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

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(54) **FILTRATION DEVICE**

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(*) Notice: This patent is subject to a terminal dis-
claimer.

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

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(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/224**

(58) **Field of Classification Search**
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D23/209; 600/304, 573, 574; 422/547,
422/549, 500, 556, 557; 435/288.7,
435/308.1, 297.5, 305.2, 305.3, 288.3,
435/307.1
CPC .. B01L 2200/0647; B01L 3/502; B01L 3/508;
B01L 2300/06; B01L 2300/0829; B01L
2300/042; G01N 1/00; G01N 1/42; C12M
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,165,450 A 1/1965 Scheidt
D238,886 S 2/1976 Goy

D248,916 S 8/1978 Reynolds et al.
D249,708 S 9/1978 Smith et al.
D258,761 S 3/1981 Graham
D270,947 S * 10/1983 Mehra D23/209
D273,330 S * 4/1984 Rouch D23/209
4,495,289 A 1/1985 Lyman et al.
4,516,358 A 5/1985 Marton et al.
D284,034 S * 5/1986 Grime D24/162
D285,606 S * 9/1986 Christopherson D23/209
4,668,633 A 5/1987 Walton
D294,520 S 3/1988 Holewinski et al.
D295,319 S 4/1988 Franchere et al.
D297,366 S 8/1988 Hsei
D297,860 S * 9/1988 Leoncavallo D24/162

(Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 29/508,242, filed Nov. 4, 2014, by Wainwright et al.
(Continued)

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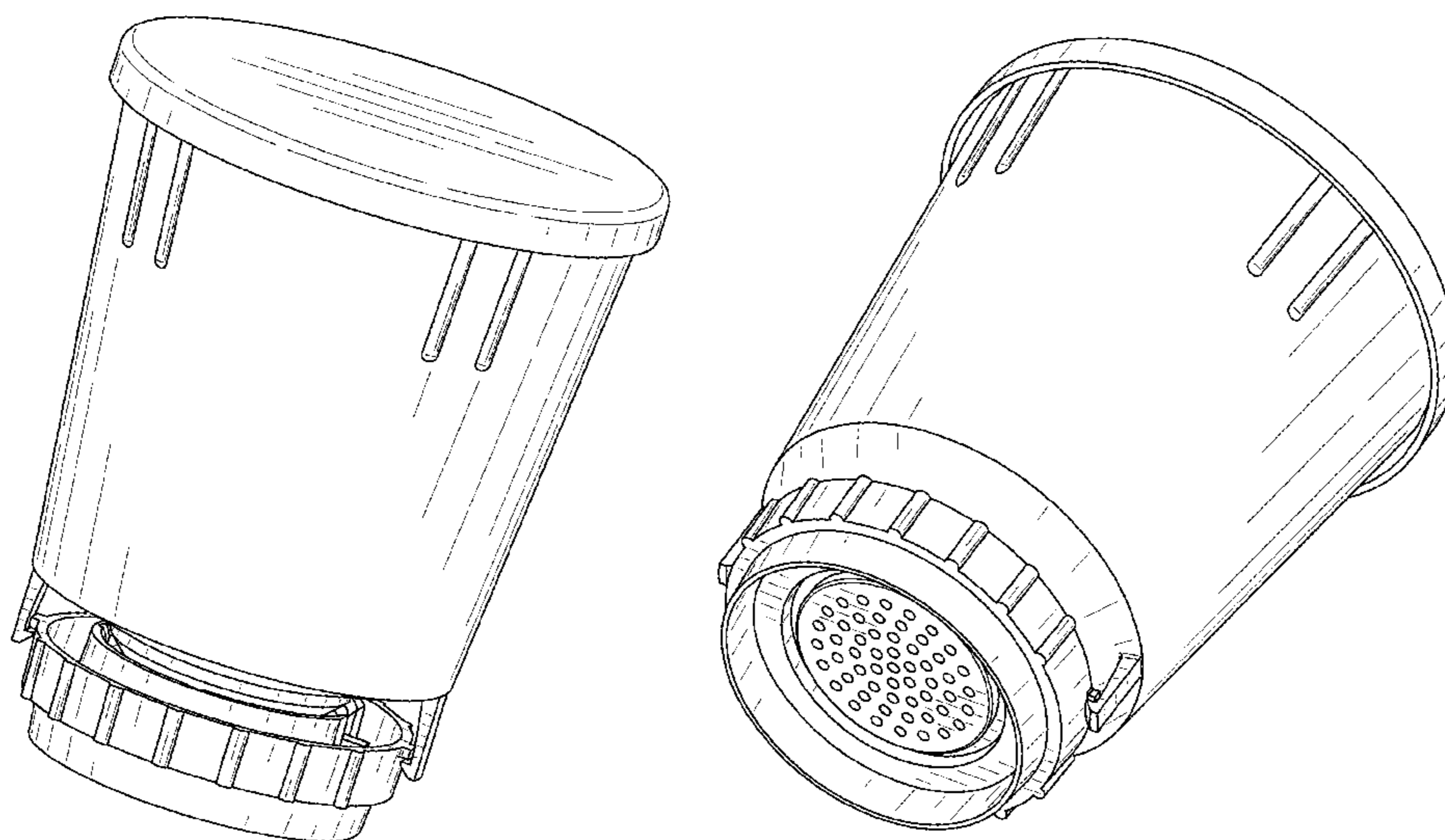
(57) **CLAIM**

The ornamental design for a filtration device, as shown and
described.

DESCRIPTION

FIG. 1 is a top perspective view of a filtration device;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a side elevation view thereof;
FIG. 4 is a top plan view thereof;
FIG. 5 is a bottom plan view thereof;
FIG. 6 is a cross-sectional view thereof taken along line 6-6
in FIG. 4; and,
FIG. 7 is a bottom perspective view thereof.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D310,123 S 8/1990 Carlson
 D315,208 S 3/1991 Valencia
 5,021,351 A 6/1991 Ervin
 D318,078 S 7/1991 Laib et al.
 5,114,057 A 5/1992 Ishikawa
 D335,677 S 5/1993 Davis et al.
 D343,682 S * 1/1994 Cattaoris D24/162
 5,366,893 A 11/1994 Stevens et al.
 D359,125 S 6/1995 Livingston
 5,505,716 A * 4/1996 Simmet A61D 19/04
 600/34
 D378,571 S 3/1997 Bastow
 D384,415 S * 9/1997 Maloney D24/162
 D404,497 S 1/1999 Lahm et al.
 D407,491 S 3/1999 Rocha
 D411,308 S 6/1999 Pandey et al.
 D424,076 S 5/2000 Dibbern et al.
 D430,304 S 8/2000 Oonuma et al.
 D435,906 S 1/2001 Wilkinson et al.
 6,358,730 B1 3/2002 Kane
 D465,282 S 11/2002 Cecchi
 D467,485 S 12/2002 Daniels et al.
 D472,636 S * 4/2003 Haynes D24/216
 D475,461 S * 6/2003 Takagi D24/162
 D476,857 S 7/2003 Holsinger
 6,730,510 B2 5/2004 Roos et al.
 D499,035 S 11/2004 Cook et al.
 D509,121 S 9/2005 Hede
 D526,413 S * 8/2006 Baker D24/164
 D542,931 S 5/2007 Pukall et al.
 D546,626 S 7/2007 Chou
 D563,560 S 3/2008 Copeland
 7,393,694 B1 7/2008 Schlein et al.
 D578,654 S * 10/2008 Chianea D24/224
 D583,238 S 12/2008 Chen
 D602,558 S * 10/2009 Beams D23/209
 D612,688 S 3/2010 Bardolet
 D618,819 S 6/2010 Wilkinson et al.
 D620,310 S 7/2010 Lundberg
 D623,764 S 9/2010 Py et al.
 D629,120 S * 12/2010 Lafond D24/224
 D630,338 S 1/2011 Lafond
 D634,429 S * 3/2011 Nordgren D24/164
 D637,733 S 5/2011 Wei
 7,977,090 B2 7/2011 Hicks
 D648,762 S 11/2011 Mack
 D649,075 S 11/2011 Chan et al.

8,163,540 B2 4/2012 Acosta
 8,168,443 B2 5/2012 Yu et al.
 D674,505 S 1/2013 Cecchi
 D678,516 S 3/2013 Wong
 D687,561 S 8/2013 Iseki
 D692,556 S * 10/2013 Winter D24/110.6
 D693,467 S * 11/2013 Doucette D24/162
 D693,939 S 11/2013 Iseki
 D695,416 S 12/2013 Saliaris
 D698,939 S 2/2014 Wainwright et al.
 D698,940 S 2/2014 Pribenszky
 D701,426 S 3/2014 Cornish
 D703,343 S 4/2014 Biswas et al.
 D704,854 S 5/2014 Wainwright et al.
 D705,438 S 5/2014 Wainwright et al.
 D705,439 S 5/2014 Wainwright et al.
 D717,352 S 11/2014 Manian
 D717,460 S 11/2014 Manian
 D717,462 S * 11/2014 Wainwright D24/224
 D717,463 S 11/2014 Wainwright et al.
 D717,464 S 11/2014 Wainwright et al.
 D719,666 S 12/2014 Manian
 D719,667 S 12/2014 Manian
 D724,755 S 3/2015 Wainwright et al.
 D726,929 S 4/2015 Wainwright et al.
 D728,816 S 5/2015 Wainwright et al.
 D745,679 S * 12/2015 Verri D24/162
 D759,836 S * 6/2016 Wainwright D24/216
 D759,837 S * 6/2016 Wainwright D24/224
 2004/0146965 A1 7/2004 Brayton
 2006/0172412 A1 8/2006 Perrier et al.
 2006/0240549 A1 10/2006 Minton
 2007/0110617 A1 5/2007 Nagai et al.
 2008/0026419 A1 1/2008 Bottlang et al.
 2011/0097790 A1 4/2011 Yerbic
 2012/0058553 A1 * 3/2012 Haywood B01L 3/502
 422/547
 2013/0093144 A1 4/2013 Bordeianu et al.
 2013/0323745 A1 12/2013 Wainwright et al.
 2014/0123597 A1 5/2014 Mallett et al.

OTHER PUBLICATIONS

U.S. Appl. No. 29/509,191, filed Nov. 14, 2014, by Wainwright et al.
 U.S. Appl. No. 29/508,248, filed Nov. 4, 2014, by Wainwright et al.
 U.S. Appl. No. 29/508,263, filed Nov. 4, 2014, by Wainwright et al.
 U.S. Appl. No. 29/508,264, filed Nov. 4, 2014, by Wainwright et al.

* cited by examiner

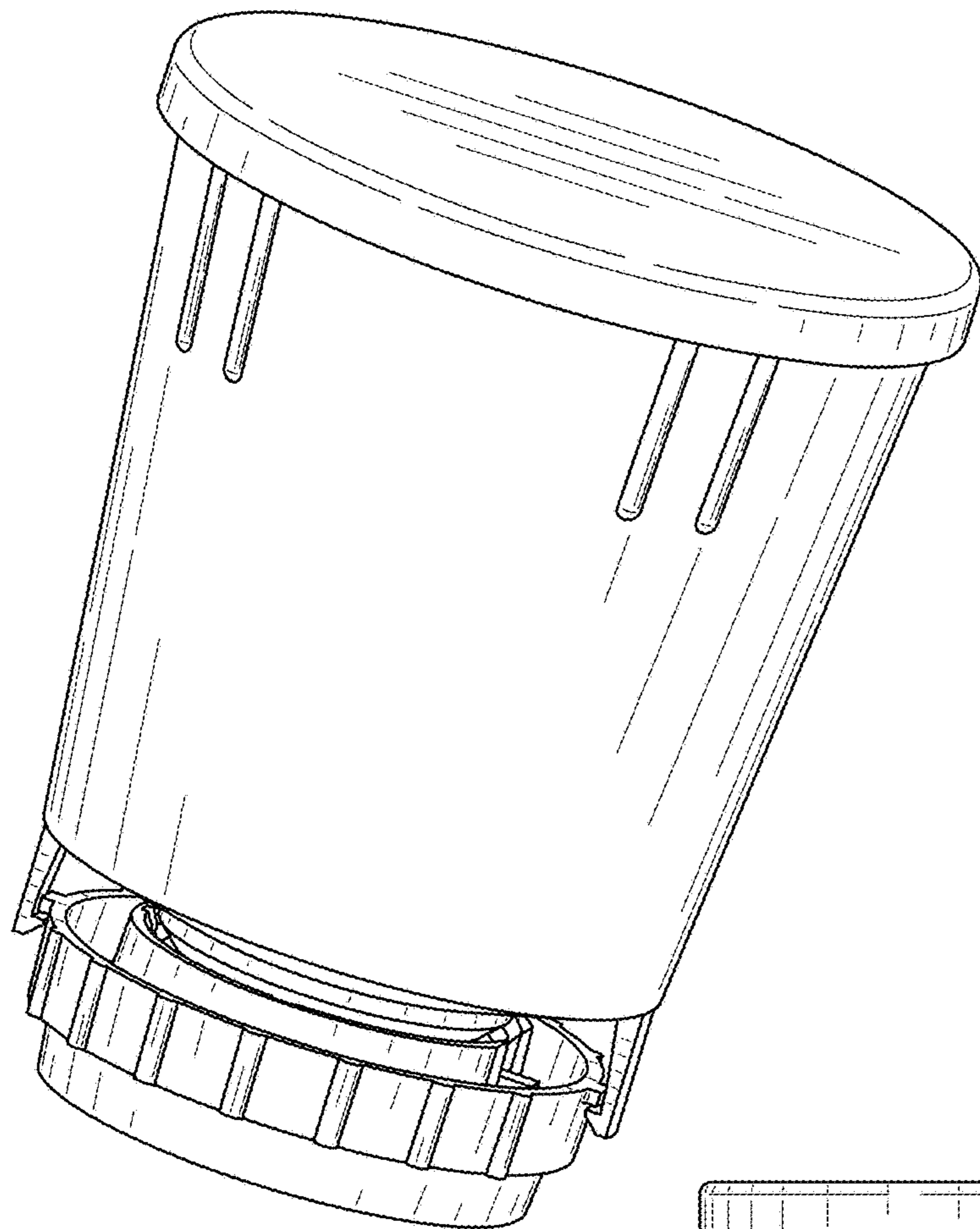


FIG. 1

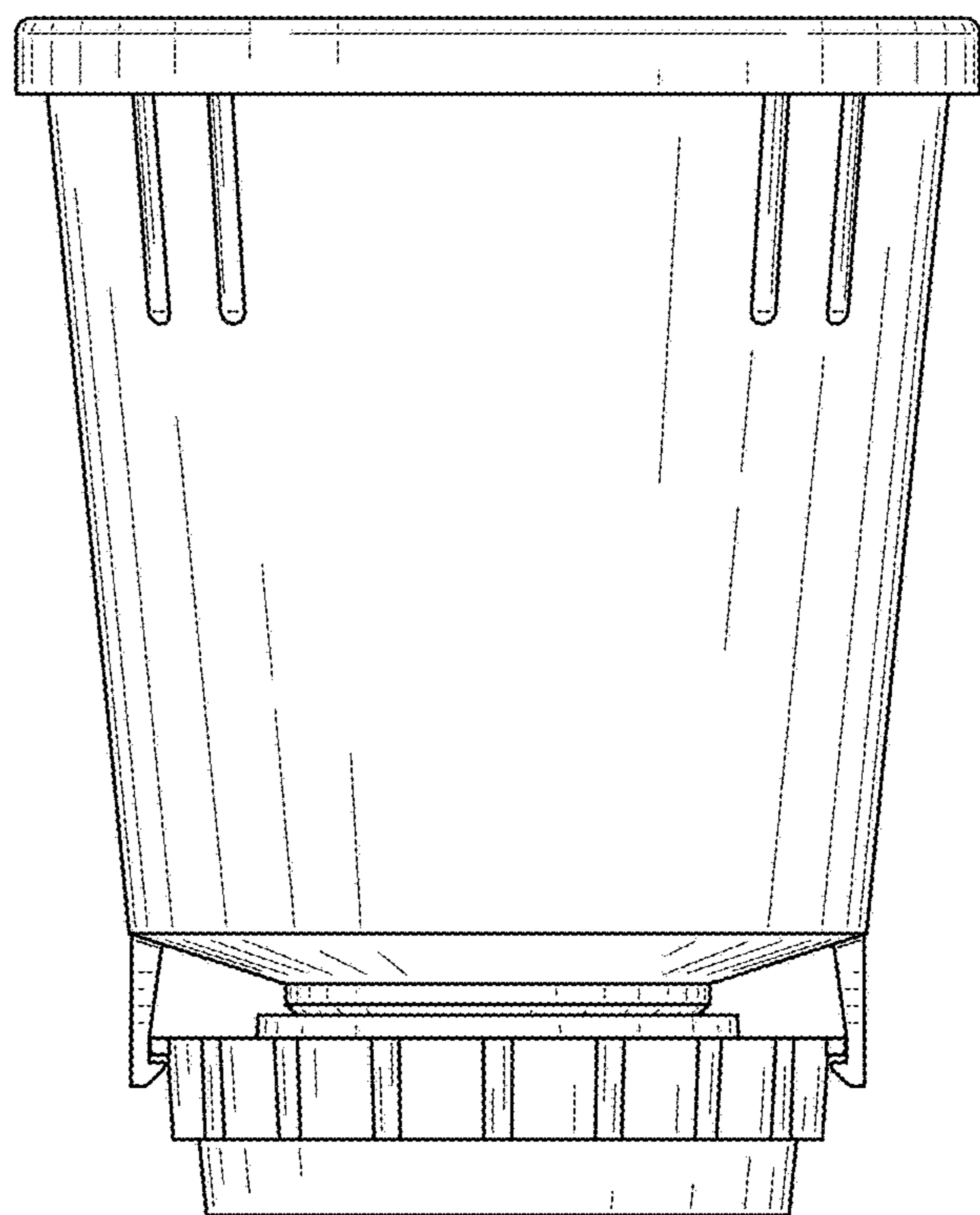


FIG. 2

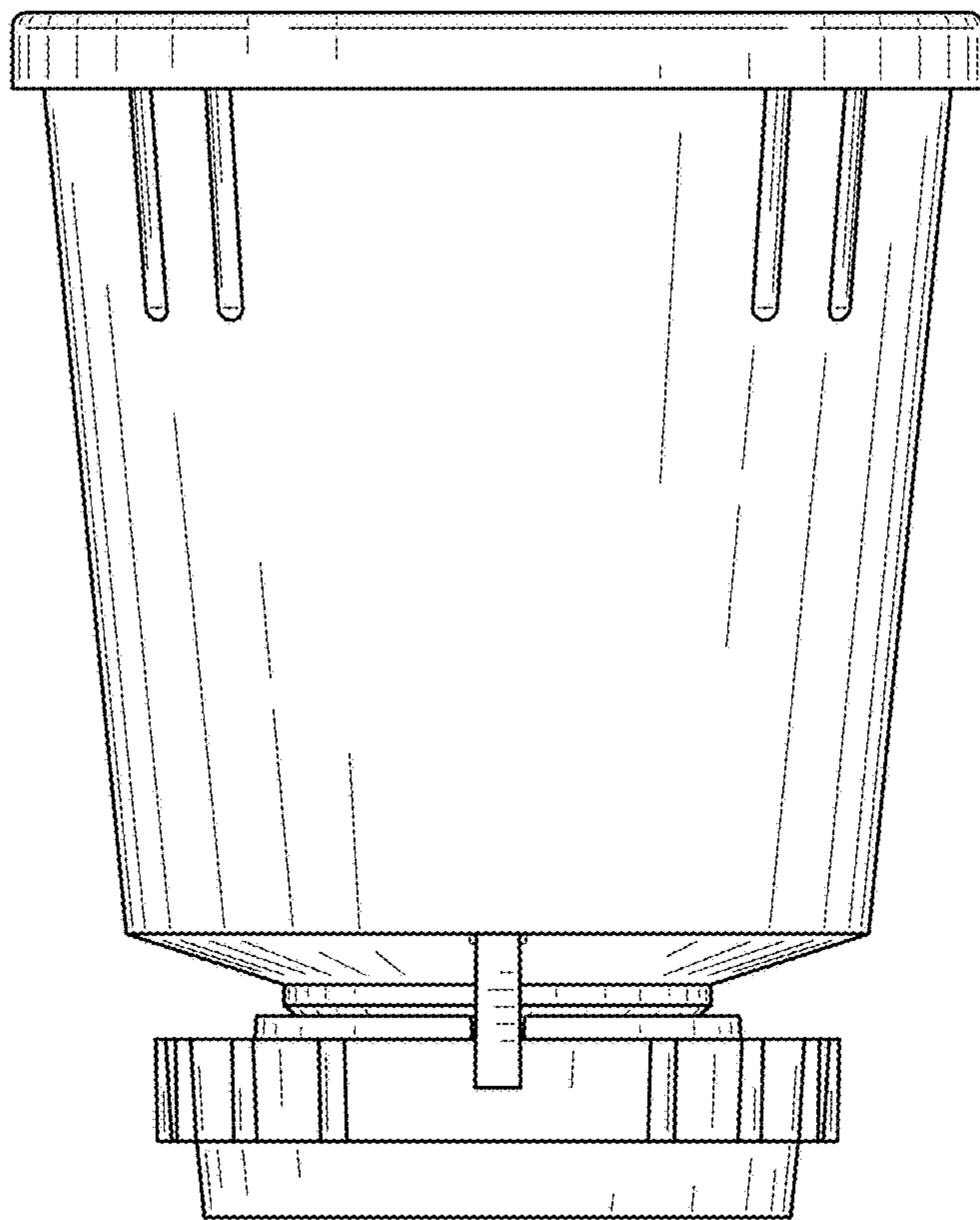


FIG. 3

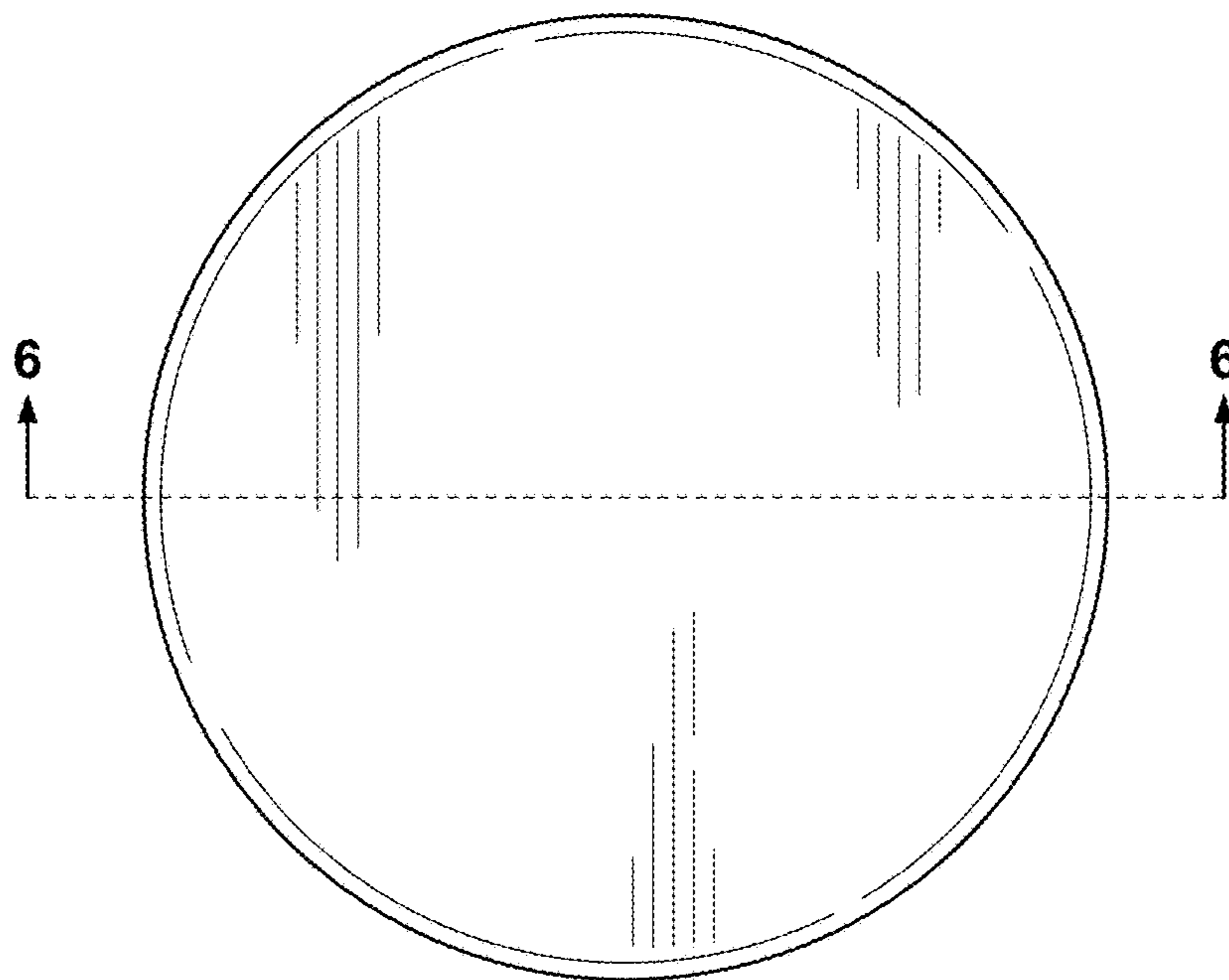


FIG. 4

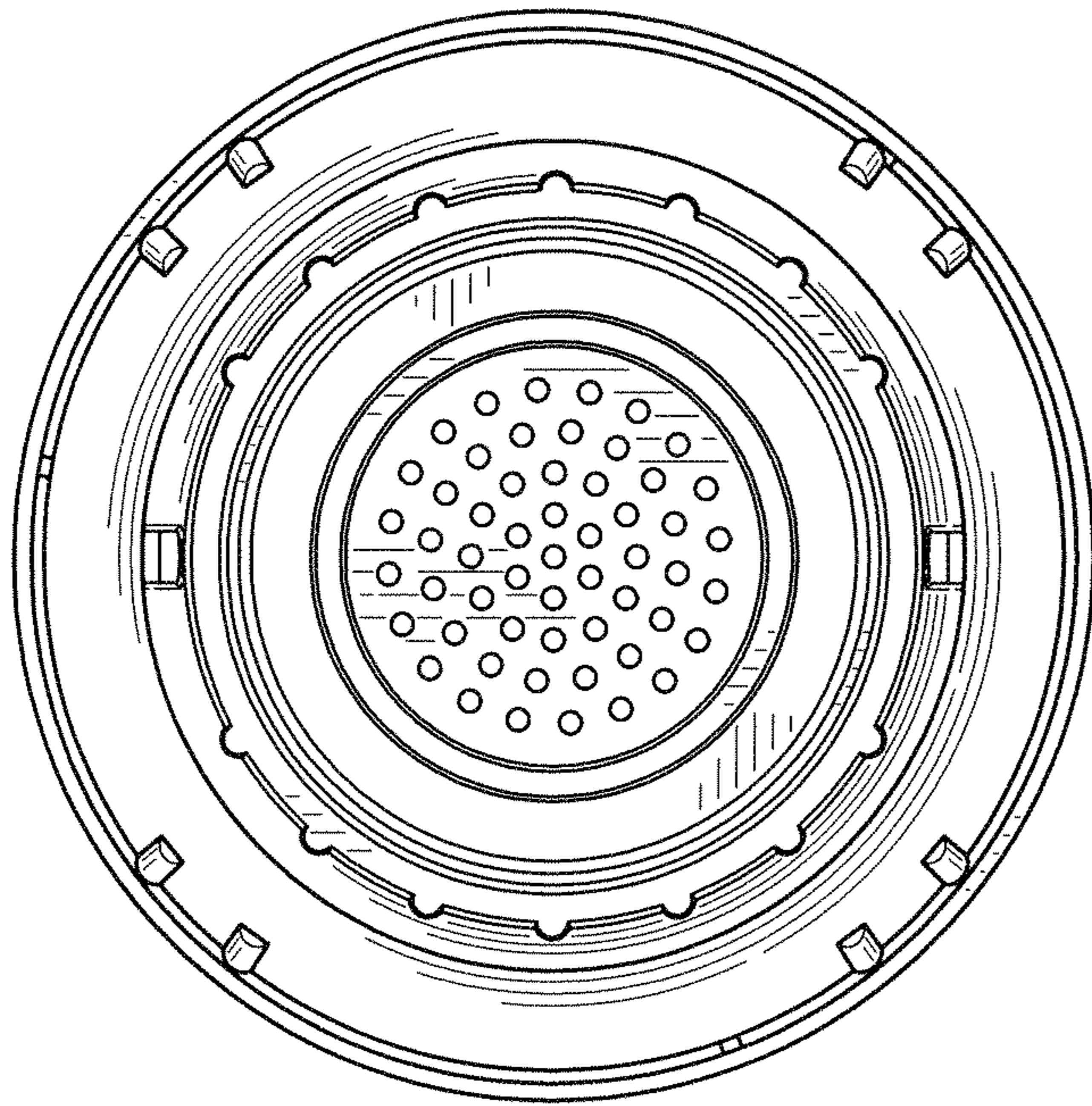


FIG. 5

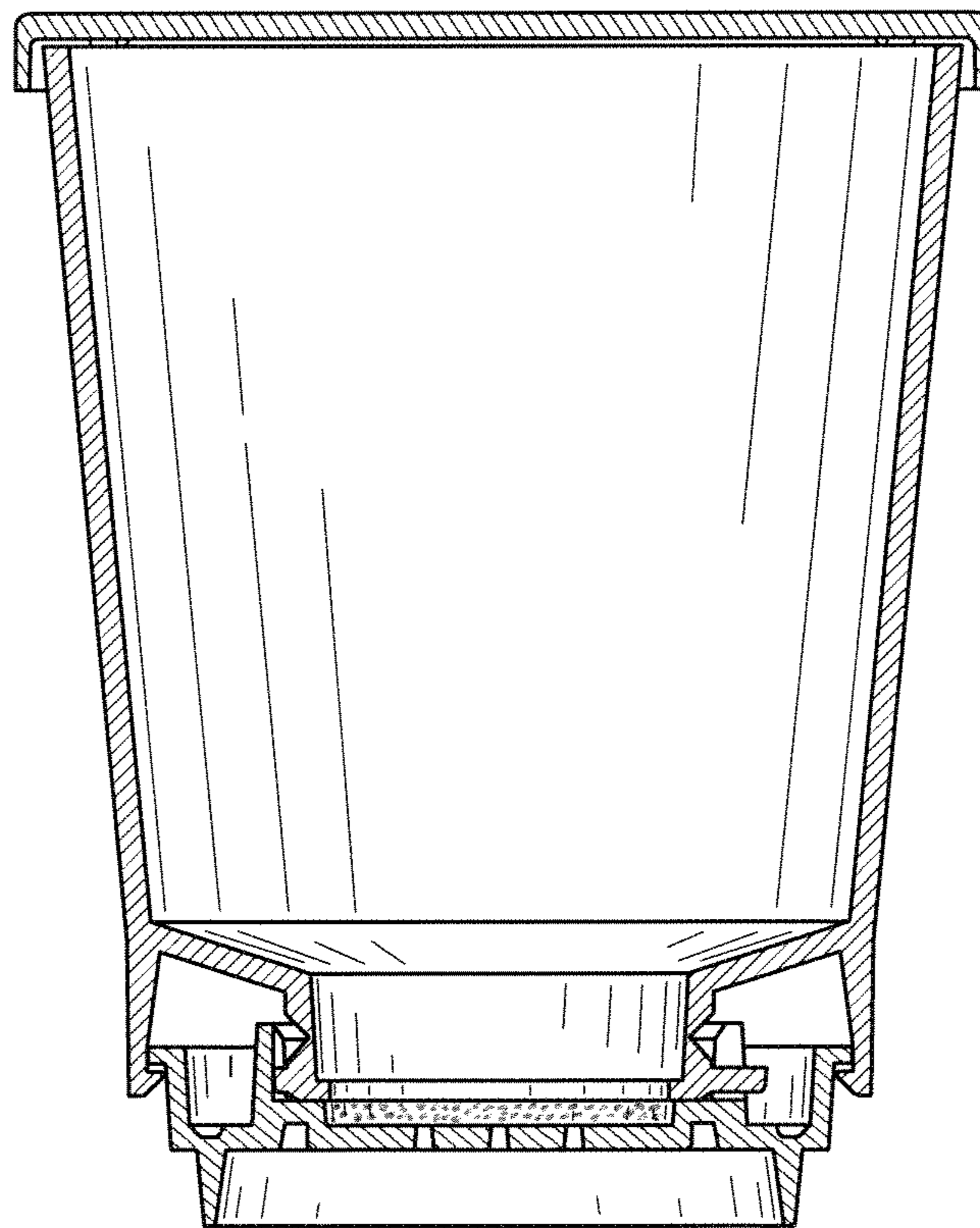


FIG. 6

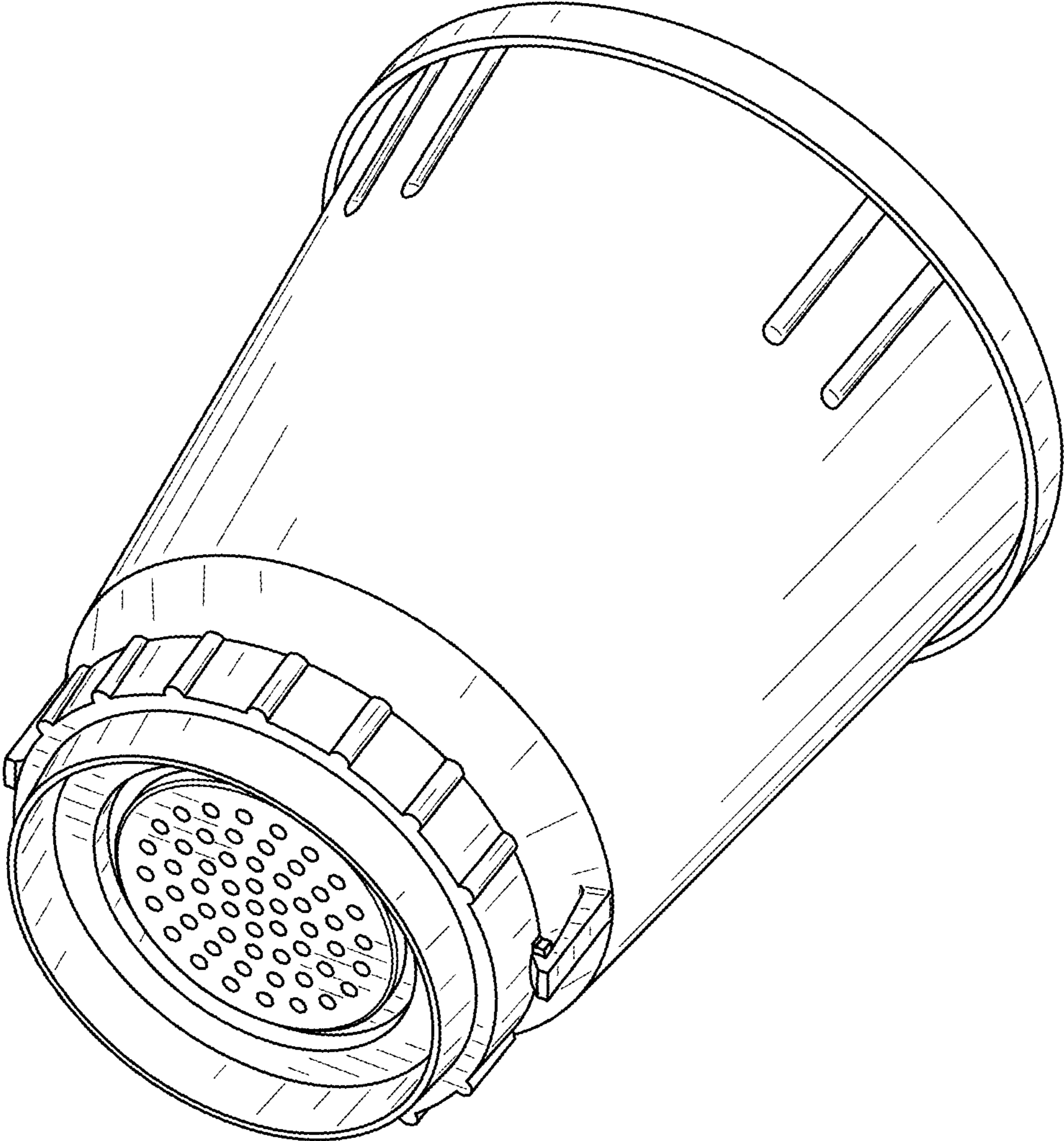


FIG. 7