



US00D660433S

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

(10) **Patent No.:** **US D660,433 S**

(45) **Date of Patent:** **** May 22, 2012**

(54) **SURGICAL STENT ASSEMBLY**

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6,077,297 A 6/2000 Robinson et al.
6,083,257 A 7/2000 Taylor et al.
6,214,036 B1 4/2001 Letendre et al.
6,267,783 B1 7/2001 Letendre et al.
6,306,141 B1 10/2001 Jervis
6,488,702 B1 12/2002 Besselink
6,533,810 B2 3/2003 Hankh et al.

(Continued)

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FOREIGN PATENT DOCUMENTS

DE 19857887 A1 7/2000

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/375,257**

Ruiz et al., Overview of the Pre-CE Mark Transcatheter Aortic Valve Technologies, Lenox Hill Heart and Vascular Institute of New York, 14 pages, May 26, 2010.

(22) Filed: **Sep. 20, 2010**

U.S. Appl. No. 29/375,254.

(51) **LOC (9) Cl.** **24-02**

U.S. Appl. No. 29/375,253.

(52) **U.S. Cl.** **D24/155**

U.S. Appl. No. 29/375,239.

(58) **Field of Classification Search** D24/155, D24/156, 133, 152, 154, 135, 141, 144-146, D24/151; 606/194, 198; 623/23.54, 23.7, 623/1.11, 1.15, 1.16, 903, 1.29; 604/1.02, 604/103.02; 128/204.18
See application file for complete search history.

(Continued)

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(56) **References Cited**

(57) **CLAIM**

U.S. PATENT DOCUMENTS

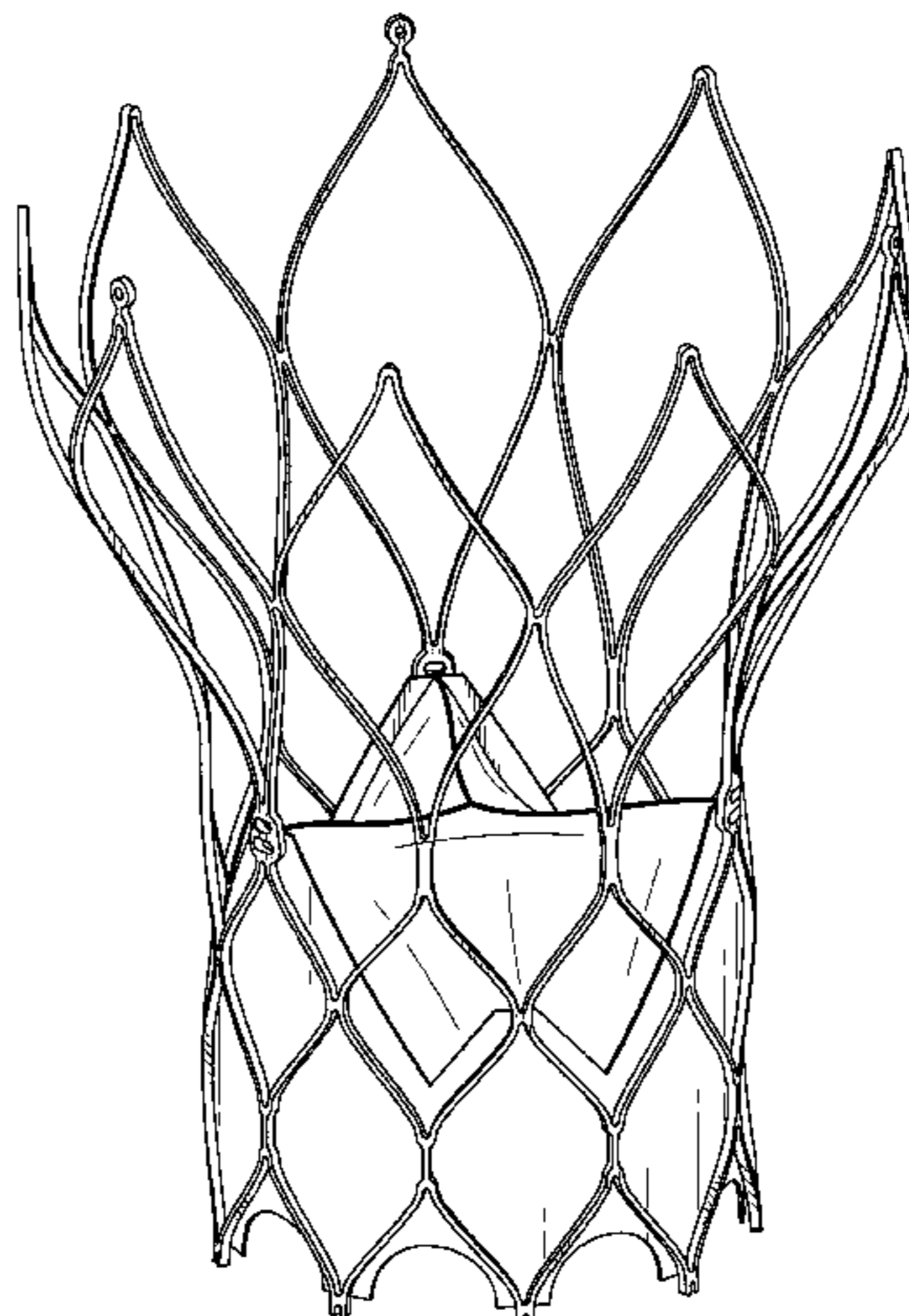
The ornamental design for a surgical stent assembly, as shown and described.

3,657,744 A 4/1972 Ersek
4,922,905 A 5/1990 Strecker
5,084,064 A * 1/1992 Barak et al. 623/1.31
5,100,429 A * 3/1992 Sinofsky et al. 623/1.21
5,163,953 A * 11/1992 Vince 623/2.11
5,411,552 A 5/1995 Andersen et al.
5,480,423 A 1/1996 Ravenscroft et al.
5,500,016 A * 3/1996 Fisher 623/2.19
D380,266 S * 6/1997 Boatman et al. D24/155
D380,831 S * 7/1997 Kavteladze et al. D24/155
D390,957 S * 2/1998 Fontaine D24/155
5,843,167 A 12/1998 Dwyer et al.
5,855,601 A * 1/1999 Bessler et al. 623/2.38
5,924,424 A 7/1999 Stevens et al.
5,961,549 A 10/1999 Nguyen et al.
5,968,068 A 10/1999 Dehdashtian et al.

DESCRIPTION

FIG. 1 is a top perspective view of a surgical stent assembly showing my new design;
FIG. 2 is a front side elevational view thereof;
FIG. 3 is a rear side elevational view thereof;
FIG. 4 is a right side elevational view thereof, the left side elevational view being a mirror image of the right side;
FIG. 5 is a top plan view thereof; and,
FIG. 6 is a bottom plan view thereof.

1 Claim, 6 Drawing Sheets



US D660,433 S

U.S. PATENT DOCUMENTS

6,623,518 B2 9/2003 Thompson et al.
D484,979 S * 1/2004 Fontaine D24/155
6,716,241 B2 * 4/2004 Wilder et al. 623/1.24
6,719,789 B2 4/2004 Cox
6,730,118 B2 5/2004 Spenser et al.
6,790,230 B2 9/2004 Beyersdorf et al.
6,814,746 B2 11/2004 Thompson et al.
6,830,584 B1 12/2004 Seguin
6,893,460 B2 5/2005 Spenser et al.
6,896,695 B2 * 5/2005 Mueller et al. 623/1.15
6,908,481 B2 6/2005 Cribier
7,018,406 B2 3/2006 Seguin et al.
7,137,184 B2 11/2006 Schreck
7,267,686 B2 9/2007 DiMatteo et al.
D553,747 S * 10/2007 Fliedner D24/155
7,326,237 B2 * 2/2008 DePalma et al. 623/1.13
D568,476 S * 5/2008 Cottone et al. D24/155
D569,976 S * 5/2008 Raj D et al. D24/155
7,381,218 B2 6/2008 Schreck
7,452,371 B2 11/2008 Pavcnik et al.
7,500,988 B1 * 3/2009 Butaric et al. 623/1.16
7,510,572 B2 3/2009 Gabbay
RE40,816 E 6/2009 Taylor et al.
D597,671 S * 8/2009 Cottone et al. D24/155
7,585,321 B2 9/2009 Cribier
7,641,687 B2 * 1/2010 Chinn et al. 623/2.4
D612,499 S * 3/2010 Ondracek et al. D24/155
7,682,390 B2 3/2010 Seguin
7,731,742 B2 6/2010 Schlick et al.
D622,387 S * 8/2010 Igaki D24/155
D622,388 S * 8/2010 Igaki D24/155
7,803,185 B2 9/2010 Gabbay
7,846,203 B2 12/2010 Cribier
7,846,204 B2 12/2010 Letac et al.
7,862,609 B2 * 1/2011 Butaric et al. 623/1.29
7,875,068 B2 * 1/2011 Mangiardi et al. 623/1.15
7,887,579 B2 * 2/2011 Mangiardi et al. 623/1.15
D635,261 S * 3/2011 Rossi D24/155
D635,262 S * 3/2011 Rossi D24/155
7,914,569 B2 3/2011 Nguyen et al.
2003/0050694 A1 3/2003 Yang et al.
2003/0130726 A1 7/2003 Thorpe et al.
2004/0049262 A1 3/2004 Obermiller et al.
2004/0093075 A1 5/2004 Kuehne
2004/0210304 A1 10/2004 Seguin et al.
2005/0096726 A1 5/2005 Sequin et al.
2005/0137695 A1 6/2005 Salahieh et al.
2005/0137697 A1 6/2005 Salahieh et al.
2006/0004436 A1 * 1/2006 Amarant et al. 623/1.15
2006/0074484 A1 4/2006 Huber
2006/0122692 A1 6/2006 Gilad et al.
2006/0173532 A1 8/2006 Flagle et al.
2006/0206202 A1 9/2006 Bonhoeffer et al.
2006/0241744 A1 10/2006 Beith
2006/0259120 A1 11/2006 Vongphakdy et al.
2006/0259137 A1 11/2006 Artof et al.
2006/0265056 A1 11/2006 Nguyen et al.
2006/0276813 A1 12/2006 Greenberg
2007/0010876 A1 1/2007 Salahieh et al.
2007/0027534 A1 2/2007 Bergheim et al.
2007/0043435 A1 2/2007 Seguin et al.
2007/0055358 A1 3/2007 Krolik et al.
2007/0073391 A1 3/2007 Bourang et al.
2007/0088431 A1 4/2007 Bourang et al.
2007/0093890 A1 4/2007 Eliassen et al.
2007/0100435 A1 5/2007 Case et al.
2007/0112422 A1 5/2007 Dehdashtian
2007/0168013 A1 7/2007 Douglas
2007/0203575 A1 8/2007 Forster et al.
2007/0213813 A1 9/2007 Von Segesser et al.
2007/0239271 A1 10/2007 Nguyen
2007/0244545 A1 10/2007 Birdsall et al.
2007/0244552 A1 10/2007 Salahieh et al.
2007/0288087 A1 12/2007 Fearnot et al.
2008/0039934 A1 2/2008 Styrc
2008/0125853 A1 5/2008 Bailey et al.
2008/0140189 A1 6/2008 Nguyen et al.

2008/0147182 A1 6/2008 Righini et al.
2008/0147183 A1 6/2008 Styrc
2008/0154355 A1 6/2008 Benichou et al.
2008/0154356 A1 6/2008 Obermiller et al.
2008/0243245 A1 10/2008 Thambar et al.
2008/0255662 A1 10/2008 Stacchino et al.
2008/0262602 A1 10/2008 Wilk et al.
2008/0269879 A1 10/2008 Sathe et al.
2008/0275540 A1 * 11/2008 Wen 623/1.26
2009/0054975 A1 2/2009 del Nido et al.
2009/0112309 A1 4/2009 Jaramillo et al.
2009/0138079 A1 5/2009 Tuval et al.
2009/0204202 A1 * 8/2009 Dierking et al. 623/1.16
2010/0004740 A1 1/2010 Seguin et al.
2010/0036484 A1 2/2010 Hariton et al.
2010/0049306 A1 2/2010 House et al.
2010/0087907 A1 4/2010 Lattouf
2010/0131055 A1 5/2010 Case et al.
2010/0168778 A1 7/2010 Braido
2010/0168839 A1 7/2010 Braido et al.
2010/0185277 A1 7/2010 Braido et al.
2010/0191326 A1 7/2010 Alkhatib
2010/0204781 A1 8/2010 Alkhatib
2010/0204785 A1 8/2010 Alkhatib
2010/0217382 A1 8/2010 Chau et al.
2010/0249911 A1 9/2010 Alkhatib
2010/0249923 A1 9/2010 Alkhatib et al.
2010/0256737 A1 * 10/2010 Pollock et al. 623/1.15
2010/0274346 A1 * 10/2010 Chouinard et al. 623/1.15
2010/0286768 A1 11/2010 Alkhatib
2010/0298931 A1 11/2010 Quadri et al.
2011/0071613 A1 * 3/2011 Wood et al. 623/1.11
2011/0098802 A1 * 4/2011 Braido et al. 623/1.26

FOREIGN PATENT DOCUMENTS

DE 10121210 A1 11/2002
DE 202008009610 U1 12/2008
EP 0850607 A1 7/1998
EP 1000590 A1 5/2000
EP 1129744 A1 9/2001
EP 1157673 A2 11/2001
EP 1360942 A1 11/2003
EP 1584306 A1 10/2005
EP 1598031 A2 11/2005
FR 2847800 A1 6/2004
WO 9117720 A1 11/1991
WO 9716133 A1 5/1997
WO 9832412 A2 7/1998
WO 9913801 A1 3/1999
WO 0128459 A1 4/2001
WO 0149213 A2 7/2001
WO 0154625 A1 8/2001
WO 0156500 A2 8/2001
WO 0176510 A2 10/2001
WO 0236048 A1 5/2002
WO 0247575 A2 6/2002
WO 03047468 A1 6/2003
WO 2006073626 A2 7/2006
WO 2007071436 A2 6/2007
WO 2008070797 A2 6/2008
WO 2010008548 A2 1/2010
WO 2010008549 A1 1/2010
WO 2010051025 A1 5/2010
WO 2010087975 A1 8/2010
WO 2010096176 A1 8/2010
WO 2010098857 A1 9/2010

OTHER PUBLICATIONS

U.S. Appl. No. 29/375,238.
U.S. Appl. No. 29/375,245.
U.S. Appl. No. 29/375,251.
U.S. Appl. No. 29/375,260.
U.S. Appl. No. 29/375,252.
U.S. Appl. No. 29/375,258.
U.S. Appl. No. 29/375,232.
U.S. Appl. No. 29/375,235.

* cited by examiner

FIG. 1

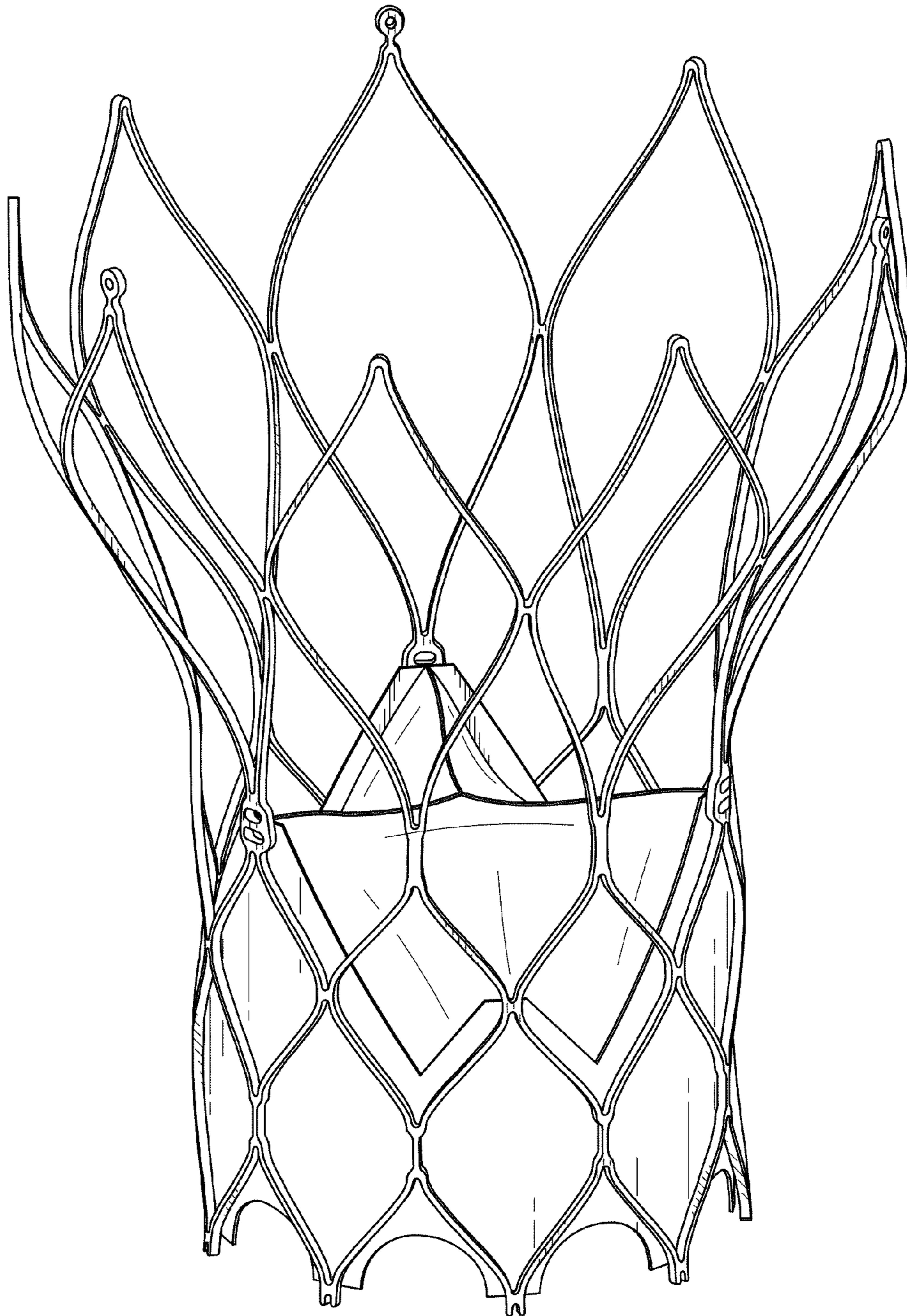


FIG. 2

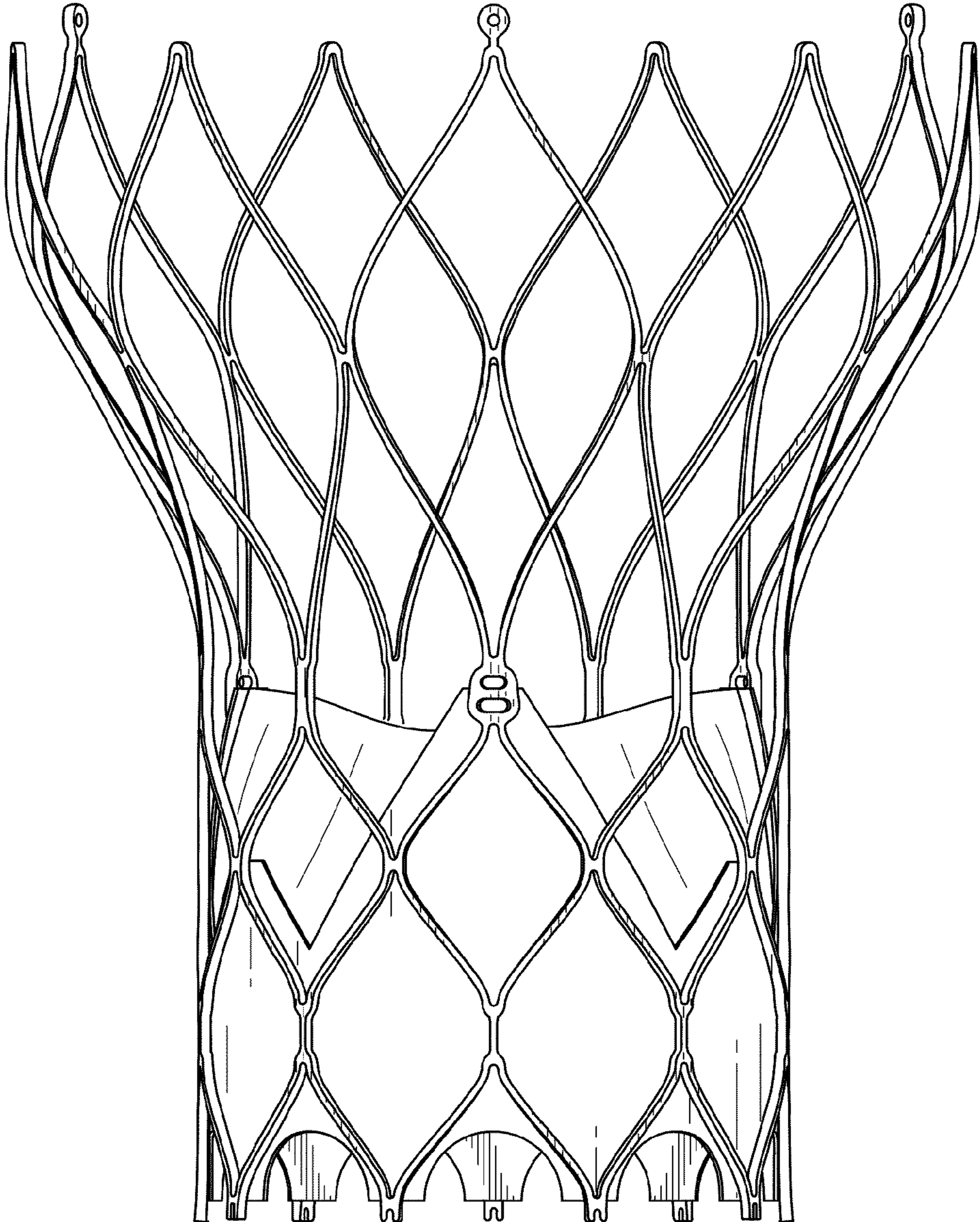


FIG. 3

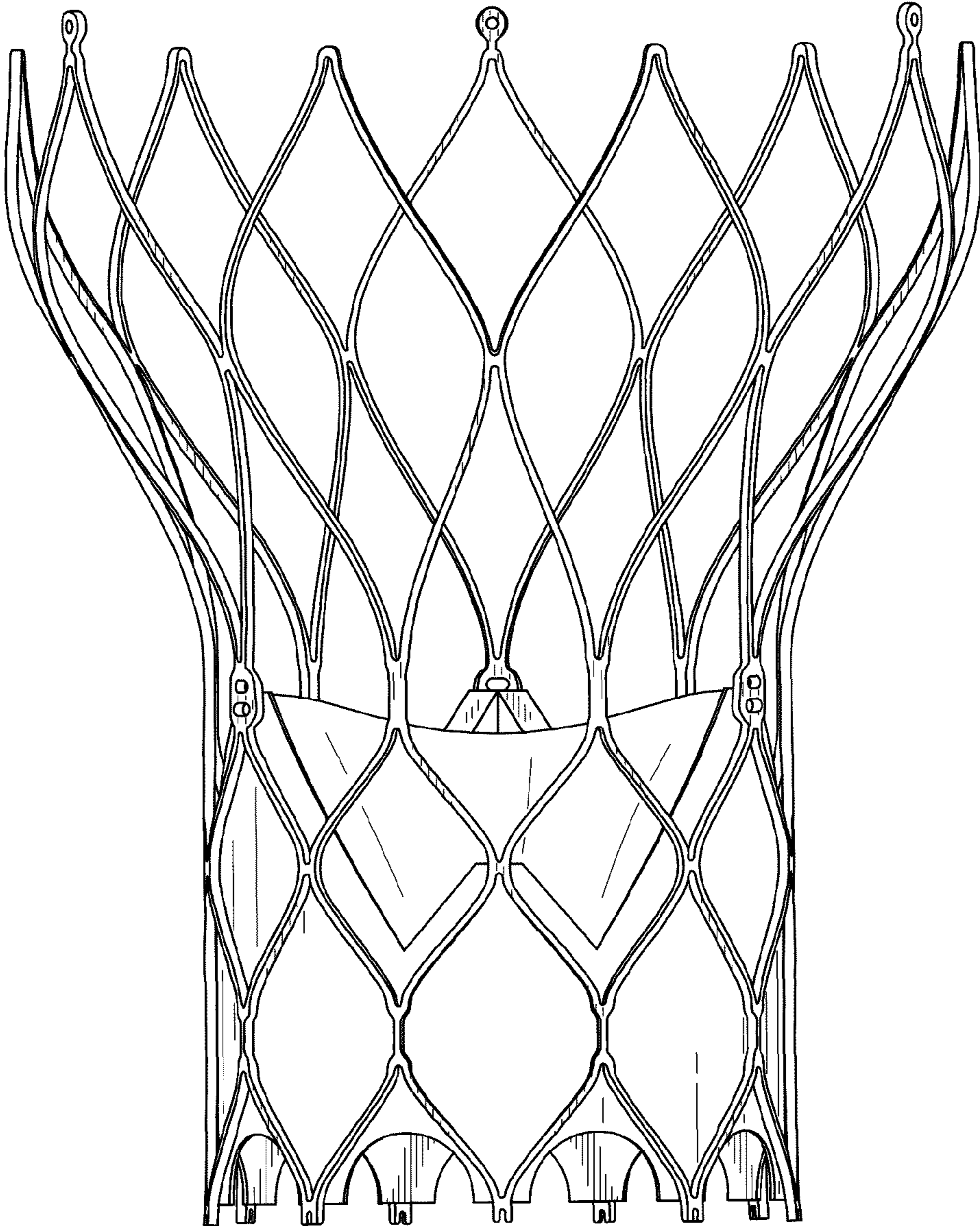


FIG. 4

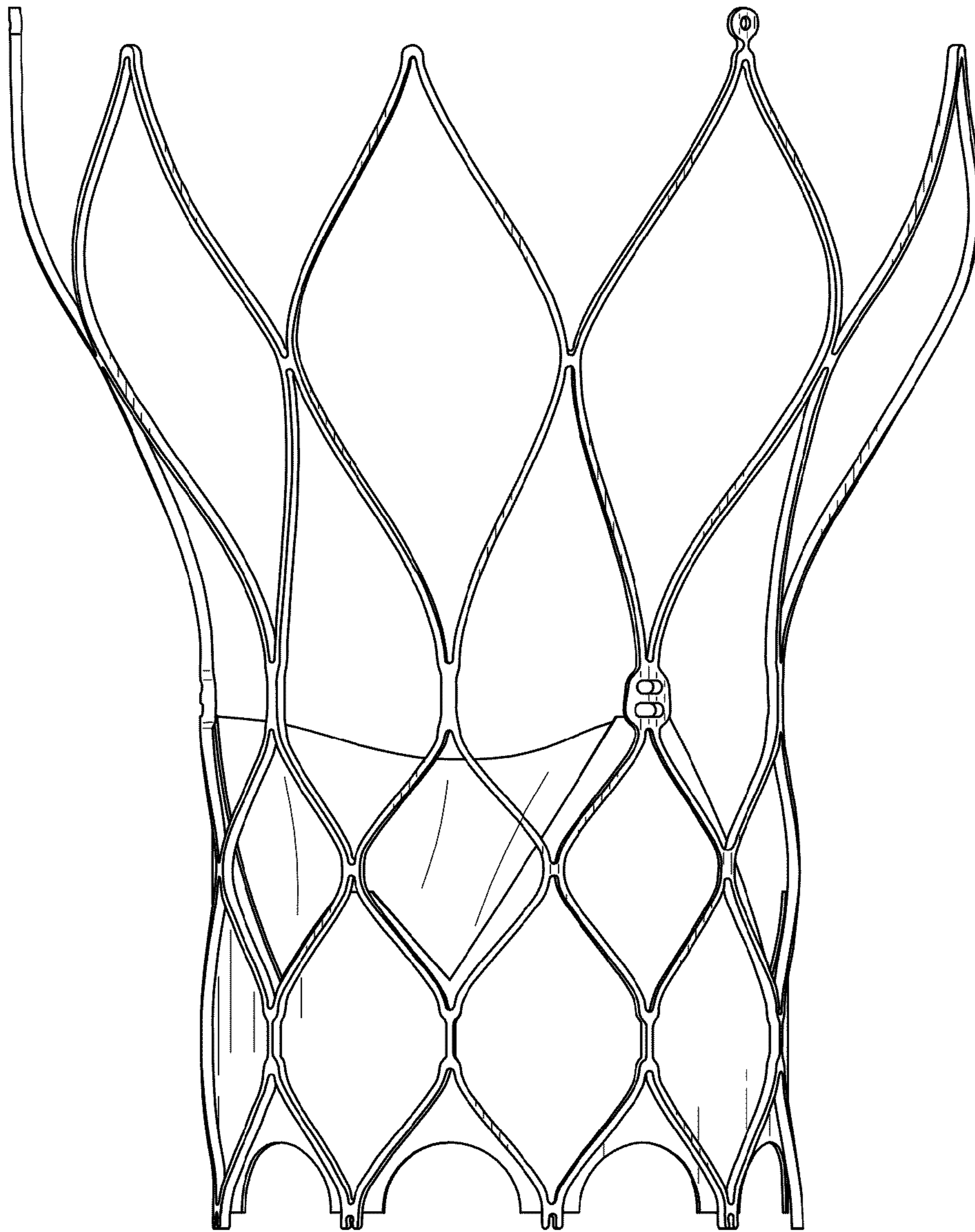


FIG. 5

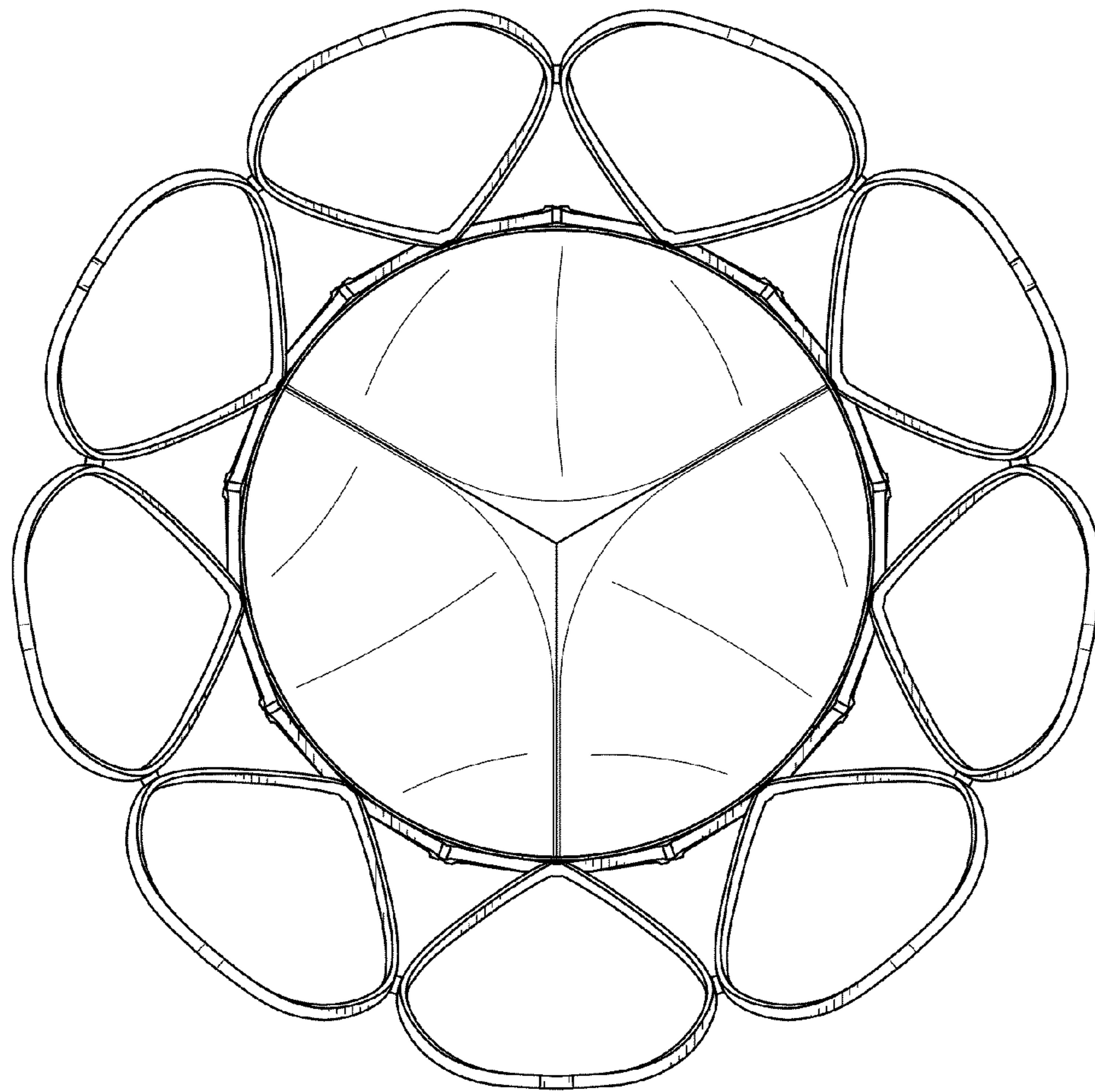


FIG. 6

