



US00D856787S

(12) **United States Design Patent** (10) **Patent No.:** **US D856,787 S**  
**Cabaj et al.** (45) **Date of Patent:** **\*\* Aug. 20, 2019**

(54) **UNDERCUT ANCHOR ATTACHMENT BARREL**

(71) Applicant: **Illinois Tool Works Inc.**, Glenview, IL (US)

(72) Inventors: **Stanley J. Cabaj**, Park Ridge, IL (US); **Tomasz Sikora**, River Grove, IL (US)

(73) Assignee: **Illinois Tool Works Inc.**, Glenview, IL (US)

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

(21) Appl. No.: **29/619,176**

(22) Filed: **Sep. 27, 2017**

(51) **LOC (12) Cl.** ..... **08-08**

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

USPC ..... **D8/385**

(58) **Field of Classification Search**

USPC ..... D8/385, 388, 397, 349, 354, 382, 399; D25/133, 136, 199

CPC ..... E04C 5/125; E04C 5/122; E04C 5/0645; E04B 1/483; E04B 1/98; E04G 21/12; F16B 37/00; F16B 2037/007; F16B 37/0807; F16B 37/14; F16B 37/145; F16B 13/0858; F16B 13/065; F16B 13/066; F16B 13/02; F16B 13/06; F16B 13/063; Y10S 411/913

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

734,326 A 7/1903 Hicks  
925,006 A 6/1909 Mason

(Continued)

**FOREIGN PATENT DOCUMENTS**

DE 30 44 453 6/1982  
EP 0 365 475 4/1990

(Continued)

**OTHER PUBLICATIONS**

“Concrete Anchor Bolts for Pedestrian Barrier” web page by Global Industrial printed Jun. 30, 2014 (2 pages).

(Continued)

*Primary Examiner* — Sandra S Snapp

*Assistant Examiner* — Ieisha N Price

(74) *Attorney, Agent, or Firm* — Neal, Gerber & Eisenberg LLP

(57) **CLAIM**

The ornamental design for an undercut anchor attachment barrel, as shown and described.

**DESCRIPTION**

FIG. 1 is a top front perspective view of an undercut anchor attachment barrel of our new design.

FIG. 2 is a bottom front perspective view of the undercut anchor attachment barrel of our new design illustrated in FIG. 1.

FIG. 3 is a front view of the undercut anchor attachment barrel of our new design illustrated in FIG. 1, the rear view being a mirror image thereof.

FIG. 4 is a right side view of the undercut anchor attachment barrel of our new design illustrated in FIG. 1, the left side view being a mirror image thereof.

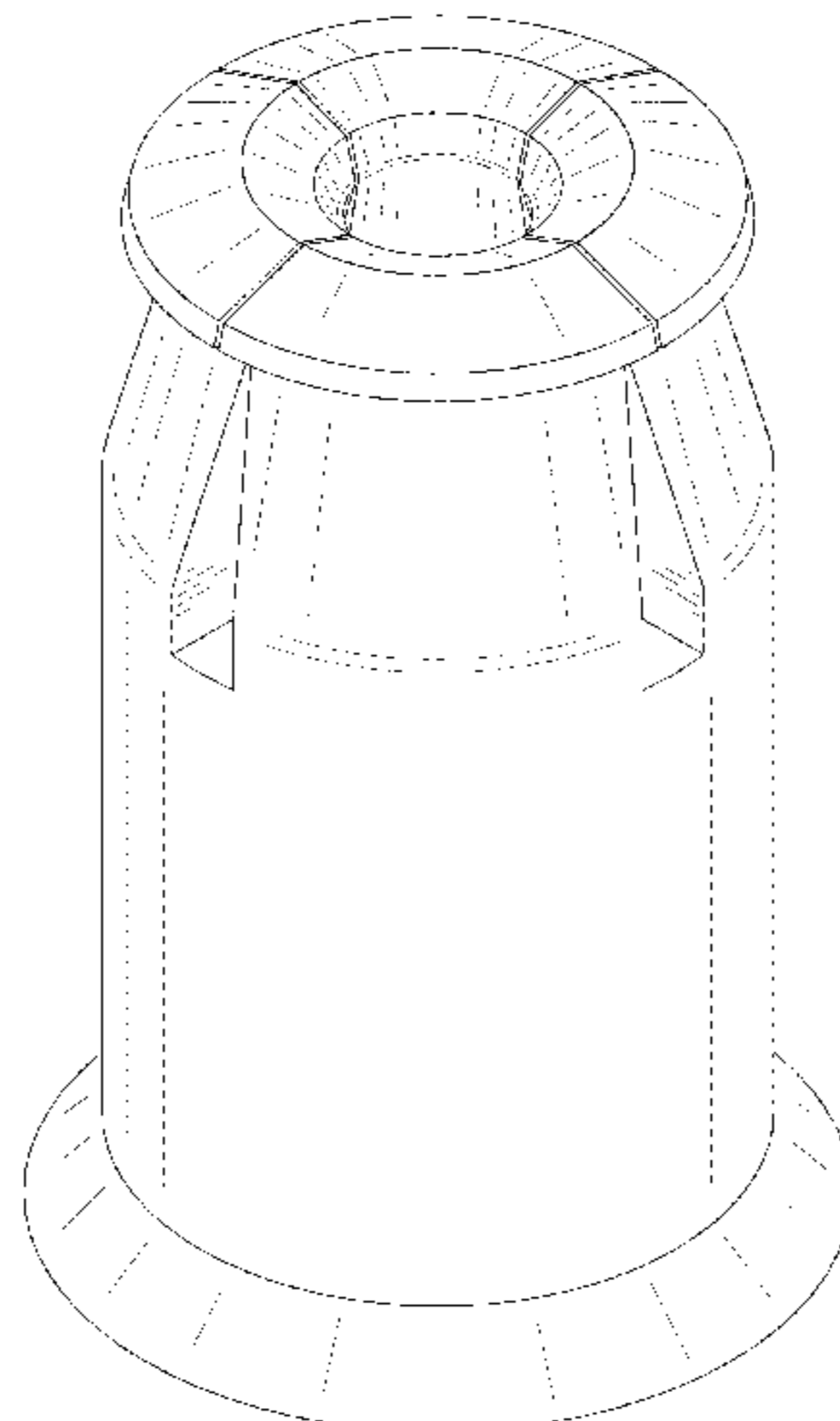
FIG. 5 is a top view of the undercut anchor attachment barrel of our new design illustrated in FIG. 1.

FIG. 6 is a bottom view of the undercut anchor attachment barrel of our new design illustrated in FIG. 1; and,

FIG. 7 is a vertical cross-sectional view of the undercut anchor attachment barrel of our new design illustrated in FIG. 1, taken along line 7-7 of FIG. 3.

The broken lines in the drawings illustrate portions of the undercut anchor attachment barrel and form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

965,746 A \* 7/1910 Richards ..... E04H 17/10  
238/370

1,000,715 A 8/1911 Caywood

1,065,747 A 6/1913 Tuck

1,115,205 A 10/1914 Johnson

1,164,322 A 12/1915 Yeatman

1,470,858 A 10/1923 Maxwell

1,755,590 A \* 4/1930 Carr ..... A44B 1/30  
411/427

2,561,433 A 7/1951 Uhle

3,217,583 A 11/1965 Fulop

3,620,120 A 11/1971 Warner

3,628,816 A \* 12/1971 Ross, Jr. .... F16B 19/1081  
403/13

4,135,432 A 1/1979 Schalge et al.

4,259,890 A 4/1981 Walsh

D262,093 S \* 12/1981 Bush ..... 52/687

4,481,702 A 11/1984 Mitchell

4,720,224 A 1/1988 Peterken

4,883,395 A 11/1989 Klavic

4,890,965 A \* 1/1990 Dietlein ..... F16B 39/286  
411/280

4,904,135 A 2/1990 Barthomeuf et al.

4,929,134 A 5/1990 Bergner

4,973,212 A \* 11/1990 Jacobs ..... F16B 5/0642  
24/297

5,183,357 A 2/1993 Palm

5,246,323 A 9/1993 Vernet et al.

5,314,278 A 5/1994 Weber

5,332,346 A 7/1994 Shinjo

5,419,664 A 5/1995 Hengesbach

5,476,350 A \* 12/1995 Kurtz ..... F16B 19/1081  
411/508

5,580,204 A \* 12/1996 Hultman ..... F16B 5/065  
24/297

5,613,818 A \* 3/1997 McCorkle ..... F16B 5/0642  
411/509

5,690,455 A 11/1997 Fischer et al.

5,746,557 A 5/1998 Kaibach

5,816,759 A 10/1998 Ernst et al.

5,911,550 A 6/1999 Popp et al.

6,270,303 B1 8/2001 Gauthier et al.

6,325,580 B1 12/2001 Diamond

6,364,134 B1 \* 4/2002 Christy ..... A47F 5/0823  
211/59.1

6,524,046 B2 2/2003 Hsu

6,827,535 B2 12/2004 Fuchs

6,829,871 B1 12/2004 McSherry et al.

6,942,439 B2 9/2005 Rouger

D557,409 S \* 12/2007 Veliss ..... D24/110.1

7,357,613 B2 4/2008 Houck et al.

7,587,873 B2 9/2009 McSherry et al.

7,713,010 B2 5/2010 Cheng

7,744,320 B2 6/2010 Kobetsky et al.

7,811,037 B2 10/2010 Kobetsky et al.

8,251,625 B2 8/2012 Zimmer et al.

8,287,218 B2 10/2012 Zimmer et al.

8,302,276 B2 11/2012 Kobetsky et al.

8,444,355 B2 5/2013 Gaudron et al.

8,491,244 B2 7/2013 Kobetsky et al.

8,678,730 B2 3/2014 Gaudron et al.

8,974,163 B2 3/2015 Ricketts

D752,963 S \* 4/2016 Kaupp ..... D8/385

9,512,868 B2 12/2016 Stempniewski et al.

9,541,116 B2 1/2017 Cabaj et al.

9,970,465 B2 5/2018 Gstach et al.

9,970,467 B2 5/2018 Dijkhuis et al.

2002/0076298 A1 6/2002 Gauthier

2004/0096288 A1 5/2004 Haug

2010/0272536 A1 10/2010 Kaplan et al.

2011/0081217 A1 4/2011 Wissling et al.

2012/0128444 A1 5/2012 Podesser et al.

2012/0263553 A1 10/2012 Greenfield

2014/0010613 A1 1/2014 Gaudron et al.

2014/0072384 A1 3/2014 Wissling

2015/0275950 A1 10/2015 Hongthong et al.

2017/0114818 A1 4/2017 Cabaj et al.

2017/0138384 A1 5/2017 Goettlich

2017/0167139 A1 6/2017 Pregartner et al.

2017/0241128 A1 8/2017 Murdoch

2017/0241458 A1 8/2017 Murdoch

FOREIGN PATENT DOCUMENTS

FR 2 050 657 4/1971

FR 2 106 884 5/1972

GB 2 254 392 10/1992

WO WO 2016/207404 12/2016

OTHER PUBLICATIONS

“Dock Bumper Installation Bolt” web page by Global Industrial printed Jun. 30, 2014 (2 pages).

“Trubolt+ Seismic Wedge” brochure by Red Head Concrete Anchoring dated Feb. 12 (3 pages).

“Wedge Anchors” web page by Concrete Fastening Systems printed Jun. 30, 2014 (4 pages).

Drop-In Anchors, retrieved from the Internet at <https://www.confast.com/products/drop-in-anchor.aspx>, on Oct. 10, 2017 (5 pages).

Machine Screw Anchors, retrieved from the Internet at <https://www.confast.fast.com/products/machinescrew-anchor.aspx>, on Oct. 10, 2017 (3 pages).

Multi-Set II® Drop-In Anchors—RedHead®, retrieved from the Internet at <http://www.itwredhead.ca/product/12/multi-set-ii-drop-in-anchors>, on Oct. 10, 2017 (5 pages).

Filing Receipt for U.S. Appl. No. 16/109,030, dated Sep. 10, 2018 (3 pages).

International Search Report and Written Opinion for International Application No. PCT/US2018/047663, dated Oct. 11, 2018 (13 pages).

\* cited by examiner

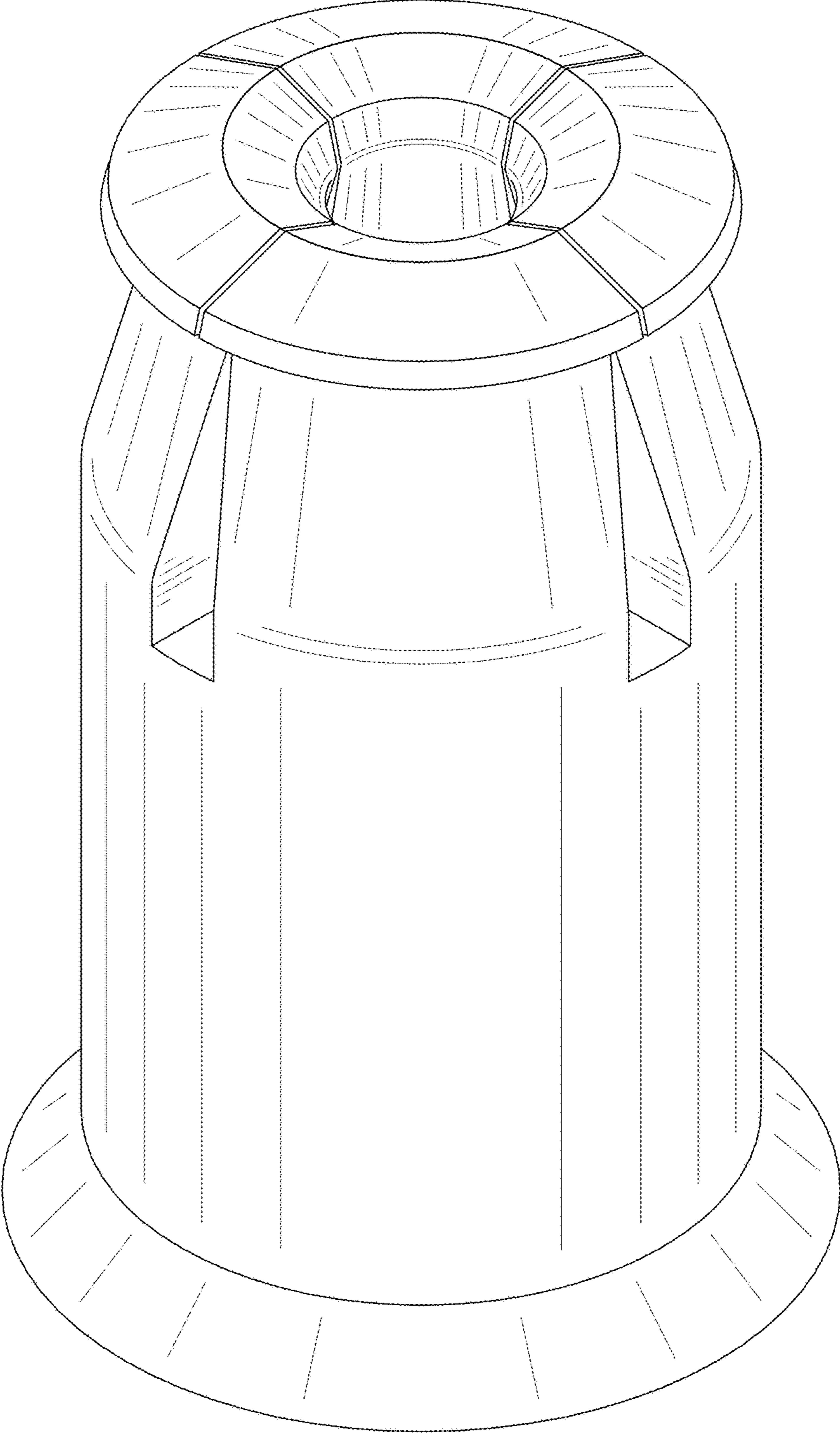


FIG. 1



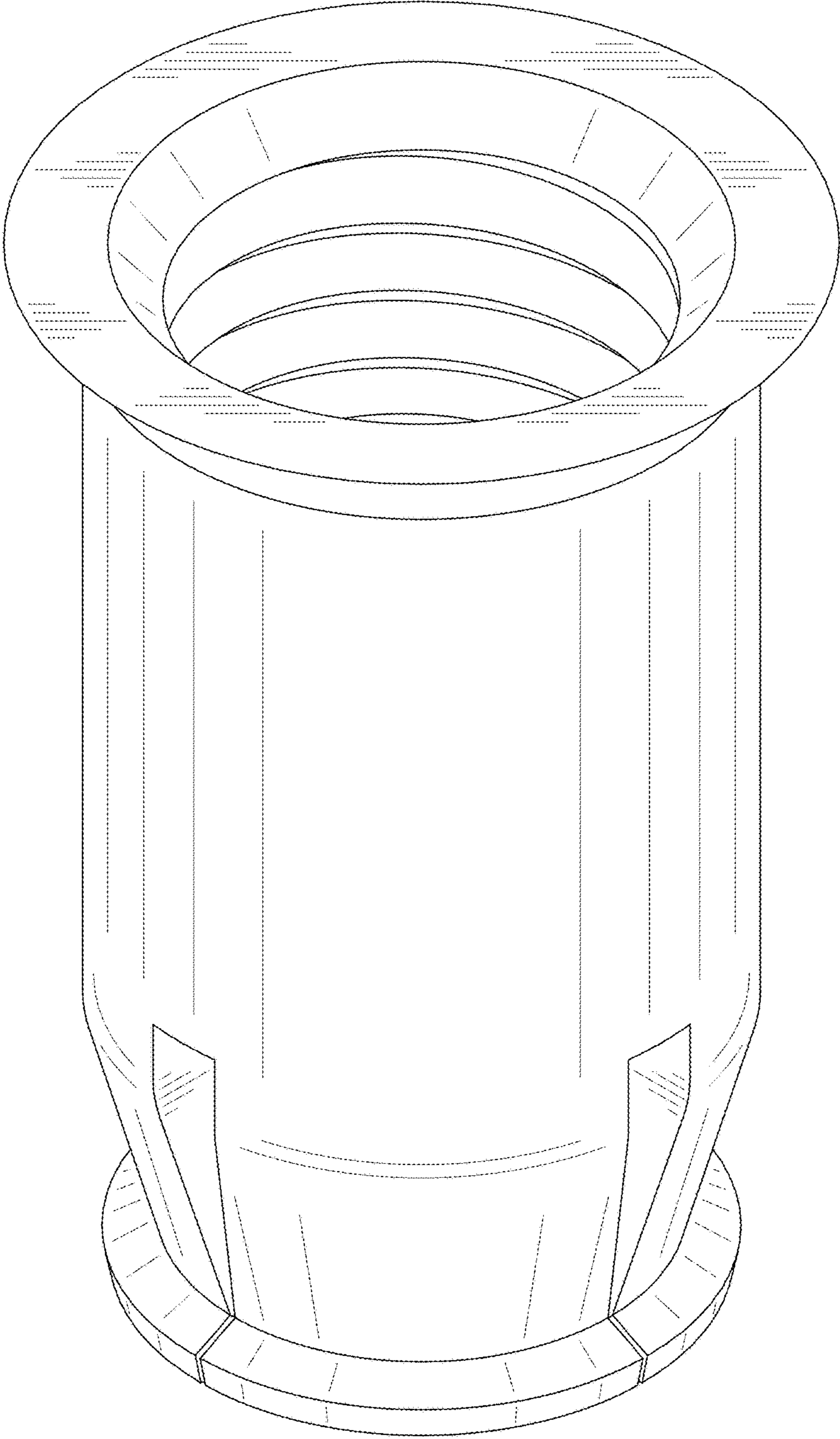


FIG. 2

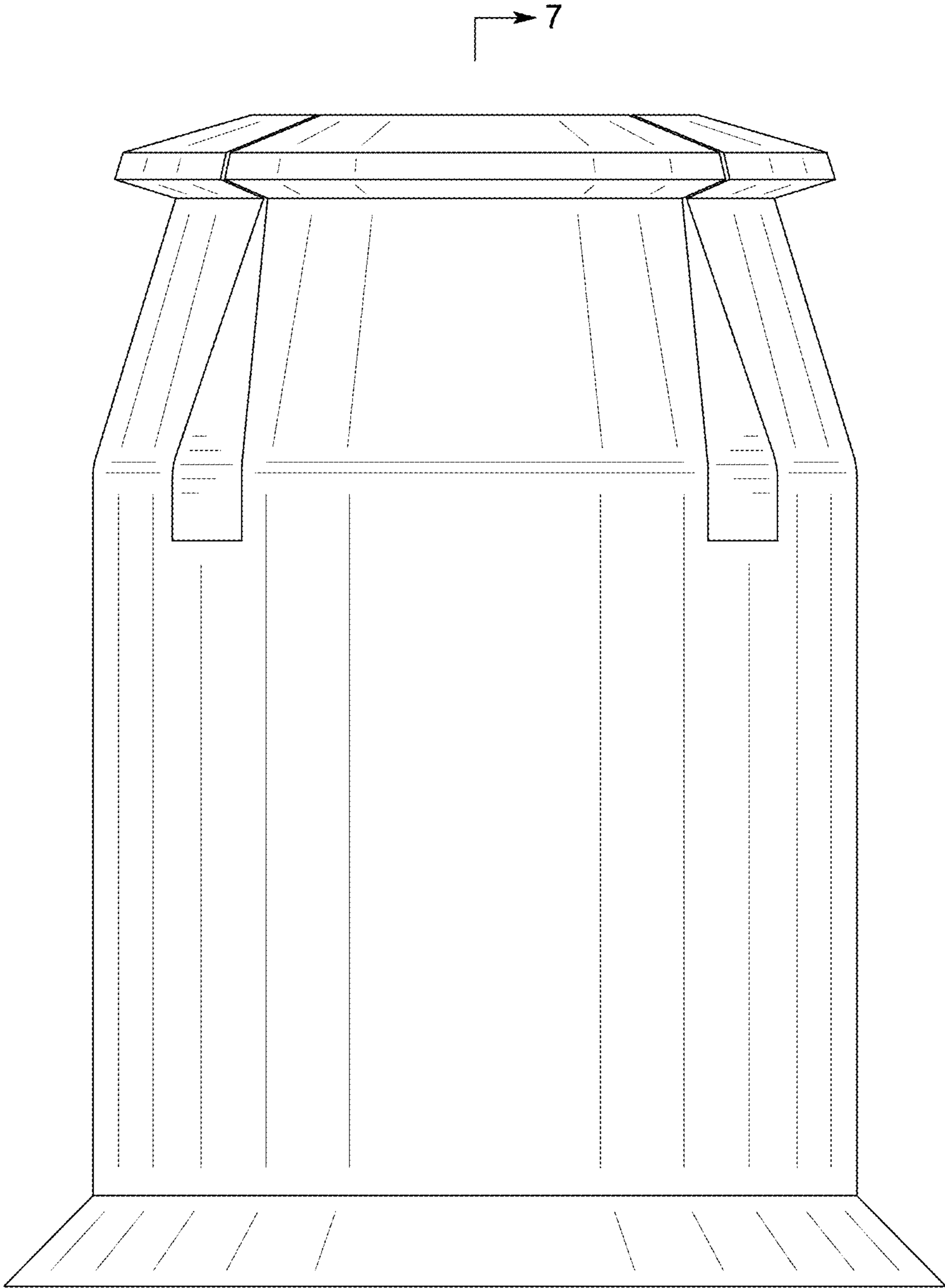


FIG. 3

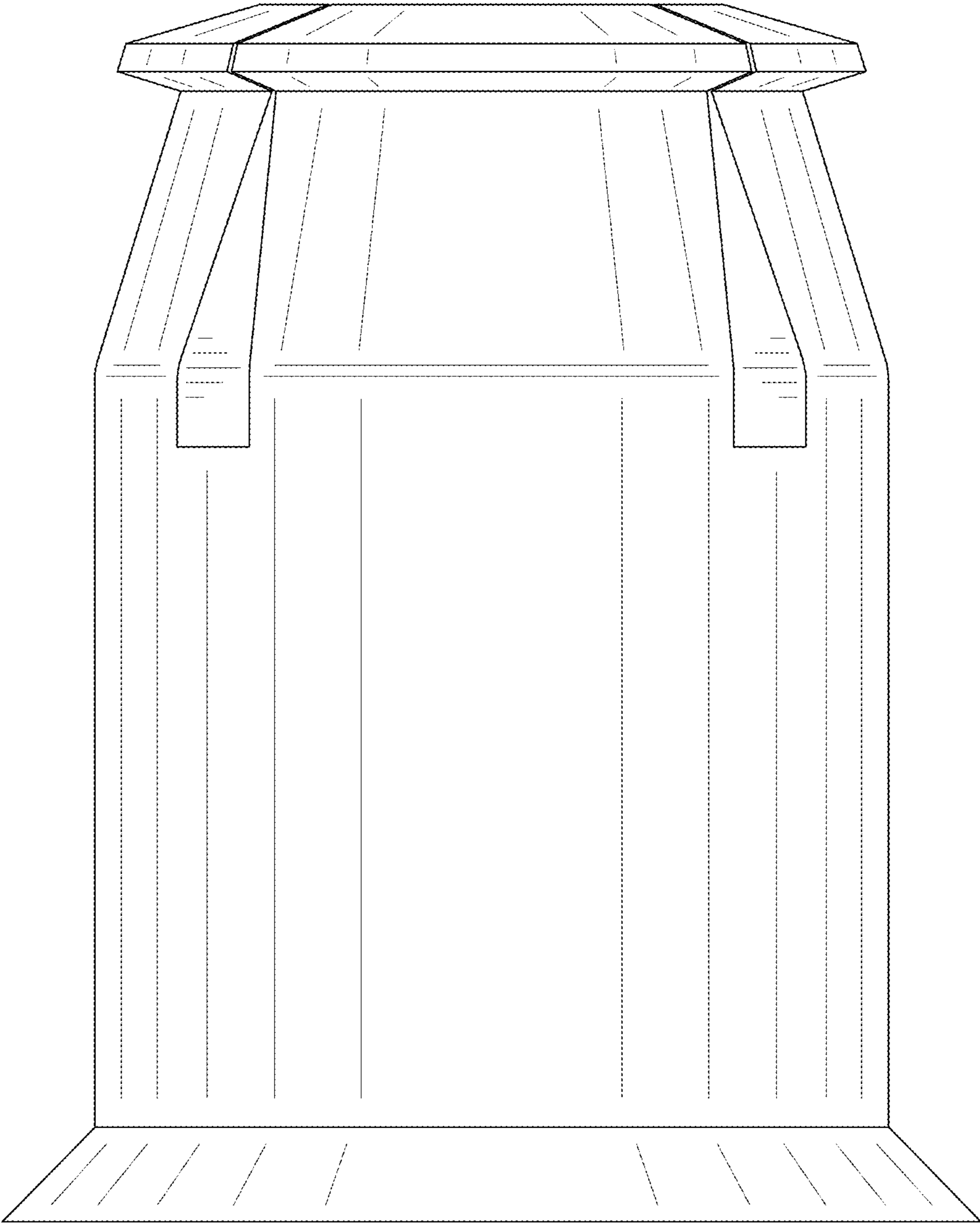


FIG. 4

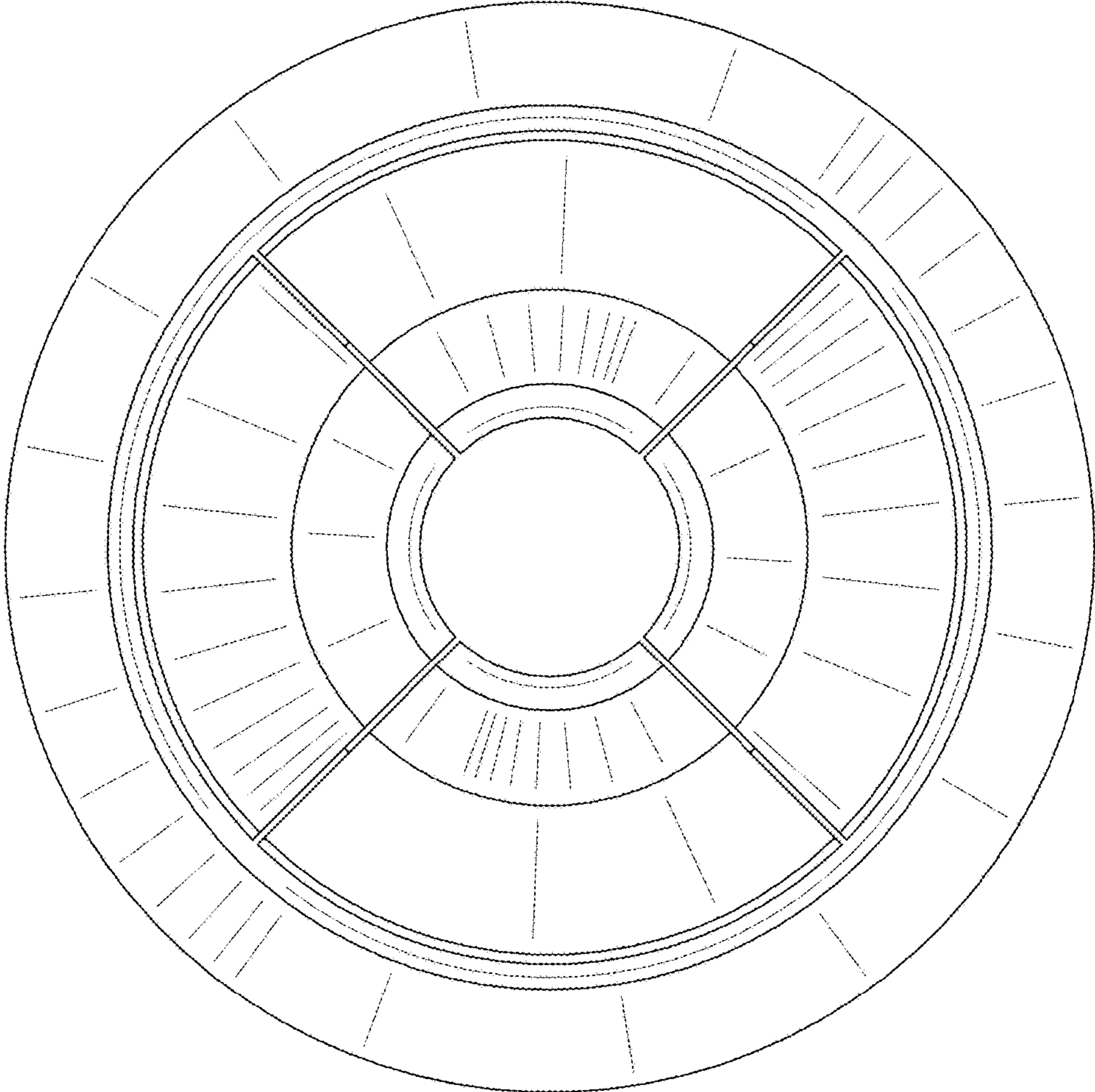


FIG. 5

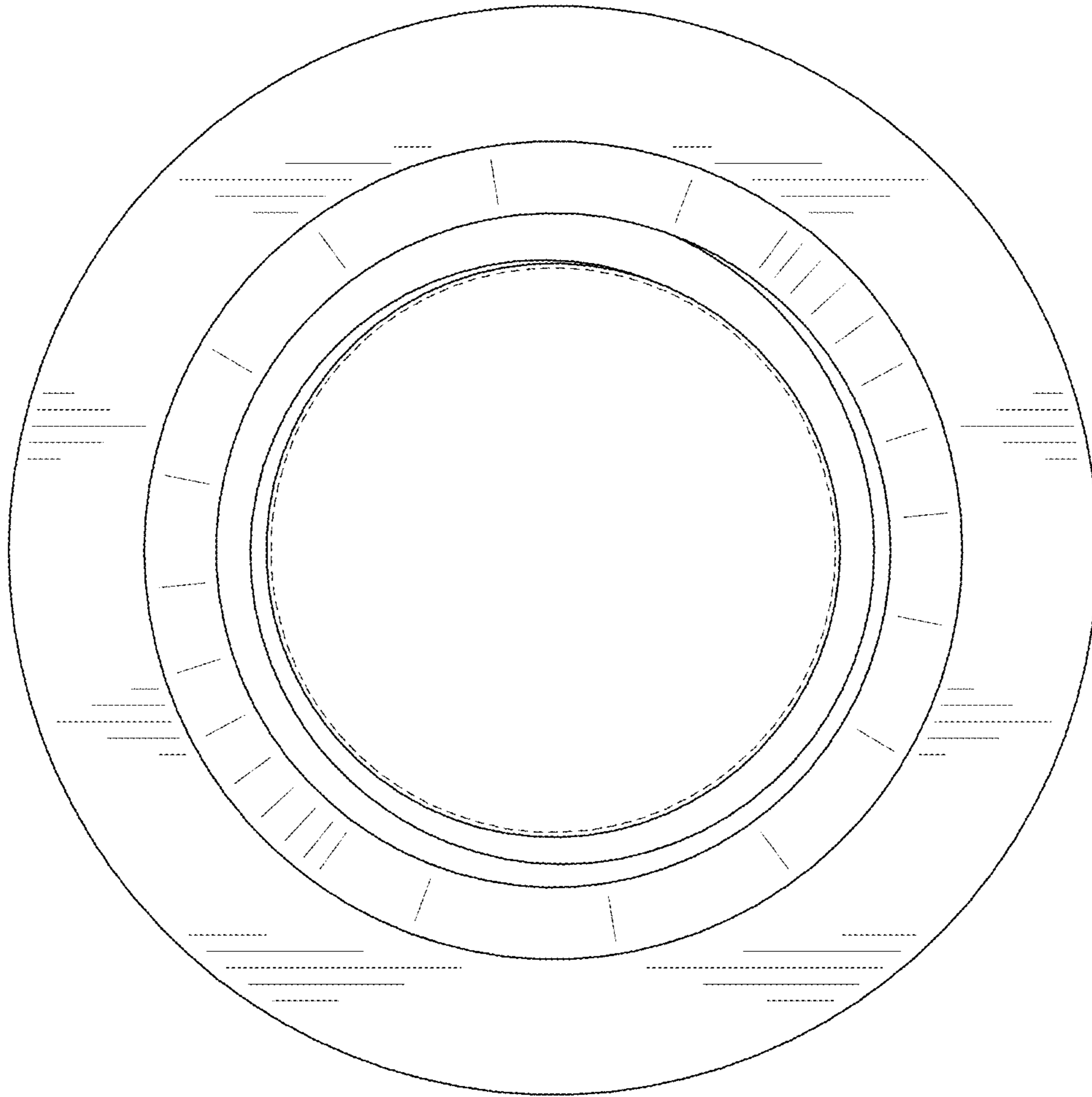


FIG. 6



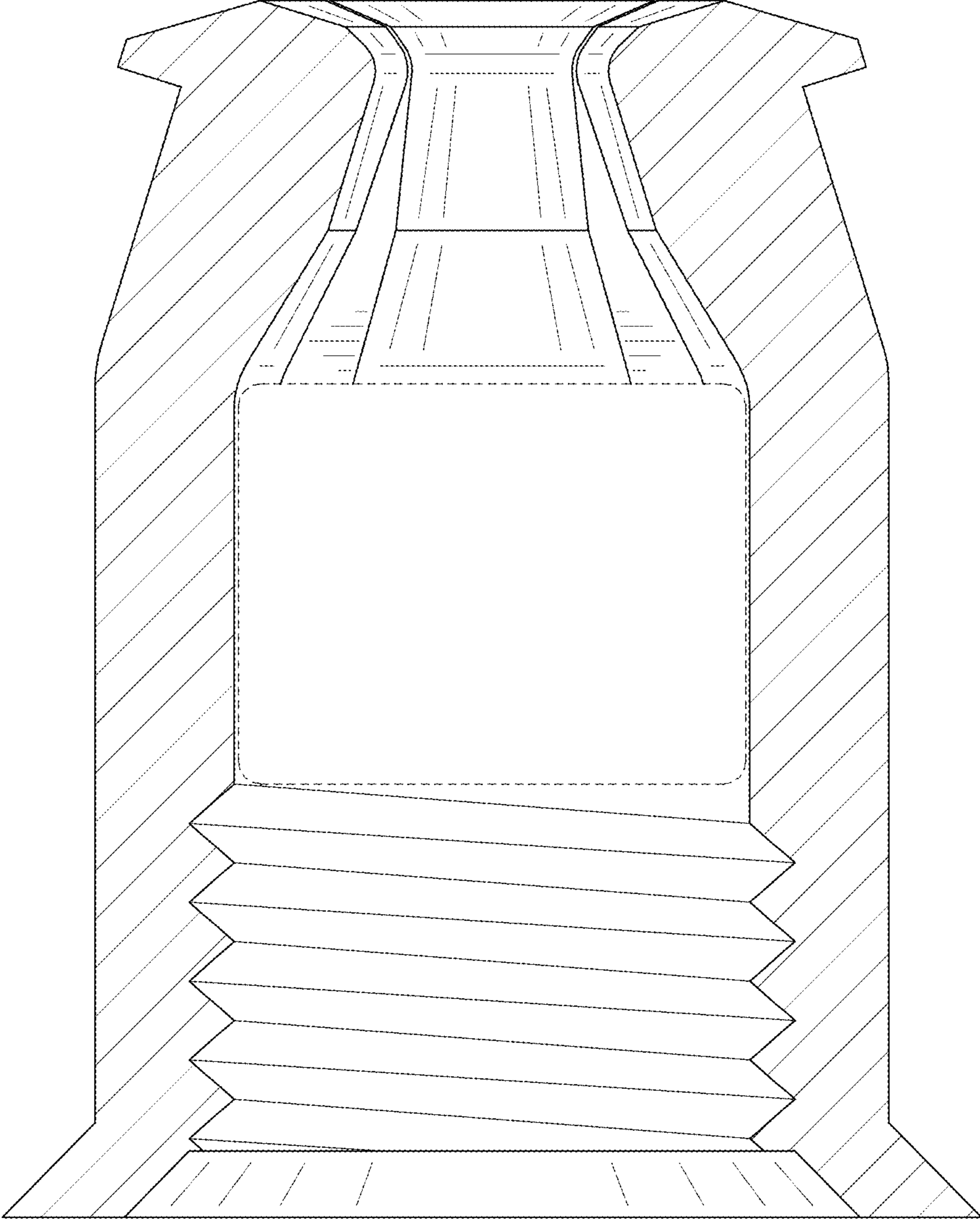


FIG. 7