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

(10) **Patent No.: US D947,025 S**
(45) **Date of Patent: ** Mar. 29, 2022**

(54) **PLUG SEAL**

D229,824 S * 1/1974 Erickson D9/434
D230,013 S * 1/1974 Emerson D9/434
D297,799 S * 9/1988 Hammer D7/507

(71) Applicant: **INTEGRATED LINER TECHNOLOGIES, INC.**, Rensselaer, NY (US)

(Continued)

(72) Inventors: **Lenny Diaz**, Clifton Park, NY (US);
Paul M. Petrosino, Schoharie, NY (US)

(73) Assignee: **INTEGRATED LINER TECHNOLOGIES, INC.**, Rensselaer, NY (US)

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

(21) Appl. No.: **29/652,758**

(22) Filed: **Nov. 13, 2020**

(51) **LOC (13) Cl.** **09-07**

(52) **U.S. Cl.**
USPC **D9/439**

(58) **Field of Classification Search**
USPC D3/12, 16, 17; D7/393, 394, 396, 397, D7/398, 387, 391, 392.1, 396.1, 396.2, D7/401.1, 402, 507, 511, 538, 388; D9/434, 435, 436, 438, 439, 440, 445, D9/446, 447, 454; D23/209, 233, 238, D23/259, 260, 261; D26/22, 23; D34/7, D34/10, 11
CPC ... B01L 3/50825; B01L 9/00; B65D 81/2038; B65D 81/20; A61J 1/1418; A61J 1/14; A61J 1/1406; A61J 1/1412; A61M 1/0001; A61M 1/0003; A61M 1/0011; B65B 31/00; B65B 55/10; B67C 11/02
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D34,955 S * 8/1901 Thatcher D9/439
D120,464 S * 5/1940 Martin D9/434
D126,200 S * 4/1941 Eisenberg D9/434

OTHER PUBLICATIONS

Integratd Liner Technology Plug Seals: Announced Mar. 30, 2017 [online]. Site visited [Oct. 27, 2021]. Available from Internet<https://web.archive.org/web/20170330193918/http://www.iltusa.com/custom.php>.*

Primary Examiner — Catherine S Posthauer
(74) *Attorney, Agent, or Firm* — Heslin Rothenberg Farley & Mesiti P.C.; Kristian E. Ziegler, Esq.

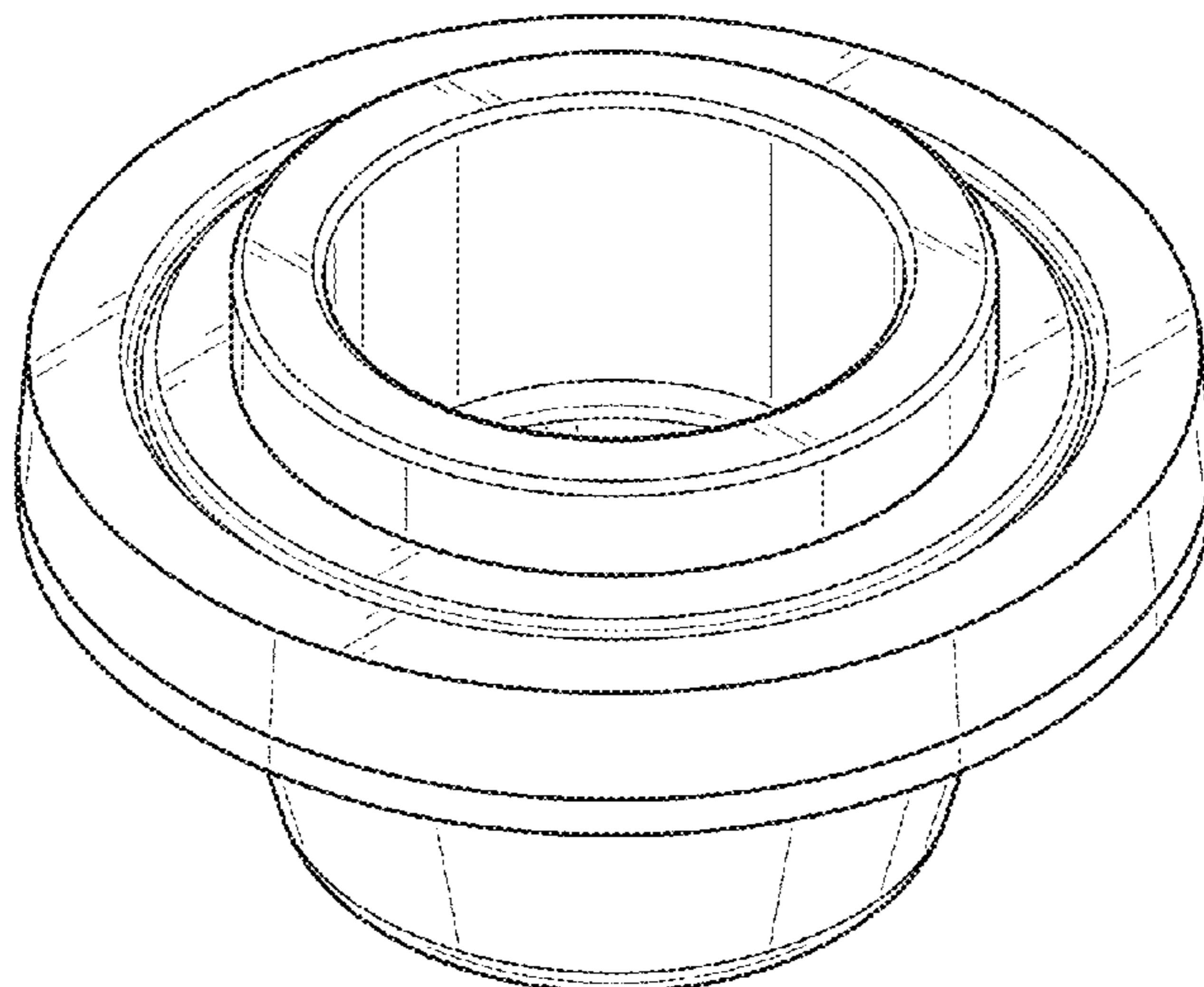
(57) **CLAIM**

The ornamental design for a plug seal, as shown and described.

DESCRIPTION

FIG. 1 is a top side perspective view of a plug seal, showing our new design;
FIG. 2 is a top view thereof;
FIG. 3 is a bottom view thereof;
FIG. 4 is a front side view thereof;
FIG. 5 is a back side view thereof;
FIG. 6 is a left side view thereof;
FIG. 7 is a right side view thereof; and
FIG. 8 is a side cross-sectional view thereof.
FIG. 9 is an elevational perspective view of a cap with plug seal, showing our new design;
FIG. 10 is a elevational exploded perspective view thereof;
FIG. 11 is a top perspective view thereof;
FIG. 12 is a bottom view thereof;
FIG. 13 is a front side view thereof;
FIG. 14 is a back side view thereof;
FIG. 15 is a left side view thereof;
FIG. 16 is a right side view thereof; and,
FIG. 17 is a top perspective view thereof in a position of use with an exemplary vial.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,232,109 A * 8/1993 Tirrell B65D 51/002
 215/247
 D349,648 S * 8/1994 Tirrell D9/439
 D359,683 S * 6/1995 Beach D9/434
 D370,629 S * 6/1996 Lynch D9/439
 D395,195 S * 6/1998 Heiberg D7/387
 D402,354 S * 12/1998 Strong D23/259
 D551,550 S * 9/2007 Noonan D9/454
 D604,614 S * 11/2009 Janboecke D9/454
 D636,055 S * 4/2011 Goldman D23/209
 D657,848 S * 4/2012 Howson D23/261
 D682,690 S * 5/2013 Bowes D9/439
 D715,146 S * 10/2014 Holmes D9/447
 D751,394 S * 3/2016 Chartier D9/440
 D753,489 S * 4/2016 Shaw D9/454
 D754,542 S * 4/2016 Shaw D9/454
 D762,825 S * 8/2016 Walker D23/259
 D788,886 S * 6/2017 Salzer D23/259
 D799,895 S * 10/2017 Westrick D7/398
 D804,311 S * 12/2017 Ruprecht D9/434
 D823,115 S * 7/2018 Walker D9/447
 D840,820 S * 2/2019 Hwang D9/456
 D857,179 S * 8/2019 Thompson D23/259
 D907,438 S * 1/2021 Sakamoto D7/507
 2012/0024085 A1 * 2/2012 Faulkner B01L 3/50825
 73/864.91

* cited by examiner

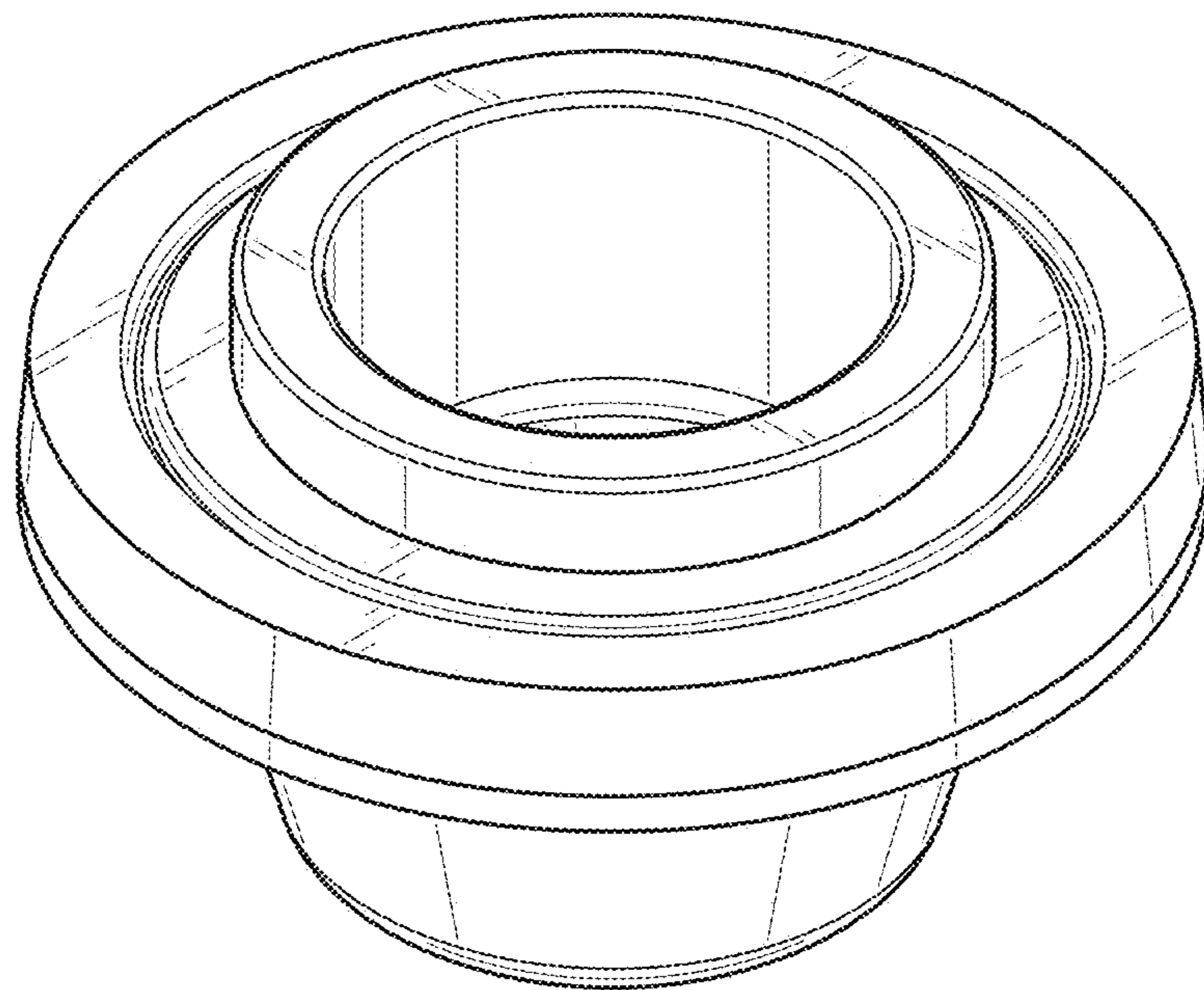


FIG. 1

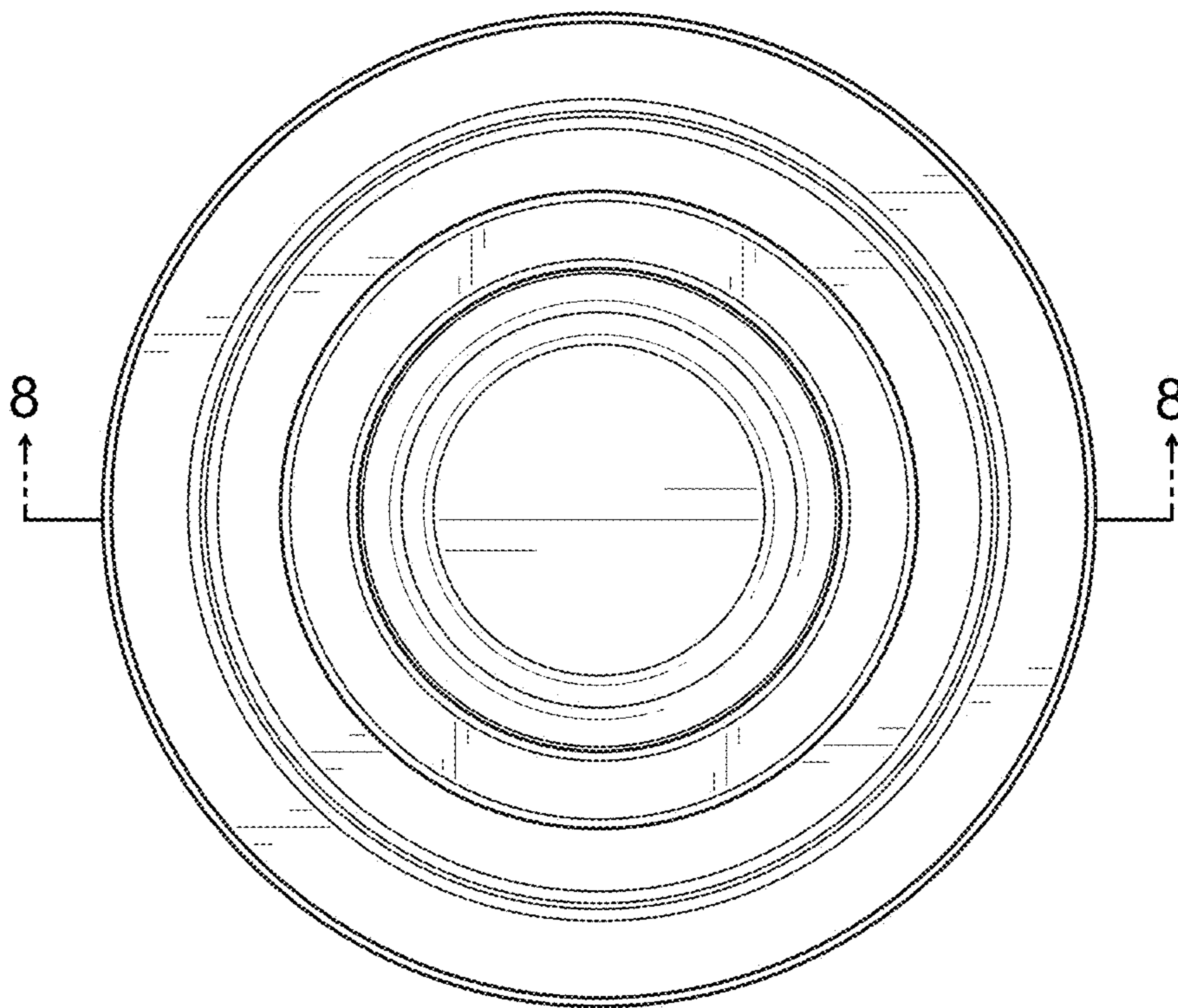


FIG. 2

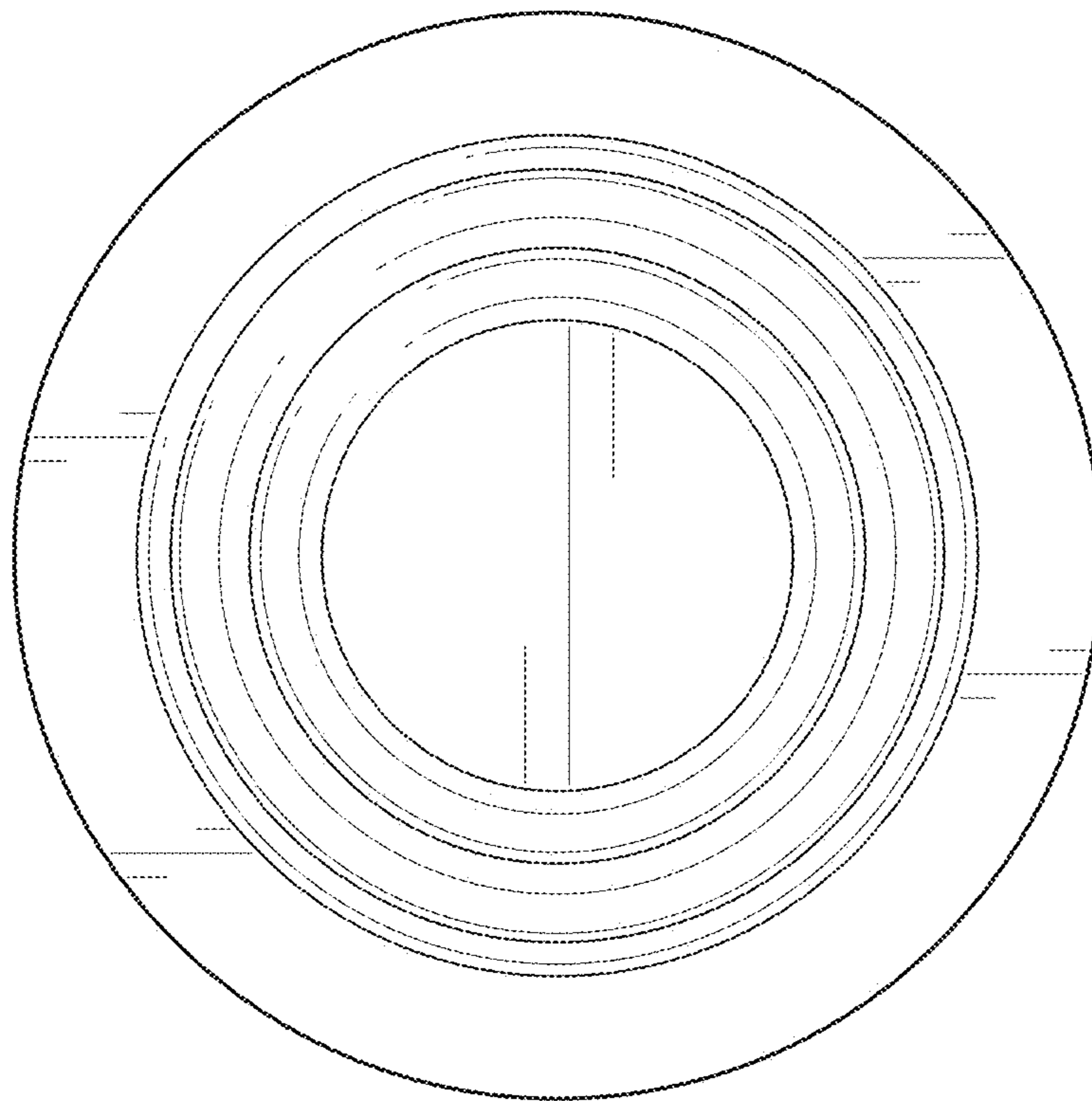


FIG. 3

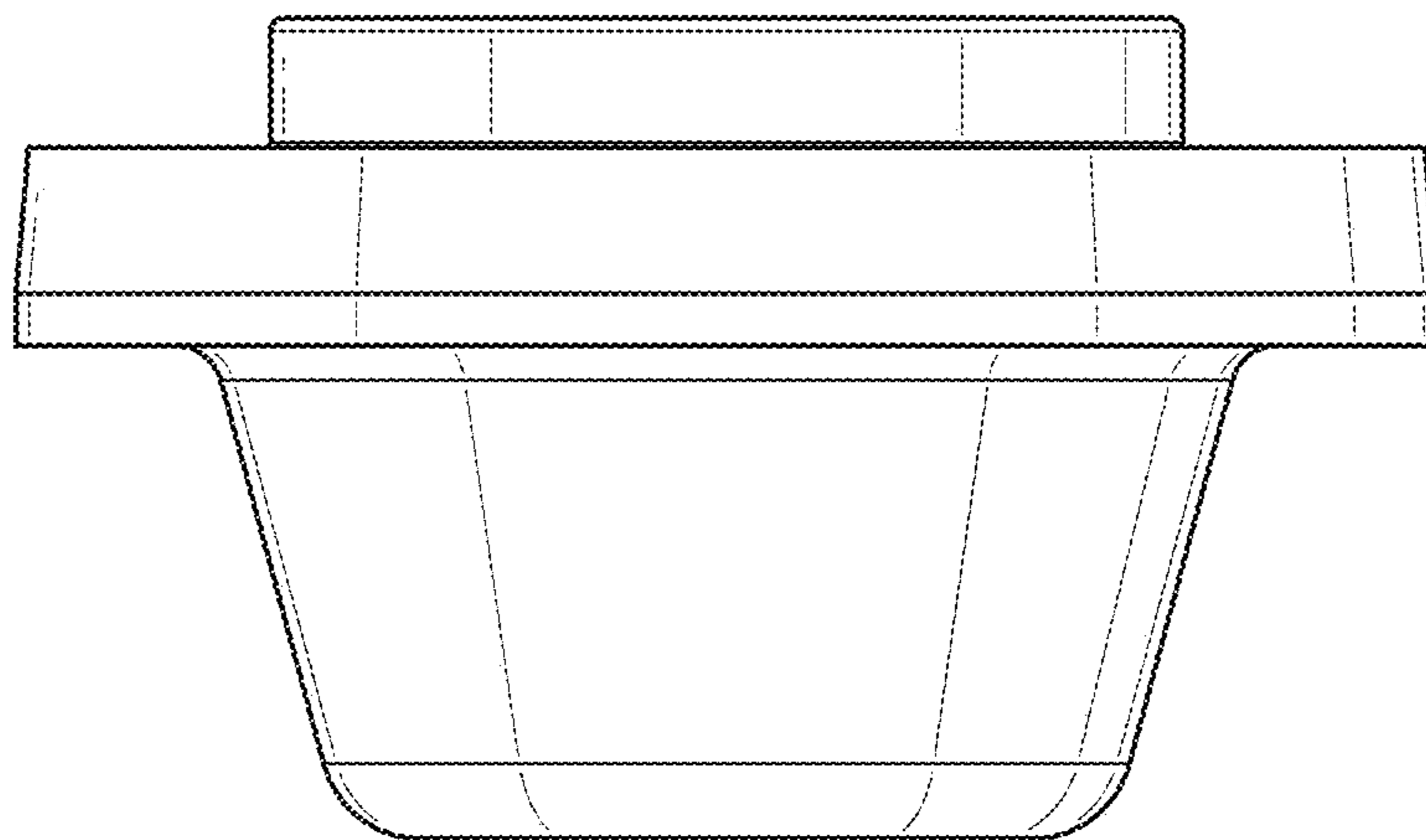


FIG. 4

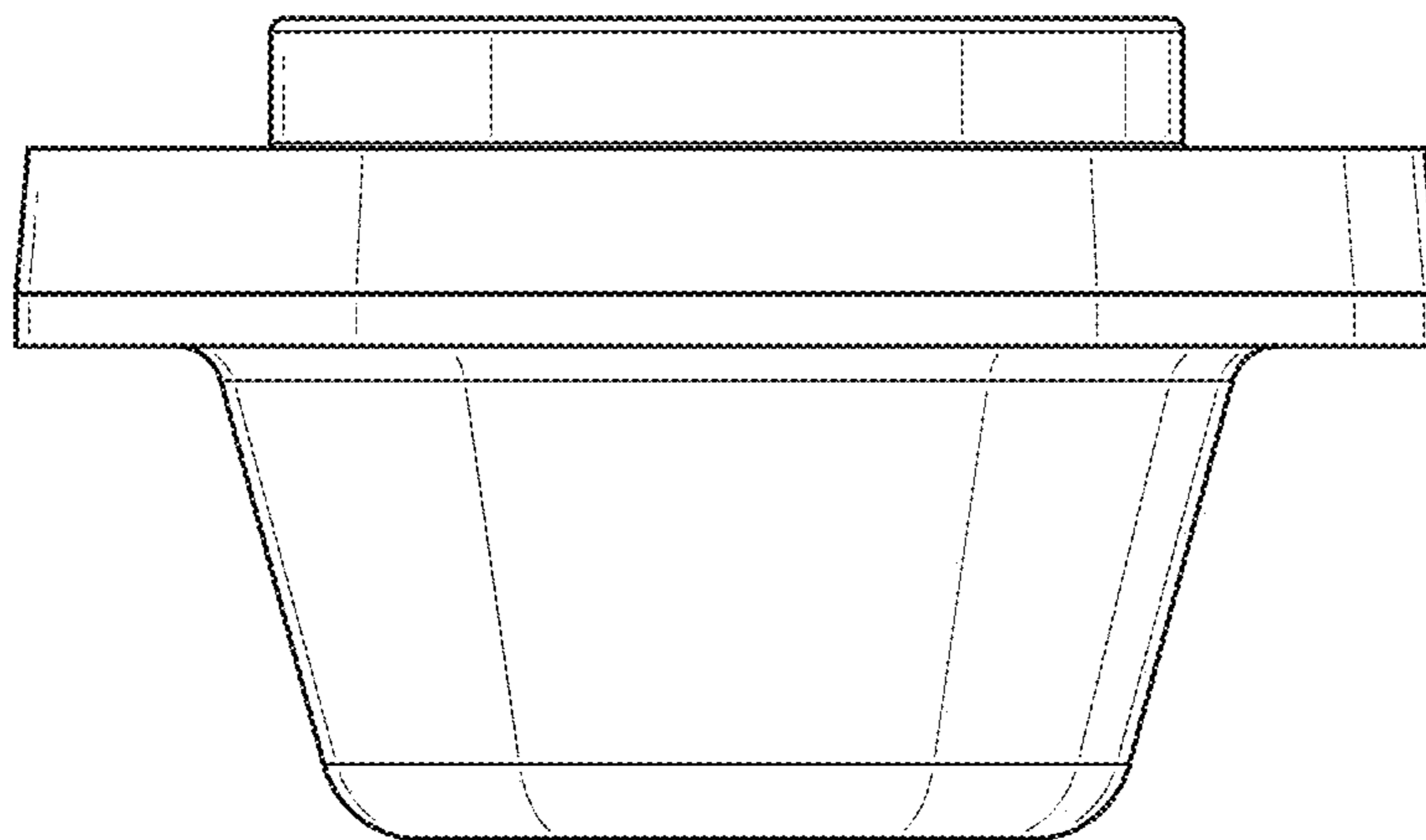


FIG. 5

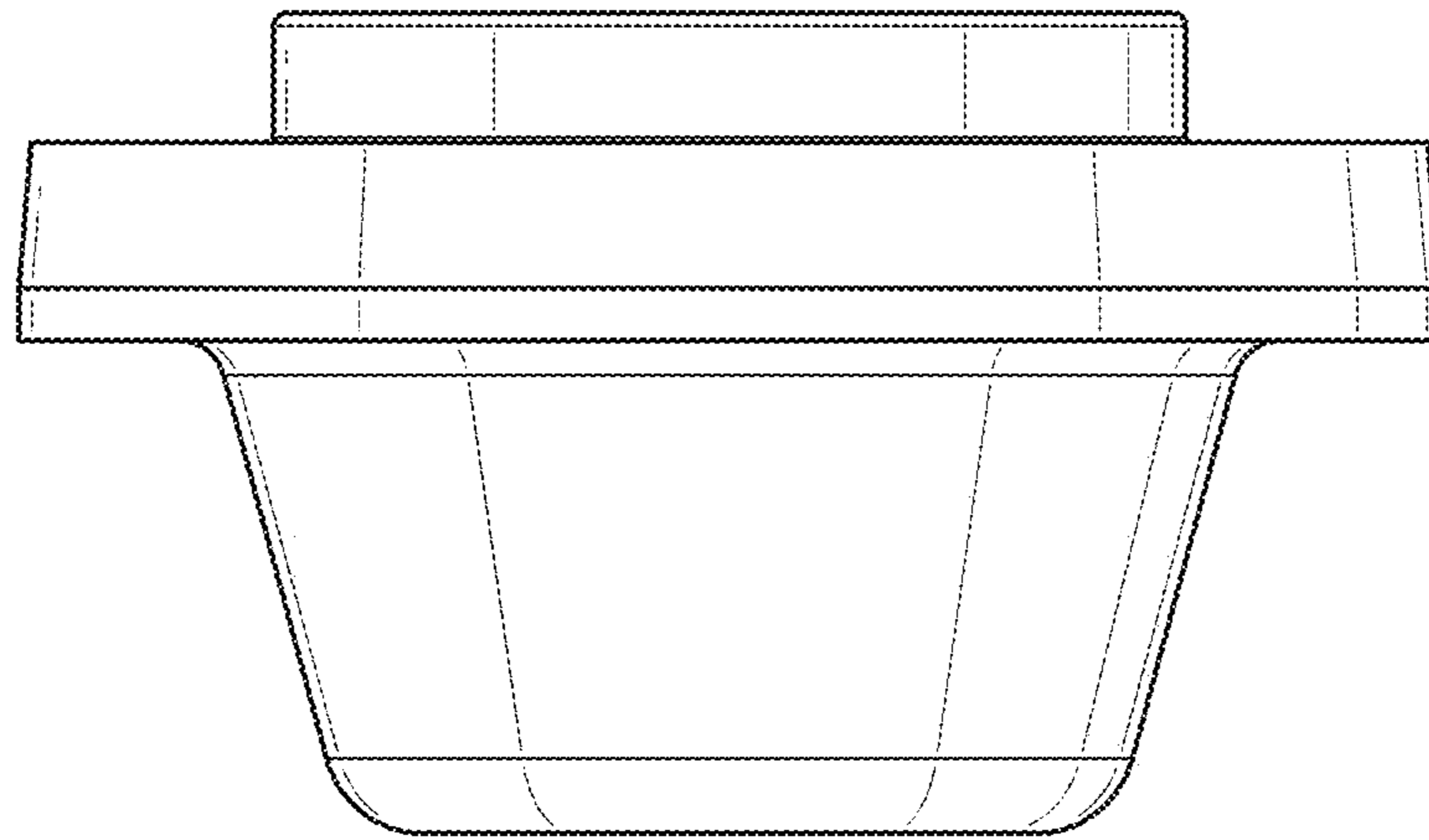


FIG. 6

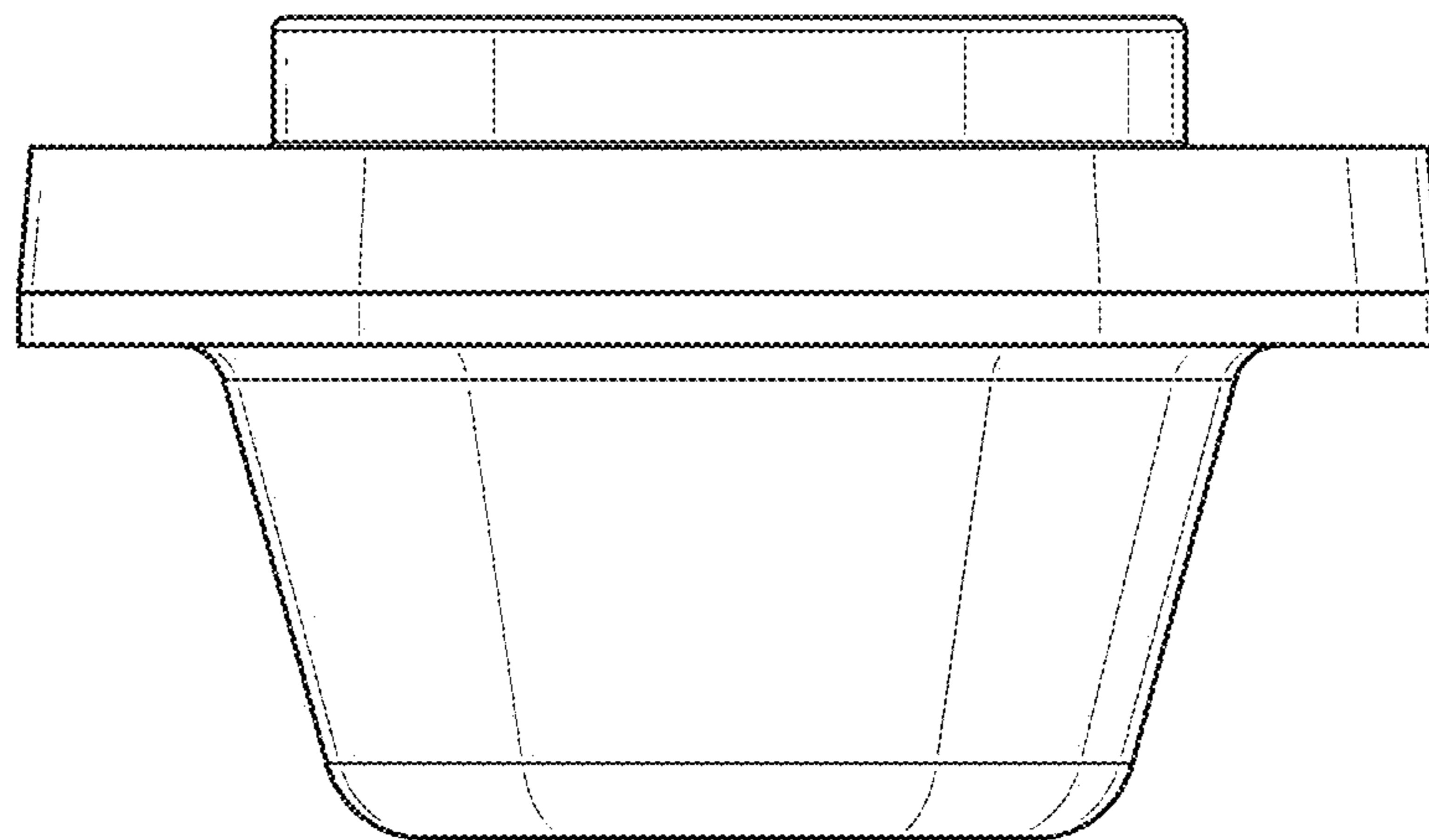


FIG. 7

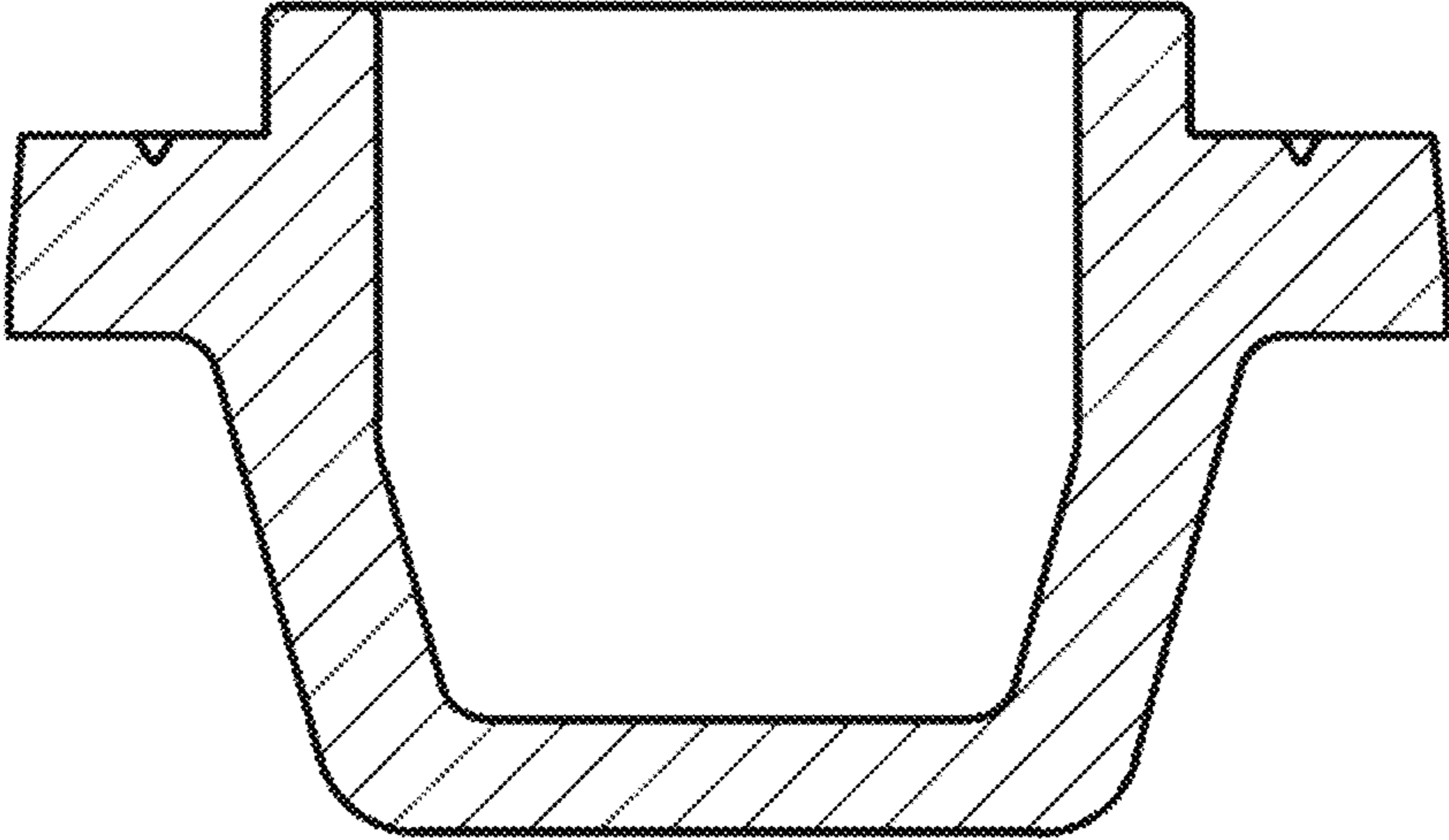


FIG. 8

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : D947,025 S
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INVENTOR(S) : Diaz et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

In the Description:

Delete "FIG. 9 is an elevational perspective view of a cap with plug seal, showing our new design;
FIG. 10 is a elevational exploded perspective view thereof;
FIG. 11 is a top perspective view thereof;
FIG. 12 is a bottom view thereof;
FIG. 13 is a front side view thereof;
FIG. 14 is a back side view thereof;
FIG. 15 is a left side view thereof;
FIG. 16 is a right side view thereof; and
FIG. 17 is a top perspective view thereof in a position of use with an exemplary vial"

Signed and Sealed this
Twentieth Day of September, 2022
Katherine Kelly Vidal

Katherine Kelly Vidal
Director of the United States Patent and Trademark Office