



US00D976393S

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

(10) **Patent No.:** **US D976,393 S**  
(45) **Date of Patent:** **\*\* Jan. 24, 2023**

(54) **SURGICAL MASK**

(71) Applicant: **REVOLUTIONARY MEDICAL DEVICES, INC.**, Mettawa, IL (US)  
(72) Inventors: **Thomas M. Reilly**, Tucson, AZ (US); **Michael J. Pedro**, Brooklyn, NY (US); **Steven H. Cataldo**, New York, NY (US); **Ryan G. Redford**, Tucson, AZ (US); **David M. Kane**, Tucson, AZ (US)  
(73) Assignee: **Revolutionary Medical Devices, Inc.**, Tucson, AZ (US)

(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/702,204**  
(22) Filed: **Aug. 16, 2019**

**Related U.S. Application Data**

(63) Continuation of application No. 29/657,380, filed on Jul. 20, 2018, now Pat. No. Des. 862,687, which is a continuation of application No. 29/530,124, filed on Jun. 12, 2015, now Pat. No. Des. 825,740, which is a continuation-in-part of application No. 29/520,420, filed on Mar. 13, 2015, now abandoned, which is a continuation-in-part of application No. 29/511,716, filed on Dec. 12, 2014, now abandoned.  
(51) **LOC (14) Cl.** ..... **29-02**  
(52) **U.S. Cl.**  
USPC ..... **D24/110.4**  
(58) **Field of Classification Search**  
USPC ..... D24/110, 110.1–110.6  
CPC . A41D 13/11; A41D 13/1107; A41D 13/1115; A41D 13/1123; A41D 13/113; A41D 13/1138; A41D 13/1146; A41D 13/1153; A41D 13/1161; A41D 13/1169; A41D 13/1176; A61M 16/06; A62B 18/00; A62B 18/02; A62B 18/025; A62B 23/00  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,050,621 A 1/1913 Ford  
1,131,802 A 3/1915 Stenshoel  
1,441,817 A 1/1923 McCullough  
1,729,525 A 9/1929 Stenshoel  
(Continued)

FOREIGN PATENT DOCUMENTS

CN 202478364 10/2012  
CN 202505937 10/2012  
(Continued)

OTHER PUBLICATIONS

Australian Certificate of Registration issued in application No. 201512961, dated Aug. 10, 2015 (5 pgs).  
(Continued)

*Primary Examiner* — Richard Kearney  
*Assistant Examiner* — Michael Hoffman  
(74) *Attorney, Agent, or Firm* — Morgan, Lewis & Bockius LLP

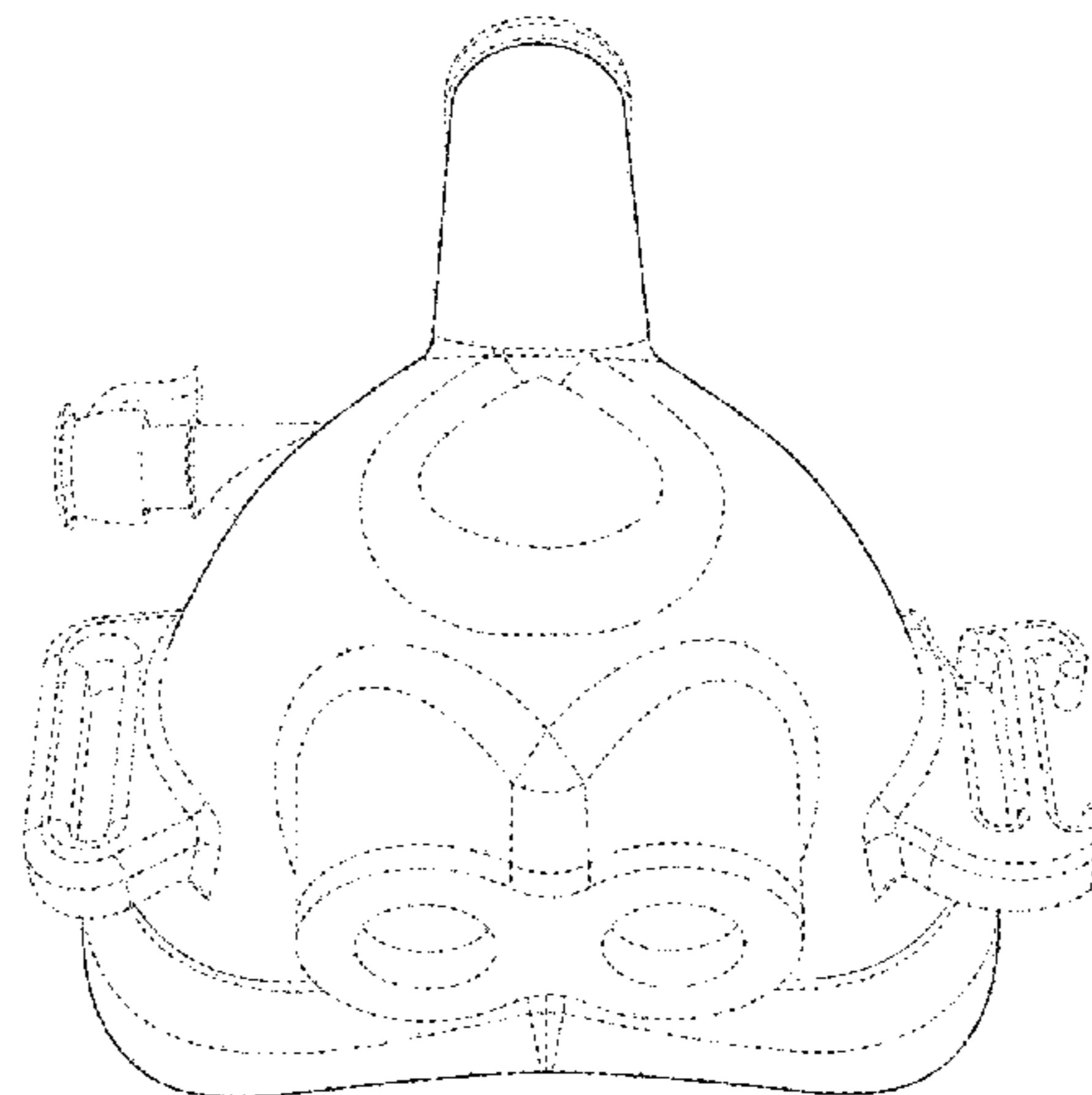
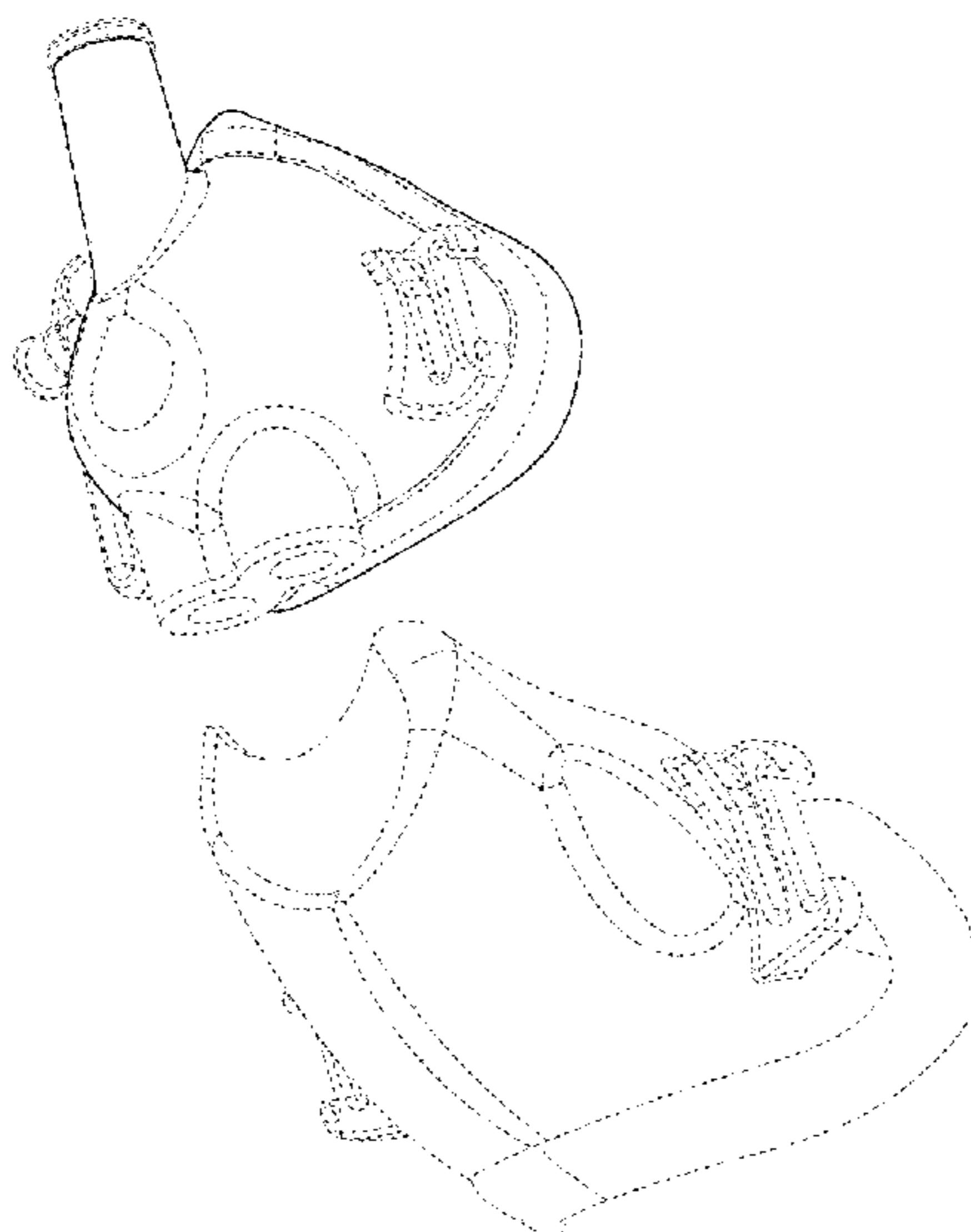
(57) **CLAIM**

The ornamental design for a surgical mask, as shown and described.

**DESCRIPTION**

FIG. 1 is a front plan view of the surgical mask in accordance with our invention;  
FIG. 2 is a right side view thereof;  
FIG. 3 is a left side view thereof;  
FIG. 4 is right side elevational view of the mask thereof; separated in two parts;  
FIG. 5 is a right side elevational view thereof; and,  
FIG. 6 is a top elevational view of the surgical mask.

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

1,776,167 A	9/1930	Stenshoel	6,112,746 A	9/2000	Kwok et al.
2,452,816 A	11/1948	Wagner	6,123,071 A	9/2000	Berthon-Jones et al.
2,843,121 A	7/1958	Hudson	6,129,082 A	10/2000	Leagre
2,939,458 A	6/1960	Lundquist	6,152,137 A	11/2000	Schwartz
3,013,556 A	12/1961	Galleher	D435,650 S	12/2000	Kwok
3,522,612 A	8/1970	Palmer	6,192,886 B1	2/2001	Rudolph
3,556,097 A	1/1971	Wallace	6,216,691 B1	4/2001	Kenyon et al.
3,779,164 A	12/1973	Study	6,263,874 B1	7/2001	LeDez et al.
3,815,596 A	6/1974	Keener et al.	6,342,040 B1	1/2002	Starr et al.
3,856,051 A	12/1974	Bain	6,357,441 B1	3/2002	Kwok et al.
3,889,668 A	6/1975	Ochs et al.	6,397,847 B1	6/2002	Scarberry et al.
3,897,777 A	8/1975	Morrison	6,401,713 B1	6/2002	Hill et al.
D242,490 S	11/1976	Belkin	6,412,487 B1	7/2002	Gunaratnam et al.
4,005,499 A	2/1977	Klein	6,412,488 B1	7/2002	Barnett et al.
4,007,737 A	2/1977	Paluch	6,439,230 B1	8/2002	Gunaratnam et al.
4,015,598 A	4/1977	Brown	6,439,231 B1	8/2002	Fukunaga et al.
4,188,946 A	2/1980	Watson et al.	6,446,288 B1	9/2002	Pi
D256,161 S	7/1980	Oliver	6,459,923 B1	10/2002	Plewes et al.
4,231,363 A	11/1980	Grimes	6,463,931 B1	10/2002	Kwok et al.
4,232,667 A	11/1980	Chalon et al.	6,467,483 B1	10/2002	Kopacko et al.
4,248,218 A	2/1981	Fischer	D467,345 S	12/2002	Gingles et al.
4,259,757 A	4/1981	Watson	6,513,526 B2	2/2003	Kwok et al.
4,265,235 A	5/1981	Fukunaga	6,520,182 B1	2/2003	Gunaratnam
4,265,239 A	5/1981	Fischer, Jr. et al.	6,581,602 B2	6/2003	Kwok et al.
4,275,720 A	6/1981	Wichman	6,584,977 B1	7/2003	Serowski
4,328,797 A	5/1982	Rollins, III	6,612,306 B1	9/2003	Mault
4,457,026 A	7/1984	Morris	6,615,835 B1	9/2003	Cise
4,463,755 A	8/1984	Suzuki	6,626,178 B2	9/2003	Morgan et al.
4,471,769 A	9/1984	Lockhart	6,631,713 B1	10/2003	Christopher
4,574,796 A	3/1986	Lundstrom	6,631,718 B1	10/2003	Lovell
4,596,246 A	6/1986	Lyll	6,634,358 B2	10/2003	Kwok et al.
4,657,010 A	4/1987	Wright	6,651,663 B2	11/2003	Barnett et al.
4,700,691 A	10/1987	Tari et al.	6,694,973 B1	2/2004	Dunhao et al.
4,770,169 A	9/1988	Schmoegner et al.	6,701,927 B2	3/2004	Kwok et al.
4,905,712 A	3/1990	Bowlin et al.	D489,817 S *	5/2004	Ankey ..... D24/110.4
5,046,200 A	9/1991	Feder	6,729,333 B2	5/2004	Barnett et al.
5,046,491 A	9/1991	Derrick	6,736,139 B1	5/2004	Wix
5,121,746 A	6/1992	Sikora	D493,523 S	7/2004	Barnett et al.
D333,404 S	2/1993	Thompson	6,779,524 B2	8/2004	Strawder et al.
5,243,971 A	9/1993	Sullivan et al.	6,792,943 B2	9/2004	Kumar et al.
5,255,303 A	10/1993	DiMaio et al.	6,796,308 B2	9/2004	Gunaratnam et al.
5,271,390 A	12/1993	Gray et al.	6,805,117 B1	10/2004	Ho et al.
5,284,160 A	2/1994	Dryden	6,832,610 B2	12/2004	Gradon et al.
D347,494 S	5/1994	Mustelier, Jr.	6,863,071 B2	3/2005	Annett et al.
D354,128 S	1/1995	Rinehart	6,871,649 B2	3/2005	Kwok et al.
5,404,873 A	4/1995	Leagre et al.	6,892,729 B2	5/2005	Smith et al.
5,462,050 A	10/1995	Dahlstrand	6,895,965 B2	5/2005	Scarberry et al.
5,474,060 A	12/1995	Evans	6,931,664 B1	8/2005	Chen
5,485,837 A	1/1996	Solesbee et al.	6,935,337 B2	8/2005	Virr et al.
5,524,639 A	6/1996	Lanier et al.	6,981,503 B1	1/2006	Shapiro
D373,921 S	9/1996	Palomo et al.	7,004,168 B2	2/2006	Mace et al.
5,557,049 A	9/1996	Ratner	7,007,696 B2	3/2006	Palkon et al.
5,560,354 A	10/1996	Berthon-Jones et al.	7,013,896 B2	3/2006	Schmidt
5,586,551 A	12/1996	Hilliard	7,017,576 B2	3/2006	Olsen et al.
5,647,357 A	7/1997	Barnett et al.	7,021,311 B2	4/2006	Gunaratnam
5,649,331 A	7/1997	Wilkinson et al.	7,036,508 B2	5/2006	Kwok
5,660,174 A	8/1997	Jacobelli	7,047,971 B2	5/2006	Ho et al.
5,661,859 A	9/1997	Schaefer	7,066,179 B2 *	6/2006	Eaton ..... A61M 16/0683 128/207.11
5,685,298 A	11/1997	Idris	7,069,932 B2 *	7/2006	Eaton ..... A61M 16/0683 128/206.28
5,738,094 A	4/1998	Hoftman	7,069,933 B2	7/2006	Kwok et al.
5,746,201 A	5/1998	Kidd	7,114,498 B1	10/2006	Nashed
5,749,358 A	5/1998	Good et al.	7,159,587 B2	1/2007	Drew et al.
5,778,872 A	7/1998	Fukunaga et al.	7,178,524 B2	2/2007	Noble
D402,755 S	12/1998	Kwok	7,178,527 B2	2/2007	Kwok et al.
5,884,624 A	3/1999	Barnett et al.	7,210,481 B1	5/2007	Lovell et al.
5,933,886 A	8/1999	Washington	7,219,669 B1	5/2007	Lovell et al.
RE36,339 E	10/1999	Rapoport	7,237,551 B2	7/2007	Ho et al.
5,966,763 A	10/1999	Thomas et al.	7,243,651 B2	7/2007	Kwok et al.
5,975,079 A	11/1999	Hellings et al.	7,287,528 B2	10/2007	Ho et al.
5,983,896 A	11/1999	Fukunaga et al.	7,341,060 B2	3/2008	Ging et al.
6,003,511 A	12/1999	Fukunaga et al.	7,383,839 B2	6/2008	Porat et al.
6,019,101 A	2/2000	Cotner et al.	7,445,602 B2	11/2008	Yamamori
6,035,852 A	3/2000	Hoftman	7,448,386 B2	11/2008	Ho et al.
6,058,933 A	5/2000	Good et al.	7,467,431 B2	12/2008	Weedling et al.
D428,987 S	8/2000	Kwok	7,487,772 B2	2/2009	Ging et al.
			7,487,777 B2	2/2009	Gunaratnam et al.
			7,500,280 B2	3/2009	Dixon et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

7,500,482 B2	3/2009	Biederman	8,707,950 B1	4/2014	Rubin
7,614,398 B2	11/2009	Virr et al.	8,714,157 B2	5/2014	McAuley et al.
7,631,644 B2	12/2009	Ho et al.	8,752,551 B2	6/2014	Chandran et al.
7,665,464 B2	2/2010	Kopacko et al.	8,807,134 B2	8/2014	Ho et al.
7,669,599 B2	3/2010	Gunaratnam et al.	8,807,135 B2 *	8/2014	Worboys ..... A61M 16/0605 128/206.28
7,700,129 B2	4/2010	Ito et al.	8,813,748 B2	8/2014	Kwok et al.
7,743,767 B2	6/2010	Ging et al.	8,881,728 B2	11/2014	Sher et al.
7,753,051 B2	7/2010	Burrow et al.	8,915,861 B2	12/2014	Yamamori et al.
7,779,832 B1	8/2010	Ho	8,939,151 B2	1/2015	McAuley et al.
7,841,988 B2	11/2010	Yamamori	8,944,061 B2	2/2015	D'Souza et al.
7,870,859 B2	1/2011	Barnett et al.	D726,303 S	4/2015	Rollins, III
7,874,292 B2	1/2011	Smith et al.	9,010,330 B2	4/2015	Barlow et al.
7,913,337 B1	3/2011	Masson	9,010,331 B2	4/2015	Lang et al.
7,926,487 B2	4/2011	Drew et al.	9,022,029 B2	5/2015	Varga et al.
7,927,285 B2	4/2011	Yamamori	9,027,556 B2	5/2015	Ng et al.
7,931,024 B2	4/2011	Ho et al.	9,138,169 B2	9/2015	Beard
7,938,117 B2	5/2011	Chiesa et al.	D740,409 S *	10/2015	Siew ..... D24/110
7,950,392 B2	5/2011	Kwok et al.	9,186,474 B1	11/2015	Rollins, III
7,975,694 B2	7/2011	Ho	D745,139 S *	12/2015	Chen ..... D24/110
7,997,267 B2	8/2011	Ging et al.	9,295,799 B2	3/2016	McAuley et al.
8,001,968 B2	8/2011	Doty et al.	9,295,800 B2	3/2016	Davidson et al.
8,001,970 B2	8/2011	King et al.	D753,287 S *	4/2016	Darab ..... D24/110.4
8,028,699 B2	10/2011	Ho et al.	D753,816 S	4/2016	Beard
8,042,539 B2	10/2011	Chandran et al.	D754,328 S *	4/2016	Bowsher ..... D24/110.1
8,042,541 B2	10/2011	Amarasinghe et al.	9,375,545 B2 *	6/2016	Darkin ..... A61M 16/0611
8,056,561 B2	11/2011	Kwok et al.	D809,131 S *	1/2018	Law ..... D24/110.4
8,132,270 B2	3/2012	Lang et al.	D821,570 S *	6/2018	Linton ..... D24/110.4
8,161,971 B2	4/2012	Jaffe	D825,740 S *	8/2018	Reilly ..... D24/110.4
8,191,553 B2	6/2012	Haworth et al.	D848,606 S *	5/2019	Reilly ..... D24/110.4
8,210,181 B2	7/2012	Gunaratnam et al.	D862,687 S *	10/2019	Reilly ..... D24/110.4
8,261,745 B2	9/2012	Chandran et al.	D868,242 S *	11/2019	Baigent ..... D24/110.4
8,261,746 B2	9/2012	Lynch et al.	D892,306 S *	8/2020	Reilly ..... D24/110.4
8,267,091 B2	9/2012	Smith et al.	D898,188 S *	10/2020	Pedro ..... D24/110.4
8,302,224 B2	11/2012	Lehmann	D904,599 S *	12/2020	Tanabe ..... D24/110.4
8,312,883 B2	11/2012	Gunaratnam et al.	D929,572 S *	8/2021	Reilly ..... D24/110.4
8,336,142 B1	12/2012	See et al.	D930,151 S *	9/2021	Pedro ..... D24/110.4
8,336,549 B2	12/2012	Nashed	2002/0074001 A1	6/2002	Kwok et al.
8,347,889 B2	1/2013	Farnum	2002/0174868 A1	11/2002	Kwok et al.
8,365,734 B1	2/2013	Lehman	2003/0024533 A1	2/2003	Sniadach
8,397,724 B2	3/2013	Sher et al.	2003/0145859 A1	8/2003	Bohn et al.
D681,383 S	5/2013	Derman et al.	2003/0183232 A1	10/2003	Fukunaga et al.
8,443,807 B2	5/2013	McAuley et al.	2004/0069306 A1	4/2004	Moenning
8,485,190 B2	7/2013	Barnett et al.	2004/0221850 A1	11/2004	Ging et al.
8,485,192 B2	7/2013	Davidson et al.	2005/0028811 A1	2/2005	Nelson et al.
8,490,623 B2	7/2013	Berthon-Jones et al.	2005/0145247 A1	7/2005	Nashed
RE44,453 E	8/2013	Virr et al.	2005/0160532 A1	7/2005	Froelich
8,479,726 B2	9/2013	McAuley	2005/0193493 A1	9/2005	Gabbay
8,522,783 B2	9/2013	Kwok et al.	2006/0032500 A1	2/2006	Ghiron et al.
8,528,558 B2	9/2013	Drew et al.	2006/0042631 A1	3/2006	Martin et al.
D692,127 S *	10/2013	Lee ..... D24/110.4	2006/0118117 A1	6/2006	Berthon-Jones et al.
8,550,081 B2	10/2013	Davidson et al.	2006/0124131 A1	6/2006	Chandran et al.
8,550,082 B2	10/2013	Davidson et al.	2006/0168730 A1	8/2006	Menkedick et al.
8,550,083 B2	10/2013	Davidson et al.	2006/0174889 A1	8/2006	Noble
8,555,885 B2	10/2013	Davidson et al.	2006/0231091 A1	10/2006	Camarillo
8,567,402 B2	10/2013	Gunaratnam et al.	2007/0062536 A1	3/2007	McAuley et al.
8,567,404 B2	10/2013	Davidson et al.	2007/0113847 A1	5/2007	Acker et al.
D693,603 S	11/2013	Esquivel et al.	2007/0113856 A1	5/2007	Acker et al.
8,573,211 B2	11/2013	Ho et al.	2007/0267017 A1	11/2007	McAuley et al.
8,573,212 B2	11/2013	Lynch et al.	2007/0271699 A1	11/2007	Sacchetti
8,573,213 B2	11/2013	Davidson et al.	2007/0295335 A1	12/2007	Nashed
8,573,214 B2	11/2013	Davidson et al.	2008/0053446 A1	3/2008	Sleeper et al.
8,573,215 B2	11/2013	Davidson et al.	2008/0092898 A1	4/2008	Schneider et al.
8,573,217 B2	11/2013	Todd et al.	2008/0196715 A1	8/2008	Yamamori
8,578,935 B2	11/2013	Davidson et al.	2008/0221470 A1	9/2008	Sather et al.
8,578,939 B1	11/2013	Kimani Mwangi et al.	2008/0230067 A1	9/2008	Kwok et al.
8,613,280 B2	12/2013	Davidson et al.	2009/0084385 A1	4/2009	Lang
8,613,281 B2	12/2013	Davidson et al.	2009/0114229 A1	5/2009	Frater et al.
8,616,211 B2	12/2013	Davidson et al.	2009/0114230 A1 *	5/2009	Hernandez ..... A61M 16/0616 128/206.24
8,631,792 B2	1/2014	Ho et al.	2009/0133696 A1	5/2009	Remmers et al.
8,636,006 B2	1/2014	Kwok et al.	2009/0178680 A1	7/2009	Chang
D700,697 S *	3/2014	Ho ..... D24/110.4	2009/0250061 A1	10/2009	Marasigan
8,667,965 B2	3/2014	Gunaratnam et al.	2009/0260628 A1	10/2009	Flynn, Sr.
D703,807 S *	4/2014	Chu ..... D24/110.1	2009/0301472 A1	12/2009	Kim et al.
8,684,004 B2	4/2014	Eifler	2009/0320850 A1	12/2009	Wallnewitz et al.
8,689,366 B2	4/2014	Ho	2010/0122701 A1	5/2010	Gunaratnam
			2010/0147313 A1	6/2010	Albrecht
			2010/0170513 A1	7/2010	Bowditch

(56)

References Cited

U.S. PATENT DOCUMENTS

2010/0170516 A1 7/2010 Grane  
 2010/0218316 A1 9/2010 Nissen et al.  
 2010/0224199 A1 9/2010 Smith et al.  
 2010/0275919 A1 11/2010 Sung  
 2010/0313891 A1 12/2010 Veliss et al.  
 2011/0054366 A1 3/2011 Smith et al.  
 2011/0072582 A1 3/2011 Patterson et al.  
 2011/0083670 A1 4/2011 Walacavage  
 2011/0092930 A1 4/2011 Poorman  
 2011/0108035 A1 5/2011 Samaniego  
 2011/0114099 A1 5/2011 Goldstein  
 2011/0155136 A1 6/2011 Lee  
 2011/0173750 A1 7/2011 Lehmann  
 2011/0186050 A1 8/2011 Daly  
 2011/0214674 A1\* 9/2011 Ging ..... A61M 16/0683  
 128/206.21  
 2011/0253150 A1 10/2011 King  
 2011/0265796 A1 11/2011 Amarasinghe et al.  
 2011/0290253 A1 12/2011 McAuley et al.  
 2012/0080035 A1 4/2012 Guney et al.  
 2012/0111330 A1 5/2012 Gartner  
 2012/0144588 A1 6/2012 Heimbrock et al.  
 2012/0180220 A1 7/2012 Popitz  
 2012/0222680 A1 9/2012 Eves et al.  
 2012/0227736 A1 9/2012 Bowsher  
 2012/0234326 A1 9/2012 Mazzone et al.  
 2012/0247475 A1 10/2012 Hernandez et al.  
 2012/0285455 A1 11/2012 Varga et al.  
 2012/0285466 A1 11/2012 Pierro et al.  
 2013/0014760 A1 1/2013 Matula, Jr. et al.  
 2013/0023729 A1 1/2013 Vazales  
 2013/0060157 A1 3/2013 Beard  
 2013/0109992 A1 5/2013 Guyette  
 2013/0146060 A1\* 6/2013 Ho ..... A61M 16/0666  
 128/205.25  
 2013/0186413 A1 7/2013 Haines et al.  
 2013/0190643 A1 7/2013 Brambilla  
 2013/0192601 A1 8/2013 Reischl et al.  
 2013/0192602 A1 8/2013 Leibitzki et al.  
 2013/0199537 A1 8/2013 Formica et al.  
 2013/0319417 A1 12/2013 Weinman  
 2014/0076311 A1 3/2014 Darab  
 2014/0083425 A1 3/2014 Moenning  
 2014/0144448 A1 5/2014 Eifler  
 2014/0158135 A1 6/2014 Shyong  
 2014/0158136 A1 6/2014 Romagnoli et al.  
 2014/0215687 A1 8/2014 Andrews  
 2014/0243600 A1 8/2014 Eisenberger  
 2014/0245537 A1 9/2014 Allen  
 2014/0251333 A1 9/2014 Burk  
 2014/0326246 A1\* 11/2014 Chodkowski ..... A61M 16/0622  
 128/206.24  
 2014/0352072 A1 12/2014 Holladay  
 2014/0360504 A1\* 12/2014 Kwok ..... A61M 16/0069  
 128/205.25  
 2015/0047647 A1 2/2015 Winer  
 2015/0059759 A1 3/2015 Frater et al.  
 2015/0144140 A1 5/2015 Eury  
 2015/0217075 A1 8/2015 Nair  
 2015/0238716 A1 8/2015 Budhiraja et al.  
 2015/0250970 A1 9/2015 Bowsher  
 2015/0250971 A1 9/2015 Bachelder et al.  
 2015/0273170 A1 10/2015 Bachelder et al.  
 2015/0273171 A1 10/2015 Sullivan et al.  
 2015/0335852 A1 11/2015 Miller  
 2016/0015923 A1\* 1/2016 Chodkowski ..... A62B 18/084  
 128/206.21  
 2016/0022944 A1\* 1/2016 Chodkowski ..... A61M 16/0616  
 128/206.24  
 2016/0038709 A1 2/2016 Beard  
 2016/0067441 A1 3/2016 Bearne et al.  
 2016/0184540 A1 6/2016 Kokko  
 2016/0213871 A1 7/2016 Darab  
 2016/0279368 A1\* 9/2016 Isenberg ..... A61M 16/0605

2018/0333553 A1\* 11/2018 Brown ..... A61M 16/0816  
 2018/0369529 A1\* 12/2018 Grashow ..... A61M 16/06  
 2021/0401086 A1\* 12/2021 Chandler ..... A41D 13/1161  
 2022/0257893 A1\* 8/2022 Pedro ..... A61M 16/0078  
 2022/0257896 A1\* 8/2022 Payton ..... A61M 16/16

FOREIGN PATENT DOCUMENTS

DE 19947722 4/2001  
 EP 2433666 3/2012  
 GB 187863 11/1922  
 GB 2456136 7/2009  
 WO WO-2010059592 5/2010  
 WO WO-2013036839 3/2013  
 WO WO-2013/064950 5/2013  
 WO WO2014038959 3/2014  
 WO WO 2014210606 12/2014  
 WO WO 2015063283 5/2015  
 WO WO 2015131262 9/2015  
 WO WO 2015147947 10/2015  
 WO WO 2015187995 12/2015  
 WO WO 2016007749 1/2016  
 WO WO 2016097948 6/2016

OTHER PUBLICATIONS

Australian Certificate of Registration issued in application No. 201512962, dated Aug. 12, 2015 (5 pgs).  
 Ball et al., "Performance comparison of two anesthetic facemasks," Anaesth Intensive Care, Apr. 2007, vol. 35, issue 2, 226-9 (abstract only) (2 pgs).  
 Canadian Office Action issued in application No. 162891, dated Apr. 5, 2016 (1 pg).  
 Canadian Office Action issued in application No. 162891, dated Nov. 10, 2015 (7 pgs).  
 Chinese First Notification to Make Rectification issued in application No. 201730161613.8, dated Aug. 7, 2017 (2 pgs).  
 Chinese First Office Action issued in application No. 201480042735.9 dated Apr. 5, 2017 (w/ translation) (18 pgs).  
 Chinese Notification of Grant issued in application No. 201530191921.6, dated Feb. 15, 2016 (12 pgs).  
 Chinese Second Notification to Make Rectification issued in application No. 201730161613.8, dated Sep. 19, 2017 (11 pgs).  
 Chinese Second Office Action issued in application No. 201480042735.9, dated Nov. 6, 2017 (21 pgs).  
 CPAP product description, <http://www.cpap.com/productpage/pr-amara-full-face-cpap-mask-gel-silicone-.html>, downloaded Jul. 28, 2016, 11 pages.  
 Cpapxchange product image, <http://www.cpapxchange.com/cpap-masks-bipap-masks/bluegel-full-cushion-co-mfortgel-cpap-bipap-masks.jpg>, downloaded Jul. 28, 2016, 1 page.  
 DirectHome Medical product description, [http://www.directhomemedical.com/profilelite-gel-cpap-mask-philipsrespiro-nics.html#\\_VwXLIPkrLIU](http://www.directhomemedical.com/profilelite-gel-cpap-mask-philipsrespiro-nics.html#_VwXLIPkrLIU), downloaded Jul. 28, 2016, 6 pages.  
 European Examination Report issued in application 003933217-0001, dated May 16, 2017 (2 pgs).  
 European Supplementary Partial European Search Report for application No. 14818563.0, dated Jan. 30, 2017 (6 pages).  
 Extended European Search Report issued in application No. 14818563.0-1651 dated May 3, 2017 (12 pgs).  
 Indian Office Action issued in related Indian Design Patent Application Serial No. 272704, dated Aug. 28, 2015 (13 pgs).  
 InnoMed Technologies Hybrid mask product description, <http://innomedinc.com/hybrid/>, downloaded Jul. 28, 2016, 4 pages.  
 InnoMed Technologies Sylent mask product description, <http://innomedinc.com/sylent-ne-disposable-nasal-mask/>, downloaded Jul. 28, 2016, 2 pages.  
 International Preliminary Report on Patentability issued in application No. PCT/US14/44934, dated Jan. 7, 2016 (12 pgs).  
 International Preliminary Report on Patentability issued in application No. PCT/US2015/044341, dated Mar. 2, 2017 (10 pgs).  
 International Preliminary Report on Patentability issued in application No. PCT/US2016/037070, dated Dec. 12, 2017 (7 pgs).

(56)

**References Cited**

## OTHER PUBLICATIONS

- International Preliminary Report on Patentability issued in application No. PCT/US2105/021323, dated Oct. 6, 2016 (8 pgs).
- International Search Report and Written Opinion issued in application No. PCT/US2015/044341, dated Jan. 7, 2016, (13 pgs).
- International Search Report and Written Opinion issued in application No. PCT/US2015/34277, dated Nov. 23, 2015 (16 pgs).
- International Search Report and Written Opinion issued in application No. PCT/US2015/34277, dated Nov. 23, 2015 (17 pgs).
- International Search Report and Written Opinion issued in application No. PCT/US2016/037070, dated Nov. 10, 2016 (11 pgs).
- International Search Report and Written Opinion issued in application No. PCT/US2017/048046, dated Nov. 6, 2017 (11 pgs).
- International Search Report issued in application No. PCT/US14/44934, dated Jan. 2, 2015 (16 pgs).
- Invitation to Pay Additional Fees issued in application No. PCT/US14/44934, dated Oct. 24, 2014 (3 pgs).
- Invitation to Pay Additional Fees issued in application No. PCT/US15/44341, dated Oct. 21, 2015 (2 pgs).
- Invitation to Pay Additional Fees issued in application No. PCT/US15/45357, dated Oct. 26, 2015 (2 pgs).
- Israeli Notice of Allowance issued in application No. 57056 (no translation), dated May 29, 2016 (1 pg).
- Israeli Office Action issued in application No. 10593/0014.000-57056 (w/translation of relevant portions), dated Nov. 1, 2015 (3 pgs).
- Israeli Office Action issued in application No. 10593/0016.000-57850 (w/translation of relevant portions), dated Feb. 15, 2016 (3 pgs).
- Israeli Office Action issued in application No. 57056 (w/translation of relevant portions), dated Nov. 1, 2015 (3 pgs).
- Israeli Office Action issued in application No. 57850 (w/translation of relevant portions), dated Feb. 15, 2016 (3 pgs).
- Israeli Office Action issued in application No. 57850 (w/translation of relevant portions), dated Jul. 19, 2016 (3 pgs).
- Israeli Office Action issued in application No. 57850 (w/translation of relevant portions), dated Jun. 30, 2016 (2 pgs).
- Japanese Certified Decision for Registration issued in application No. 2016-005262, dated Dec. 22, 2017 (4 pgs).
- Japanese Certified Decision for Registration issued in application No. 2016-005263, dated Dec. 22, 2017 (4 pgs).
- Japanese Decision for Registration issued in application No. 2017-009813, dated Oct. 6, 2017 (2 pgs).
- Japanese Decision for Registration issued in application on. 2016-006559, dated May 12, 2017 (w/ translation) (2 pgs).
- Japanese Decision for Registration issued in application on. 2016-006560, dated May 12, 2017 (w/ translation) (2 pgs).
- Japanese Office Action (w/translation) issued in application 2016-005262, dated Apr. 28, 2017 (7 pgs).
- Japanese Office Action (w/translation) issued in application 2016-005263, dated Apr. 28, 2017 (8 pgs).
- Japanese Office Action (w/translation) issued in application No. 2016-006559, dated Aug. 29, 2016 (3 pgs).
- Japanese Office Action (w/translation) issued in application No. 2016-006560, dated Aug. 29, 2016 (3 pgs).
- Japanese Office Action issued in application No. 2015-013148, dated Dec. 4, 2015 (3 pgs).
- Japanese Office Action issued in application No. 2016-005262, dated Jun. 30, 2016 (1 pg).
- Japanese Office Action issued in application No. 2016-005263, dated Jun. 30, 2016 (1 pg).
- Japanese Office Action issued in application No. 2017-009813, dated Jul. 20, 2017 (3 pgs).
- Korean Design of Registration issued in Korean related Application Serial No. 30-2015-0029561, M001 (w/translation), dated Jun. 29, 2016 (3 pgs).
- Korean Design of Registration issued in Korean related Application Serial No. 30-2015-0029561, M002 (w/translation), dated Jun. 27, 2016 (3 pgs).
- Korean Office Action issued in application No. 30-2015-0029561, M001 (w/translation), dated Dec. 24, 2015 (12 pgs).
- Korean Office Action issued in application No. 30-2015-0029561, M001, dated Jun. 9, 2016 (16 pgs).
- Korean Office Action issued in application No. 30-2015-0029561, M001, dated May 23, 2016 (2 pgs).
- Korean Office Action issued in application No. 30-2015-0029561, M002 (w/translation), dated Dec. 24, 2015 (7 pgs).
- Korean Office Action issued in application No. 30-2015-0029561, M002 (w/translation), dated May 23, 2016 (6 pgs).
- Korean Office Action issued in application No. 30-2015-0029561, M002, dated Jun. 9, 2016 (3 pgs).
- Liang, Yafen et al., "Nasal Ventilation is More Effective than Combined Oral-Nasal Ventilation during Induction of General Anesthesia in Adult Subjects", *Anesthesiology* 2008, vol. 108, No. 6, Jun. 2008, pp. 998-1003.
- Notice of Allowance (Corrected) issued in U.S. Appl. No. 15/288,973, dated Feb. 10, 2017 (16 pgs).
- Notice of Allowance (Corrected) issued in U.S. Appl. No. 15/288,973, dated Mar. 10, 2017 (9 pgs).
- Notice of Allowance (Corrected) issued in U.S. Appl. No. 15/288,973, dated Mar. 24, 2017 (9 pgs).
- Notice of Allowance issued in U.S. Appl. No. 15/288,973, dated Feb. 1, 2017 (25 pgs).
- Notice of Decision of Registration for Design issued in Korean Design Application 30-20016-0014111, dated Dec. 13, 2016 (3 pages with translation).
- Office Action issued in U.S. Appl. No. 15/272,074, dated Apr. 19, 2017 (54 pgs).
- Office Action issued in U.S. Appl. No. 15/272,160, dated Apr. 24, 2017 (39 pgs).
- Office Action issued in U.S. Appl. No. 29/520,420, dated Apr. 7, 2017 (3 pgs).
- Office Action issued in U.S. Appl. No. 29/520,420, dated Feb. 24, 2017 (14 pgs).
- Office Action issued in related Design U.S. Appl. No. 29/520,420, dated Aug. 11, 2016 (18 pgs).
- Office Action issued in U.S. Appl. No. 15/272,074, dated Jul. 31, 2017 (34 pgs).
- Office Action issued in U.S. Appl. No. 15/272,074, dated Sep. 13, 2017 (5 pgs).
- Office Action issued in U.S. Appl. No. 15/272,160, dated Dec. 15, 2017 (34 pgs).
- Office Action issued in U.S. Appl. No. 15/272,160, dated Jan. 4, 2017 (31 pgs).
- Office Action issued in U.S. Appl. No. 15/272,190, dated Dec. 28, 2017 (22 pgs).
- Office Action issued in U.S. Appl. No. 15/272,190, dated Jan. 30, 2017 (32 pgs).
- Office Action issued in U.S. Appl. No. 15/272,190, dated Jun. 21, 2017 (7 pgs).
- Office Action issued in U.S. Appl. No. 15/272,190, dated May 23, 2017 (36 pgs).
- Office Action issued in U.S. Appl. No. 15/288,973, dated Dec. 14, 2016 (21 pgs).
- Office Action issued in U.S. Appl. No. 29/520,420, dated Dec. 8, 2017 (5 pgs).
- Office Action issued in U.S. Appl. No. 29/520,420, dated Jun. 15, 2017 (12 pgs).
- Office Action issued in U.S. Appl. No. 29/530,124, dated Apr. 19, 2017 (6 pgs).
- Office Action issued in U.S. Appl. No. 29/530,124, dated Aug. 12, 2016 (17 pgs).
- Office Action issued in U.S. Appl. No. 29/530,124, dated Feb. 28, 2017 (16 pgs).
- Office Action issued in U.S. Appl. No. 29/530,124, dated Jun. 21, 2017 (14 pgs).
- Preliminary Report on Patentability issued in application No. PCT/US2015/034277, dated Dec. 15, 2016 (11 pgs).
- Singapore Invitation to Respond to Written Opinion issued in application No. 1120161048P, dated Sep. 19, 2017 (16 pgs).
- Singapore Invitation to Respond to Written Opinion issued in application No. 11201701253U, dated Nov. 8, 2017 (12 pgs).

(56)

**References Cited**

## OTHER PUBLICATIONS

Singapore Search Report issued in application 11201510589, dated Jan. 31, 2017 (11 pgs).

Sleep Medicine Solutions product description, <http://sleepmedicinesolutions.net.au/cpap-spare-parts/26-fisher-paykel-ze-st-foams.html>, downloaded Jul. 28, 2016, 2 pages.

Sleep Medicine Solutions product description, <http://sleepmedicinesolutions.net.au/cpap-spare-parts/26-fisher-paykel-ze-st-foams.html>, downloaded Jul. 28, 2016, 2 pages.

Sleepnet homepage, <https://web.archive.org/web/20111031122613/http://www.sleepnetmasks.com/>, downloaded Jul. 28, 2016, 4 pages.

U.S. Appl. No. 14/690,223, filed Apr. 7, 2015, Reilly et al.

U.S. Appl. No. 14/901,647, filed Dec. 28, 2015, Pedro et al.

U.S. Appl. No. 15/127,758, filed Sep. 20, 2016, Pedro et al.

U.S. Appl. No. 15/127,759, filed Sep. 20, 2016, Pedro et al.

U.S. Appl. No. 15/127,760, filed Sep. 20, 2016, Pedro et al.

U.S. Appl. No. 15/217,753, filed Jul. 22, 2016, Pedro et al.

U.S. Appl. No. 15/272,074, filed Sep. 21, 2016, Pedro et al.

U.S. Appl. No. 15/272,160, filed Sep. 21, 2016, Pedro et al.

U.S. Appl. No. 15/272,190, filed Sep. 21, 2016, Pedro et al.

U.S. Appl. No. 15/286,973, filed Oct. 7, 2016, Pedro et al.

U.S. Appl. No. 15/510,469, filed Mar. 10, 2017, Reilly et al.

U.S. Appl. No. 29/511,716, filed Dec. 12, 2014.

U.S. Appl. No. 29/520,420, filed Mar. 13, 2015, Reilly et al.

U.S. Appl. No. 29/530,124, filed Jun. 12, 2015, Reilly et al.

U.S. Appl. No. 29/583,554, filed Nov. 7, 2016, Reilly et al.

\* cited by examiner

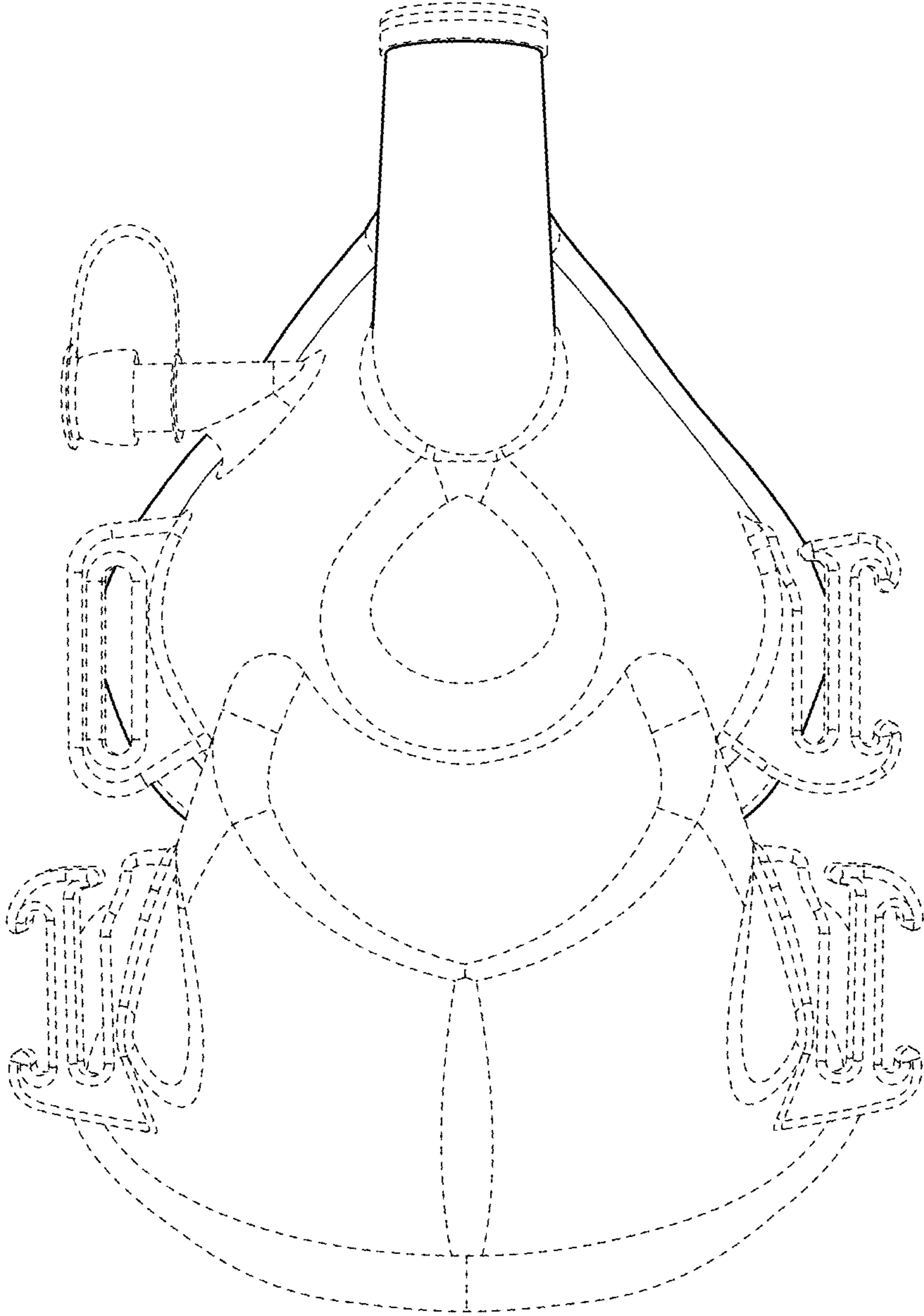


FIG. 1

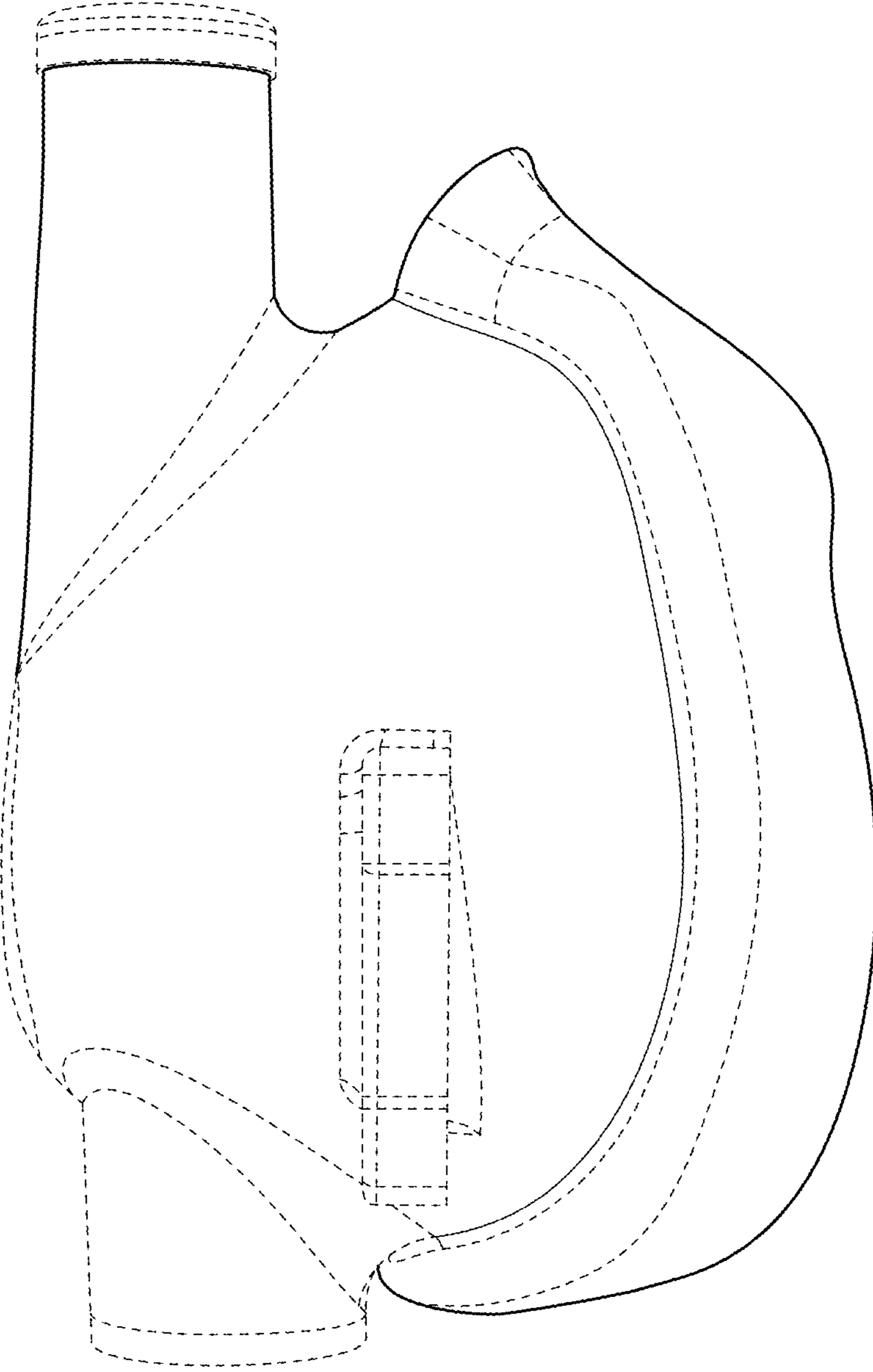


FIG. 2



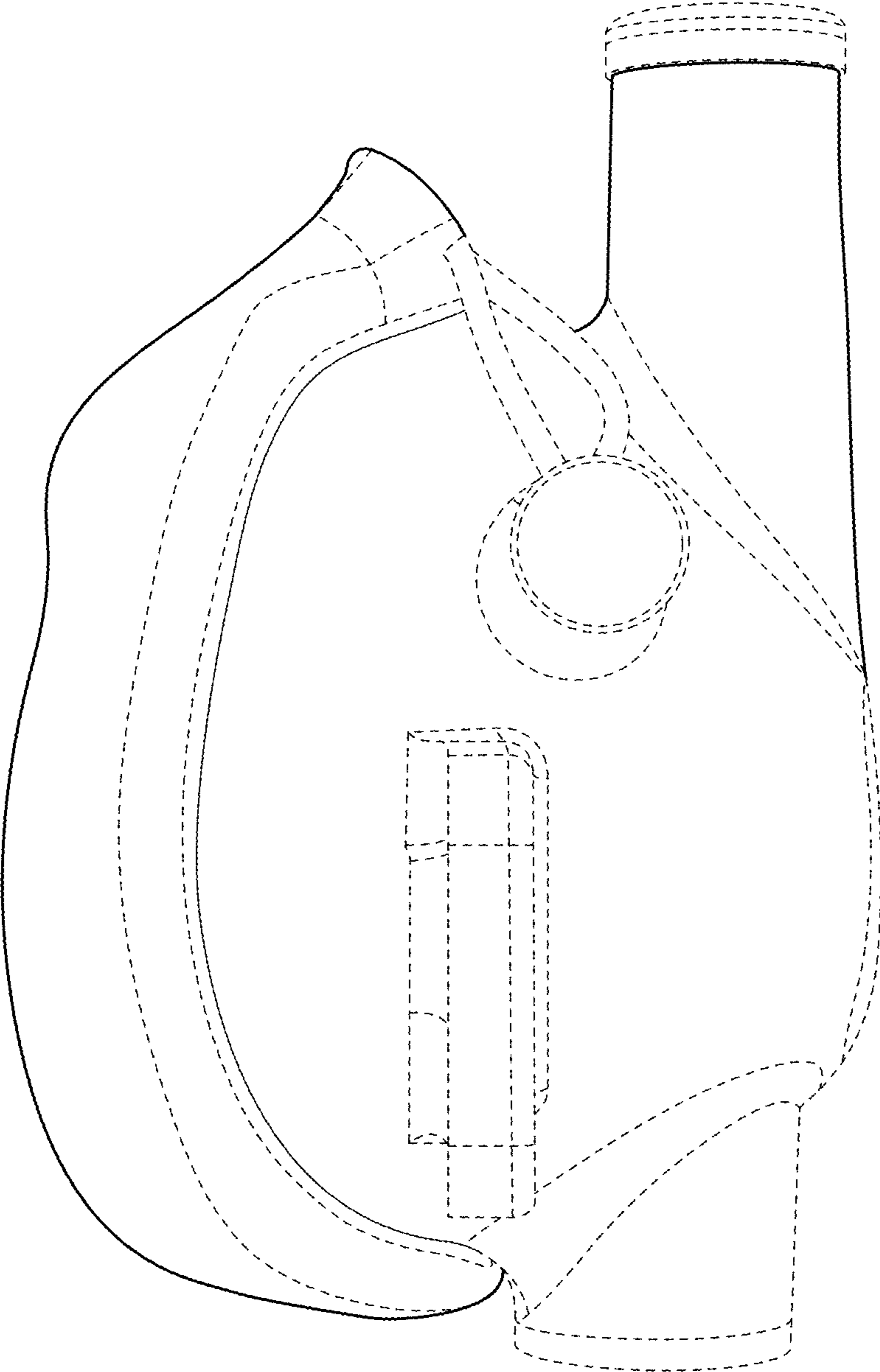


FIG. 3

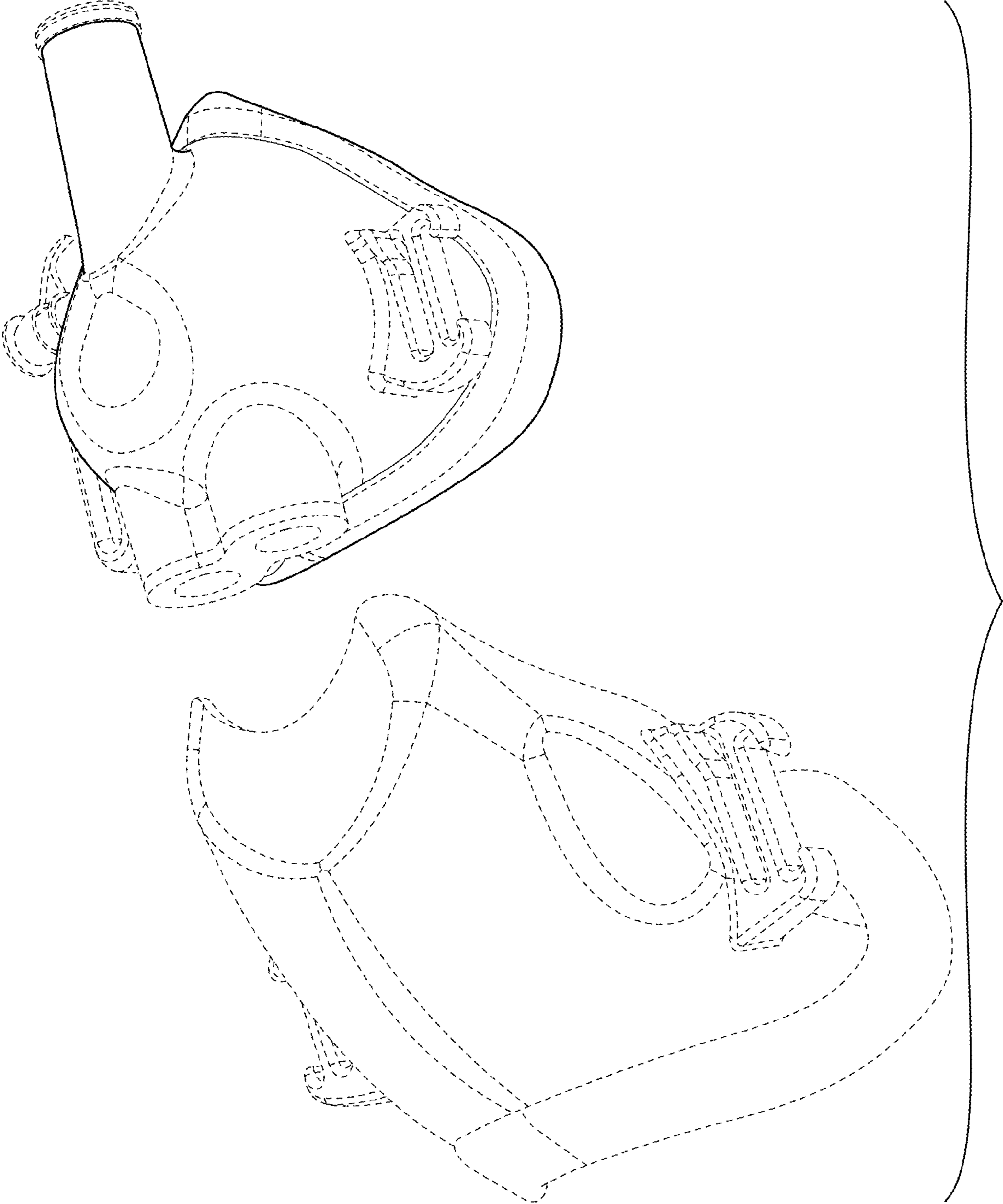


FIG. 4

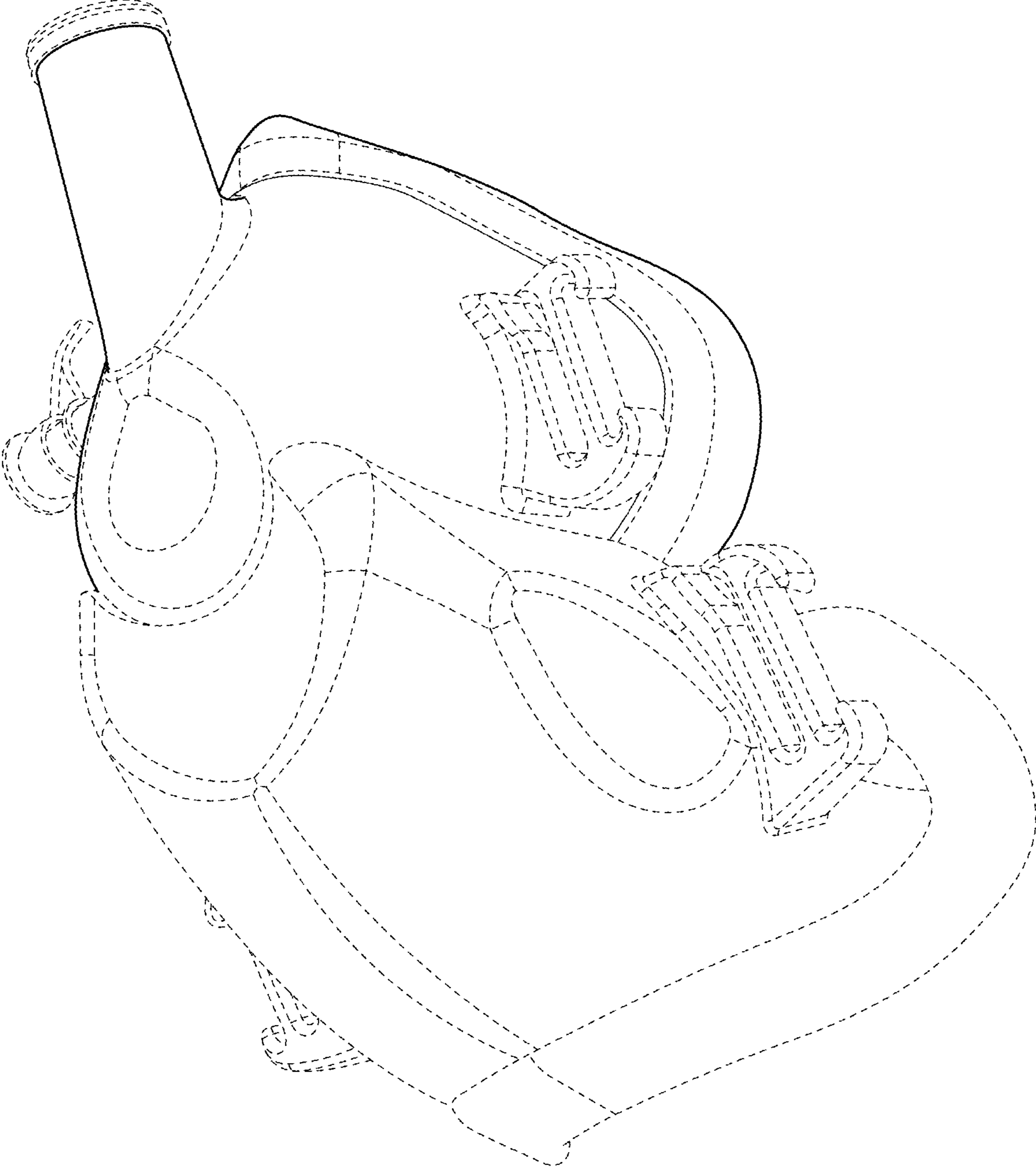


FIG. 5

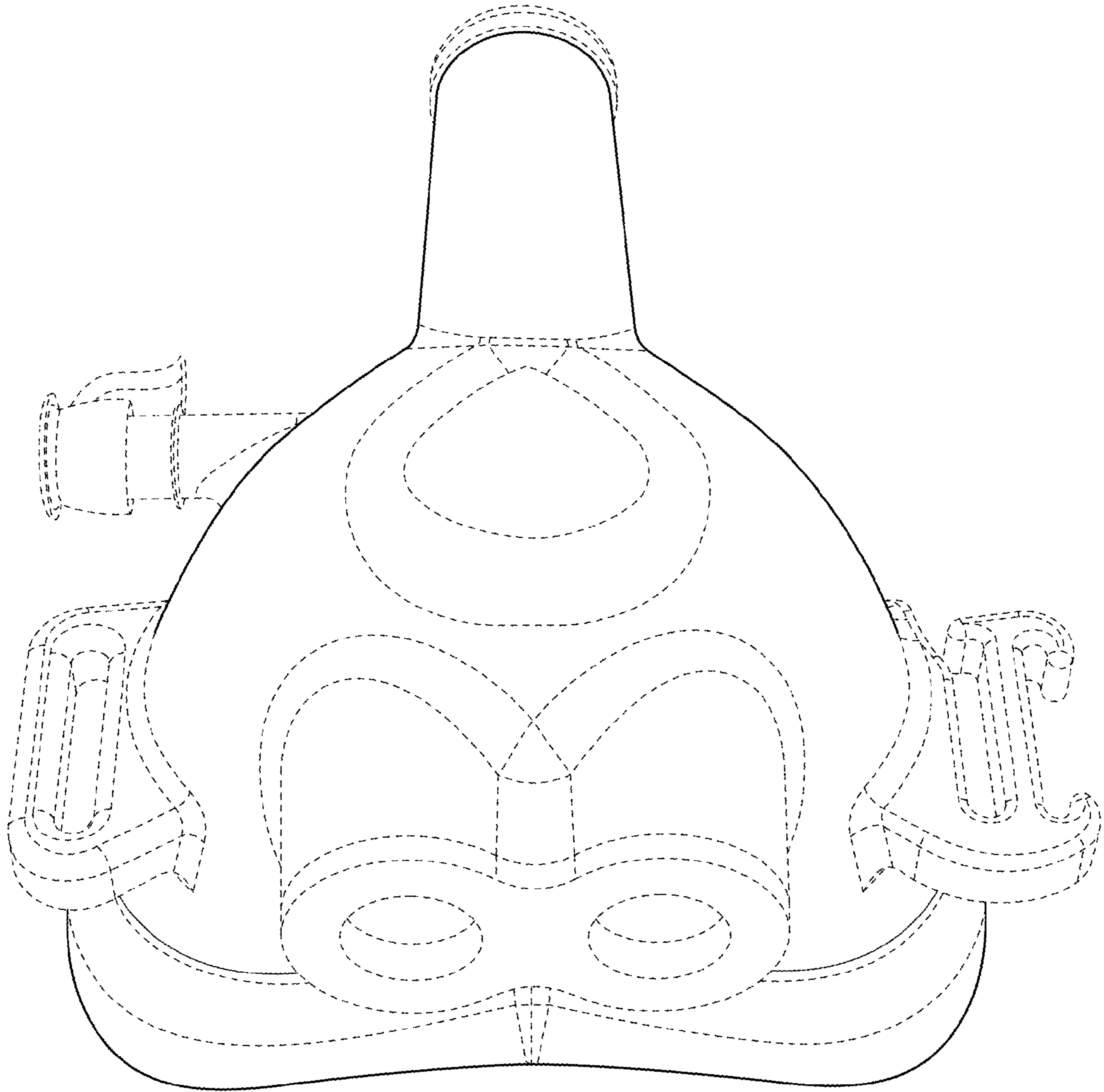


FIG. 6