



US00D930834S

(12) **United States Design Patent** (10) **Patent No.:** **US D930,834 S**
Nutter (45) **Date of Patent:** **** Sep. 14, 2021**

(54) **ANATOMIC GREAT TOE JOINT**
(71) Applicant: **David Scott Nutter**, Dayton, MD (US)
(72) Inventor: **David Scott Nutter**, Dayton, MD (US)
(**) Term: **15 Years**
(21) Appl. No.: **29/716,475**

(22) Filed: **Dec. 10, 2019**
(51) **LOC (13) Cl.** **24-03**
(52) **U.S. Cl.**
USPC **D24/155**
(58) **Field of Classification Search**
USPC D2/896, 902, 905, 906, 907, 908, 919,
D2/920, 921, 922, 923, 946, 947, 948,
(Continued)

(56) **References Cited**
U.S. PATENT DOCUMENTS
D136,217 S * 8/1943 Lyons D8/368
4,367,562 A * 1/1983 Gauthier A61F 2/4241
623/23.41
(Continued)

FOREIGN PATENT DOCUMENTS
WO 2015089118 6/2015

OTHER PUBLICATIONS
Ascension Orthopedics, "Transforming Hand Surgery", first available 2009. (<https://lmtsurgical.com/wp-content/uploads/2019/01/MCP-PyroCarbon-Brochure.pdf>) (Year: 2009).*
(Continued)

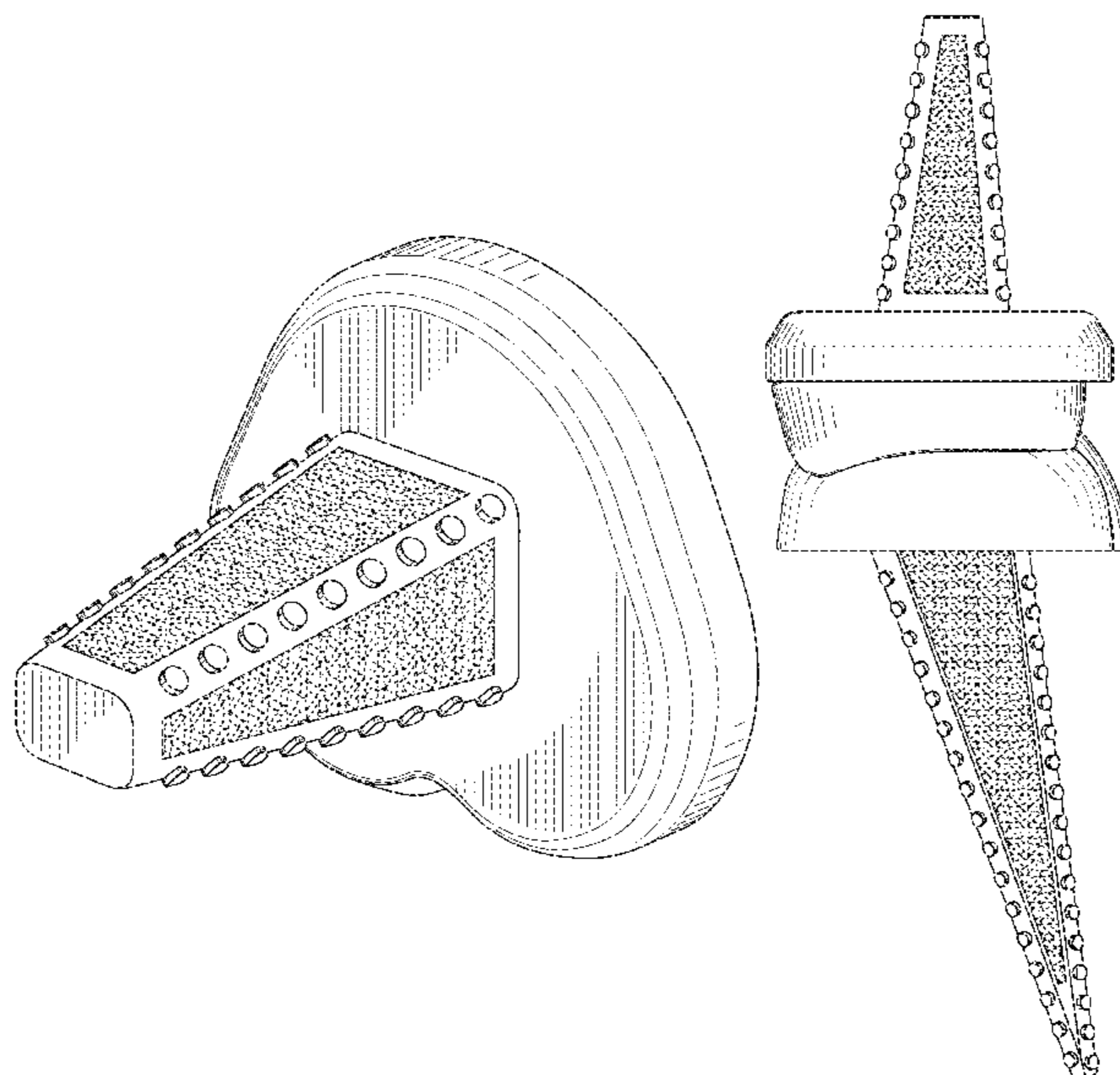
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Assistant Examiner — Justin A Johnson

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(57) **CLAIM**
The ornamental design for a anatomic great toe joint, as shown and described.

DESCRIPTION
FIG. 1 is a rear perspective view of a first component an anatomic great toe joint according to the new design; FIG. 2 is a front perspective view thereof; FIG. 3 is a top view thereof; FIG. 4 is a bottom view thereof; FIG. 5 is a front view thereof; FIG. 6 is a rear view thereof; FIG. 7 is a side view thereof; FIG. 8 is a rear perspective view of a second component of the anatomic great toe joint according to the new design; FIG. 9 is a front perspective view of FIG. 8 thereof; FIG. 10 is a top view of FIG. 8 thereof; FIG. 11 is a bottom view of FIG. 8 thereof; FIG. 12 is a front view of FIG. 8 thereof; FIG. 13 is a rear view of FIG. 8 thereof; FIG. 14 is a side view of FIG. 8 thereof; FIG. 15 is a front perspective view of a third component of the anatomic great toe joint according to the new design; FIG. 16 is a rear perspective view of FIG. 15 thereof; FIG. 17 is a front view of FIG. 15 thereof; FIG. 18 is a rear view of FIG. 15 thereof; FIG. 19 is a side view of FIG. 15 thereof; FIG. 20 is a bottom view of FIG. 15 thereof; FIG. 21 is a top view of FIG. 15 thereof; and, FIG. 22 is a perspective view of the anatomic great toe joint as assembled according to the new design. The broken lines shown in FIGS. 1-22 are directed to environment and are for illustrative purposes only; the broken lines form no part of the claimed design. In addition, the unshaded surfaces beneath the broken lines that directly adjoin the claimed solid line edge form no part of the claimed design.

1 Claim, 22 Drawing Sheets



(58) **Field of Classification Search**

USPC D2/949, 950, 951, 952, 953, 954, 960,
 D2/968, 980, 983; D8/349, 382, 387, 47,
 D8/388, 391, 392, 393, 394, 395, 396,
 D8/397, 398, 399, 721; D24/107, 133,
 D24/141, 143, 155, 171, 188, 190, 192,
 D24/213, 215
 CPC . A61B 17/151; A61B 17/154; A61B 17/8095;
 A61B 17/7058; A61B 17/58; A61F 2/00;
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 2/0063; A61F 2/0077; A61F 2002/0081;
 A61F 2002/0086; A61F 2002/009; A61F
 2002/0091; A61F 2/28; A61F 2/30; A61F
 2002/30108; A61F 2002/30112; A61F
 2002/30125; A61F 2002/30151; A61F
 2002/30153; A61F 2002/30154; A61F
 2002/30158; A61F 2002/30199; A61F
 2002/30224; A61F 2002/30263; A61F
 2002/30266; A61F 2002/30281; A61F
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 2002/4415; A61F 2/442; A61F 2/4425;
 A61F 2002/443; A61F 2/446; A61F
 2/447; A61F 2/60; A61F 2002/6614;
 A61F 2002/6657; A61F 2002/665; A61F
 2/78; A61L 27/00; A61L 2430/38; G06T
 2207/30052

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D268,807 S * 5/1983 Reynolds D8/47
 D286,909 S * 11/1986 Black 623/10
 4,936,862 A 6/1990 Walker et al.
 D366,113 S * 1/1996 Morgan D11/222
 6,932,842 B1 4/2005 Litschko et al.
 D518,606 S * 4/2006 Cross A61F 2/12
 D21/718
 7,618,451 B2 11/2009 Berez et al.
 D610,686 S * 2/2010 Klawitter A61F 2/4003
 D24/155
 8,086,336 B2 12/2011 Christensen
 8,246,680 B2 8/2012 Betz et al.
 8,353,965 B2 1/2013 Seitz, Jr.

8,545,569 B2 10/2013 Fitz et al.
 8,623,026 B2 1/2014 Wong et al.
 8,641,716 B2 2/2014 Fitz et al.
 8,682,052 B2 3/2014 Fitz et al.
 8,735,773 B2 5/2014 Lang
 8,775,133 B2 7/2014 Schroeder
 9,173,665 B2 11/2015 Couture
 9,402,726 B2 8/2016 Linderman et al.
 D819,819 S * 6/2018 Nutter A61F 2/4241
 D24/155
 2003/0216813 A1 * 11/2003 Ball A61F 2/4261
 623/21.12
 2004/0225367 A1 * 11/2004 Glien A61F 2/4003
 623/19.14
 2005/0043835 A1 2/2005 Christensen
 2005/0267584 A1 12/2005 Burdulis, Jr. et al.
 2006/0052725 A1 3/2006 Santilli
 2007/0100462 A1 5/2007 Lang et al.
 2007/0022698 A1 10/2007 Park et al.
 2009/0118829 A1 * 5/2009 Powell A61F 2/12
 623/8
 2009/0222103 A1 9/2009 Fitz et al.
 2009/0276045 A1 11/2009 Lang
 2011/0144760 A1 6/2011 Wong et al.
 2012/0066892 A1 3/2012 Lang et al.
 2013/0110470 A1 5/2013 Vanasse et al.
 2013/0317510 A1 11/2013 Couture et al.
 2014/0188240 A1 7/2014 Lang et al.
 2014/0208578 A1 7/2014 Linderman et al.
 2014/0371897 A1 12/2014 Lin et al.
 2015/0250575 A1 * 9/2015 Soltz A61L 31/10
 606/3
 2015/0343708 A1 12/2015 Gerstle et al.
 2015/0343709 A1 12/2015 Gerstle et al.
 2016/0296289 A1 10/2016 Choudhury et al.
 2017/0360578 A1 12/2017 Shin et al.
 2018/0153697 A1 * 6/2018 Vitale A61F 2/4606

OTHER PUBLICATIONS

Integra, "Silicone Toe System", first available 2017. (<https://www.integralife.com/file/general/1524246185.pdf>) (Year: 2017).
 Medical Expo, "Toe Implant", first accessed Dec. 7, 2020. (<https://www.medicaexpo.com/prod/aleda/product-119767-940267.html>) (Year: 2020).
 Gust.com, "Anatomic Implants", first accessed Dec. 7, 2020. (<https://gust.com/companies/anatomic-implants-llc>) (Year: 2020).
 International Search Report and Written Opinion, International Application No. PCT/US2018/14432, dated May 15, 2018.

* cited by examiner

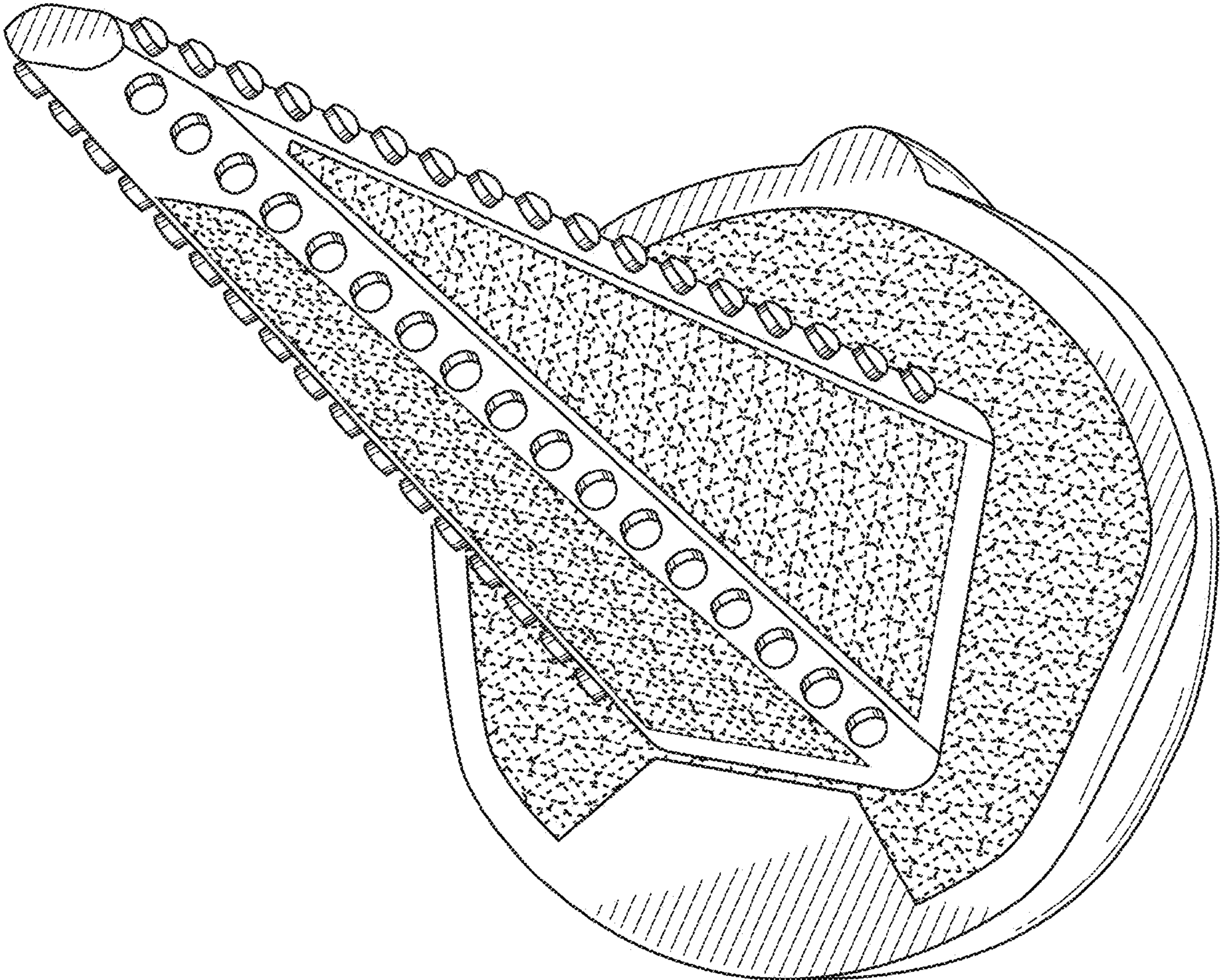


FIG. 1

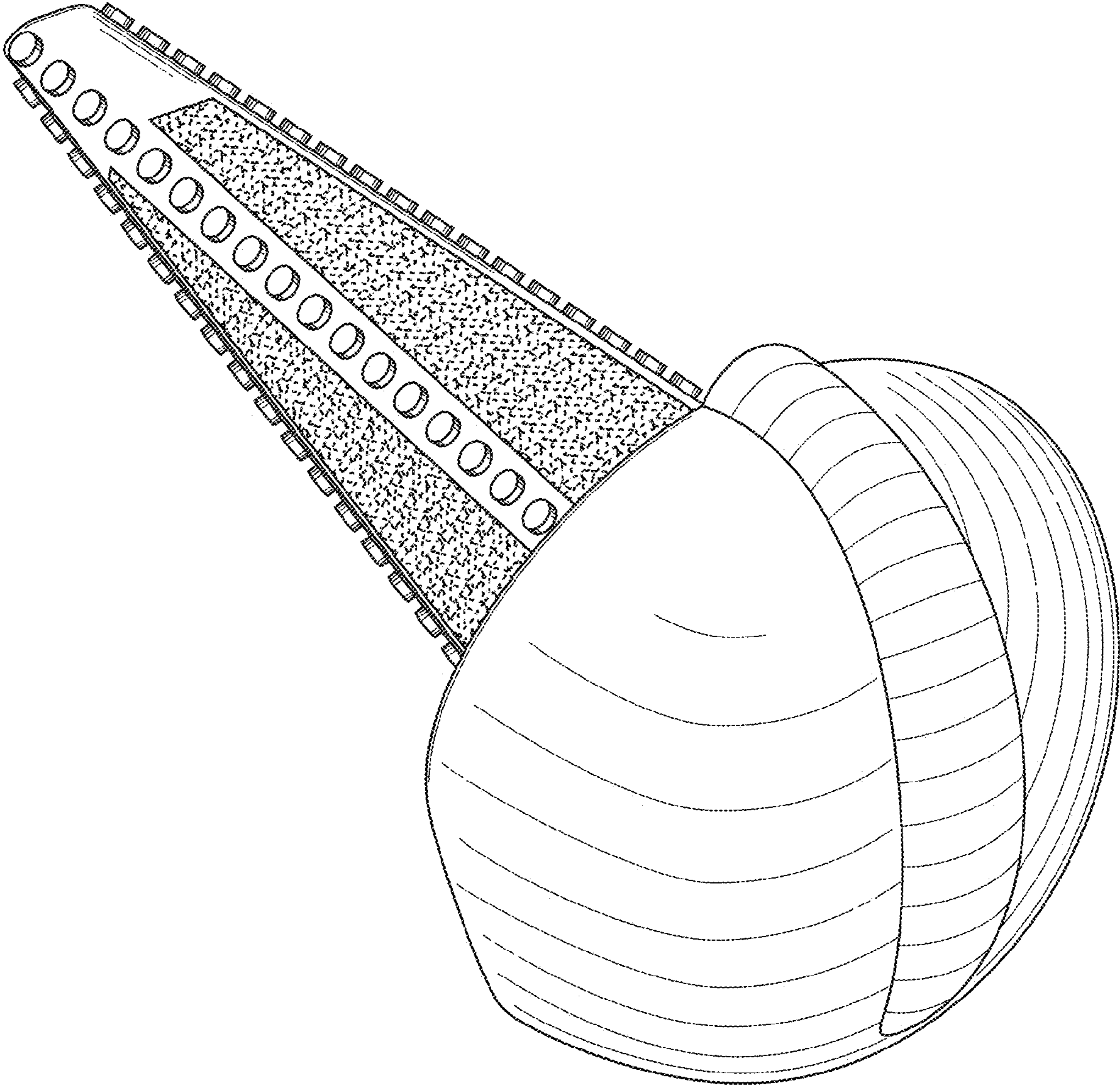


FIG. 2

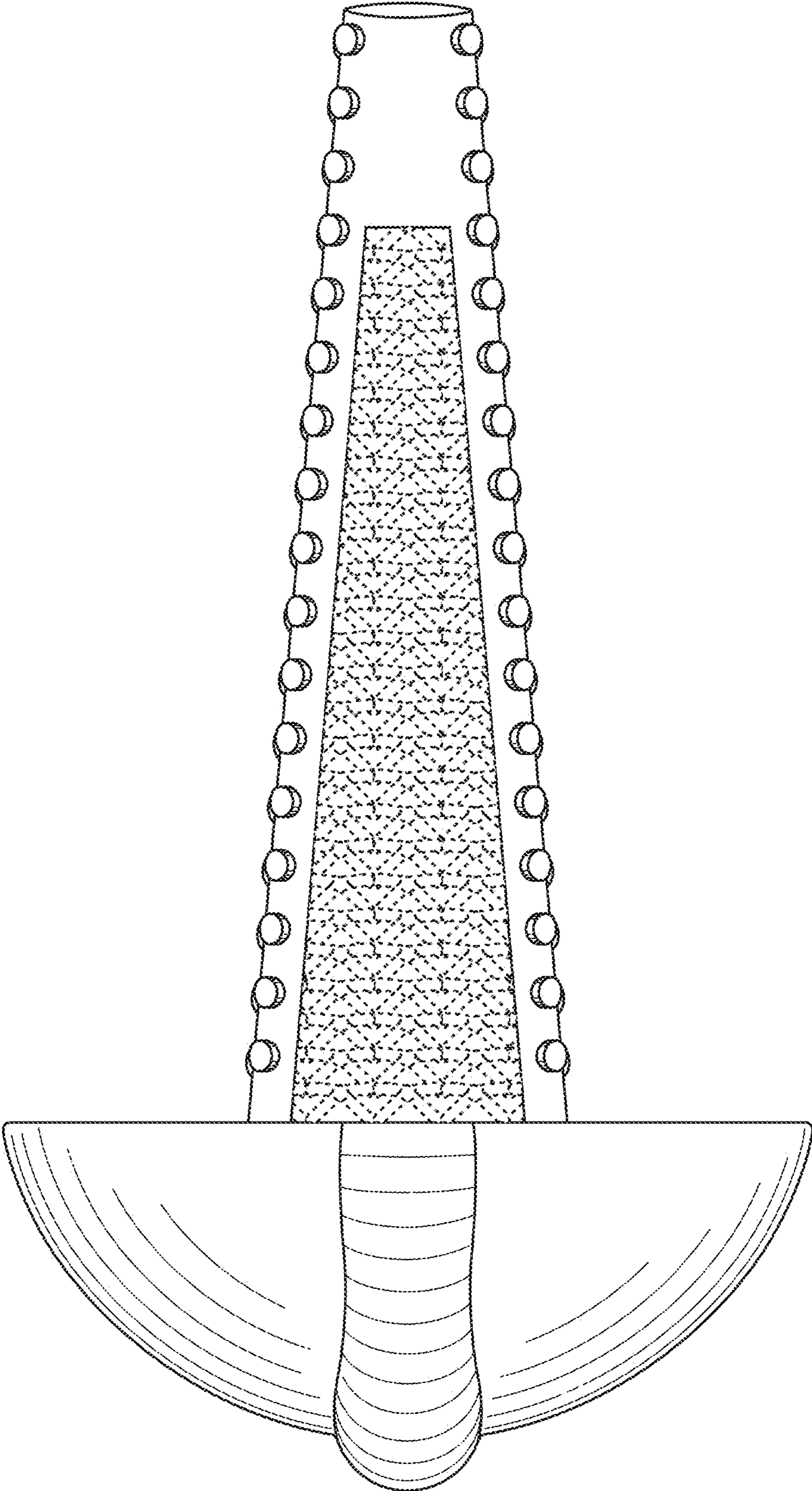


FIG. 3

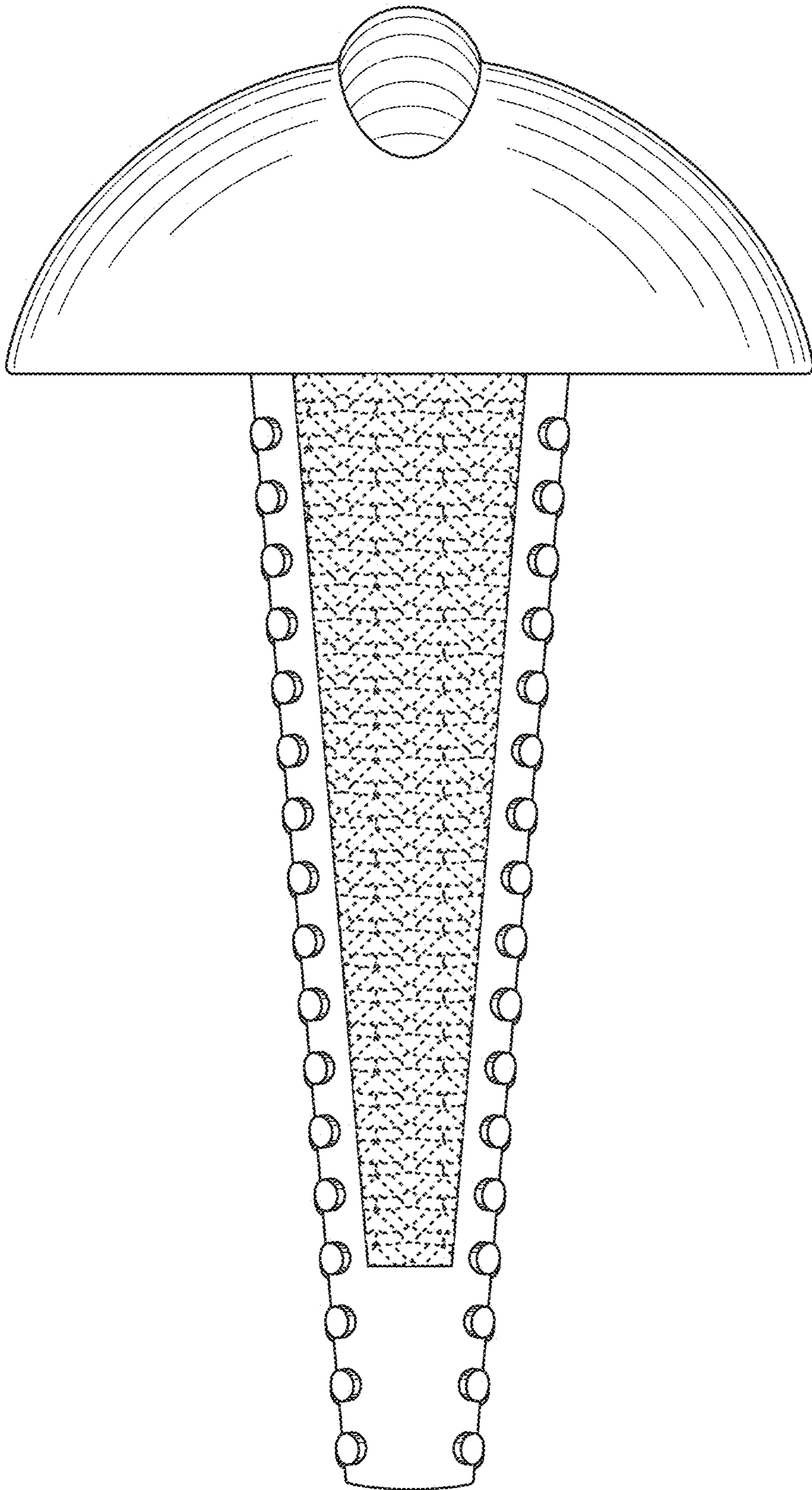


FIG. 4

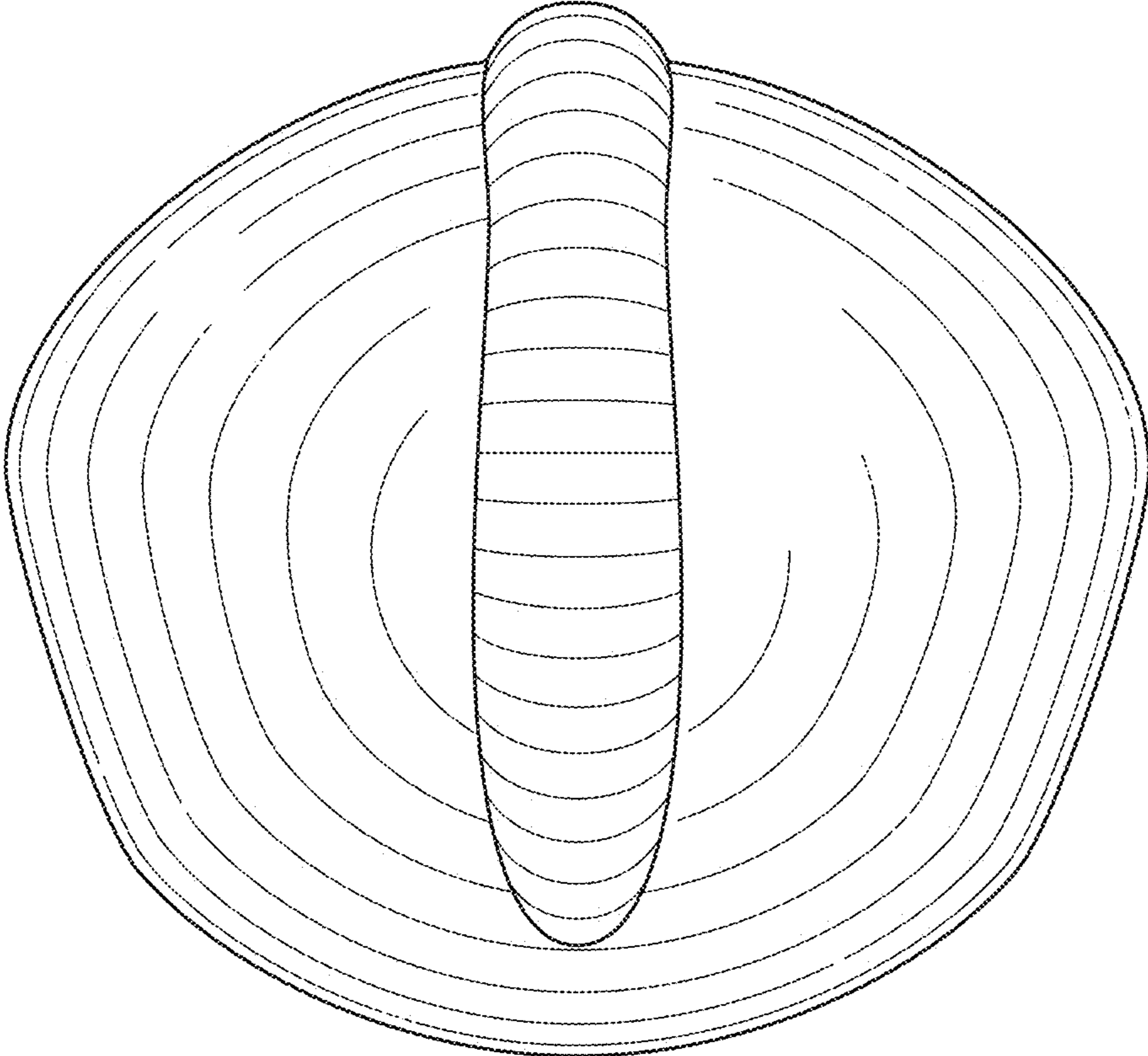


FIG. 5

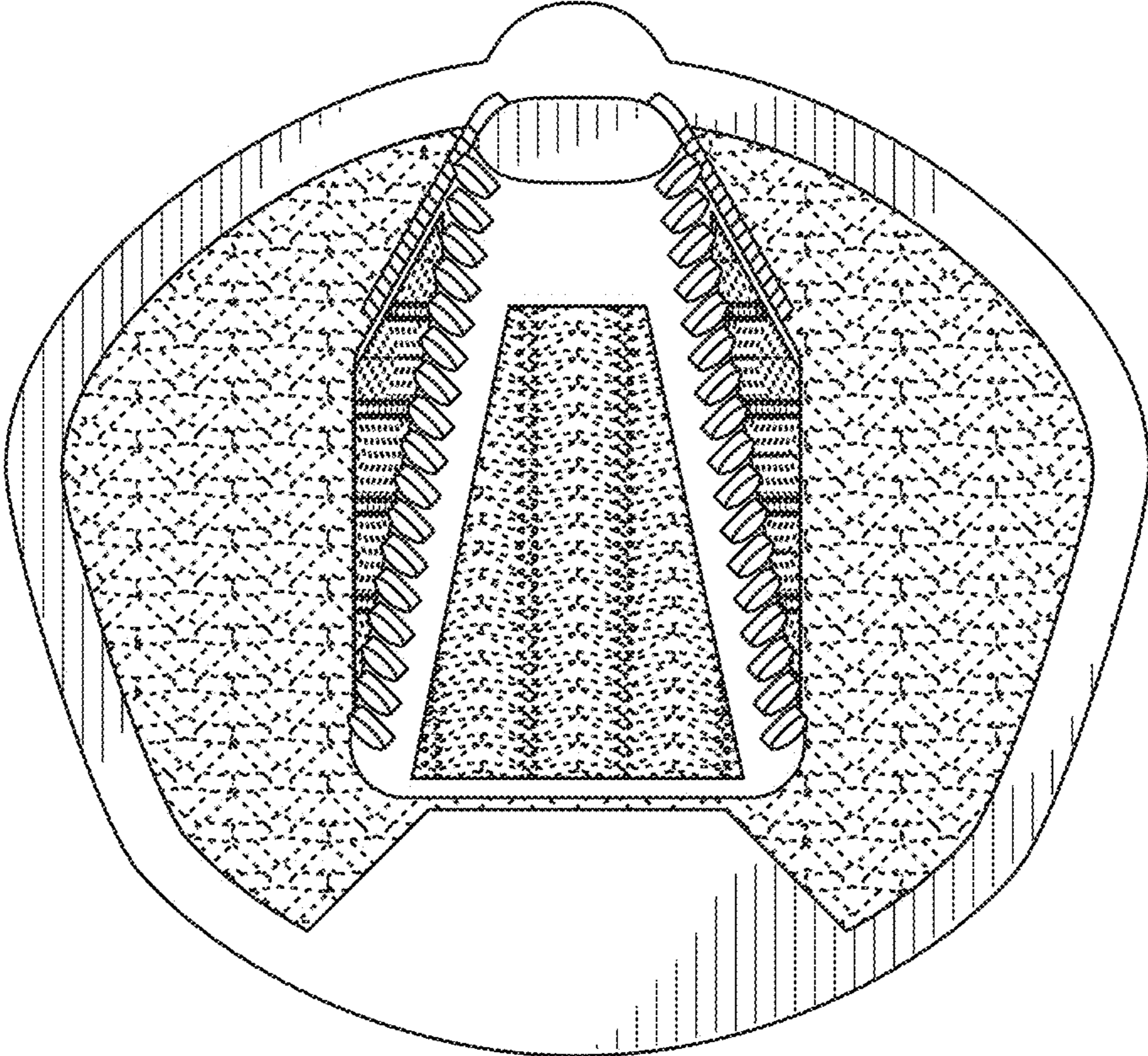


FIG. 6

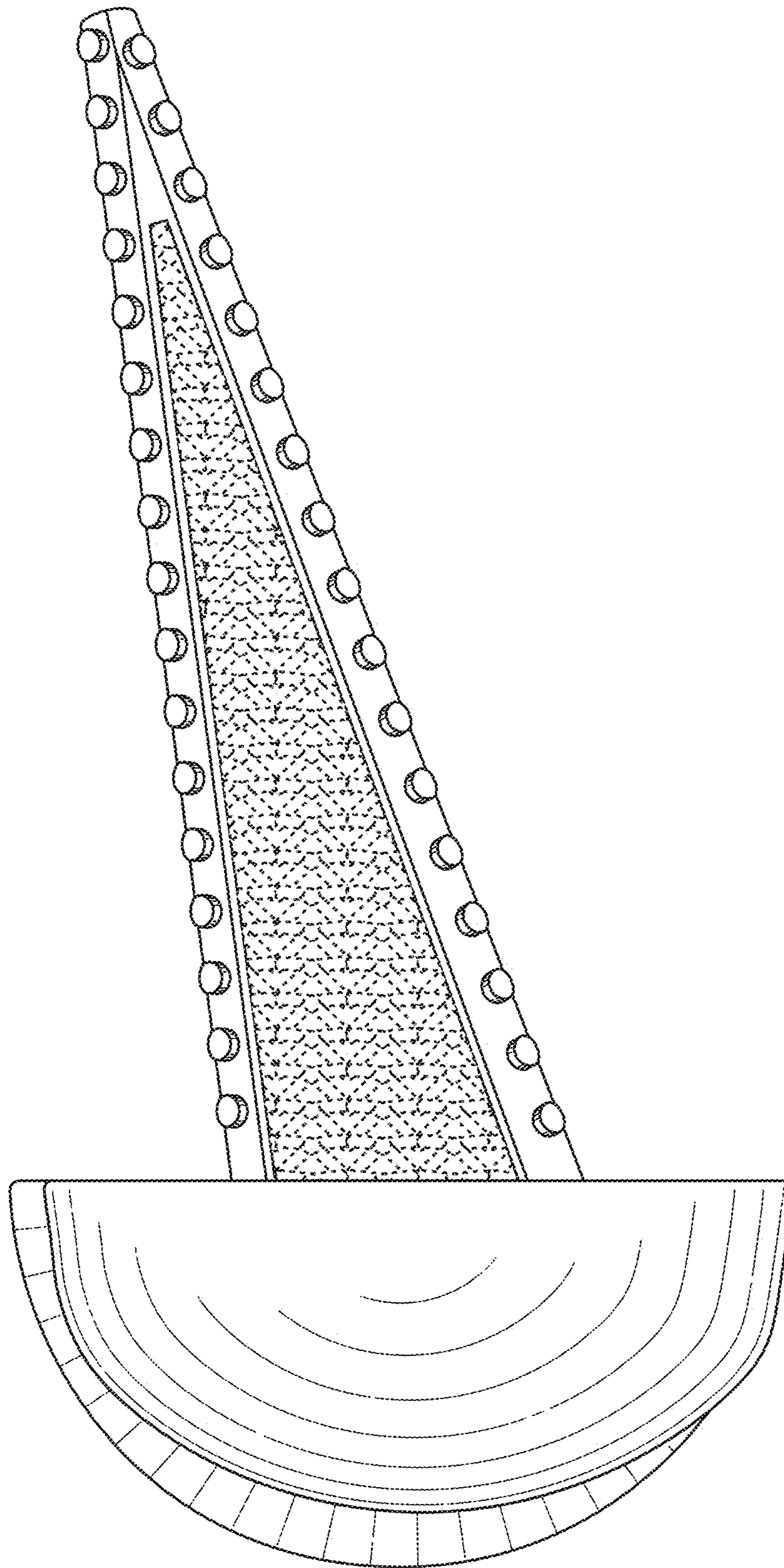


FIG. 7

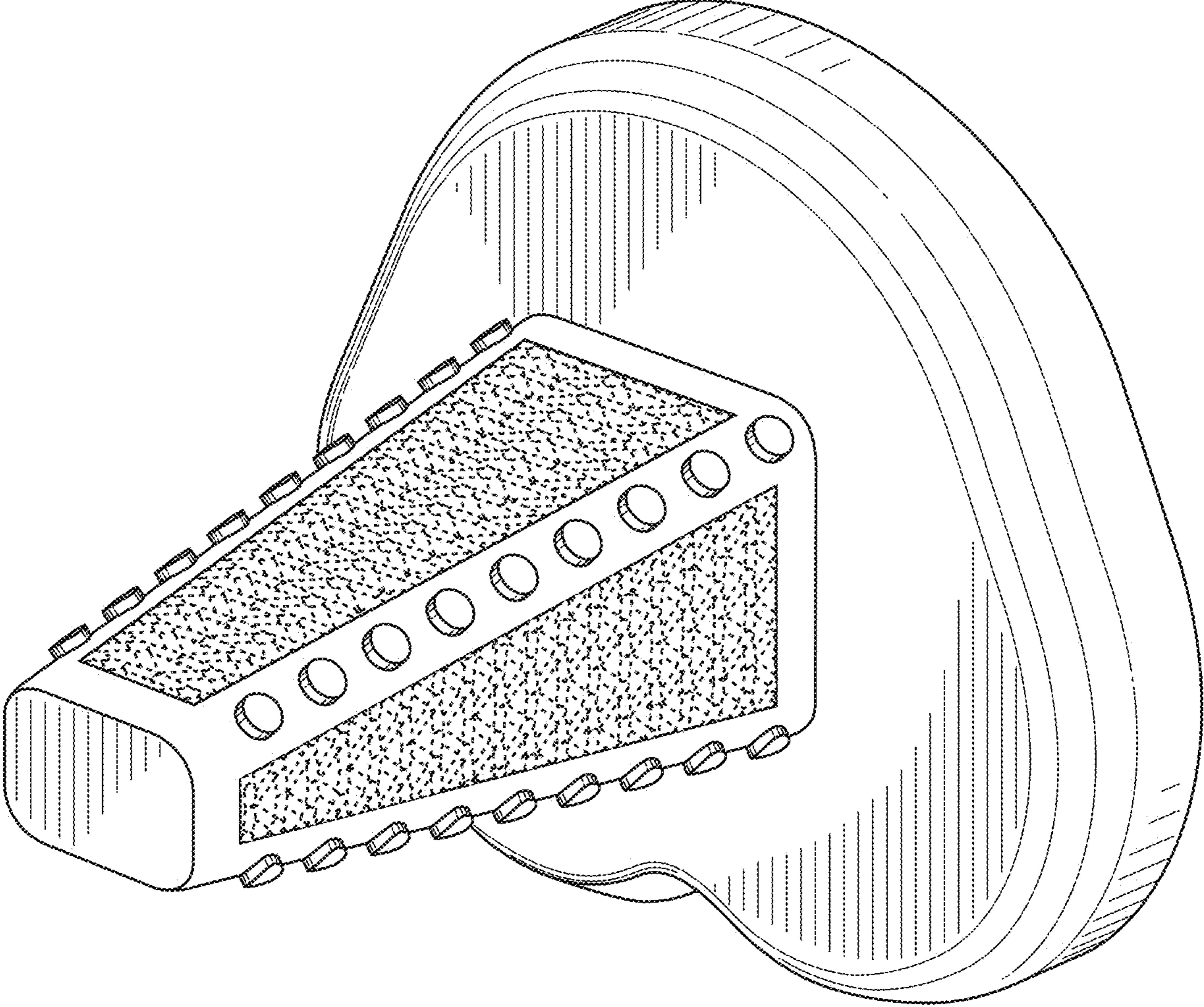


FIG. 8

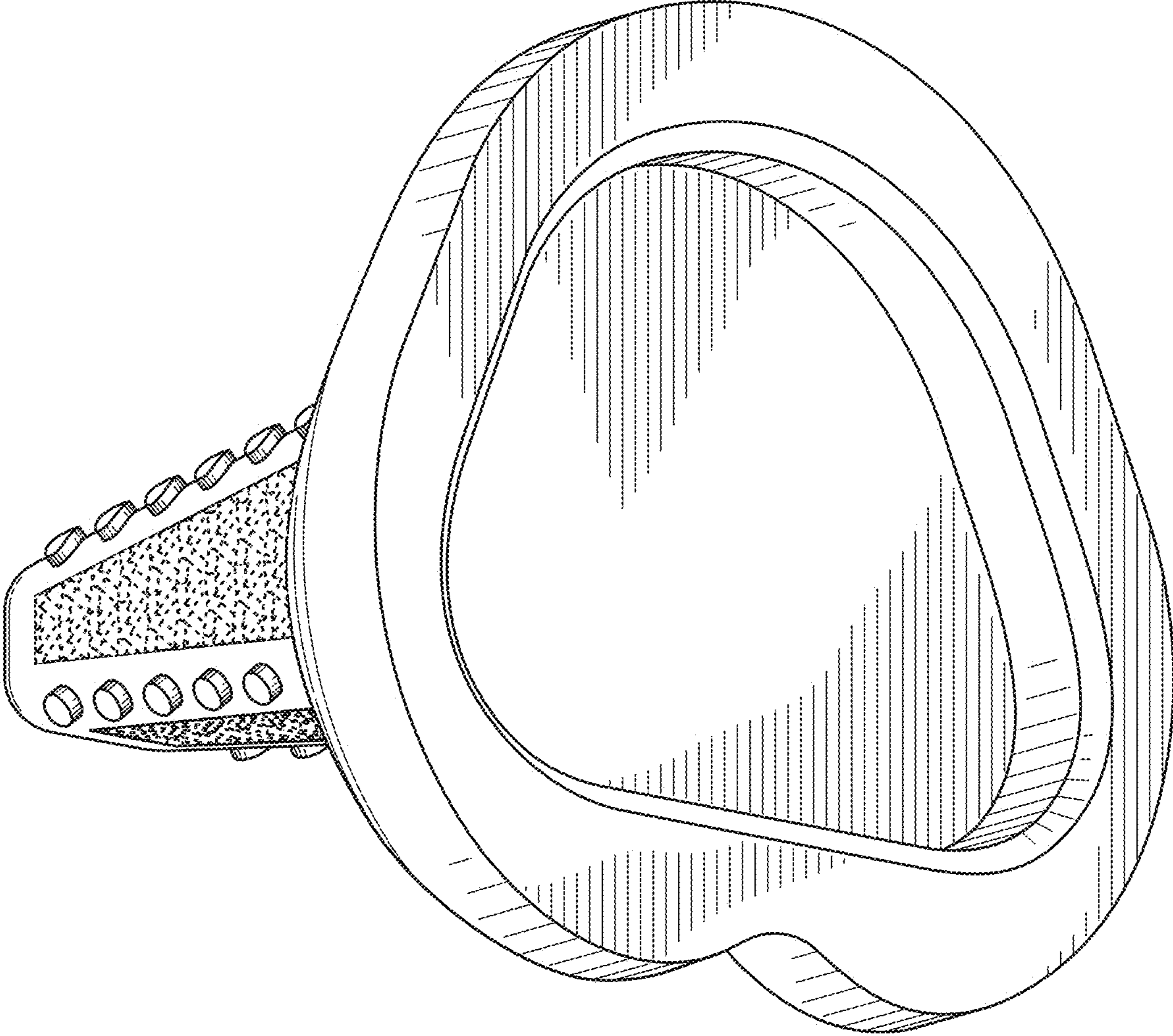


FIG. 9

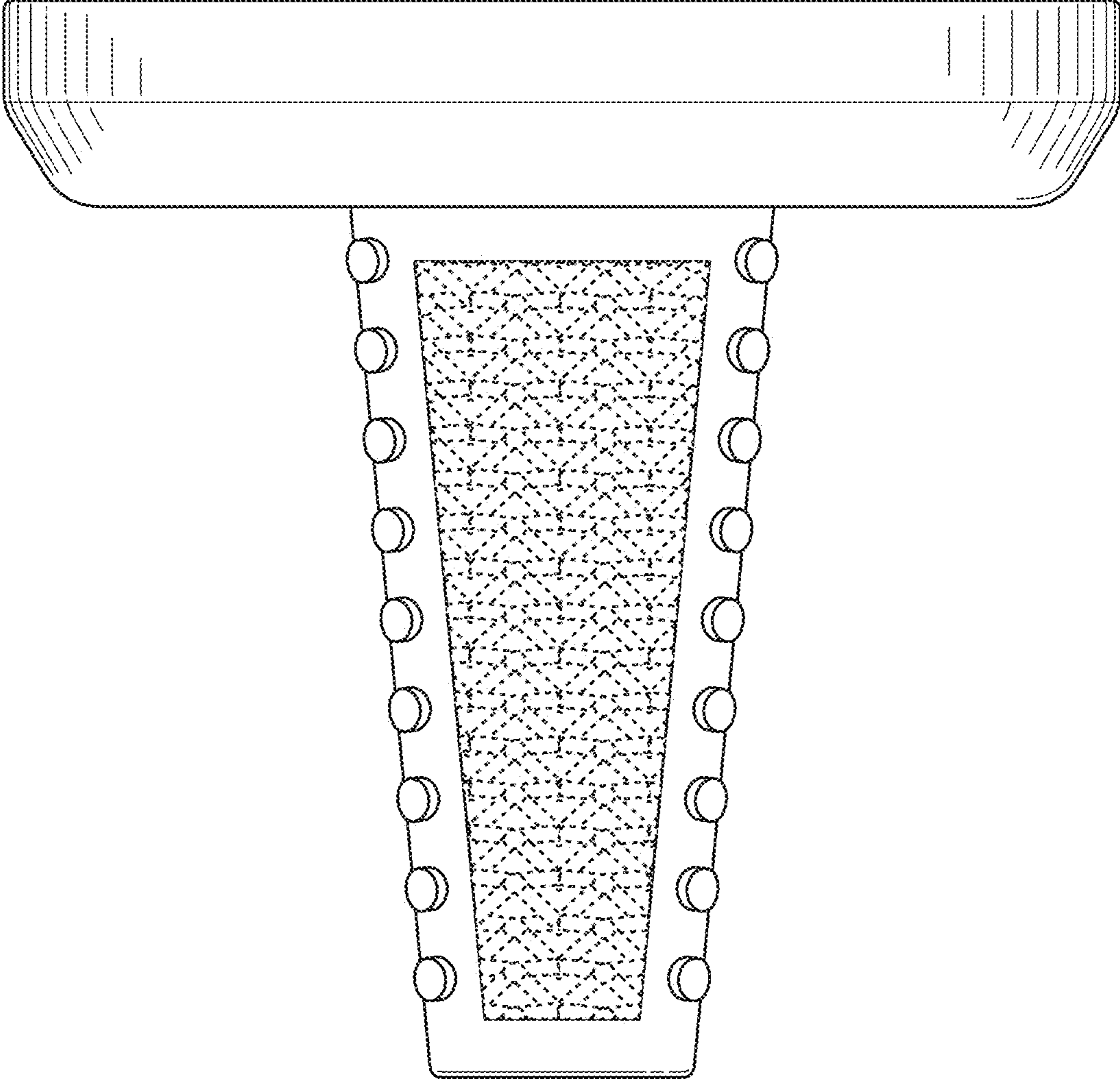


FIG. 10

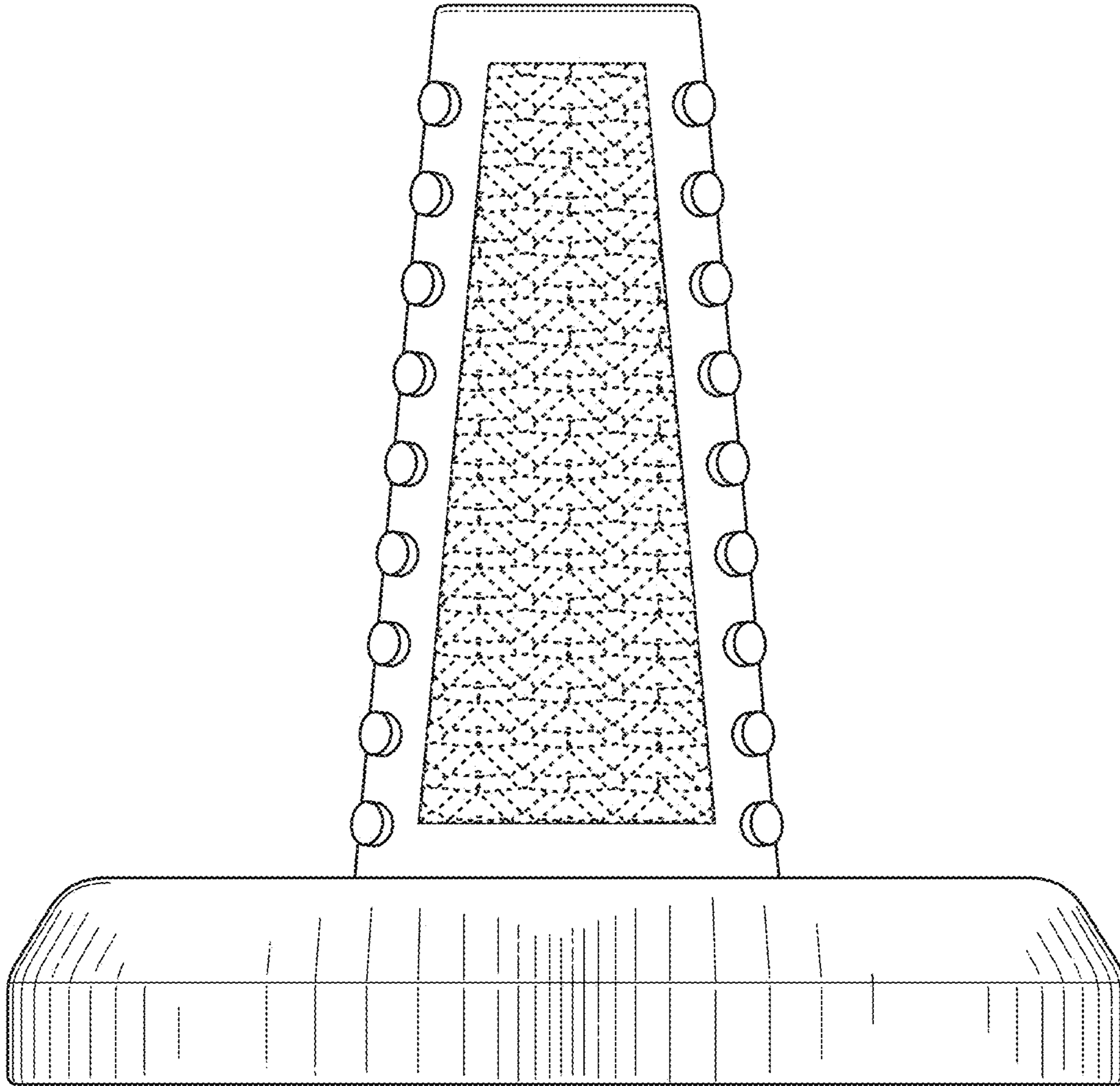


FIG. 11

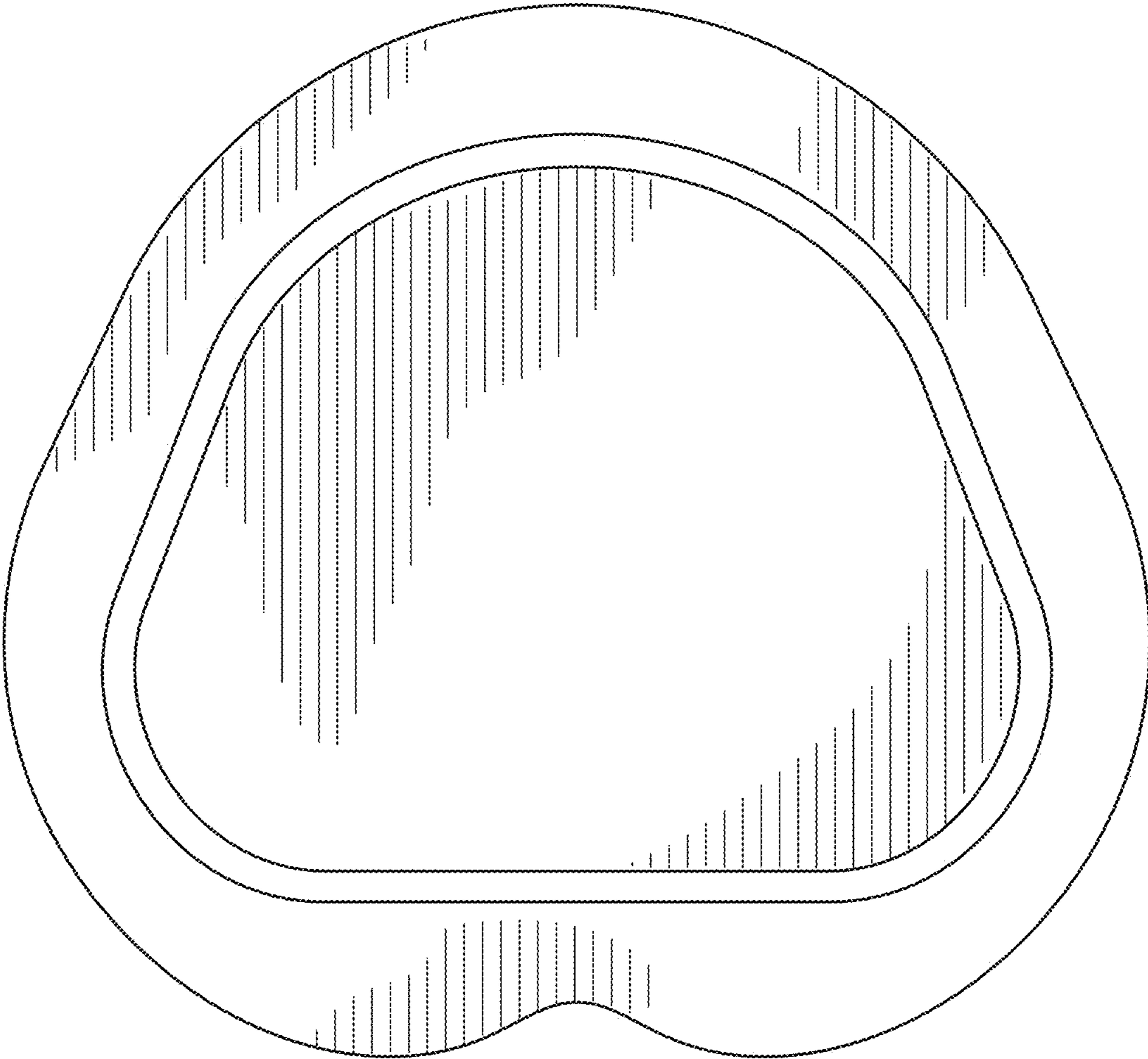


FIG. 12

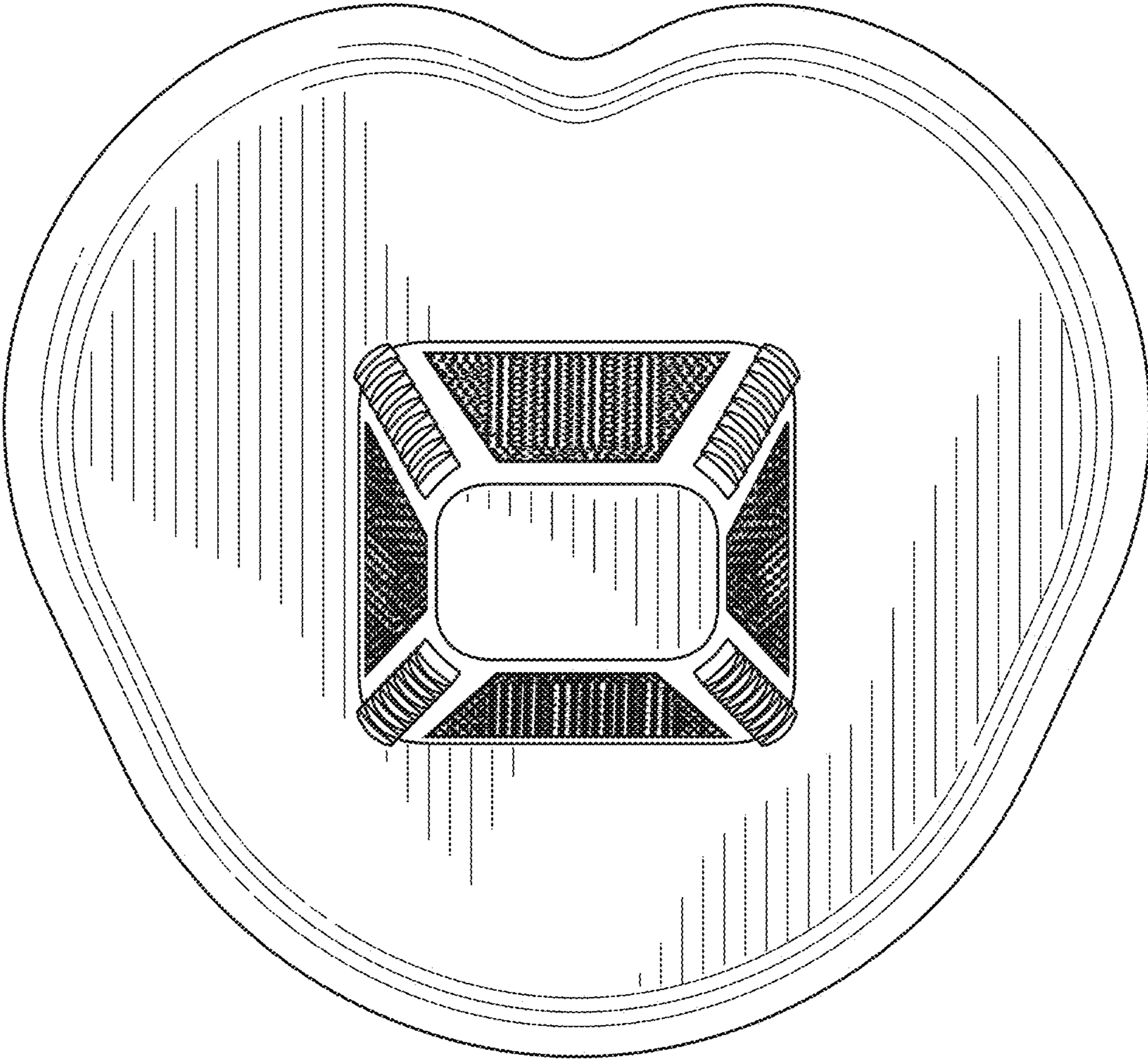


FIG. 13

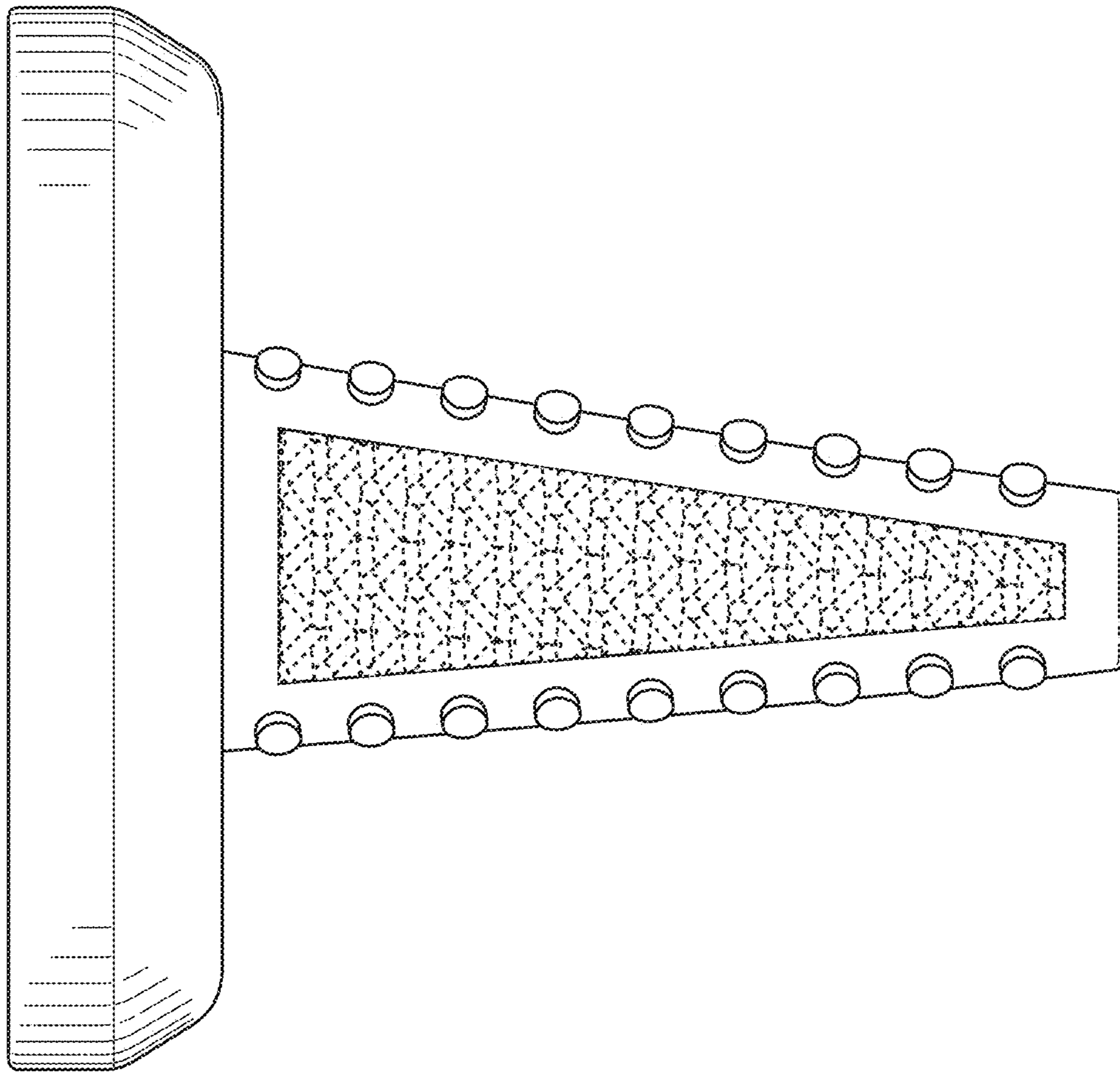


FIG. 14

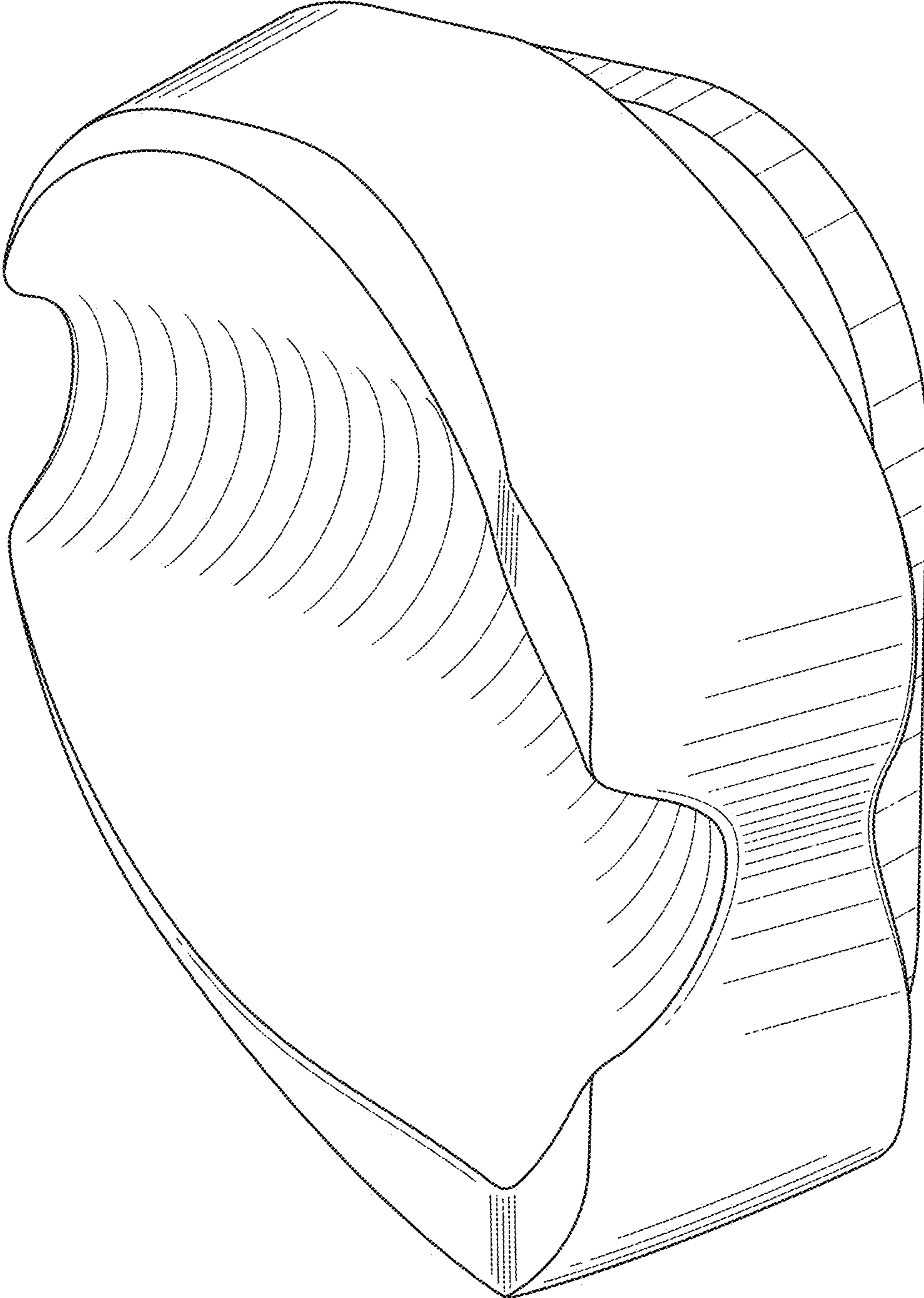


FIG. 15

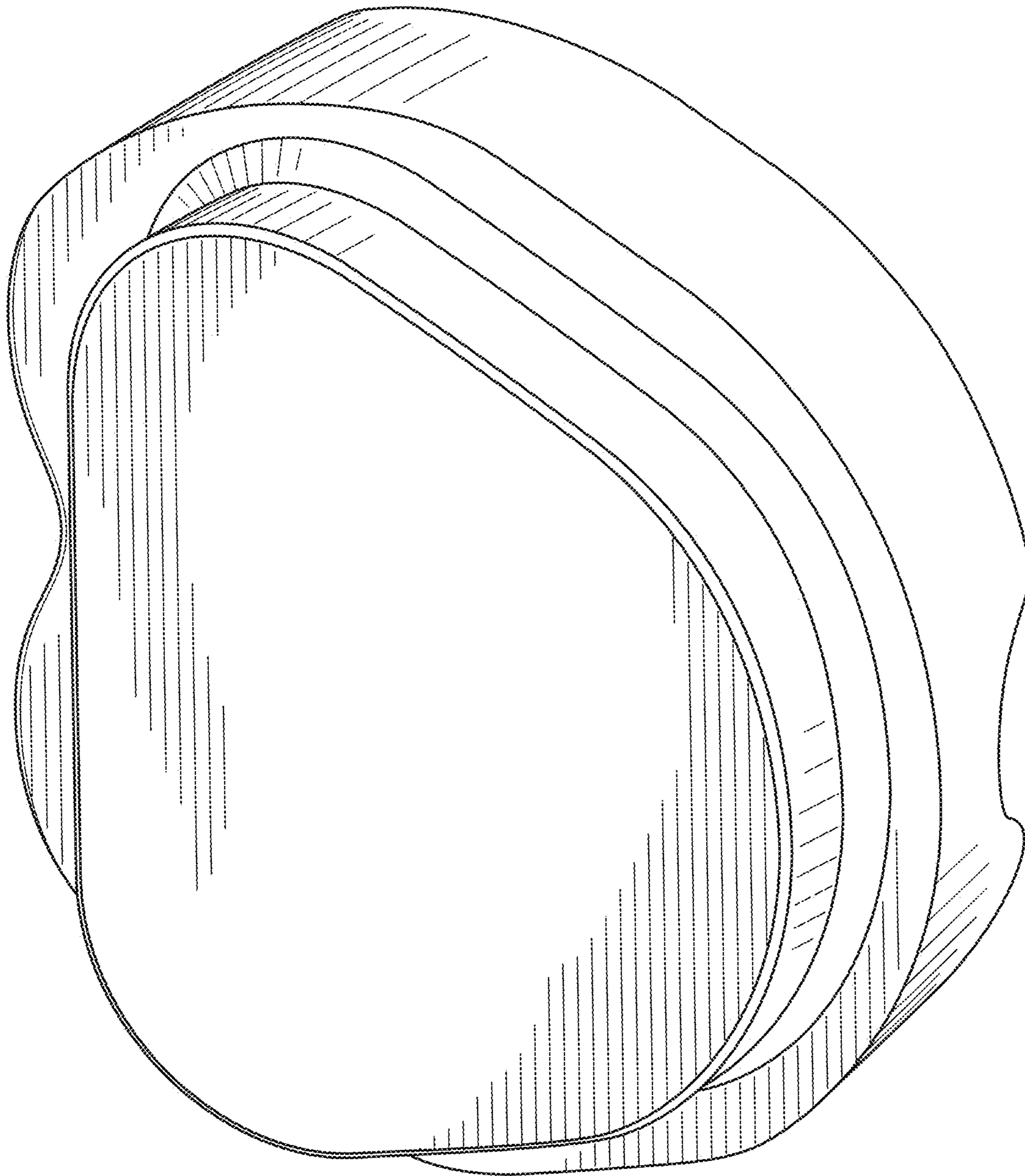


FIG. 16

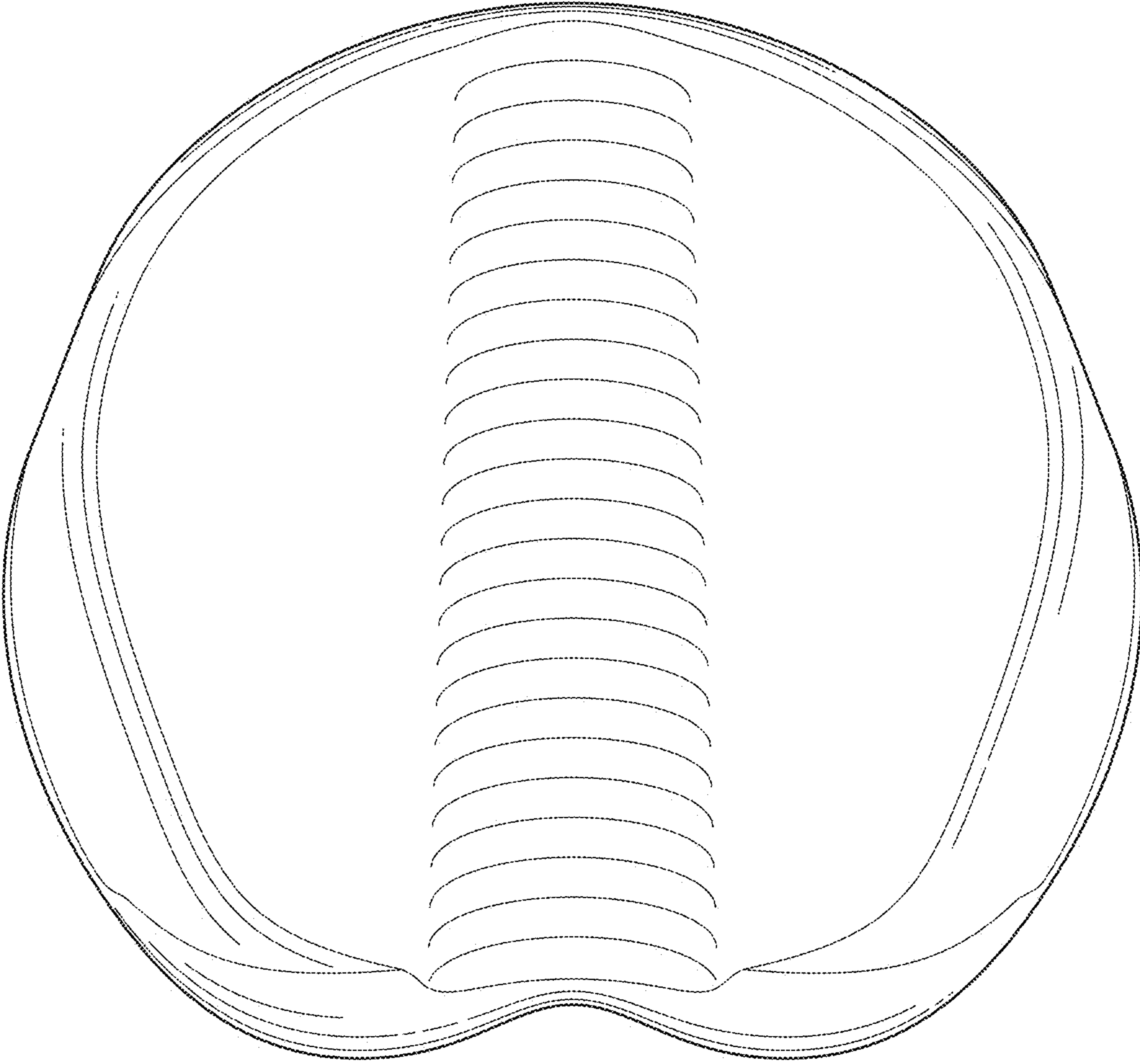


FIG. 17

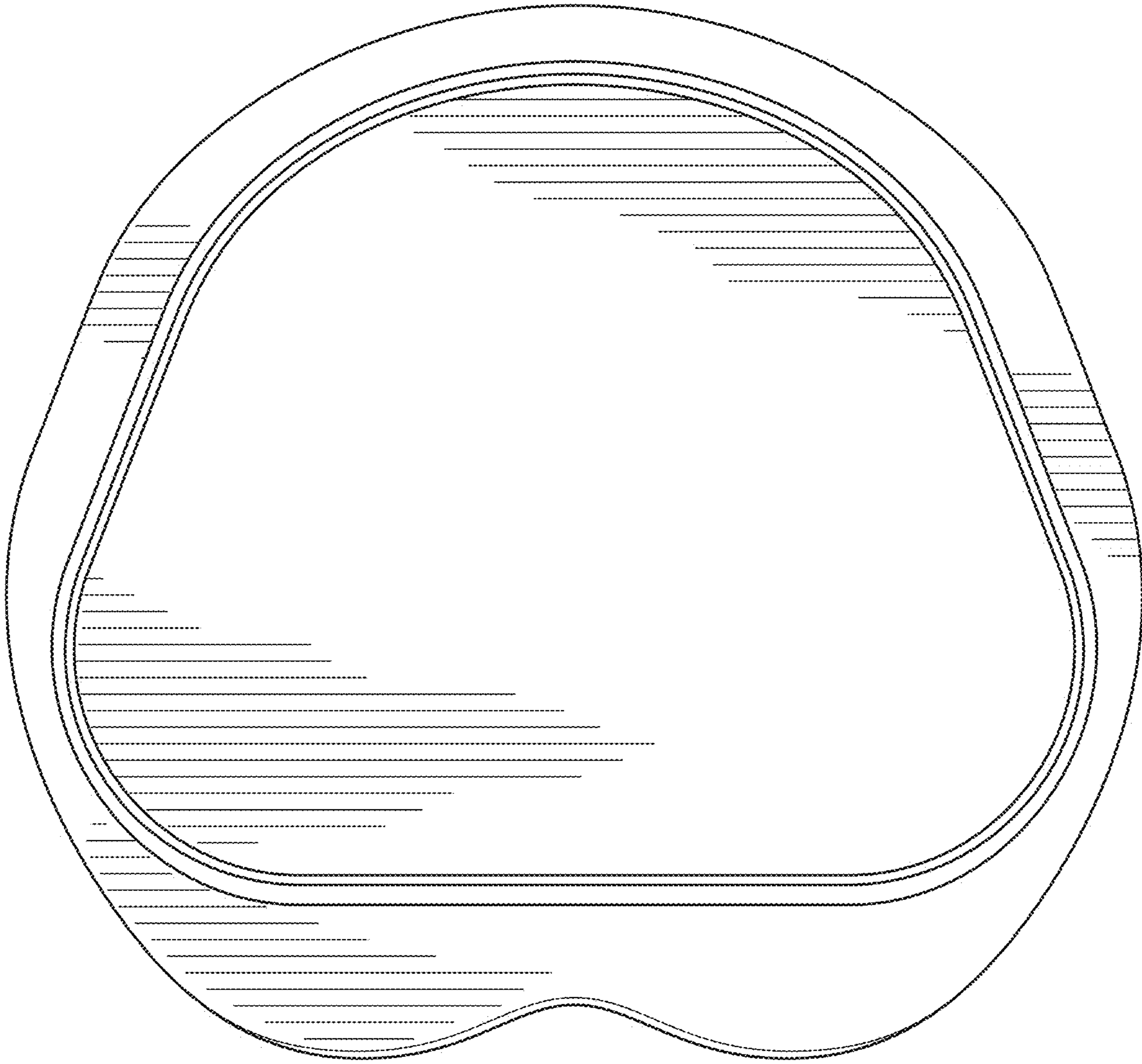


FIG. 18

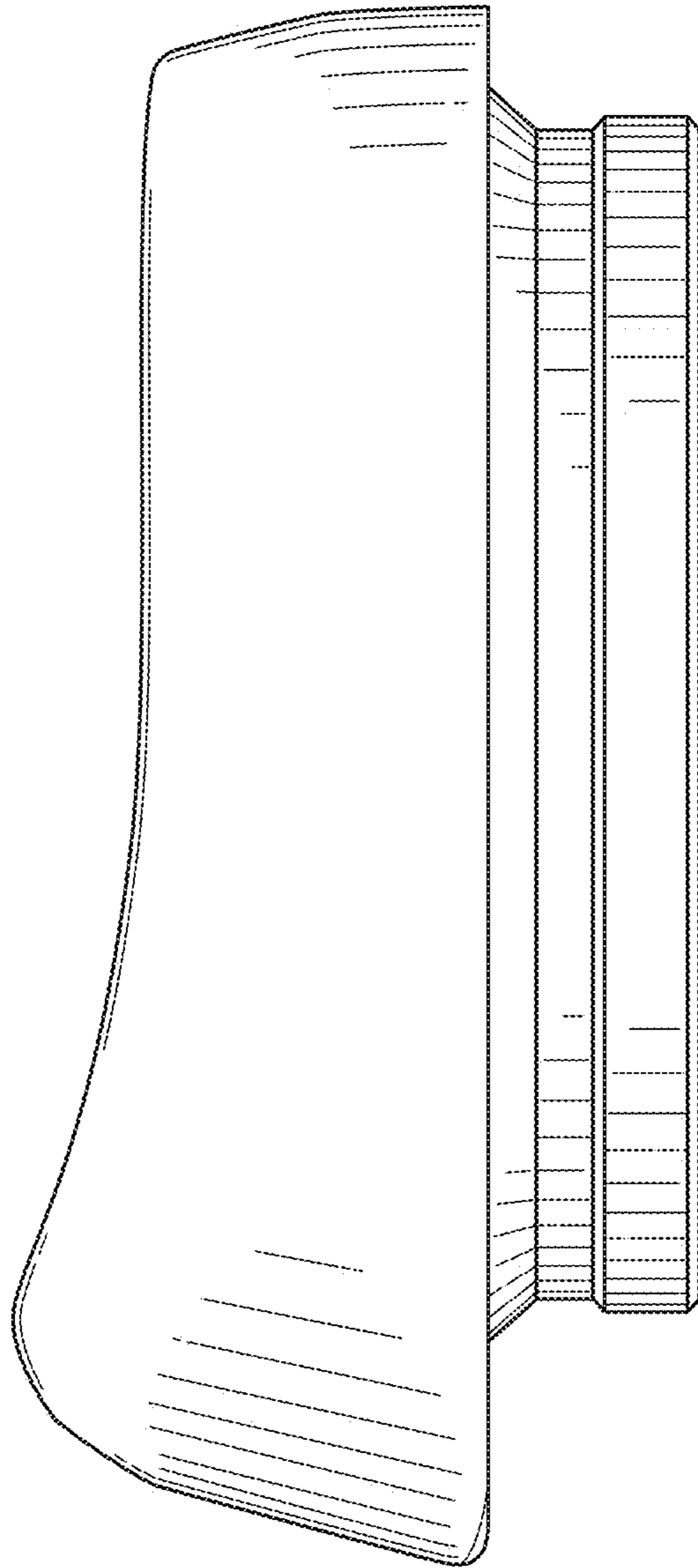


FIG. 19

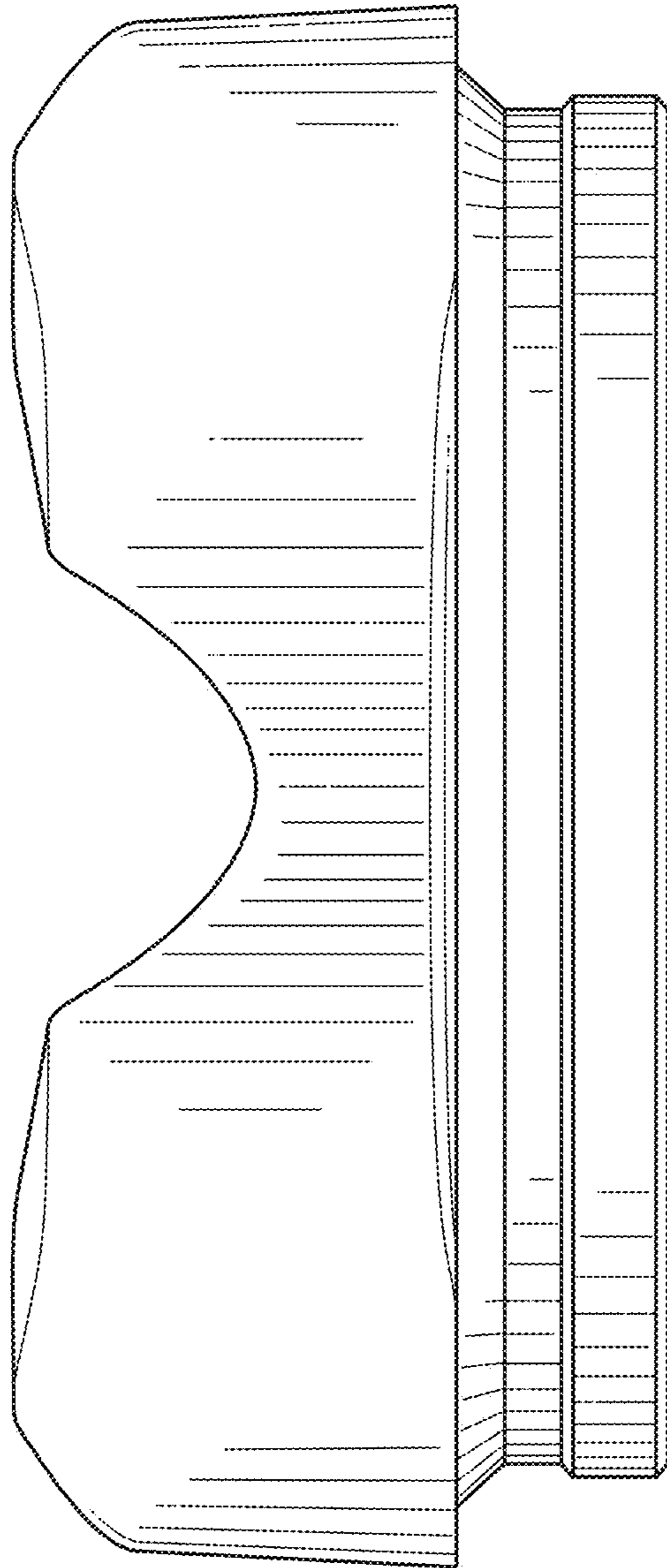


FIG. 20

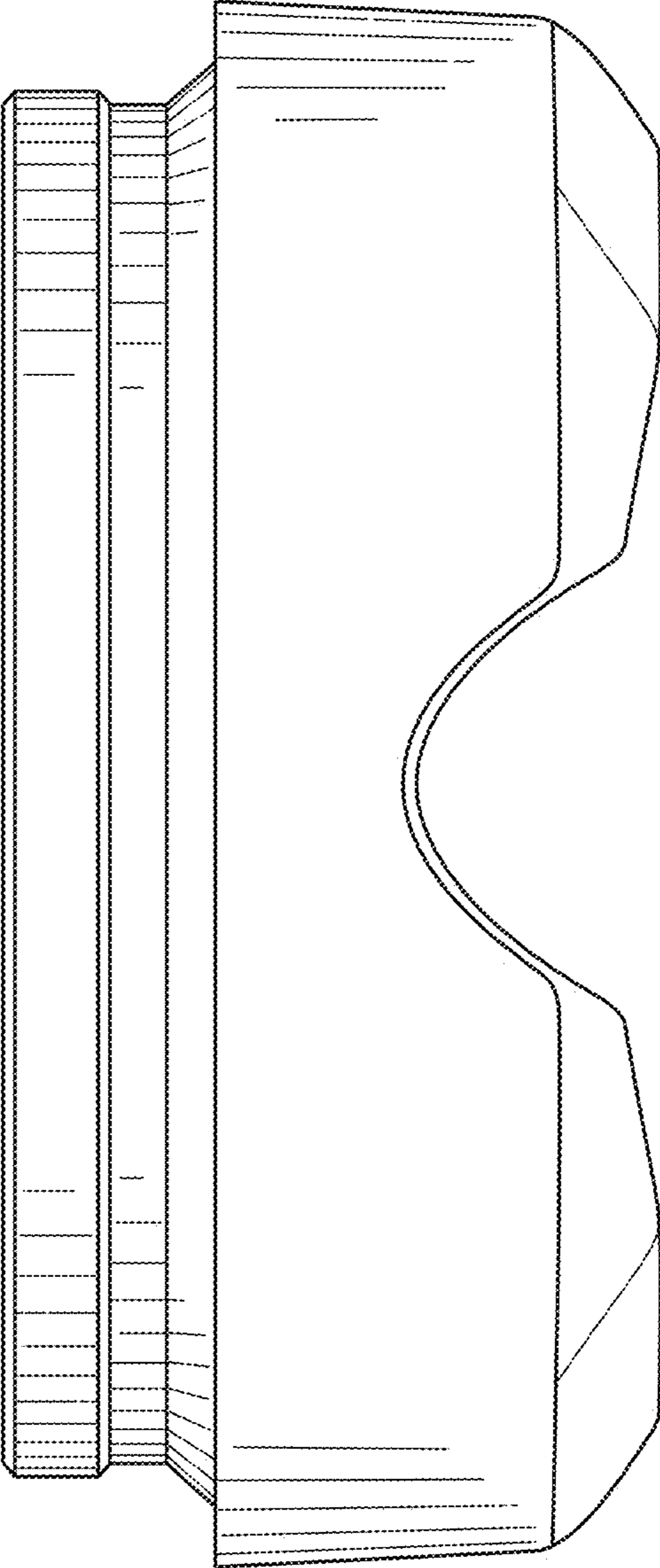


FIG. 21

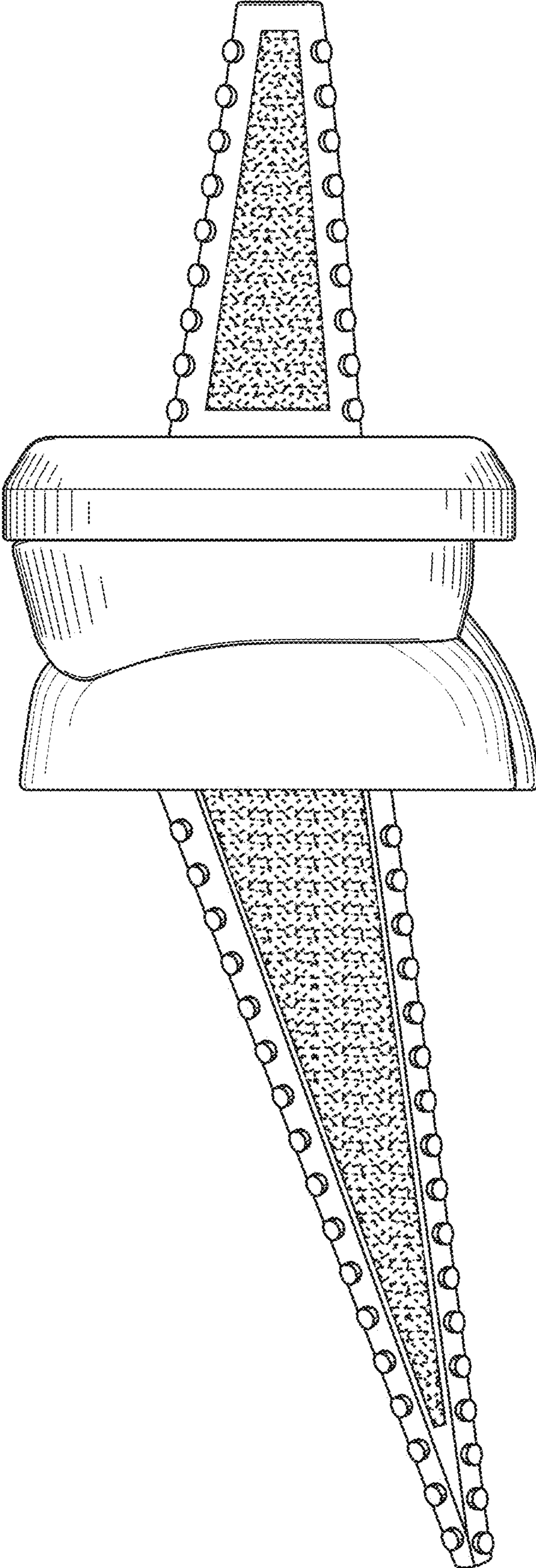


FIG. 22