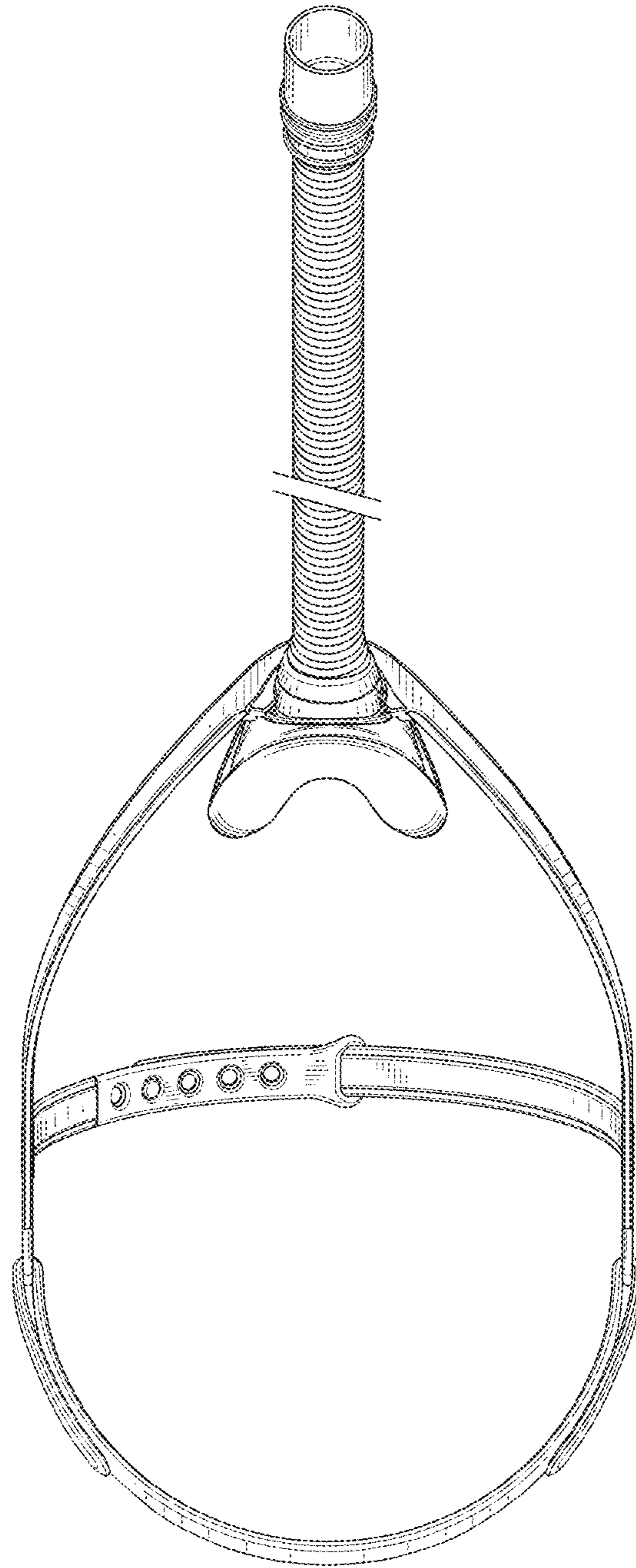


FIGURE 7

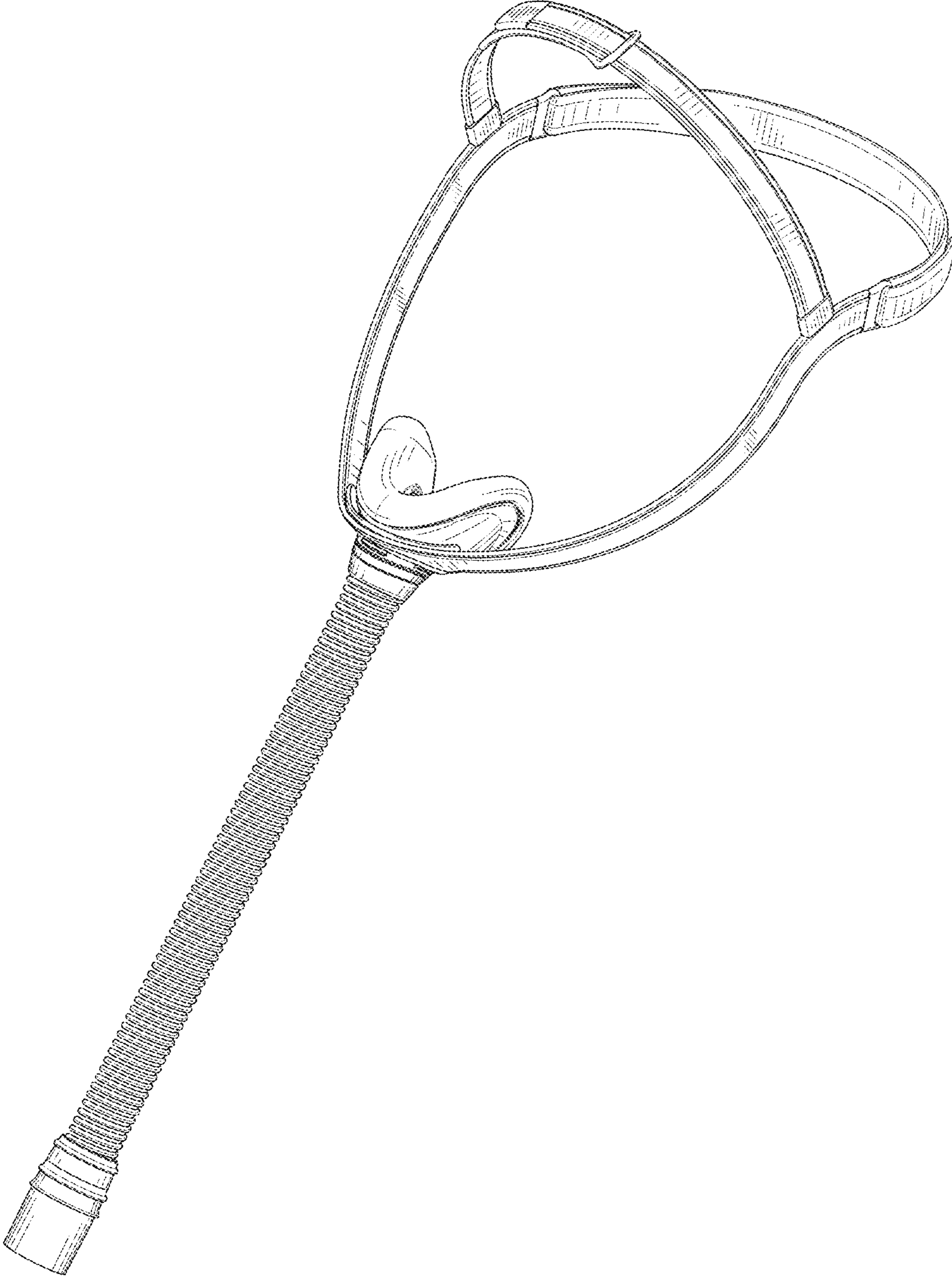


FIGURE 8