



US00D703312S

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

(10) **Patent No.:** **US D703,312 S**
(45) **Date of Patent:** **** Apr. 22, 2014**

(54) **PATIENT INTERFACE**
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4,267,845 A 5/1981 Robertson, Jr. et al.
4,273,124 A 6/1981 Zimmerman
4,312,359 A 1/1982 Olson
4,367,735 A 1/1983 Dali
4,367,816 A 1/1983 Wilkes
4,406,283 A 9/1983 Bir
4,422,456 A 12/1983 Teip

(Continued)

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FOREIGN PATENT DOCUMENTS

(**) Term: **14 Years**

DE 146688 2/1981
DE 37 19 009 12/1988

(21) Appl. No.: **29/418,360**

(Continued)

(22) Filed: **Apr. 16, 2012**

OTHER PUBLICATIONS

Related U.S. Application Data

Lubke et al., U.S. Appl. No. 29/347,672, filed Apr. 6, 2010.

(63) Continuation of application No. 29/347,672, filed on
Apr. 6, 2010, now Pat. No. Des. 659,237, which is a
continuation of application No. 29/258,792, filed on
Apr. 28, 2006, now Pat. No. Des. 623,288.

(Continued)

(51) **LOC (10) Cl.** **29-02**

Primary Examiner — Wan Laymon

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

(74) *Attorney, Agent, or Firm* — Nixon & Vanderhye, P.C.

USPC **D24/110.1**; D24/110.4; D24/110.5

(58) **Field of Classification Search**

USPC D24/110.1–110.5, 164; 128/205.25,
128/206.21, 206.27, 207.13, 207.18

See application file for complete search history.

(57)

CLAIM

The ornamental design for a patient interface, as shown and
described.

DESCRIPTION

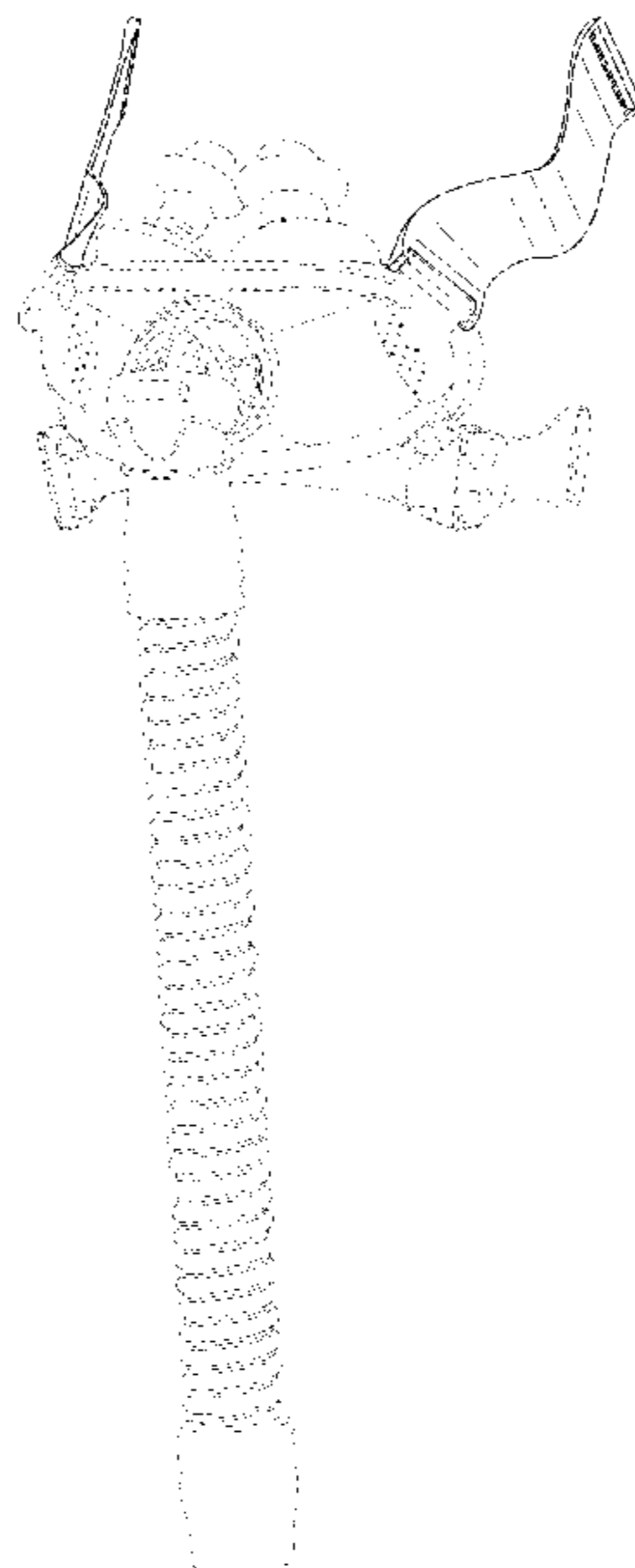
(56) **References Cited**

FIG. 1 is a front perspective view of a patient interface accord-
ing to our new design;
FIG. 2 is a reverse perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a left side view thereof; and,
FIG. 7 is a right side view thereof.
The broken lines represent environmental structure and are
for illustrative purposes only; the broken lines form no part of
the claimed design.

U.S. PATENT DOCUMENTS

443,191 A 12/1890 Illing
1,125,542 A 1/1915 Humphries
3,670,726 A 6/1972 Mahon et al.
3,739,774 A 6/1973 Gregory
3,754,552 A 8/1973 King
3,861,385 A 1/1975 Carden
3,902,486 A 9/1975 Guichard
3,905,361 A 9/1975 Hewson et al.
4,156,426 A 5/1979 Gold

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,493,614 A 1/1985 Chu et al.
 D277,520 S 2/1985 Gregory
 4,549,542 A 10/1985 Chien
 4,587,967 A 5/1986 Chu et al.
 4,601,465 A 7/1986 Roy
 4,617,637 A 10/1986 Chu et al.
 4,660,555 A 4/1987 Payton
 4,699,139 A 10/1987 Marshall et al.
 4,706,664 A 11/1987 Snook et al.
 4,753,233 A 6/1988 Grimes
 4,774,946 A 10/1988 Ackerman et al.
 4,899,740 A 2/1990 Napolitano
 4,915,105 A 4/1990 Lee
 4,996,983 A 3/1991 AmRhein
 5,000,173 A 3/1991 Zalkin et al.
 5,022,900 A 6/1991 Bar-Yona et al.
 5,025,805 A 6/1991 Nutter
 5,038,772 A 8/1991 Kolbe et al.
 5,046,491 A 9/1991 Derrick
 5,074,297 A 12/1991 Venegas
 5,113,857 A 5/1992 Dickerman et al.
 5,121,745 A 6/1992 Israel
 5,127,397 A 7/1992 Kohnke
 5,137,017 A 8/1992 Salter
 D333,015 S 2/1993 Farmer et al.
 5,188,101 A 2/1993 Tumolo
 5,265,592 A 11/1993 Beaussant
 5,265,595 A 11/1993 Rudolph
 5,269,296 A 12/1993 Landis
 5,271,391 A 12/1993 Graves
 5,299,599 A 4/1994 Farmer et al.
 5,335,656 A 8/1994 Bowe et al.
 5,355,893 A 10/1994 Mick et al.
 5,372,130 A 12/1994 Stem et al.
 5,375,593 A 12/1994 Press
 5,385,141 A 1/1995 Granatiero
 5,394,568 A 3/1995 Brostrom et al.
 5,396,885 A 3/1995 Nelson
 5,398,676 A 3/1995 Press et al.
 5,400,776 A 3/1995 Bartholomew
 5,425,359 A 6/1995 Liou
 5,437,267 A 8/1995 Weinstein et al.
 5,509,409 A 4/1996 Weatherholt
 5,526,806 A 6/1996 Sansoni
 5,533,506 A 7/1996 Wood
 5,560,354 A 10/1996 Berthon-Jones et al.
 5,682,881 A 11/1997 Winthrop et al.
 5,724,965 A 3/1998 Handke et al.
 5,740,799 A 4/1998 Nielson
 5,794,619 A 8/1998 Edeiman et al.
 5,906,203 A 5/1999 Klockseth et al.
 5,954,049 A 9/1999 Foley et al.
 6,119,694 A 9/2000 Correa et al.
 6,123,071 A 9/2000 Berthon-Jones et al.
 D439,326 S 3/2001 Hecker et al.
 6,357,441 B1 3/2002 Kwok et al.
 6,431,172 B1 8/2002 Bordewick
 6,439,234 B1 8/2002 Curti et al.
 6,478,026 B1 11/2002 Wood
 6,561,188 B1 5/2003 Ellis
 6,561,193 B1 5/2003 Noble
 6,571,798 B1 6/2003 Thornton
 6,581,602 B2 6/2003 Kwok et al.
 6,595,214 B1 7/2003 Hecker et al.
 6,595,215 B2 7/2003 Wood
 6,637,434 B2 10/2003 Noble
 6,644,315 B2 11/2003 Ziaee

6,655,385 B1 12/2003 Curti et al.
 6,679,265 B2 1/2004 Strickland et al.
 6,766,800 B2 7/2004 Chu et al.
 D542,912 S 5/2007 Gunaratnam et al.
 7,318,437 B2 1/2008 Gunaratnam et al.
 7,472,707 B2 1/2009 Wood et al.
 D586,907 S 2/2009 Judson et al.
 D597,199 S 7/2009 Smart et al.
 D623,288 S 9/2010 Lubke et al.
 7,874,293 B2 1/2011 Gunaratnam et al.
 D635,247 S 3/2011 Scheiner et al.
 8,042,546 B2 * 10/2011 Gunaratnam et al. ... 128/207.18
 8,136,525 B2 * 3/2012 Lubke et al. 128/205.25
 D664,250 S * 7/2012 Scheiner et al. D24/110.1
 8,402,971 B2 * 3/2013 Scheiner et al. 128/206.24
 2002/0046755 A1 4/2002 DeVoss
 2002/0124849 A1 9/2002 Billette De Villemeur
 2003/0079749 A1 5/2003 Strickland et al.
 2003/0094178 A1 5/2003 McAuley et al.
 2003/0196658 A1 10/2003 Ging et al.
 2004/0079374 A1 4/2004 Thornton
 2004/0112384 A1 6/2004 Lithgow et al.
 2005/0016544 A1 1/2005 Thornton
 2005/0028822 A1 2/2005 Sleeper et al.
 2005/0033247 A1 2/2005 Thompson
 2005/0051176 A1 3/2005 Riggins
 2005/0061326 A1 3/2005 Payne, Jr.
 2005/0241644 A1 11/2005 Gunaratnam et al.
 2006/0124131 A1 6/2006 Chandran et al.
 2006/0283461 A1 12/2006 Lubke et al.
 2009/0044808 A1 2/2009 Guney et al.
 2009/0151729 A1 6/2009 Judson et al.
 2009/0183739 A1 7/2009 Wondka
 2009/0277452 A1 11/2009 Lubke et al.
 2009/0320851 A1 12/2009 Selvarajan et al.
 2010/0000534 A1 1/2010 Kooij et al.
 2010/0083961 A1 4/2010 McAuley et al.
 2010/0229868 A1 9/2010 Rummery et al.
 2011/0041855 A1 2/2011 Gunaratnam et al.
 2012/0145158 A1 * 6/2012 Lubke et al. 128/206.21
 2013/0239973 A1 * 9/2013 Scheiner et al. 128/206.21

FOREIGN PATENT DOCUMENTS

DE 199 44 242 3/2001
 EP 0 658 356 6/1995
 EP 1 481 702 A2 12/2004
 GB 532214 1/1941
 GB 2 368 533 5/2002
 WO WO 01/97892 12/2001
 WO WO 2005/063328 7/2005

OTHER PUBLICATIONS

Respironics Co.—Mask Family—<http://maskfamily.respironics.com/> viewed on Jul. 24, 2006.
 ResMed Co.—Mask Products—<http://resmed.com/portal/site/ResMedUS/index.jsp?..> viewed on Jul. 24, 2006.
 Fisher and Paykel Co.—Product Family—<http://www.fphcare.com/osa/products.asp/> viewed on Jul. 24, 2006.
 Hans Rudolph, Inc.—Mask Products—<http://www.rudolphkc.com/products.php?category=MASKS> viewed on Jul. 24, 2006.
 Snapp Nasal Interface, Tiara Medical Systems, Inc.—http://www.tiaramed.com/asp_shops/shopdisplayproducts.asp?id=109&cat=SNAPP%2A+Nasal+Interface viewed Jul. 24, 2006.
 U.S. Appl. No. 60/634,802, filed Dec. 10, 2004.
 U.S. Appl. No. 60/645,672, filed Jan. 21, 2005.

* cited by examiner

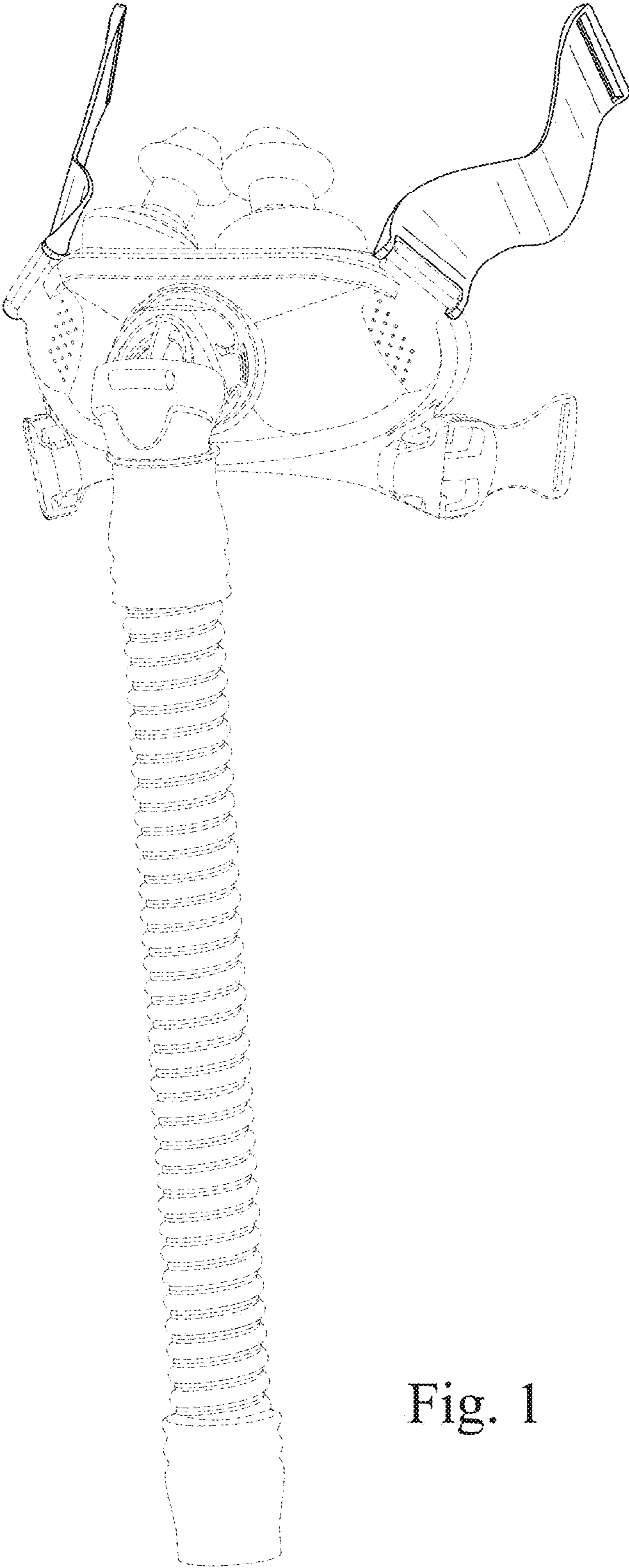


Fig. 1

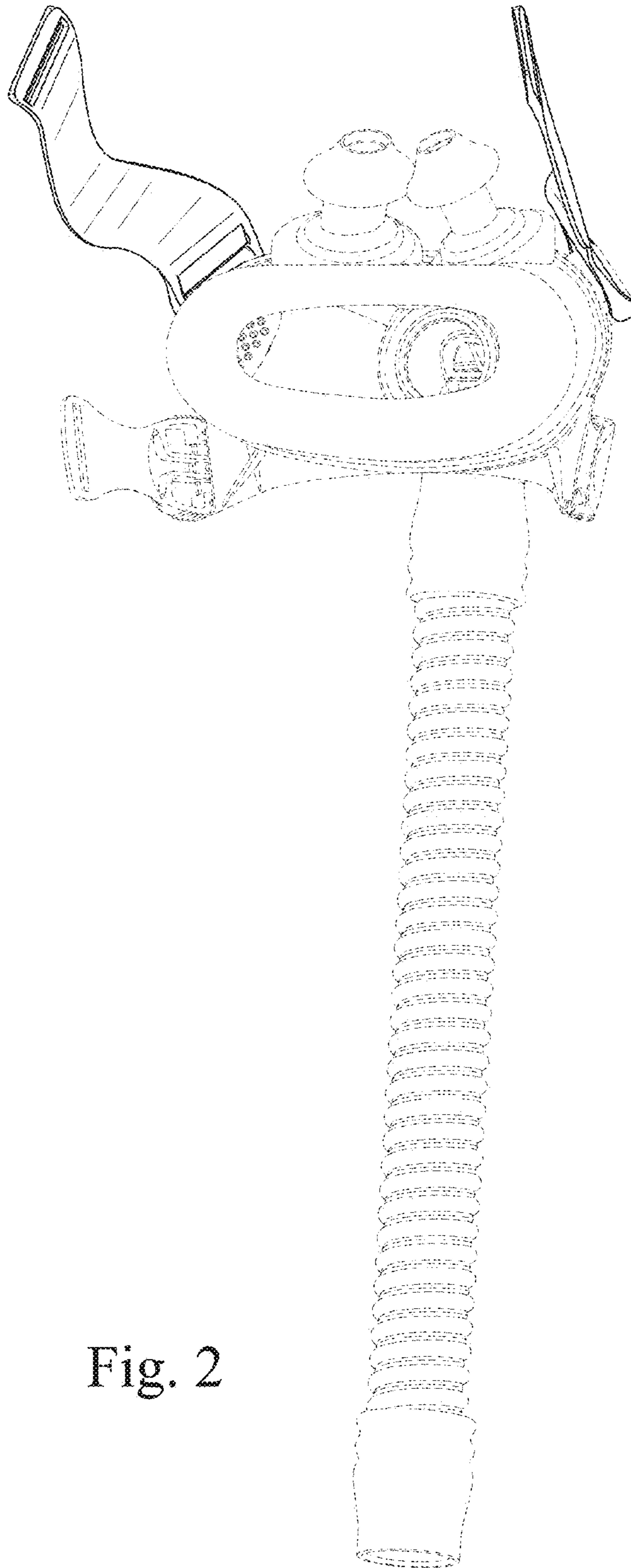


Fig. 2

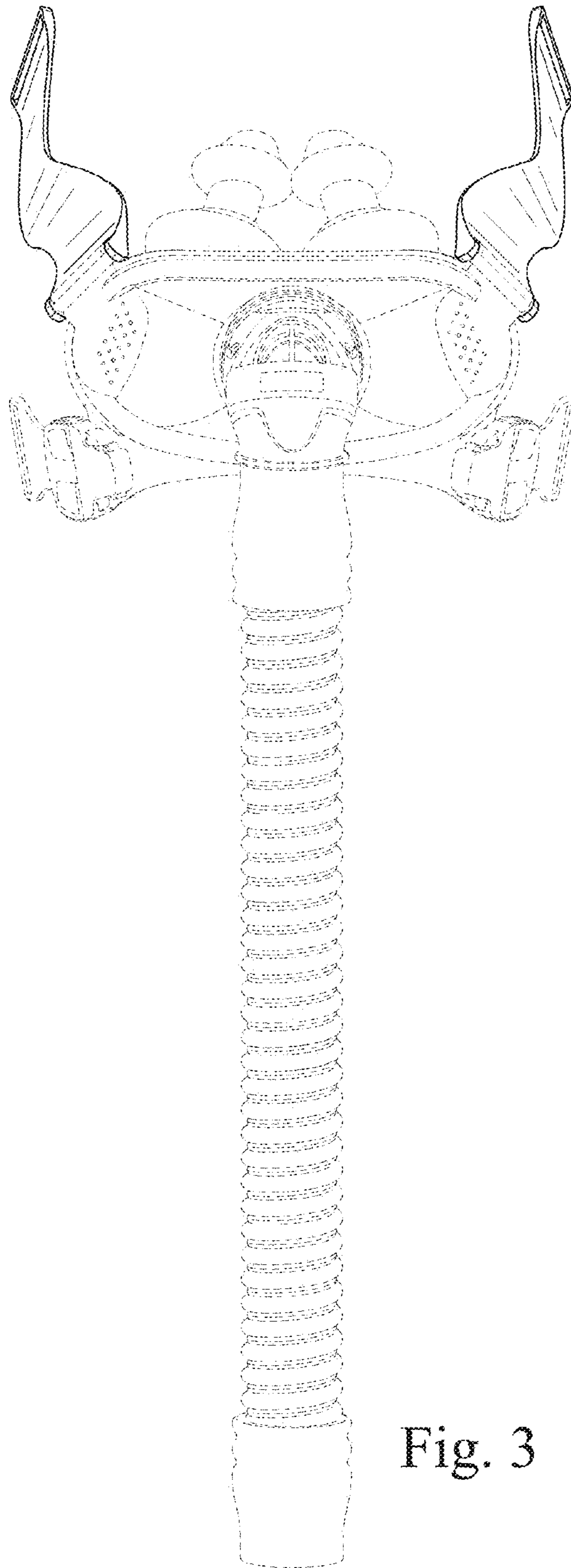


Fig. 3

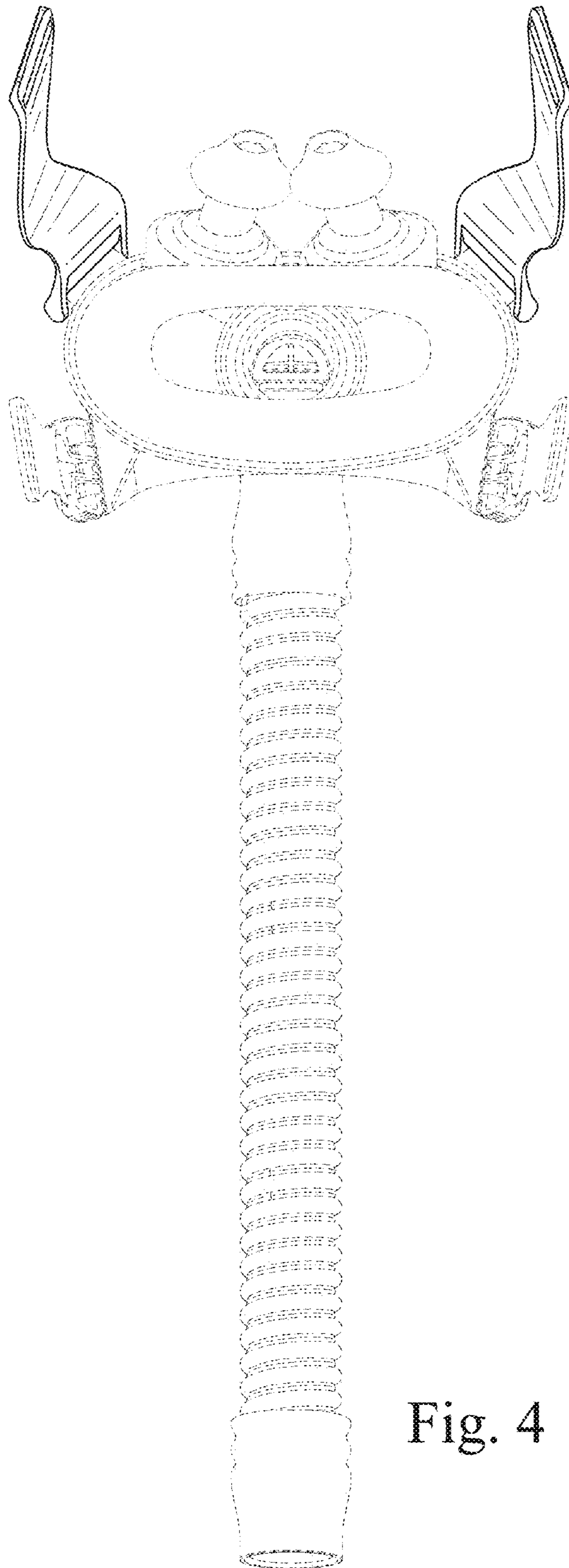


Fig. 4

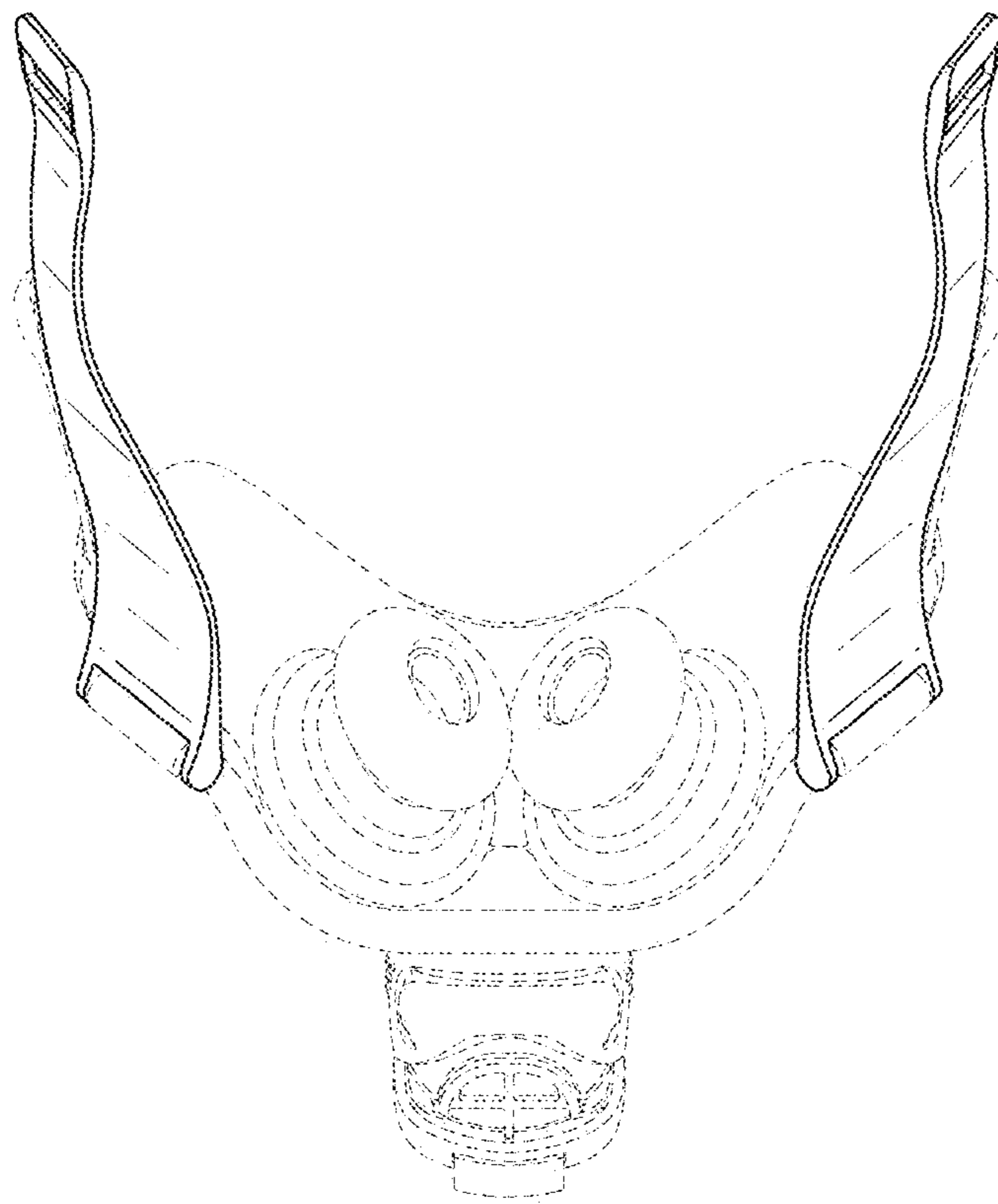


Fig. 5

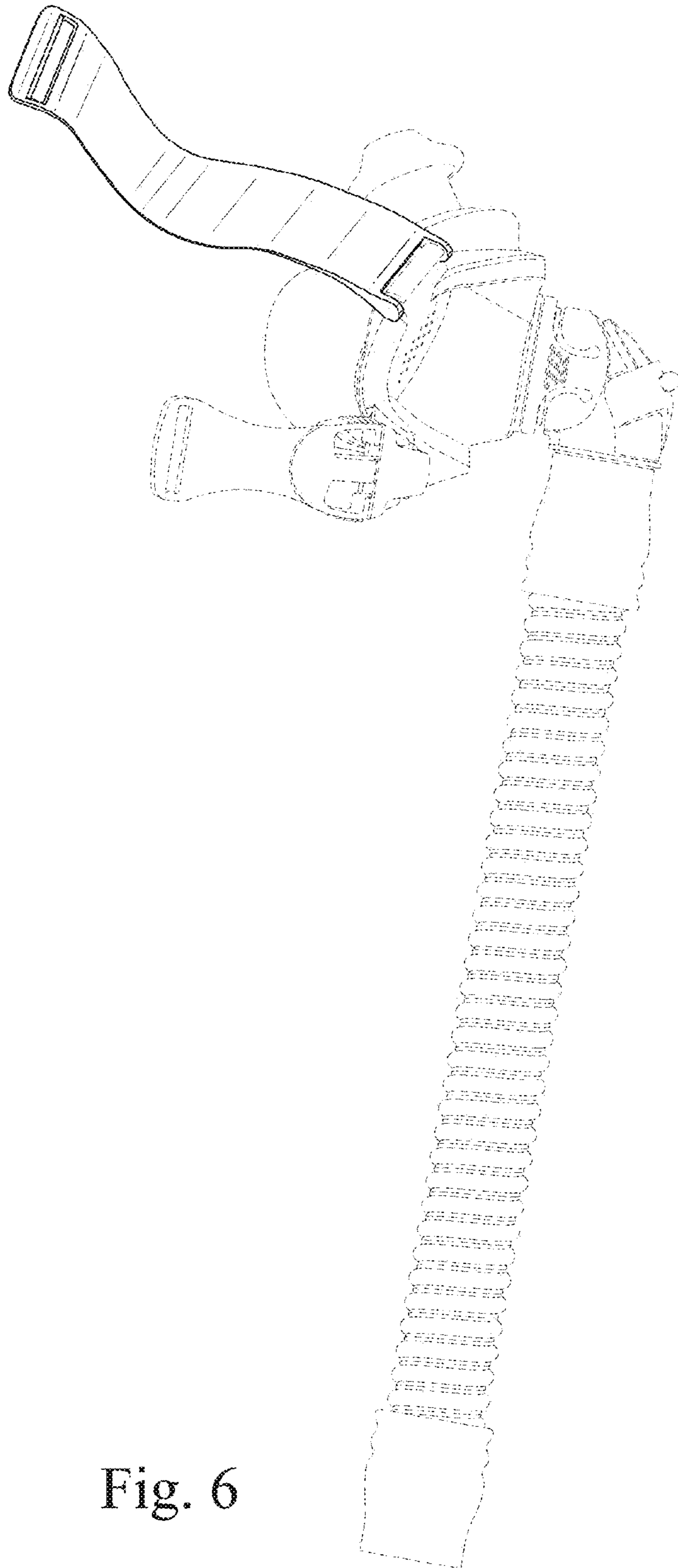


Fig. 6

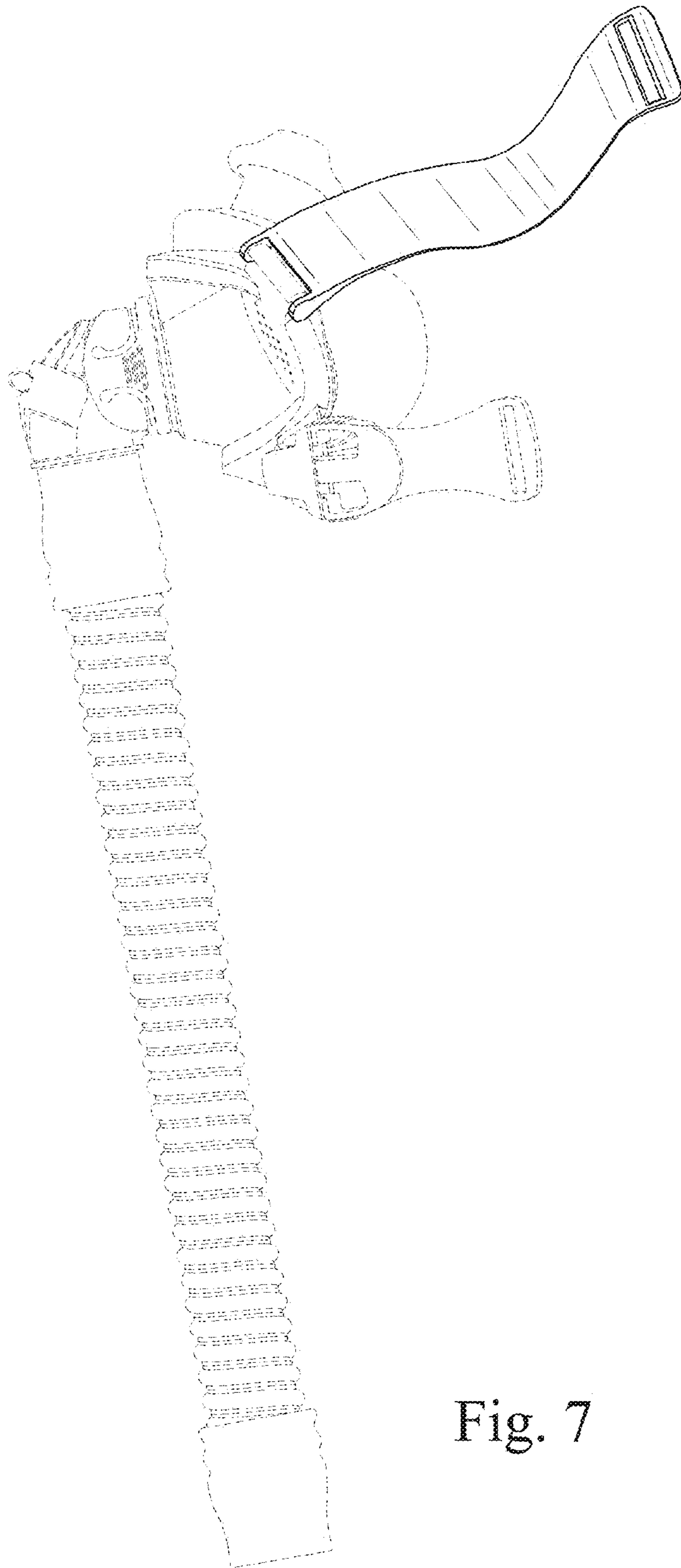


Fig. 7