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(12) **United States Design Patent**  
**Braido**

(10) **Patent No.:** **US D684,692 S**  
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- (54) **FORKED ENDS**
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- (\*) **Notice:** This patent is subject to a terminal disclaimer.
- (\*\*) **Term:** **14 Years**
- (21) **Appl. No.:** **29/375,260**
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- (51) **LOC (9) Cl.** ..... **24-02**
- (52) **U.S. Cl.**  
USPC ..... **D24/155**
- (58) **Field of Classification Search**  
USPC ..... D24/155, 156, 133, 152, 154, 135, D24/141, 144-146, 151; 606/194, 198; 623/23.54, 23.7, 1.15, 1.16, 903, 1.29; 604/1.02, 604/103.02; 128/204.18  
See application file for complete search history.

- 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.
- 6,077,297 A 6/2000 Robinson et al.

(Continued)

**FOREIGN PATENT DOCUMENTS**

- DE 19857887 A1 7/2000
- DE 10121210 A1 11/2002

(Continued)

**OTHER PUBLICATIONS**

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.

(Continued)

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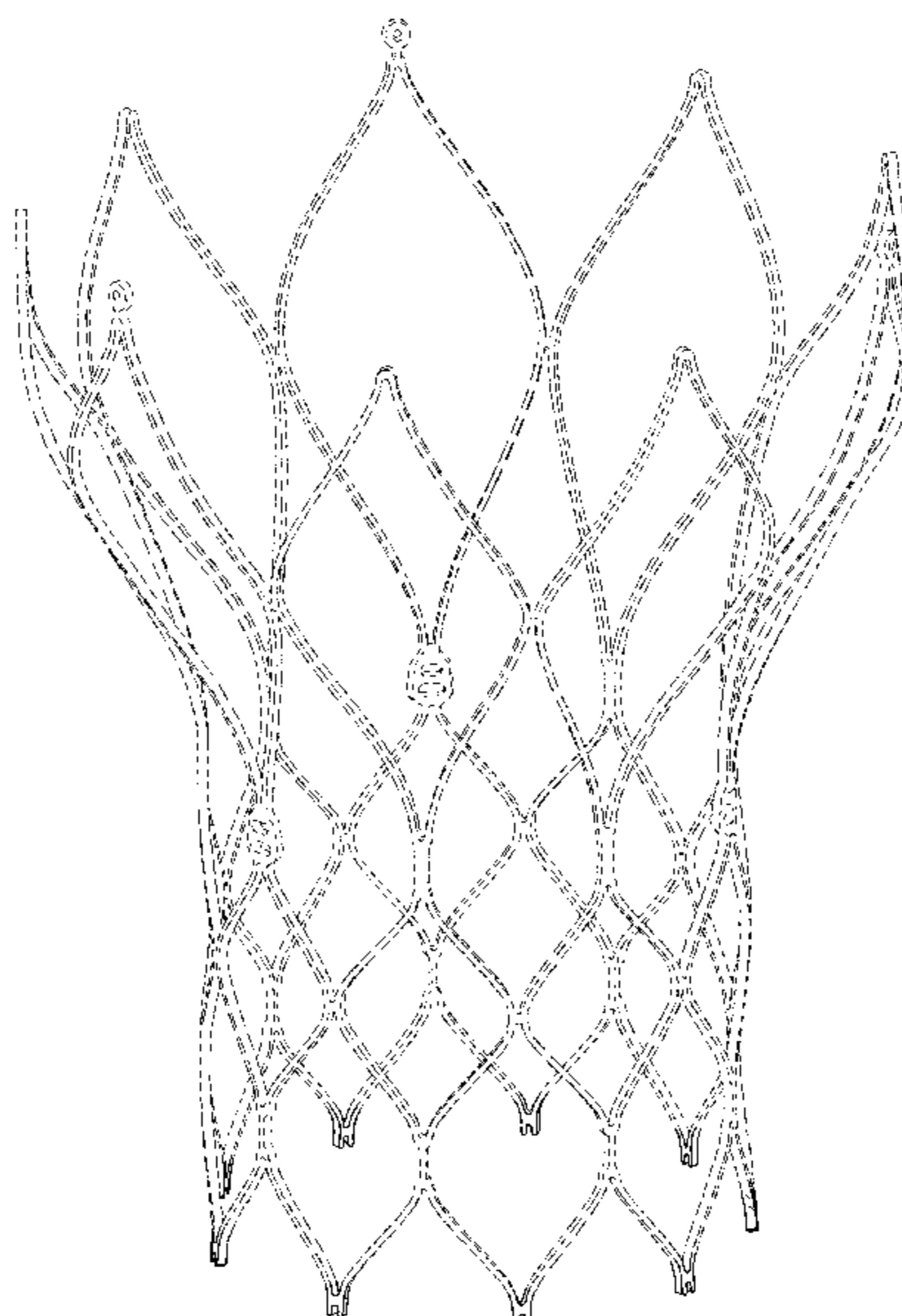
(57) **CLAIM**  
The ornamental design for forked ends, as shown and described.

**DESCRIPTION**

FIG. 1 is a top perspective view of forked ends showing my new design;  
FIG. 2 is a front side elevational view thereof;  
FIG. 2A is an enlarged perspective view of a feature thereof shown in FIG. 2;  
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; and,  
FIG. 5 is a bottom plan view thereof.  
It is noted that any broken line illustration of environmental structure in the drawing is not part of the claimed design.

**1 Claim, 5 Drawing Sheets**

- (56) **References Cited**
- U.S. PATENT DOCUMENTS**
- 3,657,744 A 4/1972 Ersek
- 4,922,905 A 5/1990 Strecker
- 5,084,064 A 1/1992 Barak et al.
- 5,100,429 A 3/1992 Sinofsky et al.
- 5,163,953 A 11/1992 Vince
- 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
- D380,266 S 6/1997 Boatman et al.
- D380,831 S 7/1997 Kavteladze et al.
- D390,957 S 2/1998 Fontaine
- 5,843,167 A 12/1998 Dwyer et al.
- 5,855,601 A 1/1999 Bessler et al.



# US D684,692 S

## U.S. PATENT DOCUMENTS

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.  
 6,623,518 B2 9/2003 Thompson et al.  
 D484,979 S 1/2004 Fontaine  
 6,716,241 B2 4/2004 Wilder et al.  
 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  
 7,326,237 B2 2/2008 DePalma et al.  
 D568,476 S 5/2008 Cottone, Jr. et al.  
 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, Jr. et al.  
 7,585,321 B2 9/2009 Cribier  
 7,641,687 B2 1/2010 Chinn et al.  
 D612,499 S 3/2010 Ondracek et al.  
 7,682,390 B2 3/2010 Seguin  
 7,731,742 B2 6/2010 Schlick et al.  
 D622,387 S 8/2010 Igaki  
 D622,388 S 8/2010 Igaki  
 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.  
 7,887,579 B2 2/2011 Mangiardi et al.  
 D635,261 S 3/2011 Rossi  
 D635,262 S 3/2011 Rossi  
 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 Styrac  
 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 Styrac  
 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  
 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.  
 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.  
 2011/0098802 A1 4/2011 Braido et al.

## FOREIGN PATENT DOCUMENTS

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. 29/375,257.  
 U.S. Appl. No. 29/375,254.  
 U.S. Appl. No. 29/375,253.  
 U.S. Appl. No. 29/375,239.  
 U.S. Appl. No. 29/375,238.  
 U.S. Appl. No. 29/375,245.

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U.S. Appl. No. 29/375,251.

U.S. Appl. No. 29/375,243.

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

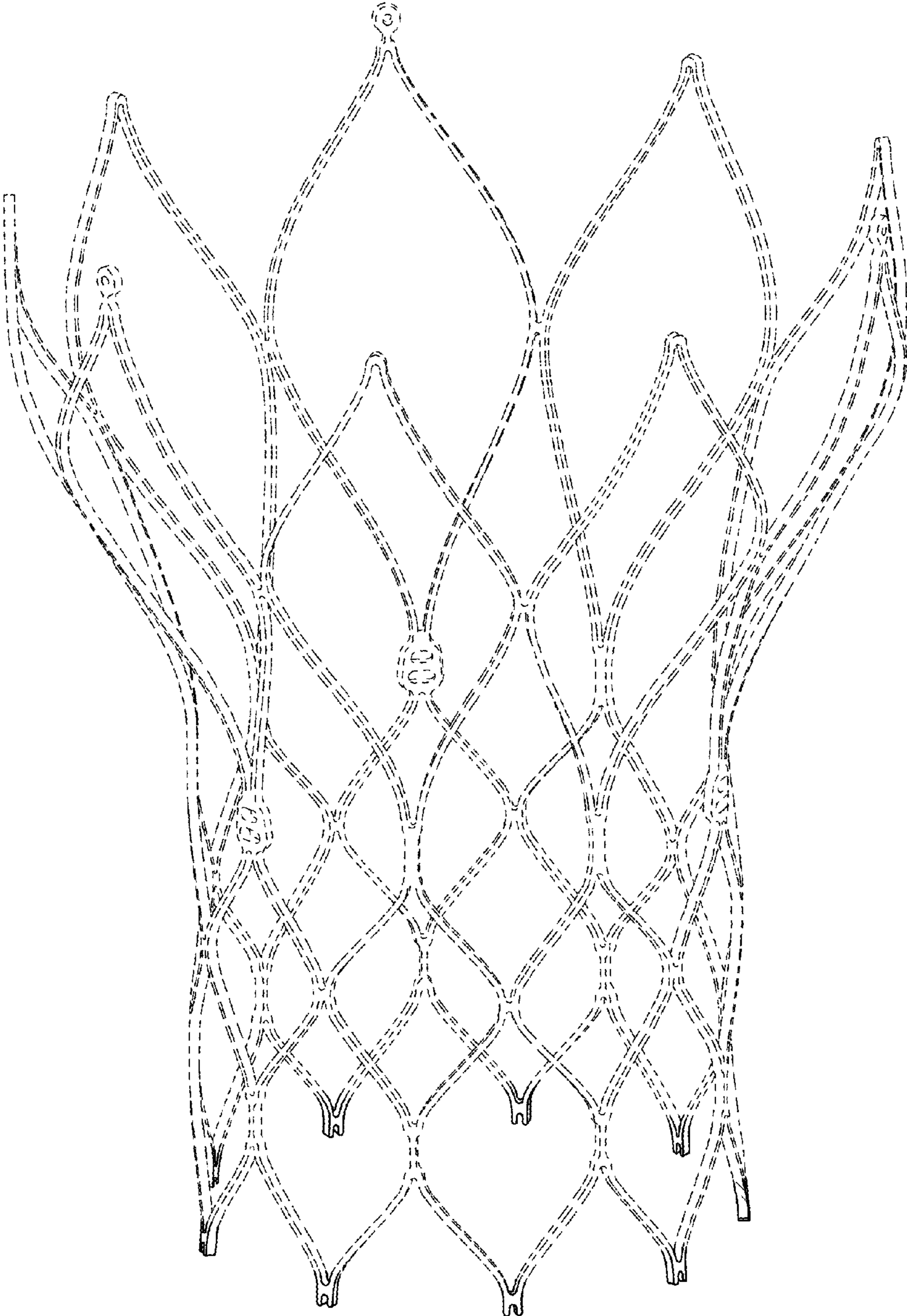


FIG. 2

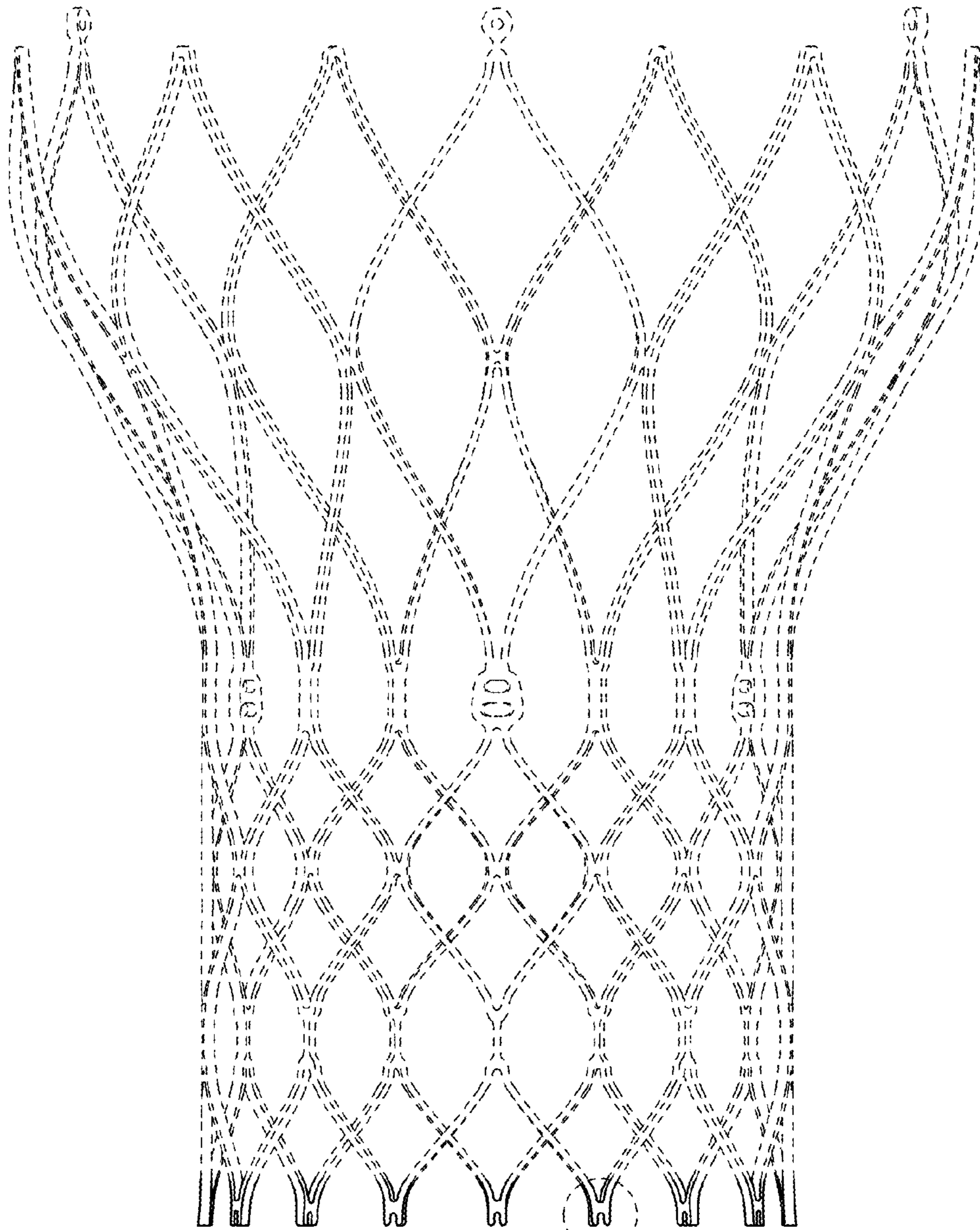


FIG. 2A

FIG. 2A

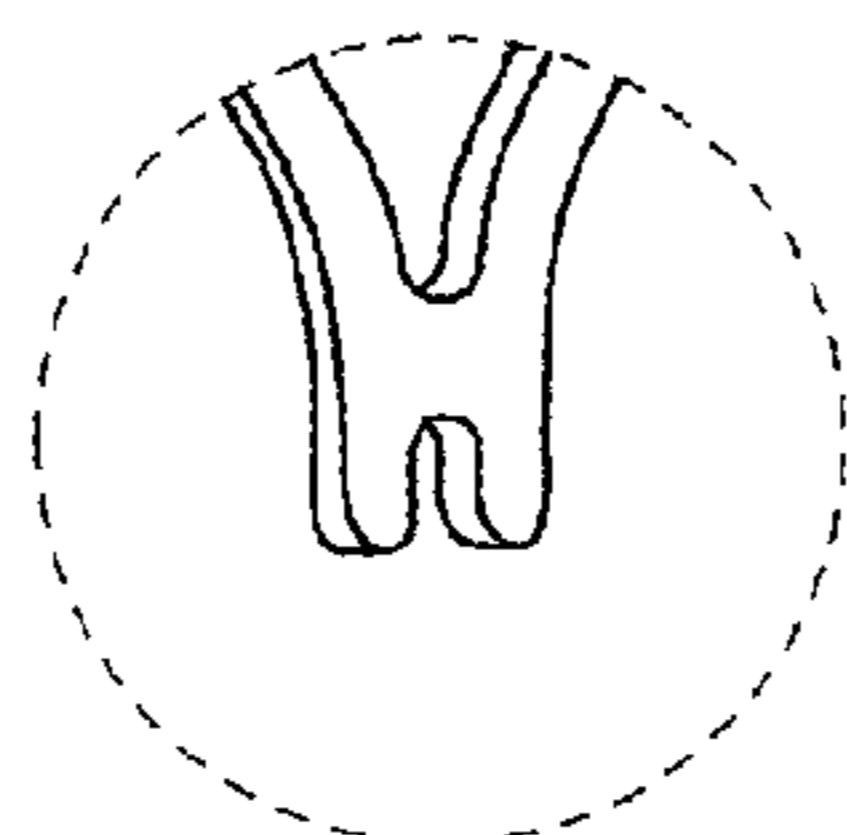


FIG. 3

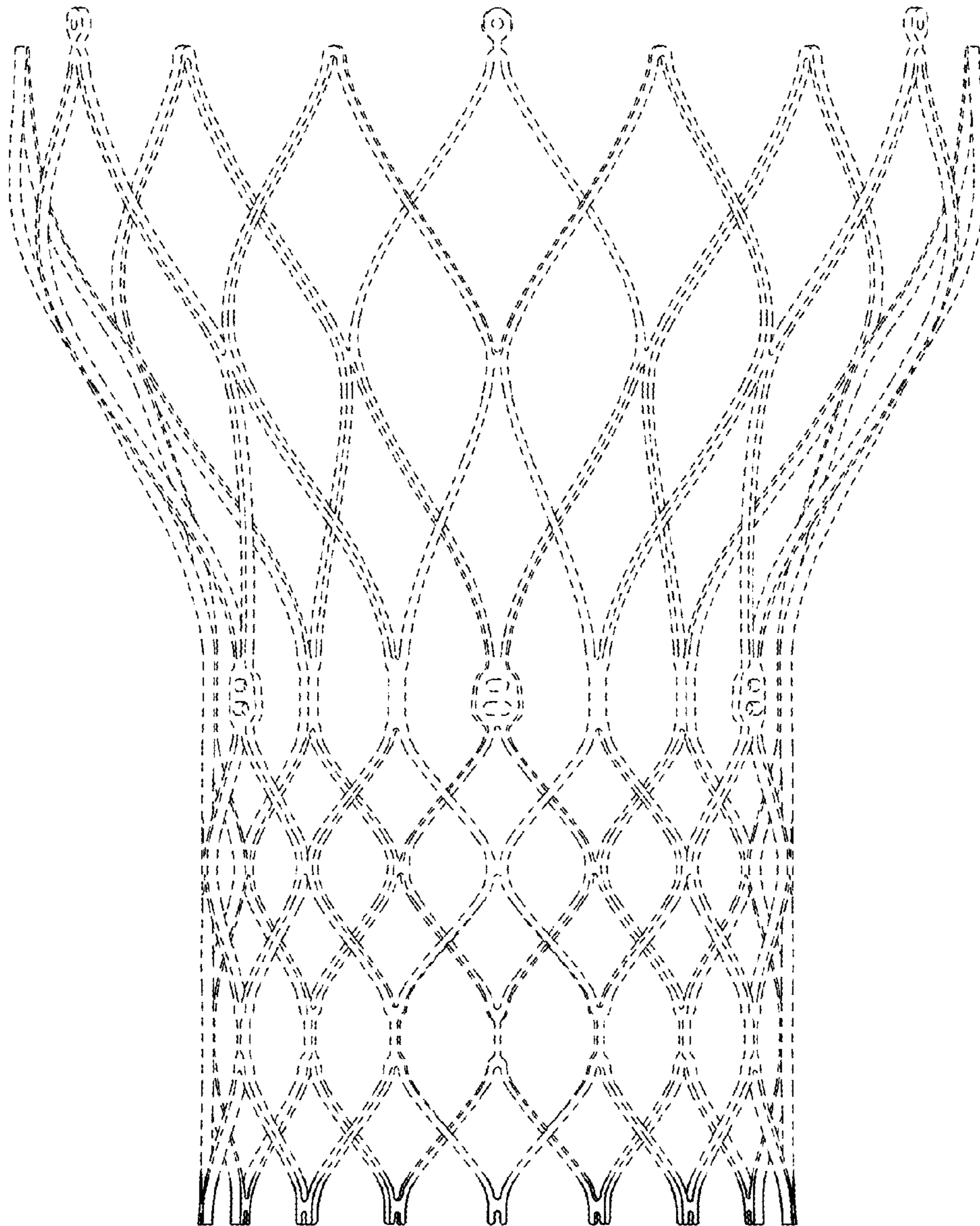


FIG. 4

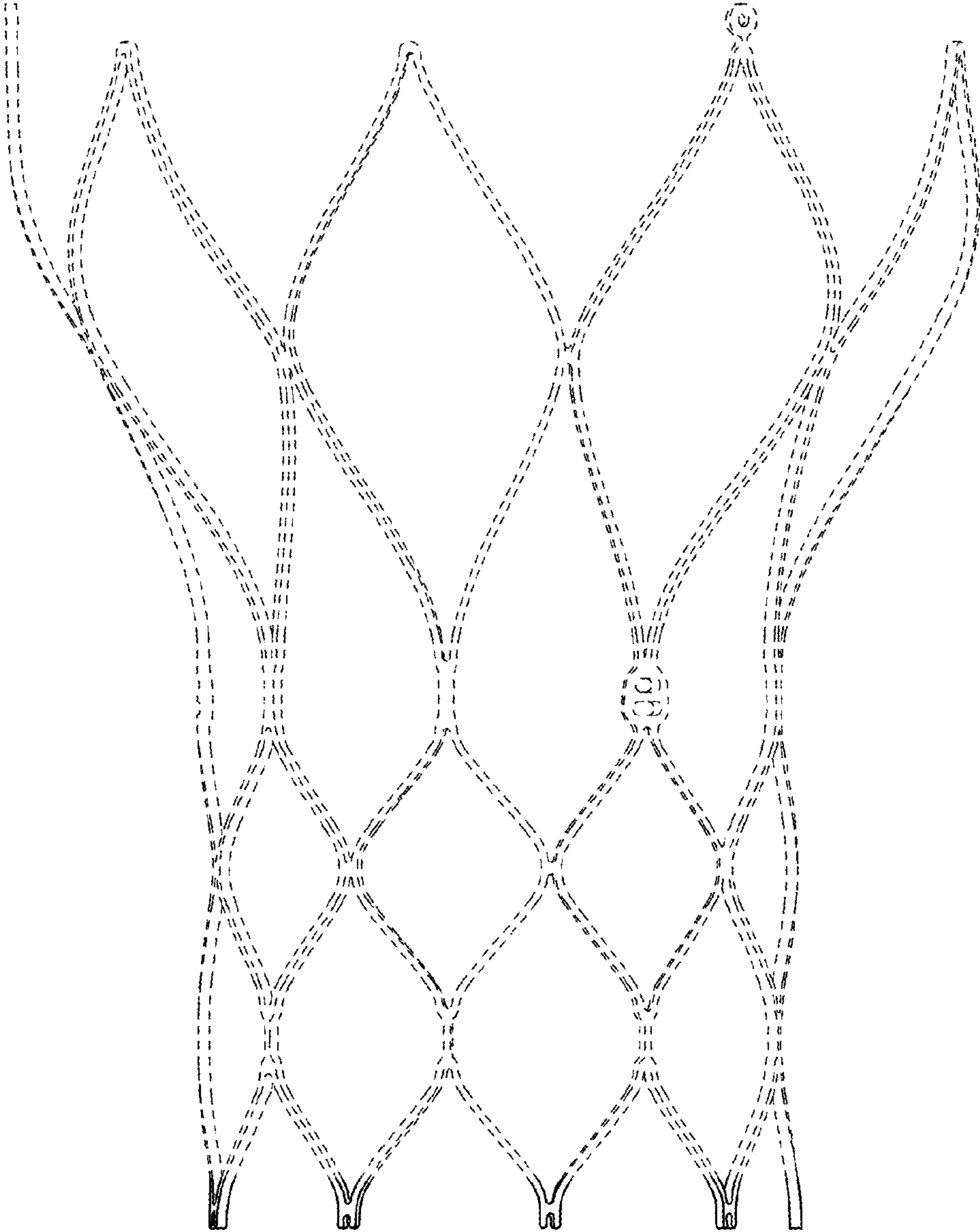


FIG. 5

