



US00D935074S

(12) **United States Design Patent** (10) **Patent No.:** **US D935,074 S**  
**Neeley et al.** (45) **Date of Patent:** **\*\* Nov. 2, 2021**

(54) **WEARABLE HEADGEAR DEVICE**

(56)

**References Cited**

(71) Applicant: **Integra LifeSciences Corporation**,  
Princeton, NJ (US)

U.S. PATENT DOCUMENTS

(72) Inventors: **Brian Neeley**, Cottage Grove, WI (US);  
**Greg Falendysz**, Sun Prairie, WI (US);  
**Steve Dieter**, Oregon, WI (US); **Parker Hren**,  
Madison, WI (US); **Nick Higbee**, Madison, WI (US);  
**Frank Thomas Poggio**, Hoffman Estates, IL (US);  
**Jaime Luis Prats**, York, PA (US); **Thomas Joseph Africa**,  
Lebanon, OH (US); **Lauren Angell**, Pataskala, OH (US);  
**Kenny Snyder**, Lancaster, PA (US); **Eric Gillman**,  
Ringwood, NJ (US)

1,453,006 A	4/1923	Day
1,632,851 A	6/1927	Reaves
1,688,113 A	10/1928	Bornkessel
2,217,359 A	10/1940	Cooke
2,437,748 A	3/1948	Malcom
2,883,980 A	4/1959	Storz, Jr.
2,893,379 A	7/1959	Springer
3,008,040 A	11/1961	Moore
3,047,876 A	8/1962	Malcom
3,285,242 A	11/1966	Wallace
3,470,570 A	10/1969	Christiansen
3,513,481 A	5/1970	Nickerson
3,555,560 A	1/1971	Raschke
3,586,851 A	6/1971	Rudolph
3,645,254 A	2/1972	Burton
3,745,993 A	7/1973	Feinbloom
3,763,495 A	10/1973	De Angelis
3,830,230 A	8/1974	Chester
3,947,676 A	3/1976	Battilana et al.
3,951,139 A	4/1976	Kloots
3,992,722 A	11/1976	Rhee
4,104,709 A	8/1978	Kloots
4,130,902 A	12/1978	Mackenroth, III et al.
4,234,910 A	11/1980	Price
4,290,422 A	9/1981	Burton
4,321,659 A	3/1982	Wheeler
D266,192 S	9/1982	Feinbloom et al.
4,593,683 A	6/1986	Blaha
4,621,283 A	11/1986	Feinbloom
4,628,416 A	12/1986	Dewey
4,729,499 A	3/1988	Martin
4,766,610 A	8/1988	Mattes
D300,868 S	4/1989	Conforti
4,887,190 A	12/1989	Sadamune et al.
4,918,583 A	4/1990	Kudo et al.
4,942,628 A	7/1990	Freund
5,001,608 A	3/1991	Kehrli et al.
5,042,930 A	8/1991	Hutt
5,078,469 A	1/1992	Clark et al.
5,099,399 A	3/1992	Miller et al.
5,115,382 A	5/1992	Smith
5,163,420 A	11/1992	Van Der Bel
5,186,534 A	2/1993	Woodgate
D337,838 S	7/1993	Van der Bel
5,268,977 A	12/1993	Miller
5,283,914 A	2/1994	James
5,355,285 A	10/1994	Hicks
5,412,811 A	5/1995	Hildenbrand et al.
5,428,517 A	6/1995	Behringer

(73) Assignee: **Integra LifeSciences Corporation**,  
Princeton, NJ (US)

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

(21) Appl. No.: **29/748,382**

(22) Filed: **Aug. 28, 2020**

**Related U.S. Application Data**

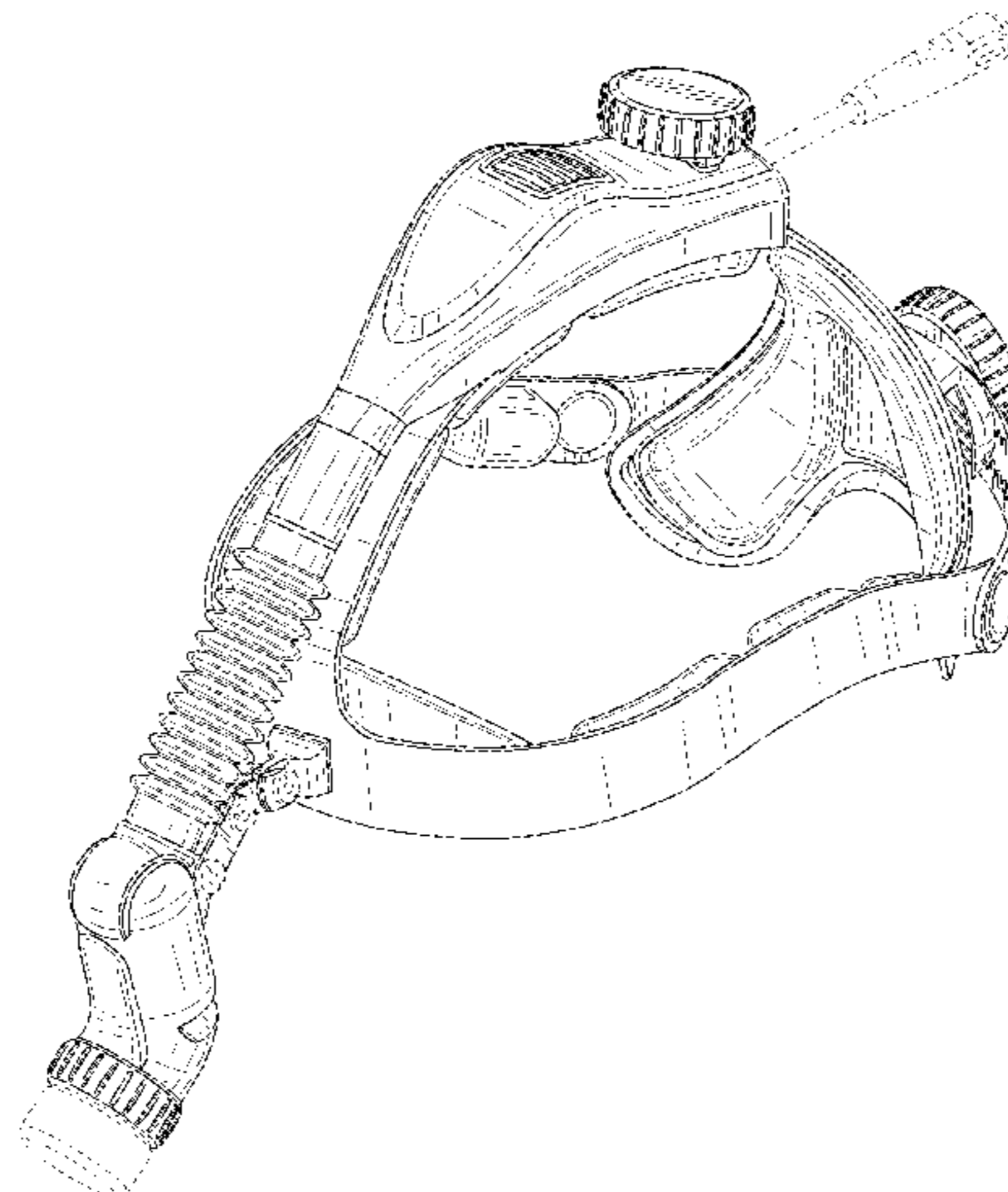
(62) Division of application No. 29/665,581, filed on Oct. 4, 2018, now Pat. No. Des. 901,737.

(51) **LOC (13) Cl.** ..... **26-02**

(52) **U.S. Cl.**  
USPC ..... **D26/39**  
CPC ..... **F21L 4/00** (2013.01)

(58) **Field of Classification Search**  
USPC ..... D26/37-51  
CPC ..... F21L 2003/00; F21L 4/005; F21L 4/025;  
F21L 4/027; F21L 4/04; F21L 4/08; F21L  
13/00; F21L 13/08; F21L 14/02; F21L  
19/00; F21L 2/00; F21L 4/00-4/085;  
F21L 15/00-15/14; F21L 2001/00; F21L  
2005/00; F21L 25/00

See application file for complete search history.



US D935,074 S

5,430,620 A	7/1995	Li et al.	7,488,088 B2	2/2009	Brukilacchio	
5,440,462 A	8/1995	Kim et al.	7,488,101 B2	2/2009	Brukilacchio	
5,465,124 A	11/1995	Nussenbaum	7,513,660 B2 *	4/2009	Spartano .....	F21V 29/15
5,497,295 A	3/1996	Gehly				362/373
D373,433 S	9/1996	Feinbloom	7,565,040 B2	7/2009	Nagaeda et al.	
5,558,428 A	9/1996	Lehrer et al.	7,618,159 B2	11/2009	Tamburrino et al.	
5,608,917 A	3/1997	Landis et al.	D608,479 S	1/2010	Heine et al.	
5,619,754 A	4/1997	Thurwanger et al.	D615,225 S	5/2010	DeBrunner	
5,634,704 A	6/1997	Shikama et al.	D615,678 S	5/2010	DeBrunner	
5,638,551 A	6/1997	Lallemand	D615,679 S *	5/2010	Ferguson .....	D26/39
D383,229 S	9/1997	Kiichiro	7,710,569 B2 *	5/2010	Zuluaga .....	A61B 90/36
5,667,291 A	9/1997	Caplan et al.				356/445
5,709,459 A	1/1998	Gourgouliatos et al.	7,724,440 B2	5/2010	Chaves et al.	
5,732,176 A	3/1998	Savage, Jr.	7,744,219 B2	6/2010	Davis	
5,769,523 A	6/1998	Feinbloom	7,755,838 B2	7/2010	Chaves et al.	
5,774,271 A	6/1998	Lagerway et al.	D621,535 S	8/2010	Heine et al.	
D399,580 S	10/1998	Feinbloom	D624,221 S	9/2010	DeBrunner	
5,867,320 A	2/1999	Park et al.	D628,307 S *	11/2010	Krause-Bonte .....	D24/231
D406,371 S	3/1999	Van der Bel	7,829,191 B2	11/2010	Frick	
5,893,635 A	4/1999	Bhattacharya	D630,766 S	1/2011	Harbin	
5,898,290 A	4/1999	Beard et al.	7,871,174 B2	1/2011	Heine et al.	
5,950,245 A	9/1999	Binduga	7,874,293 B2	1/2011	Gunaratnam et al.	
D421,148 S	2/2000	Borders	D635,286 S *	3/2011	Schussler .....	D26/39
6,093,468 A	7/2000	Toms et al.	7,918,578 B2	4/2011	Spartano et al.	
6,113,281 A	9/2000	Davis	7,926,967 B2	4/2011	Spartano et al.	
6,120,161 A	9/2000	Van Der Bel	7,972,028 B2	7/2011	Durand et al.	
6,129,662 A	10/2000	Li et al.	D648,882 S	11/2011	Halm	
D441,111 S	4/2001	Van Der Bel	8,075,147 B2	12/2011	Chaves et al.	
6,224,227 B1	5/2001	Kloutz	8,075,154 B2	12/2011	Thomas et al.	
6,298,497 B1	10/2001	Chartrand	8,177,384 B2	5/2012	Boulan	
6,321,193 B1	11/2001	Nyström et al.	8,262,224 B2	9/2012	Nussenbaum	
6,341,382 B1	1/2002	Ryvin et al.	8,348,448 B2	1/2013	Orozco et al.	
6,457,838 B1	10/2002	Dugmore et al.	8,359,672 B2	1/2013	Moelker	
6,567,993 B2	5/2003	Robertson	8,427,014 B2	4/2013	Eckhoff et al.	
6,639,733 B2	10/2003	Minano et al.	D685,938 S	7/2013	Baker et al.	
6,650,538 B1	11/2003	Chu et al.	8,517,556 B2	8/2013	Boulan	
D484,436 S	12/2003	Landry	8,529,082 B1	9/2013	Baker et al.	
D484,437 S	12/2003	Doyon	8,550,650 B1	10/2013	McGinty	
6,708,376 B1	3/2004	Landry	8,696,552 B2	4/2014	Whitman	
D489,838 S	5/2004	Opolka	8,713,718 B2	5/2014	Moelker	
D503,499 S	3/2005	Howard et al.	8,729,851 B2	5/2014	Bobbin et al.	
6,865,285 B1	3/2005	Villa-Aleman	D706,474 S *	6/2014	Ferguson .....	D26/39
6,890,086 B2	5/2005	Shiu	8,789,962 B2	7/2014	Crowder	
6,896,381 B2	5/2005	Benitez et al.	D713,575 S *	9/2014	Ferguson .....	D26/39
6,896,389 B1	5/2005	Erby	8,899,774 B2	12/2014	Strong et al.	
6,908,208 B1	6/2005	Hyde et al.	8,900,138 B2	12/2014	Horvath	
6,921,920 B2	7/2005	Kazakevich	8,911,130 B2	12/2014	Richart et al.	
6,955,444 B2	10/2005	Gupta	8,922,159 B2	12/2014	Bobbin et al.	
6,966,074 B2 *	11/2005	Huh .....	D721,842 S	1/2015	Opolka	
						A42B 3/14
						2/181.4
6,999,318 B2	2/2006	Newby	9,033,505 B2	5/2015	Kim et al.	
7,000,262 B2	2/2006	Bielefeld	9,039,224 B2	5/2015	Delaney et al.	
7,043,772 B2	5/2006	Bielefeld et al.	9,089,296 B2	7/2015	Heine et al.	
RE39,162 E	7/2006	Caplan et al.	9,091,428 B2	7/2015	Ferguson	
7,131,760 B2	11/2006	Mayer et al.	9,103,539 B2	8/2015	Baker et al.	
7,134,763 B2	11/2006	Kloutz	D739,061 S	9/2015	Petzi	
7,144,140 B2	12/2006	Sun et al.	9,131,744 B2	9/2015	Erb et al.	
7,153,015 B2	12/2006	Brukilacchio	D742,049 S	10/2015	Baker et al.	
7,163,327 B2	1/2007	Henson et al.	D743,596 S	11/2015	Ormsbee et al.	
7,174,575 B1	2/2007	Scherer	D745,731 S *	12/2015	Zimmerli .....	D26/39
7,181,378 B2	2/2007	Benitez et al.	9,206,969 B2	12/2015	Bushee	
7,192,151 B2	2/2007	Clupper et al.	9,219,849 B2	12/2015	Feinbloom et al.	
D539,952 S	3/2007	Iranyi et al.	9,234,653 B2	1/2016	Ferguson	
7,210,810 B1	4/2007	Iversen et al.	9,263,718 B2	2/2016	Davidson	
7,229,201 B2	5/2007	Iversen et al.	9,265,295 B2	2/2016	Boulan	
7,229,202 B2	6/2007	Krupa et al.	9,271,636 B2	3/2016	Teder et al.	
7,229,202 B2	6/2007	Sander	9,326,827 B2	5/2016	Estwick et al.	
7,258,464 B2	8/2007	Morris et al.	9,351,799 B2	5/2016	Ferguson	
7,270,459 B2	9/2007	Waring	9,362,762 B2	6/2016	Bobbin et al.	
7,286,296 B2	10/2007	Chaves et al.	9,366,401 B2	6/2016	Koyama et al.	
7,300,175 B2	11/2007	Brukilacchio	9,386,912 B2	7/2016	Cohn et al.	
D560,009 S	1/2008	Spartano et al.	9,400,101 B2	7/2016	Strong et al.	
7,314,294 B1	1/2008	Moore	9,707,707 B2 *	7/2017	Ferguson .....	A61B 90/30
7,314,300 B1	1/2008	Dorr et al.	9,775,394 B2	10/2017	Dagan	
7,360,924 B2	4/2008	Henson et al.	9,833,033 B2	12/2017	Erb et al.	
7,380,962 B2	6/2008	Chaves et al.	D820,468 S *	6/2018	Hagood .....	D24/231
D572,853 S	7/2008	Heine et al.	D821,006 S *	6/2018	Chen .....	D26/39
7,441,282 B2	10/2008	Heine et al.	10,253,964 B2	4/2019	Strong et al.	
7,465,078 B2	12/2008	Chang	D884,236 S	5/2020	Africa et al.	
D586,932 S *	2/2009	Feinbloom .....	10,724,716 B2 *	7/2020	Neeley .....	F21V 21/30

D901,737 S *	11/2020	Neeley .....	D26/39
10,830,428 B2	11/2020	Africa et al.	
2002/0085372 A1	7/2002	Lehrer	
2003/0042493 A1	3/2003	Kazakevich	
2004/0120151 A1	6/2004	Ostler et al.	
2004/0149998 A1	8/2004	Henson et al.	
2004/0151008 A1	8/2004	Artsyukhovich et al.	
2005/0128735 A1	6/2005	Atkins et al.	
2005/0128752 A1	6/2005	Ewington et al.	
2006/0245175 A1	11/2006	Heine et al.	
2006/0250771 A1	11/2006	Heine et al.	
2006/0285315 A1	12/2006	Tufenkjian	
2006/0285316 A1	12/2006	Tufenkjian et al.	
2006/0285323 A1	12/2006	Fowler	
2007/0097702 A1	5/2007	Crowder	
2007/0097703 A1	5/2007	Goldfain	
2007/0220649 A1	9/2007	Huh	
2007/0253202 A1	11/2007	Wu et al.	
2008/0239707 A1 *	10/2008	Feinbloom .....	F21L 14/00 362/105
2008/0316733 A1	12/2008	Spartano et al.	
2009/0116252 A1	5/2009	Kille et al.	
2009/0161348 A1	6/2009	Spartano et al.	
2009/0225534 A1	9/2009	Thomas et al.	
2009/0227847 A1	9/2009	Tepper et al.	
2009/0229041 A1	9/2009	Tufenkjian	
2010/0093267 A1	4/2010	Hogh	
2010/0277894 A1	11/2010	Kim	
2011/0013383 A1	1/2011	Medinis	
2011/0051432 A1	3/2011	Heine et al.	
2011/0160541 A1	6/2011	Koyama et al.	
2012/0120635 A1 *	5/2012	Strong .....	F21V 5/008 362/105
2012/0204870 A1	8/2012	McAuley et al.	
2012/0281429 A1	11/2012	Orozco et al.	
2012/0314428 A1	12/2012	Thomas et al.	
2013/0111648 A1	5/2013	Huh	
2013/0121005 A1	5/2013	Dahmen	
2013/0204094 A1	8/2013	Fiebel et al.	
2013/0340147 A1	12/2013	Giles	
2014/0275806 A1	9/2014	Gunday et al.	
2014/0334132 A1	11/2014	Ferguson	
2014/0340760 A1	11/2014	Baumann et al.	
2015/0059064 A1	3/2015	Klotz et al.	
2015/0153035 A1	6/2015	Strong	
2016/0123563 A1	5/2016	Ferguson et al.	
2016/0334092 A1	11/2016	Strong et al.	
2017/0049178 A1	2/2017	Durocher	
2017/0157352 A1	6/2017	Ng et al.	
2017/0340044 A1	11/2017	Balderama Arenas et al.	
2018/0132556 A1	5/2018	Laperriere et al.	
2020/0109839 A1	4/2020	Neeley et al.	
2020/0109840 A1	4/2020	Africa et al.	
2020/0109847 A1	4/2020	Poggio et al.	
2020/0332995 A1	10/2020	Neeley et al.	
2021/0054995 A1	2/2021	Africa et al.	

WO	WO 02/099332	A1	12/2002
WO	WO 2007/051173	A2	5/2007
WO	WO 2009/048794	A1	4/2009
WO	WO 2010/007785	A1	1/2010
WO	WO 2011/100193	A1	8/2011
WO	WO 2012/068116	A1	5/2012
WO	WO 2012/087783	A1	6/2012
WO	WO 2014/146600	A1	9/2014
WO	WO 2014/202114	A1	12/2014
WO	WO 2020/072086	A1	4/2020
WO	WO 2020/072087	A1	4/2020
WO	WO 2020/072088	A1	4/2020

OTHER PUBLICATIONS

Petzl Elios Vision Helmet, Spring 2007 Moosejaw Website; <http://www.moosejawlowdown.com/moosejaw...> (3 pages).

International Search Report for Application No. PCT/US 06/60317 dated Apr. 2, 2008.

“LED Surgical Headlight Technical Review,” Welch Allyn, Oct. 22, 2009.

International Search Report and Written Opinion for PCT/US2011/060799 dated Mar. 29, 2012.

Non-Final Office Action for U.S. Appl. No. 13/069,288 dated Dec. 13, 2012.

Non-Final Office Action for U.S. Appl. No. 12/048,050 dated Mar. 28, 2011.

Final Office Action for U.S. Appl. No. 13/069,288 dated Jun. 17, 2013.

Non-Final Office Action for U.S. Appl. No. 13/069,288 dated Aug. 29, 2013.

Integra LED Headlight System Sell Sheet 2012 [retrieved from <https://www.integralife.com/file/general/1453795781> on Jun. 28, 2019].

Integra Lighting Solutions 2014 [retrieved from <https://www.integralife.com/file/general/1453798333> on Jun. 28, 2019].

Integra LED Lighting Tri-Fold Brochure 2014 [retrieved from <https://www.integralife.com/file/general/1453798461-1> on Jun. 28, 2019].

Final Office Action for U.S. Appl. No. 13/069,288 dated Jan. 22, 2014.

Australian Examination Report for Application No. 2011329035 dated Apr. 14, 2014.

Japanese Office Action and Search Report for Application No. 2013/539950 dated Apr. 17, 2014.

Notice of Allowance for U.S. Appl. No. 13/069,288 dated Aug. 1, 2014.

Canadian Office Action for Application No. 2,818,152 dated Aug. 12, 2014.

Australian Examination Report for Application No. 2011329035 dated Nov. 6, 2014.

European Office Action for Application No. 11 801 882.9 dated Feb. 16, 2015.

European Office Action for Application No. 11 801 882.9 dated Sep. 23, 2015.

Surgical Illumination and Visualization Systems, Integra Brochure, 12 pages total, 2016.

Notice of Allowance for U.S. Appl. No. 14/553,512 dated May 24, 2016.

Supplemental Notice of Allowance for U.S. Appl. No. 14/553,512 dated Jun. 10, 2016.

Titan 9000-II LED Headlight System Operation Manual SSL-9000-II, LIT-224 Sunoptic Surgical, pp. 1-50, 2017.

SSL 9500 LED Headlight System, Sunoptic Technologies, 2018 [retrieved from <http://sunoptictech.com/ssl-9500-led-headlight/> on Jun. 28, 2019].

SSL-5500 Wireless LED Headlight, Sunoptic Technologies, 2018 [retrieved from <http://sunoptictech.com/ssl-5500-wireless-led-headlight/> on Jun. 28, 2019].

Non-Final Office Action for U.S. Appl. No. 15/218,654 dated Mar. 7, 2018.

Notice of Allowance for U.S. Appl. No. 15/218,654 dated Nov. 23, 2018.

FOREIGN PATENT DOCUMENTS

AU	2011/329035	B2	1/2015
CA	2818152	C	10/2015
CN	2820148	Y	9/2006
CN	100432526	C	11/2008
CN	101377286	A	3/2009
CN	201232858	Y	5/2009
CN	204765540	U	11/2015
DE	10 2009 020112	A1	7/2010
DE	10 2010 047477	B4	2/2014
EP	2589308	A1	5/2013
EP	2641018	B1	1/2017
EP	3143888	A1	3/2017
FR	2604798	A1	4/1988
JP	H08-288205	A	11/1996
JP	2006-147373	A	6/2006
JP	2008-186694		8/2008
JP	2008-198468	A	8/2008
JP	2008-227127	A	9/2008
JP	2010-046566	A	3/2010
JP	5627795	B2	11/2014

International Search Report and Written Opinion for Application No. PCT/US2018/067220 dated May 22, 2019.  
International Search Report and Written Opinion for Application No. PCT/US2018/067224 dated Jun. 4, 2019.  
International Search Report and Written Opinion for Application No. PCT/US2018/067231 dated Jun. 4, 2019.  
Non-Final Office Action for U.S. Appl. No. 29/665,581 dated Oct. 18, 2019.  
Non-Final Office Action for U.S. Appl. No. 29/665,582 dated Oct. 18, 2019.  
Final Office Action for U.S. Appl. No. 29/665,581 dated Jan. 10, 2020.  
Notice of Allowance for U.S. Appl. No. 29/665,582 dated Jan. 15, 2020.  
Notice of Allowance for U.S. Appl. No. 16/230,277 dated Feb. 10, 2020.  
Notice of Allowance for U.S. Appl. No. 29/665,581 dated Apr. 15, 2020.  
Non-Final Office Action for U.S. Appl. No. 16/230,361 dated Apr. 27, 2020.  
Non-Final Office Action for U.S. Appl. No. 16/230,210 dated May 27, 2020.  
Stryker, Flyte Steri-Shield Personal Protection System. Stryker Australia, 2014.  
Notice of Allowance for U.S. Appl. No. 29/665,581 dated Aug. 7, 2020.  
Notice of Imported Citations for U.S. Appl. No. 16/916,502 dated Aug. 21, 2020.  
Notice of Allowance for U.S. Appl. No. 16/230,361 dated Sep. 10, 2020.  
Final Office Action for U.S. Appl. No. 16/230,210 dated Nov. 2, 2020.  
Non-Final Office Action and Notice of Consideration for Imported Citations for U.S. Appl. No. 16/916,502 dated Nov. 24, 2020.  
Advisory Action for U.S. Appl. No. 16/230,210 dated Jan. 27, 2021.  
Non-Final Office Action and Interview Summary for U.S. Appl. No. 16/230,210 dated Mar. 17, 2021.  
Notice of Allowance for U.S. Appl. No. 16/916,502 dated Mar. 17, 2021.

\* cited by examiner

Primary Examiner — Richard E Chilcot

(74) *Attorney, Agent, or Firm* — Jenkins, Wilson, Taylor & Hunt, P.A.

(57) **CLAIM**

The ornamental design for a wearable headgear device, as shown and described.

**DESCRIPTION**

FIG. 1 is a top perspective view of a wearable headgear device according to the present invention;  
FIG. 2 is a rear view of the wearable headgear device of FIG. 1;  
FIG. 3 is a front view of a wearable headgear device of FIG. 1;  
FIG. 4 is a top view of a wearable headgear device of FIG. 1;  
FIG. 5 is a bottom view of a wearable headgear device of FIG. 1;  
FIG. 6 is a left side view of a wearable headgear device of FIG. 1;  
FIG. 7 is a right side view of a wearable headgear device of FIG. 1;  
FIG. 8 is a top perspective view of a wearable headgear device according to another embodiment of the present invention;  
FIG. 9 is a rear view of the wearable headgear device of FIG. 8;  
FIG. 10 is a front view of a wearable headgear device of FIG. 8;  
FIG. 11 is a top view of a wearable headgear device of FIG. 8;  
FIG. 12 is a bottom view of a wearable headgear device of FIG. 8;  
FIG. 13 is a left side view of a wearable headgear device of FIG. 8; and,  
FIG. 14 is a right side view of a wearable headgear device of FIG. 8.

The dashed broken lines are for illustrative purposes only and form no part of the claimed design.

**1 Claim, 14 Drawing Sheets**

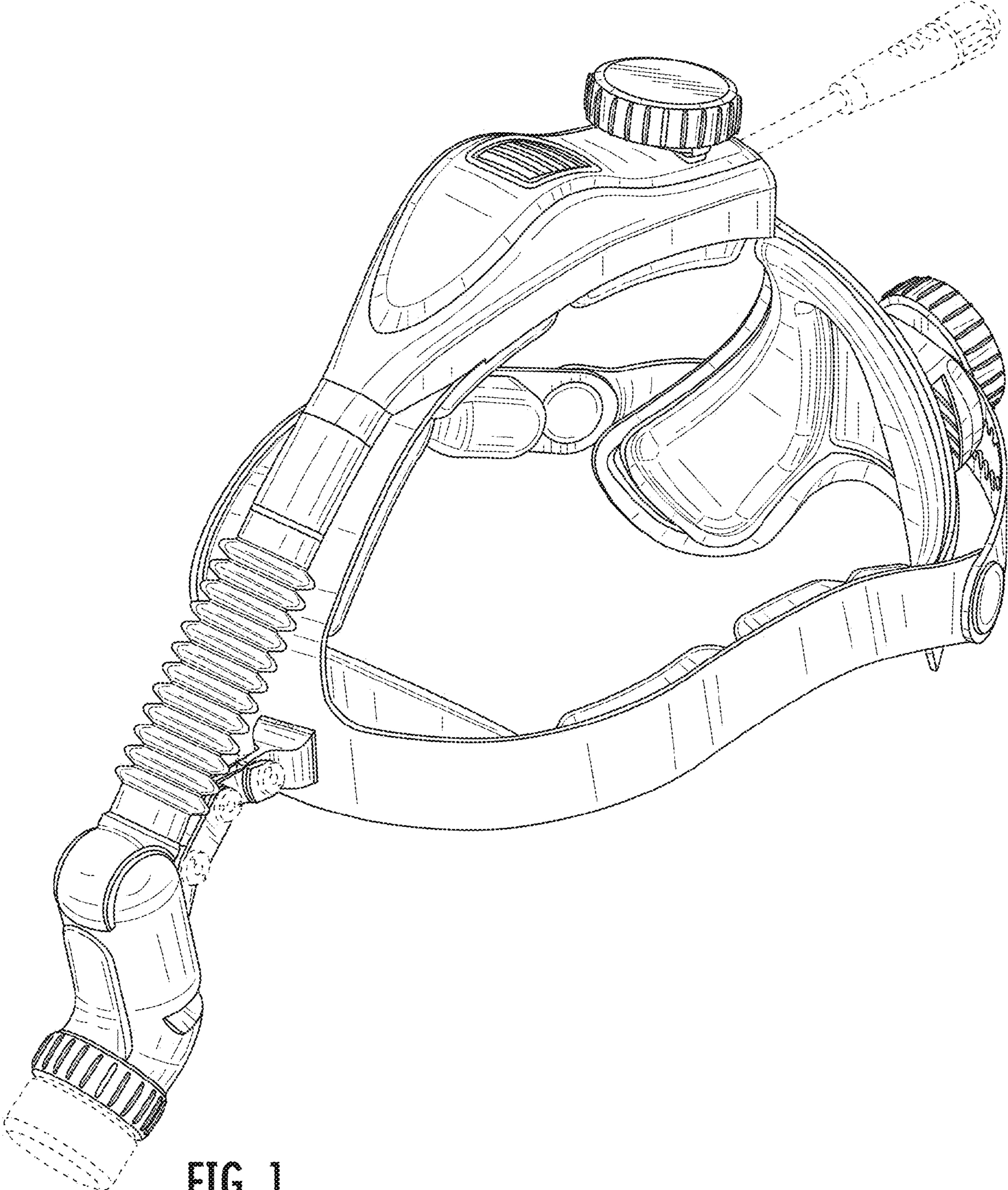


FIG. 1

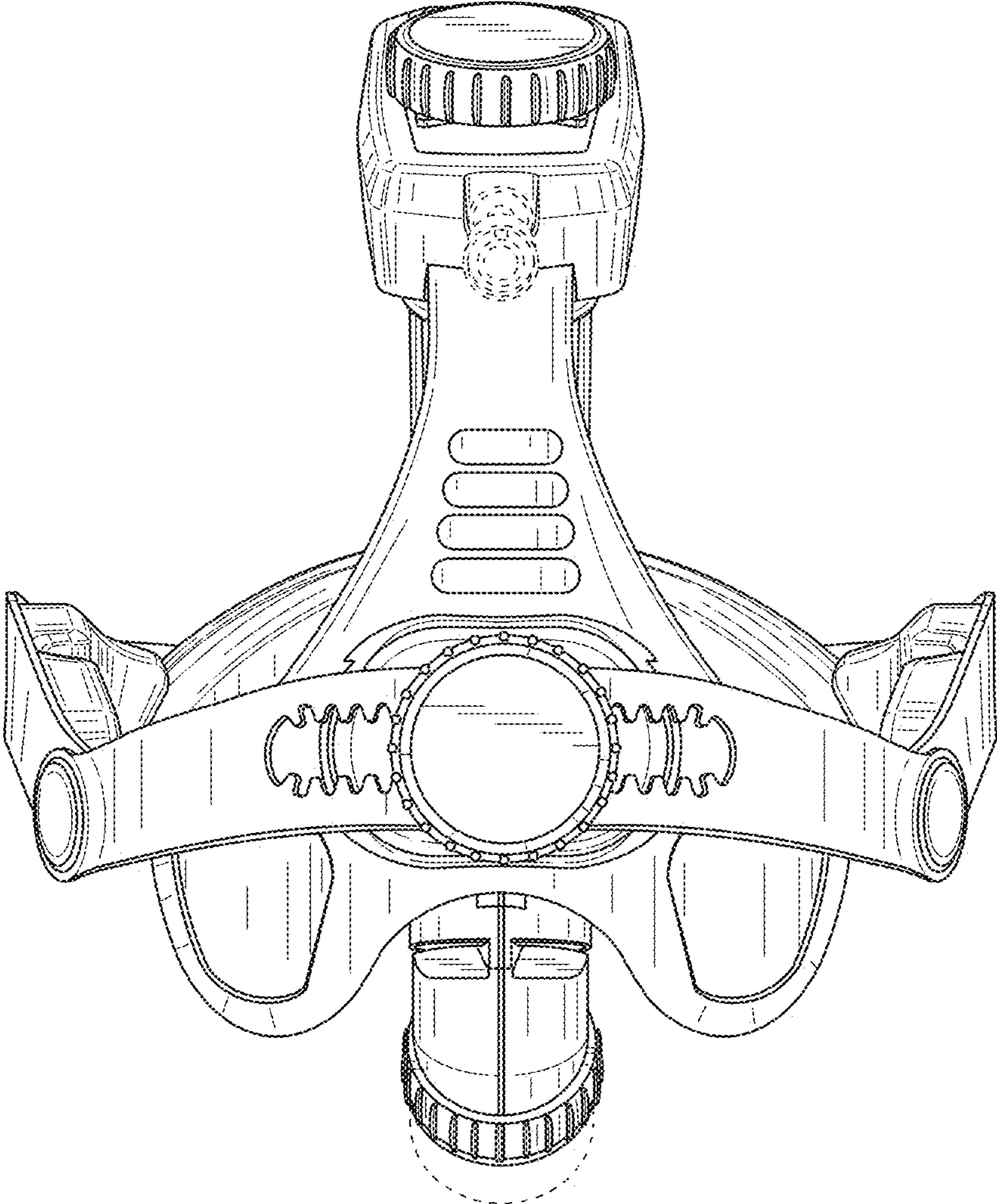


FIG. 2

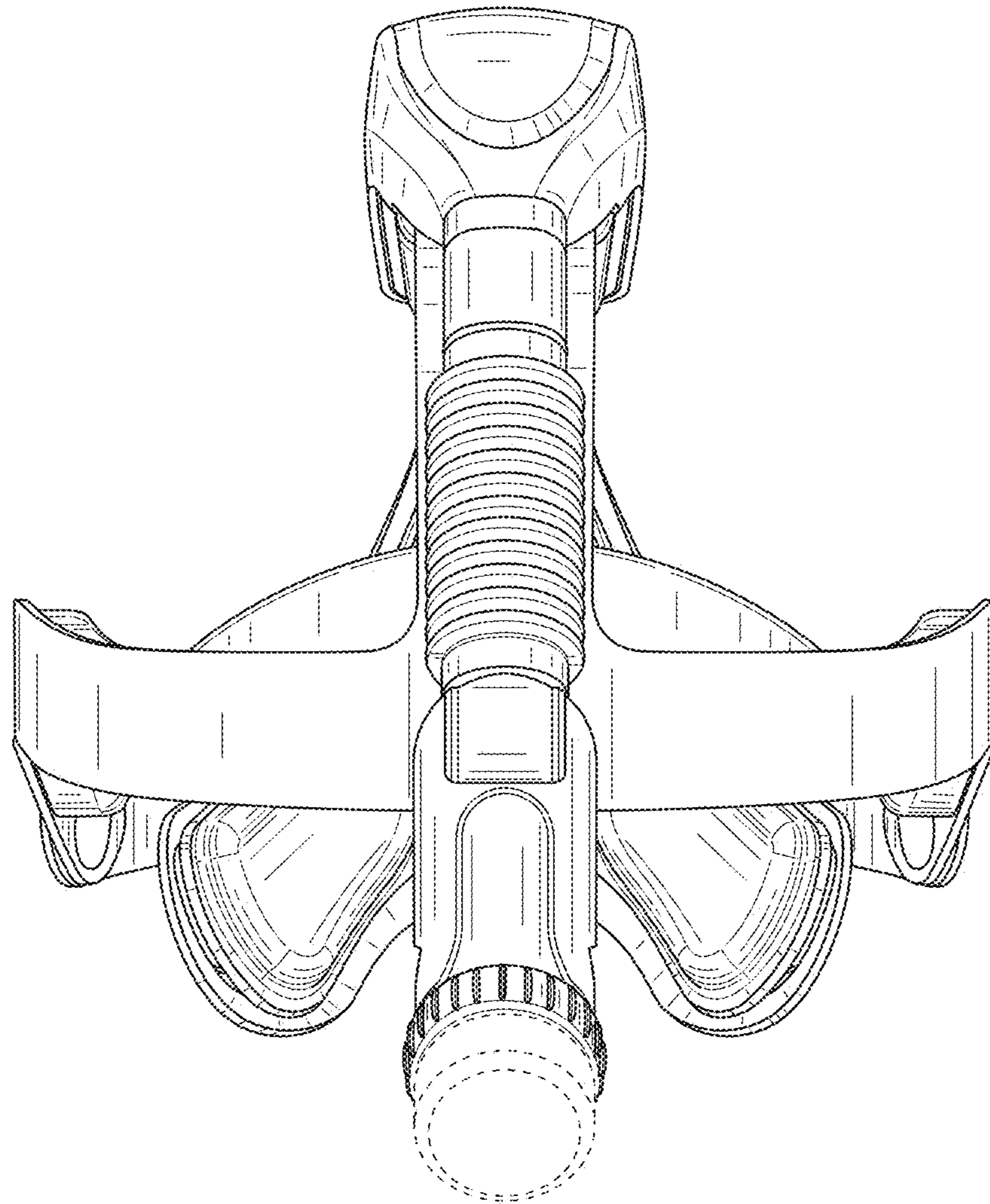


FIG. 3

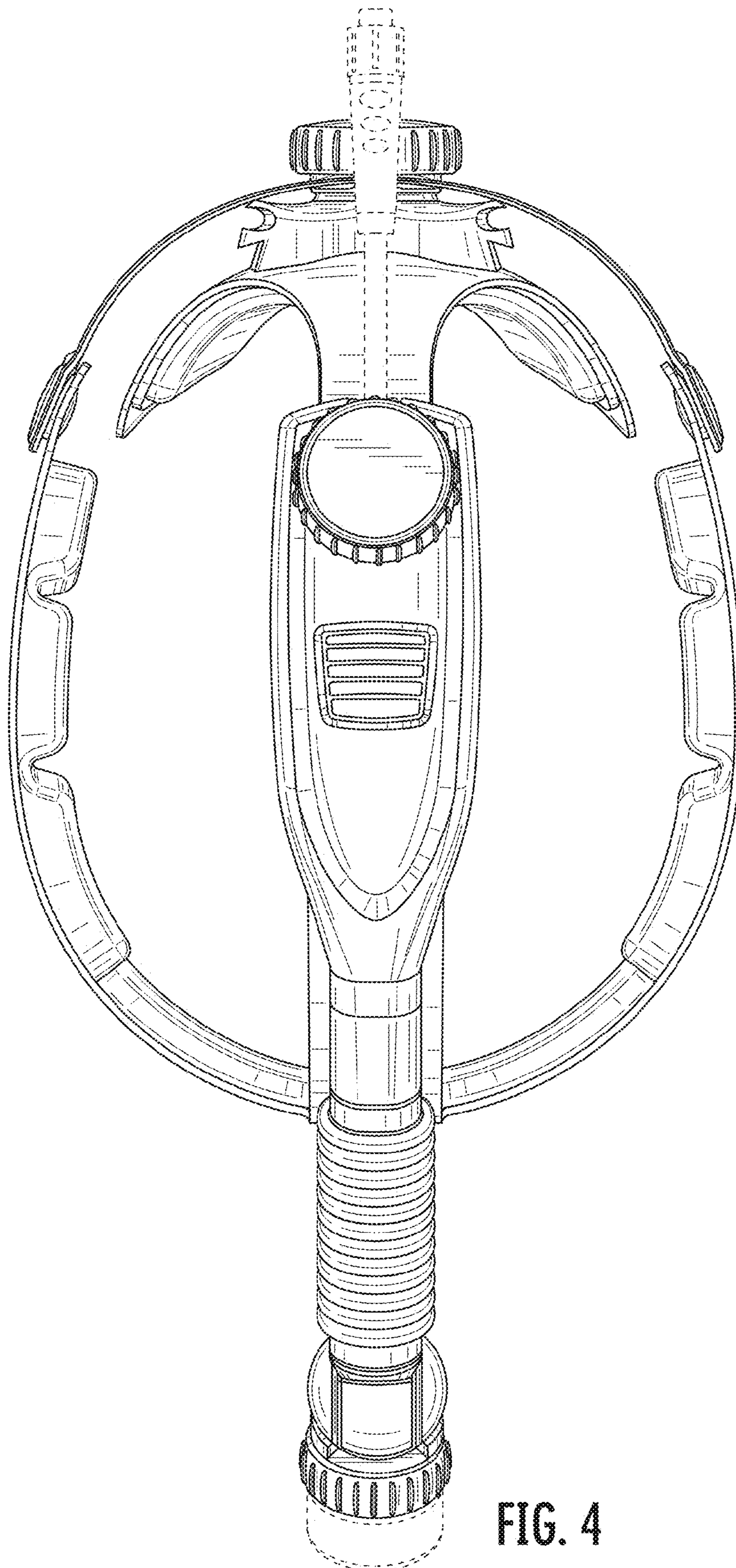


FIG. 4



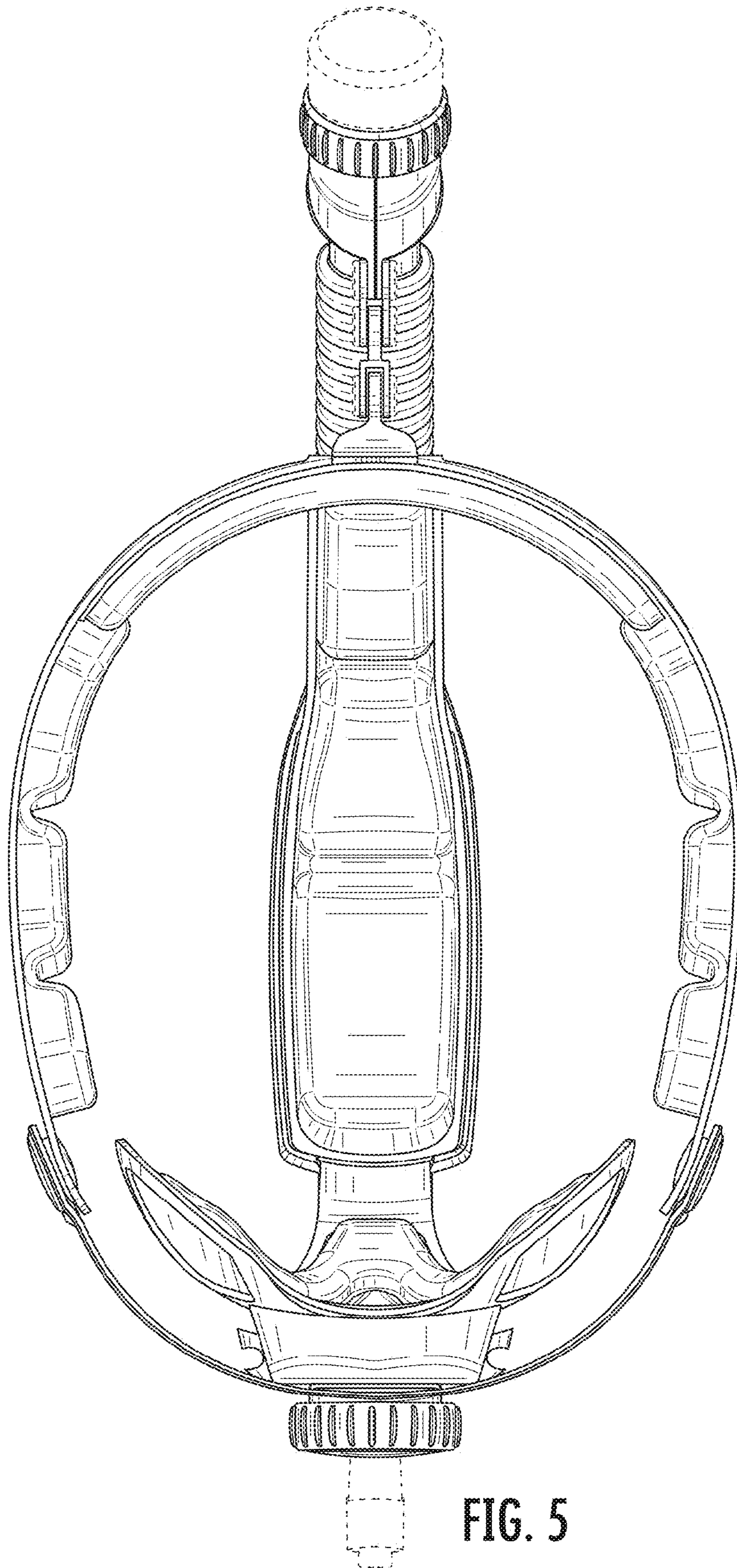


FIG. 5

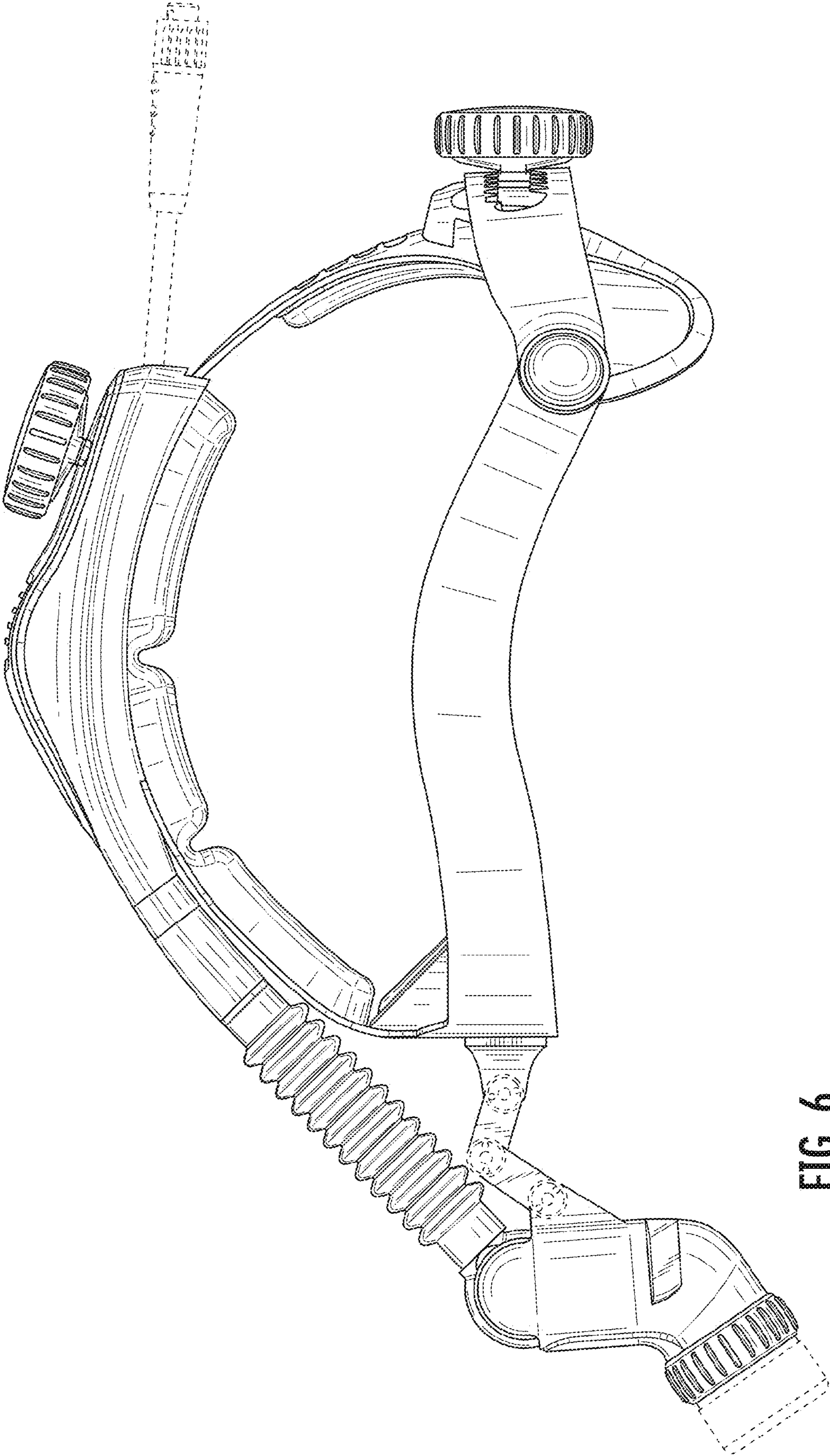


FIG. 6

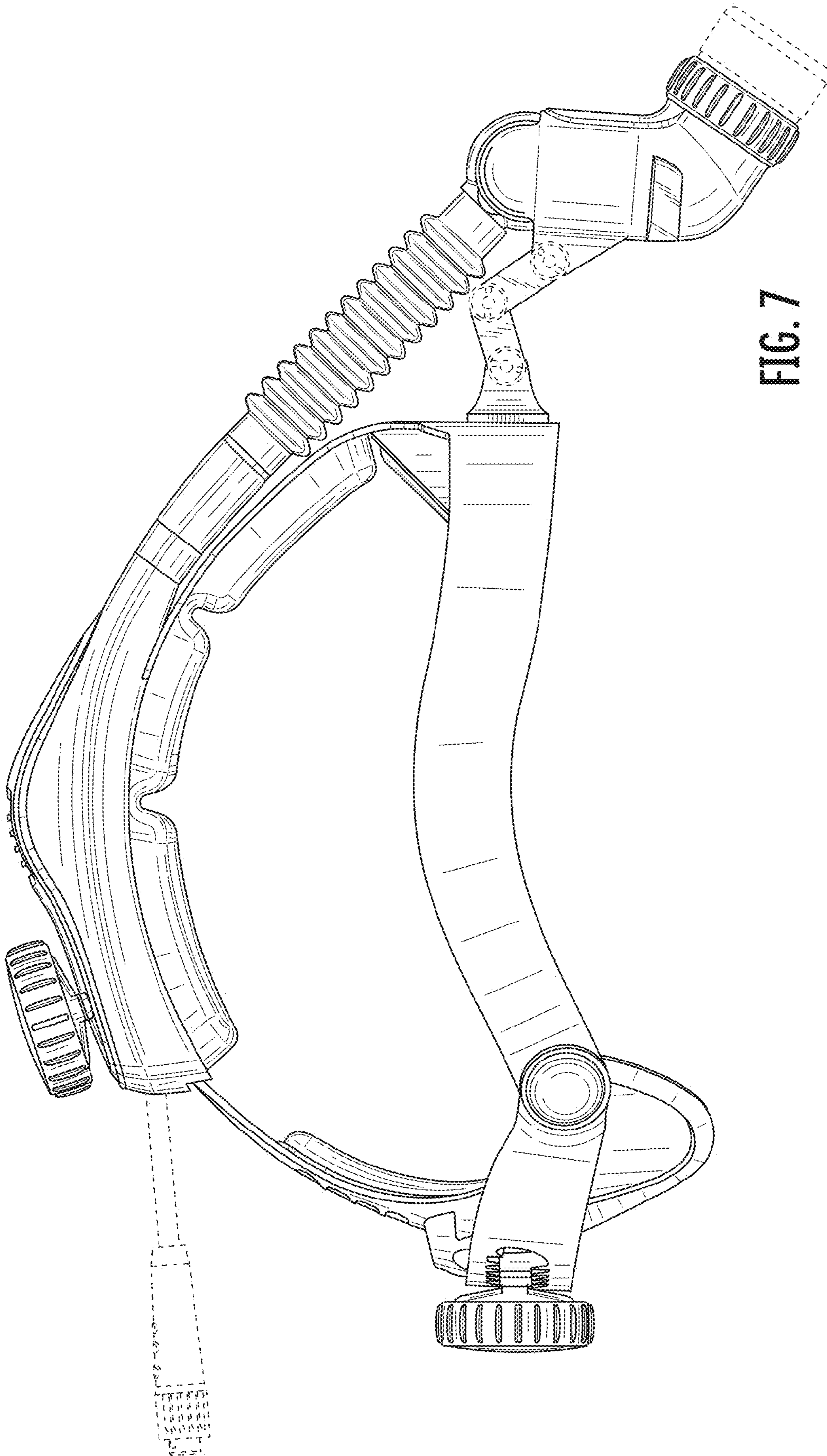


FIG. 7

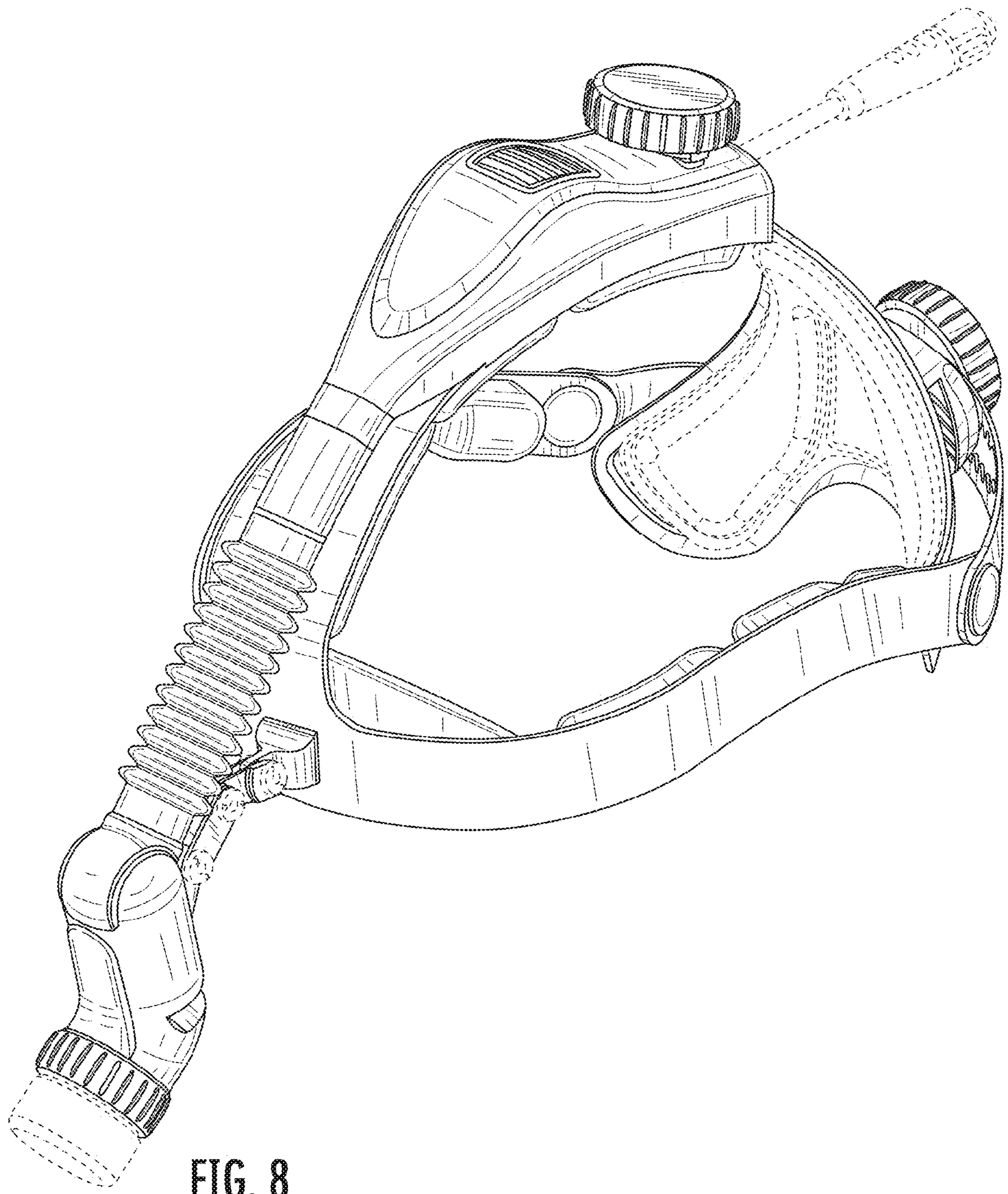


FIG. 8

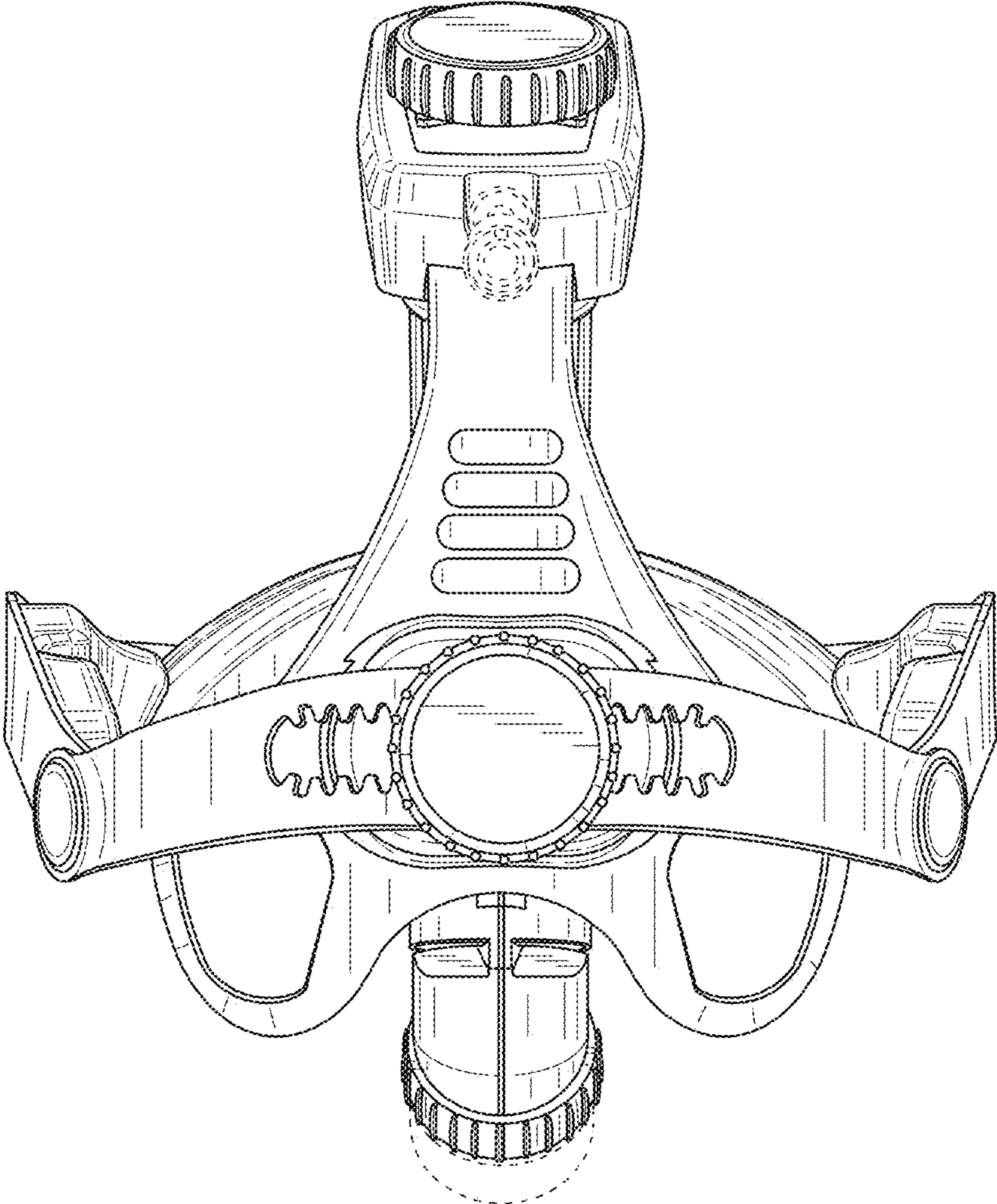


FIG. 9

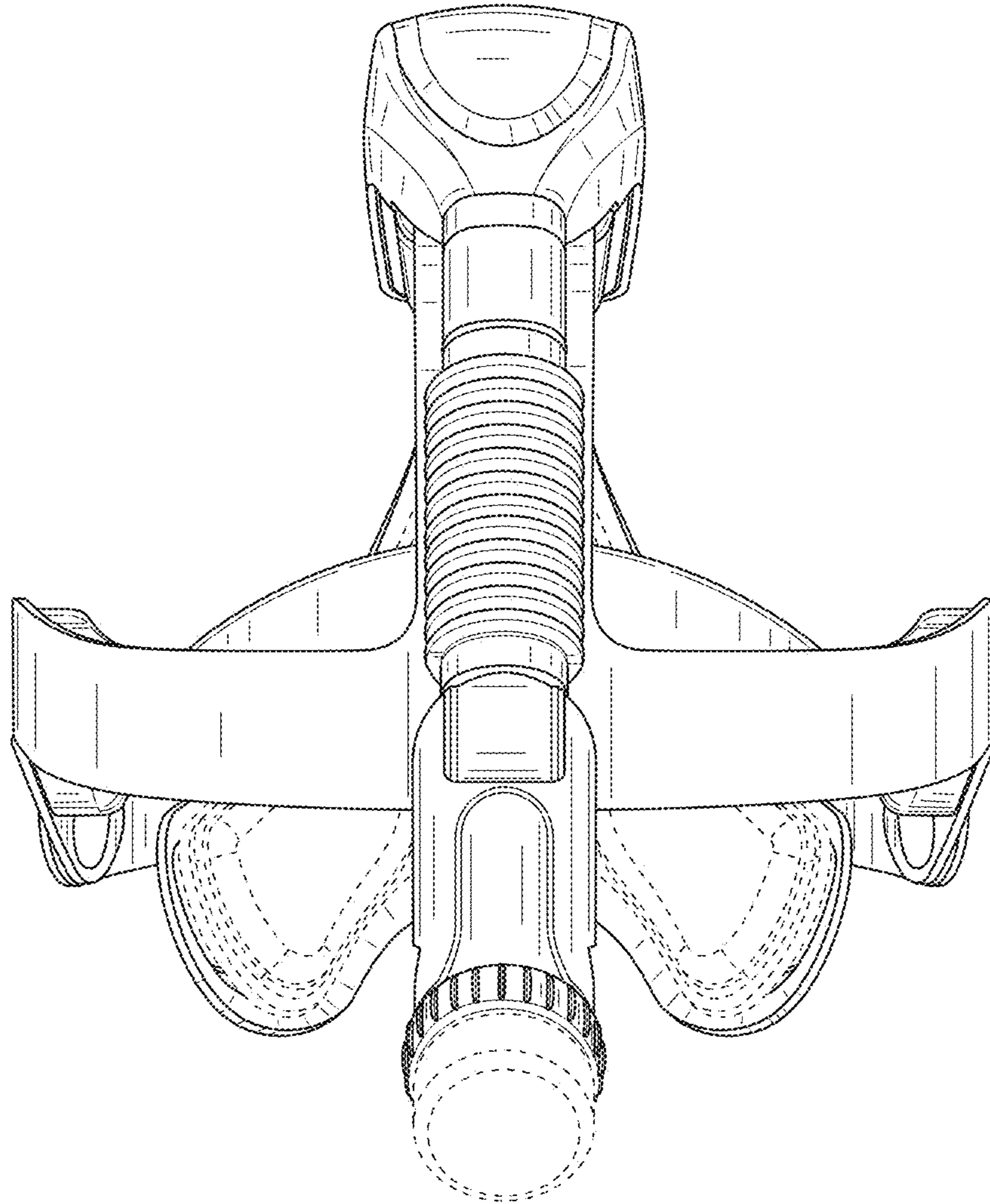


FIG. 10

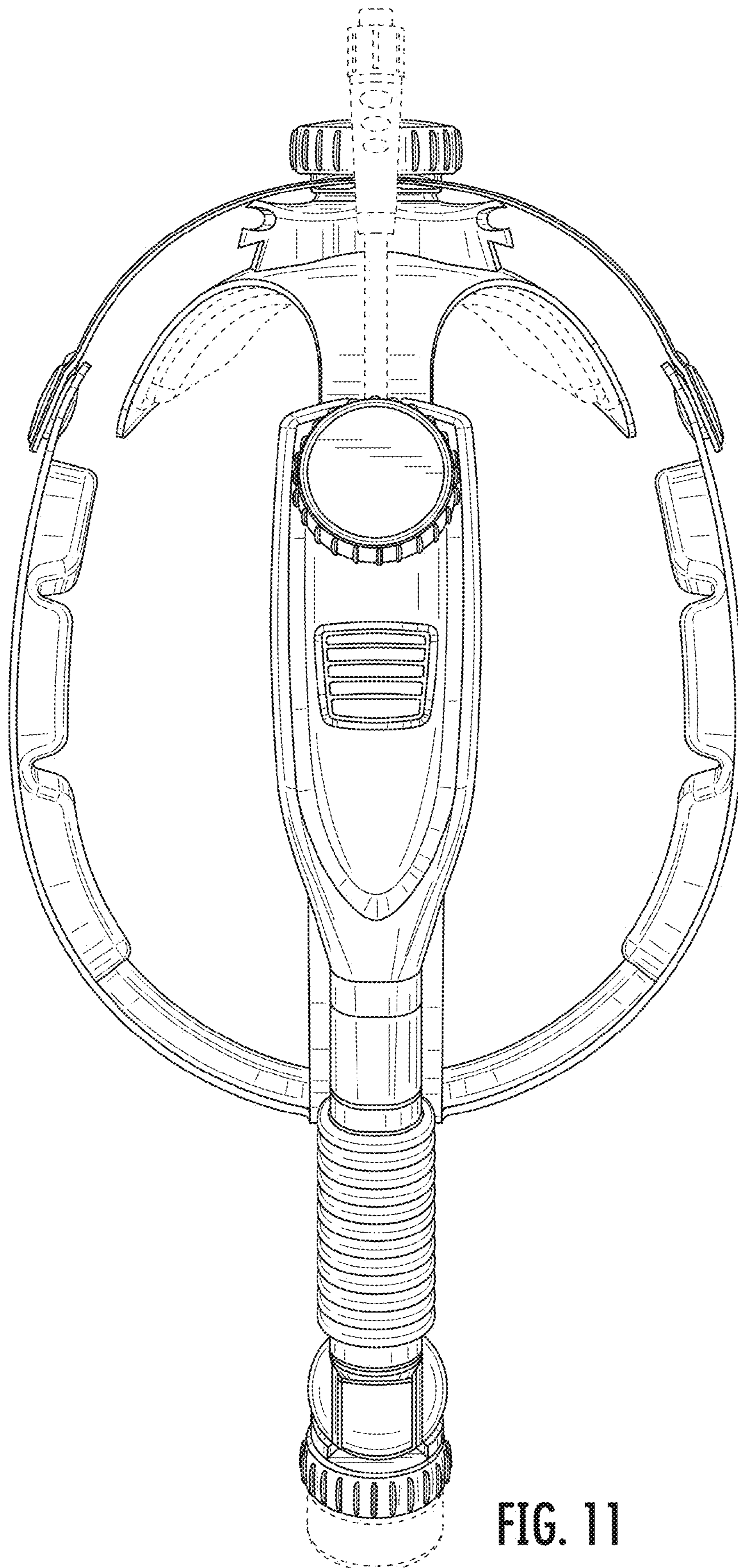


FIG. 11

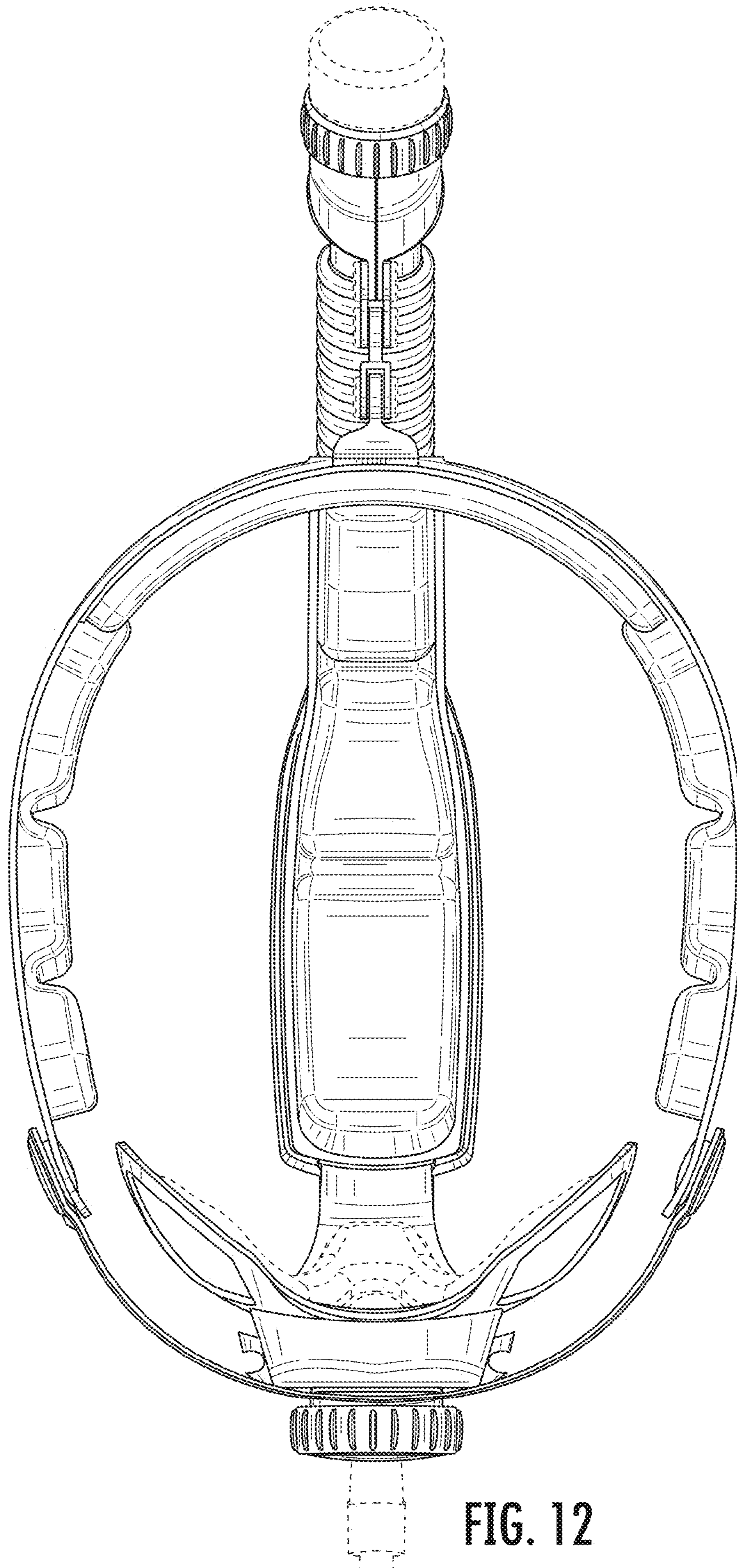


FIG. 12



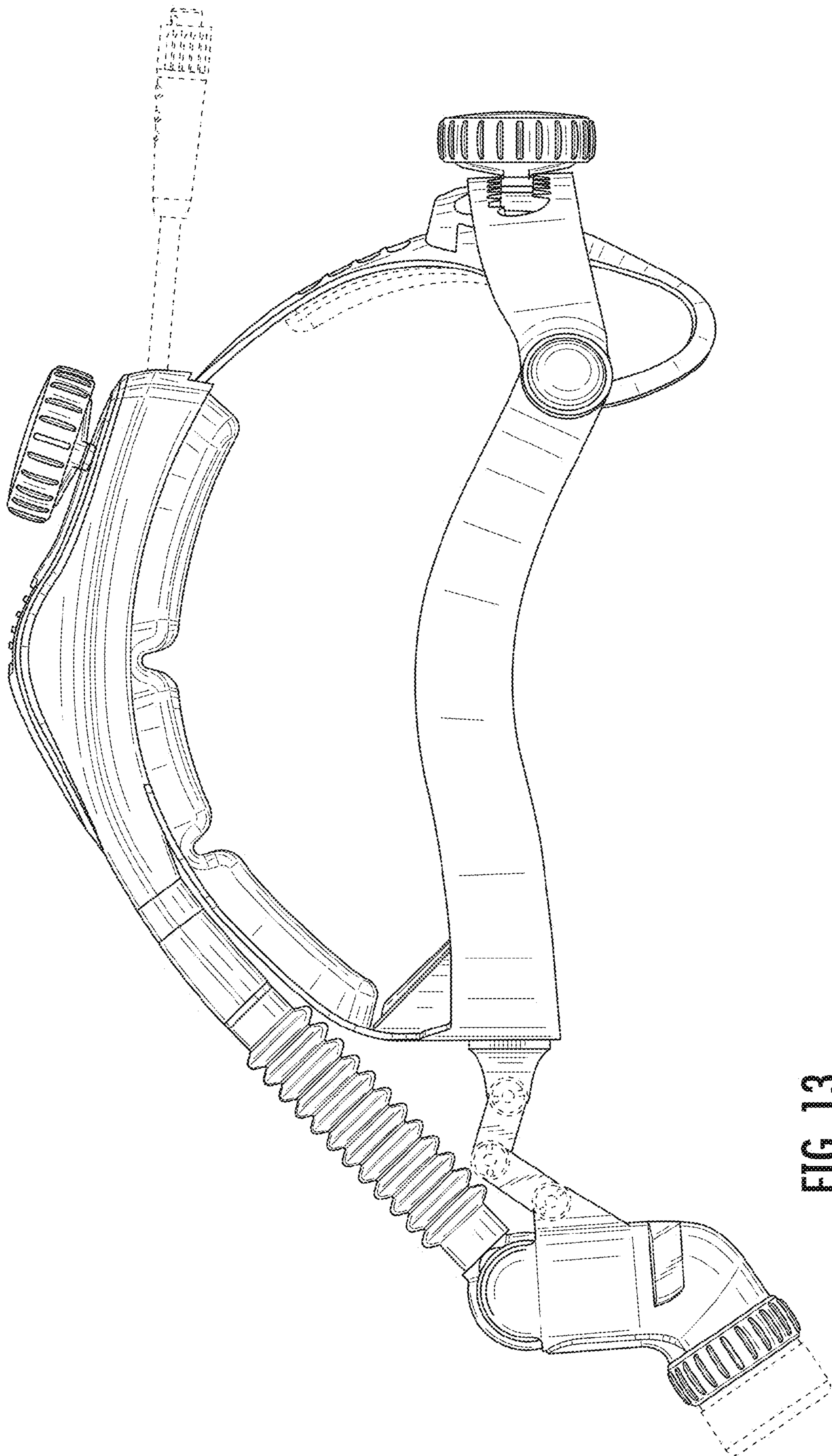


FIG. 13

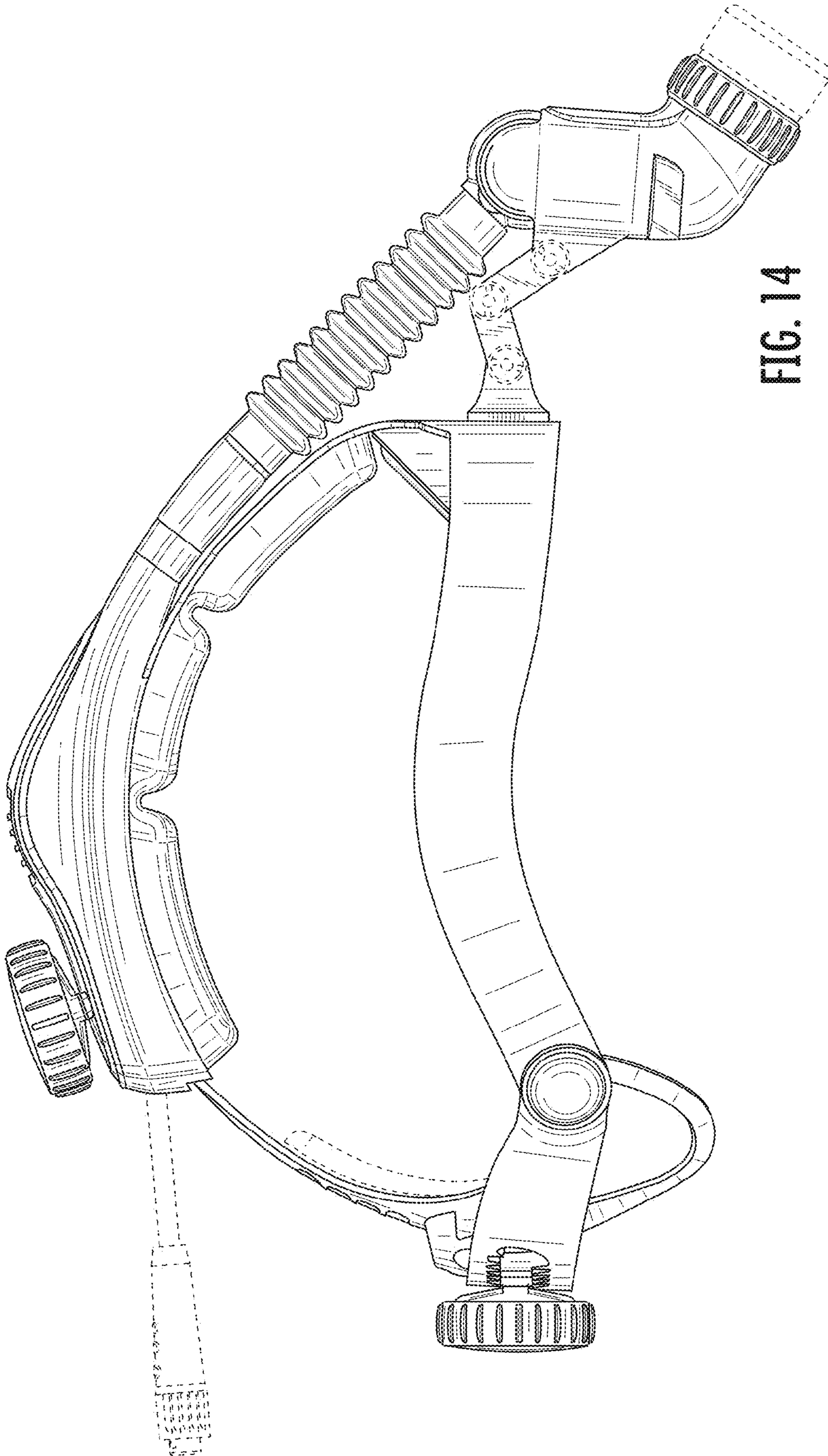


FIG. 14