



US00D846346S

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

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(54) **FILTER CONE**  
(71) Applicant: **Sanyo Sangyo Co., Ltd.**, Oita (JP)  
(72) Inventor: **Shigeji Nakatsuka**, Oita (JP)  
(73) Assignee: **Sanyo Sangyo Co., Ltd.**, Oita (JP)  
(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/608,764**  
(22) Filed: **Jun. 26, 2017**

5,685,352 A \* 11/1997 Faught ..... B67C 11/02  
141/331  
D396,603 S \* 8/1998 Gasser ..... D7/400  
5,792,356 A \* 8/1998 Yuan ..... B01D 29/085  
210/473  
D402,169 S \* 12/1998 Hestehave ..... D7/700  
D424,437 S \* 5/2000 Smith ..... D7/700  
D527,223 S \* 8/2006 Thun ..... D7/523  
D558,516 S \* 1/2008 Bulala ..... D7/387  
D567,020 S \* 4/2008 Bodum ..... D7/387  
D729,005 S \* 5/2015 Lee ..... D7/399  
D754,495 S \* 4/2016 Cotter ..... D7/667

(30) **Foreign Application Priority Data**  
Feb. 13, 2017 (JP) ..... 2017-002600  
(51) **LOC (11) Cl.** ..... **07-01**  
(52) **U.S. Cl.**  
USPC ..... **D7/400; D7/700**  
(58) **Field of Classification Search**  
USPC ..... D7/399, 400, 300, 309, 310, 700;  
99/300; D9/429  
CPC ..... A47J 31/02; A47J 31/08; A47J 31/005;  
A47J 31/061  
See application file for complete search history.

**FOREIGN PATENT DOCUMENTS**

JP 3206810 U 9/2016

\* cited by examiner

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(57) **CLAIM**

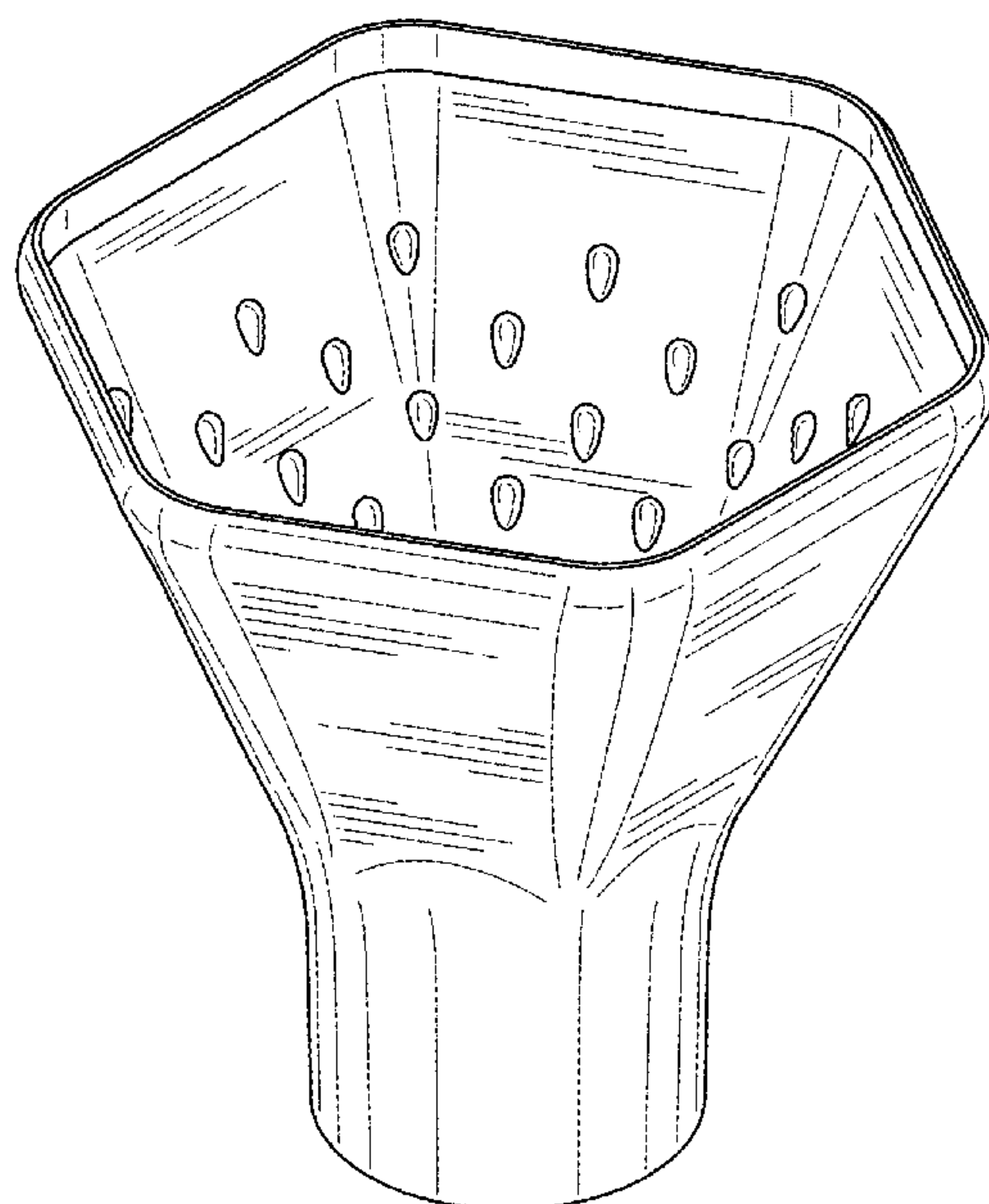
The ornamental design for a filter cone, as shown and described.

**DESCRIPTION**

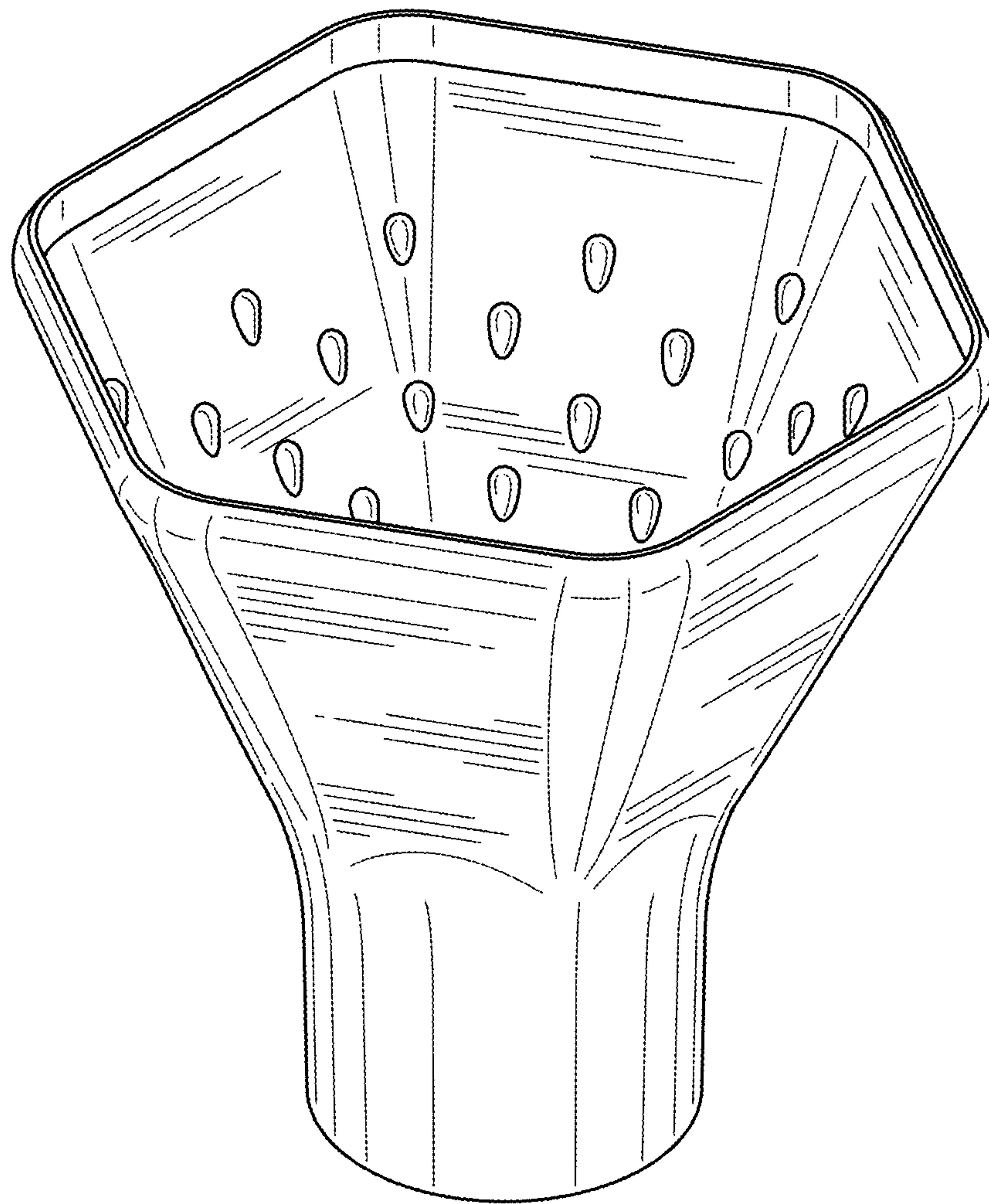
FIG. 1 is a top, side perspective view of the filter cone;  
FIG. 2 is a bottom, side perspective view thereof;  
FIG. 3 is a front side view thereof;  
FIG. 4 is a rear side view thereof;  
FIG. 5 is a top view thereof;  
FIG. 6 is a bottom view thereof;  
FIG. 7 is a right side view thereof;  
FIG. 8 is a left side view thereof; and,  
FIG. 9 is a sectional view of the filter cone, taken along line 9-9 of FIG. 3.

(56) **References Cited**  
**U.S. PATENT DOCUMENTS**  
1,188,640 A \* 6/1916 Fisher ..... B01D 17/045  
210/300  
2,061,119 A \* 11/1936 Voigt ..... A47J 31/0631  
210/455  
D158,693 S \* 5/1950 Salsbury, Jr. .... D7/700  
D250,804 S \* 1/1979 Nilsson ..... D7/400  
4,832,845 A \* 5/1989 Hendretti ..... A47J 31/02  
210/455

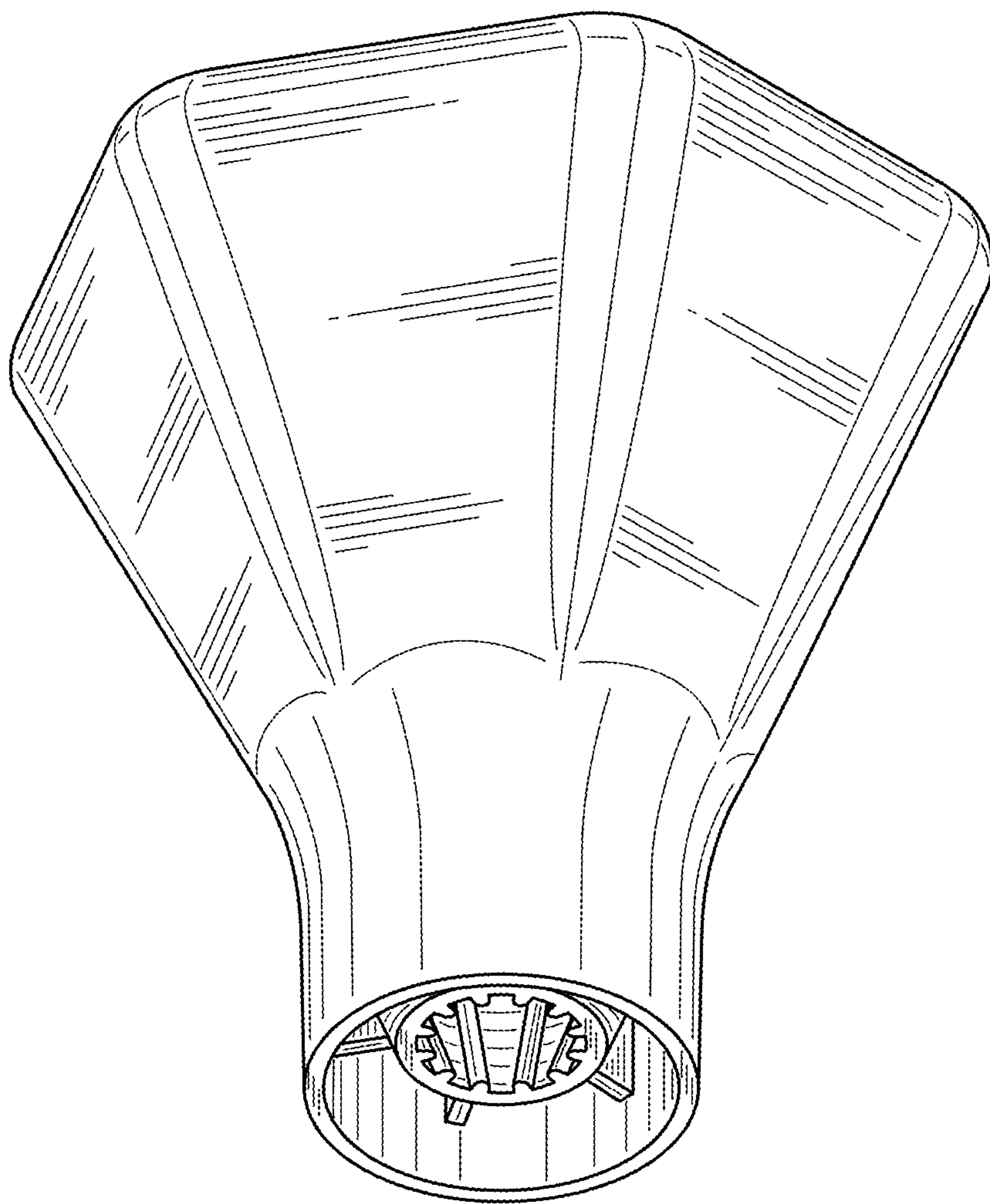
**1 Claim, 9 Drawing Sheets**



**FIG. 1**

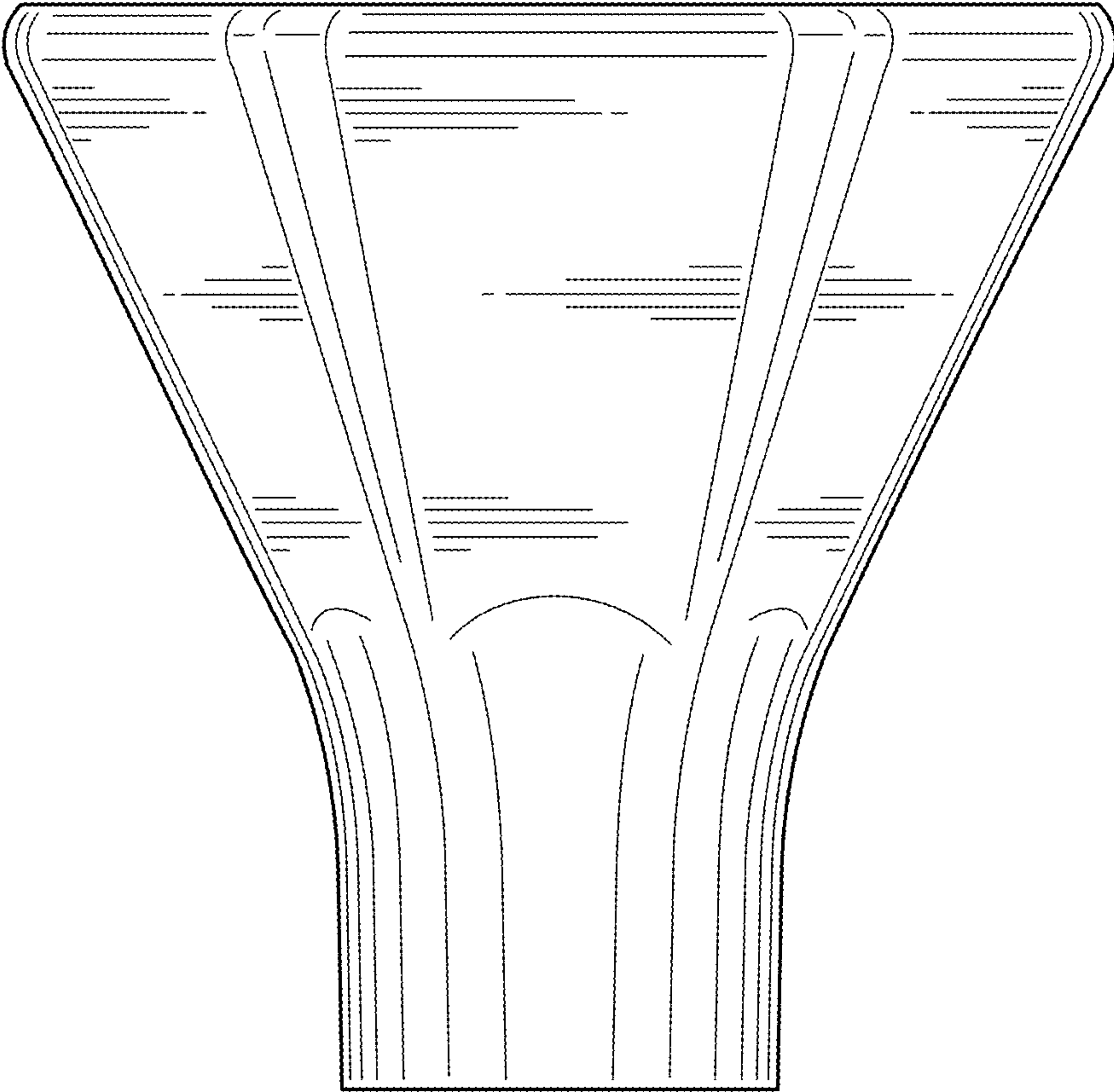


**FIG. 2**



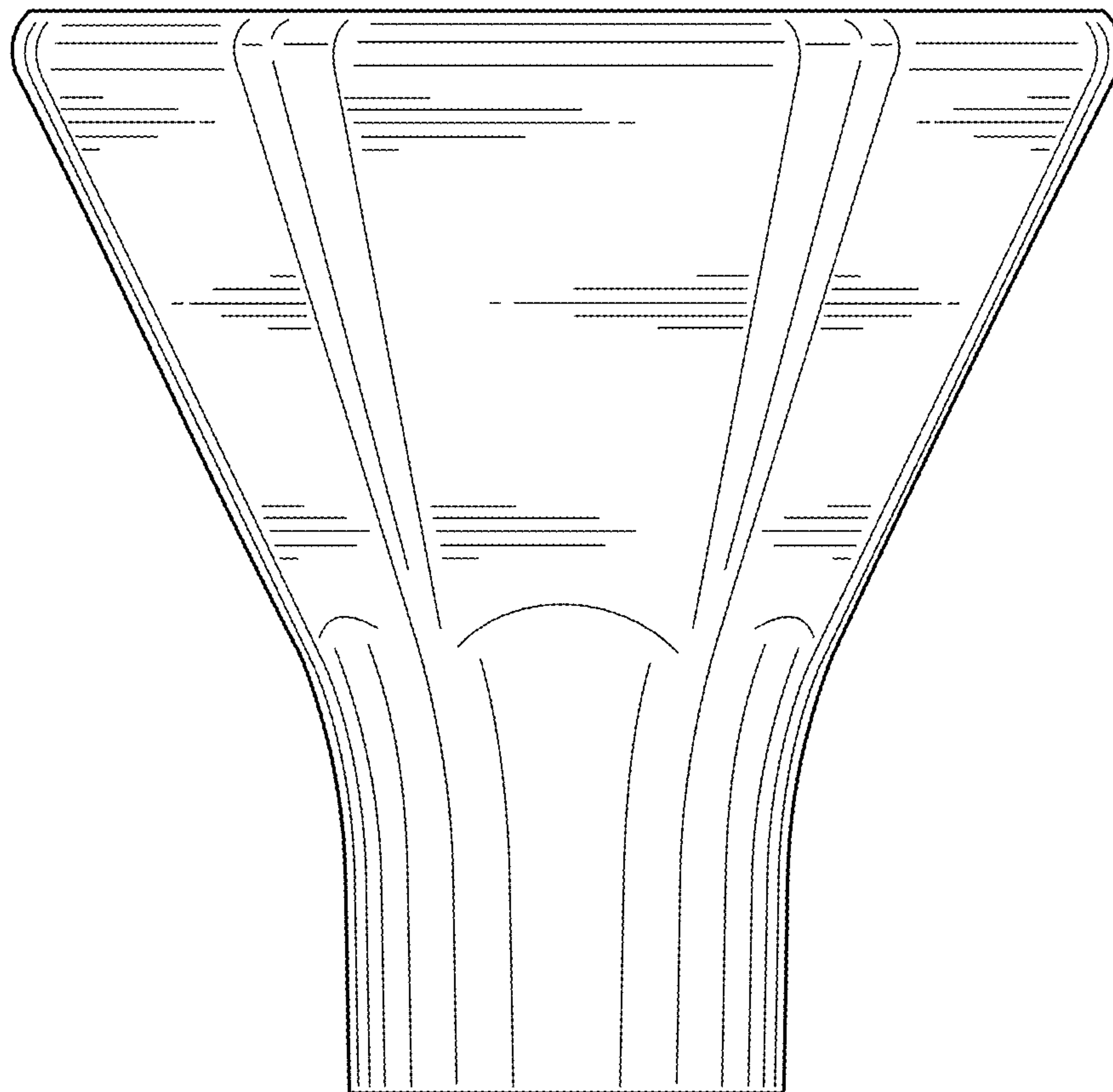
**FIG. 3**

9 ←



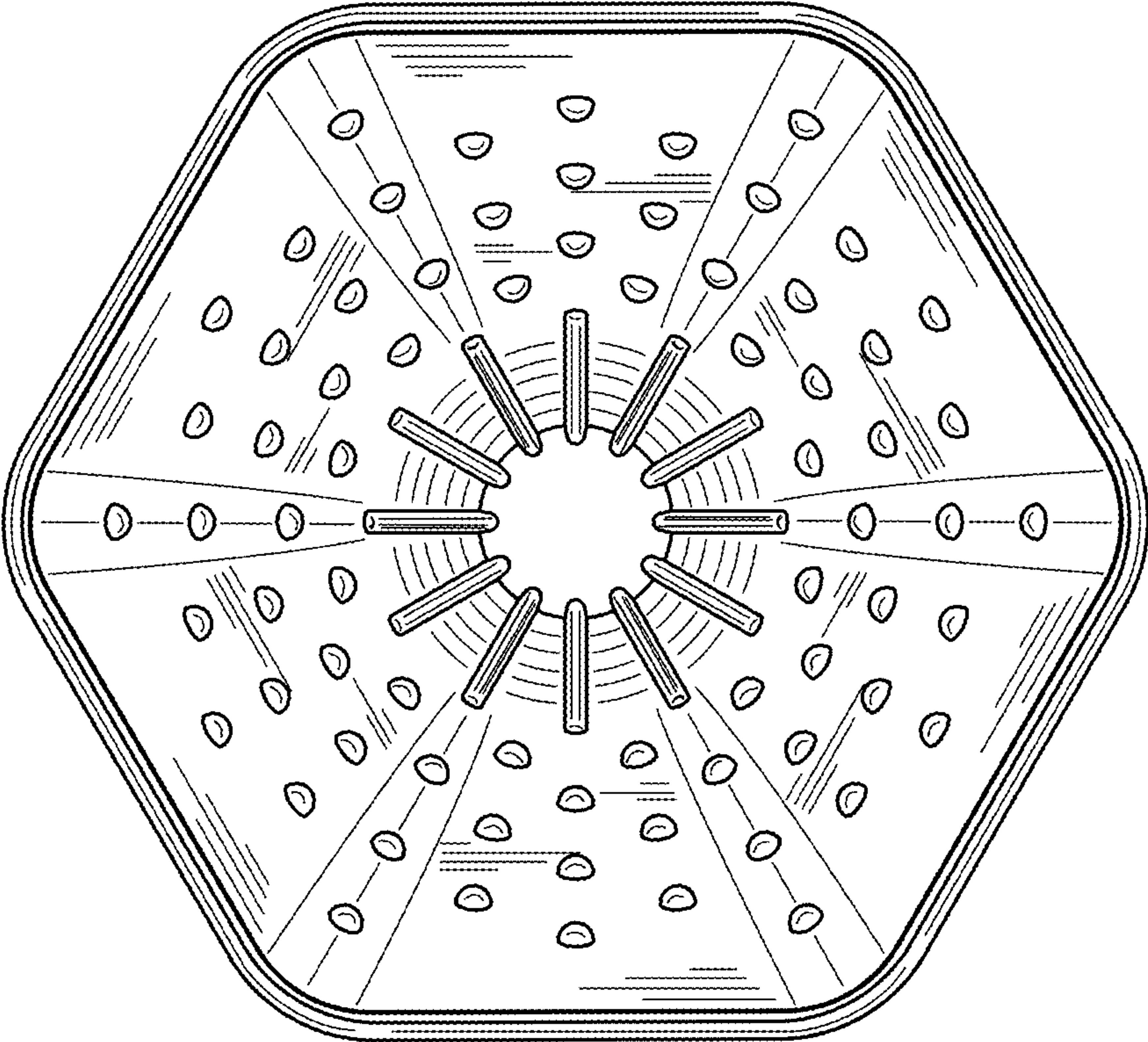
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**FIG. 4**

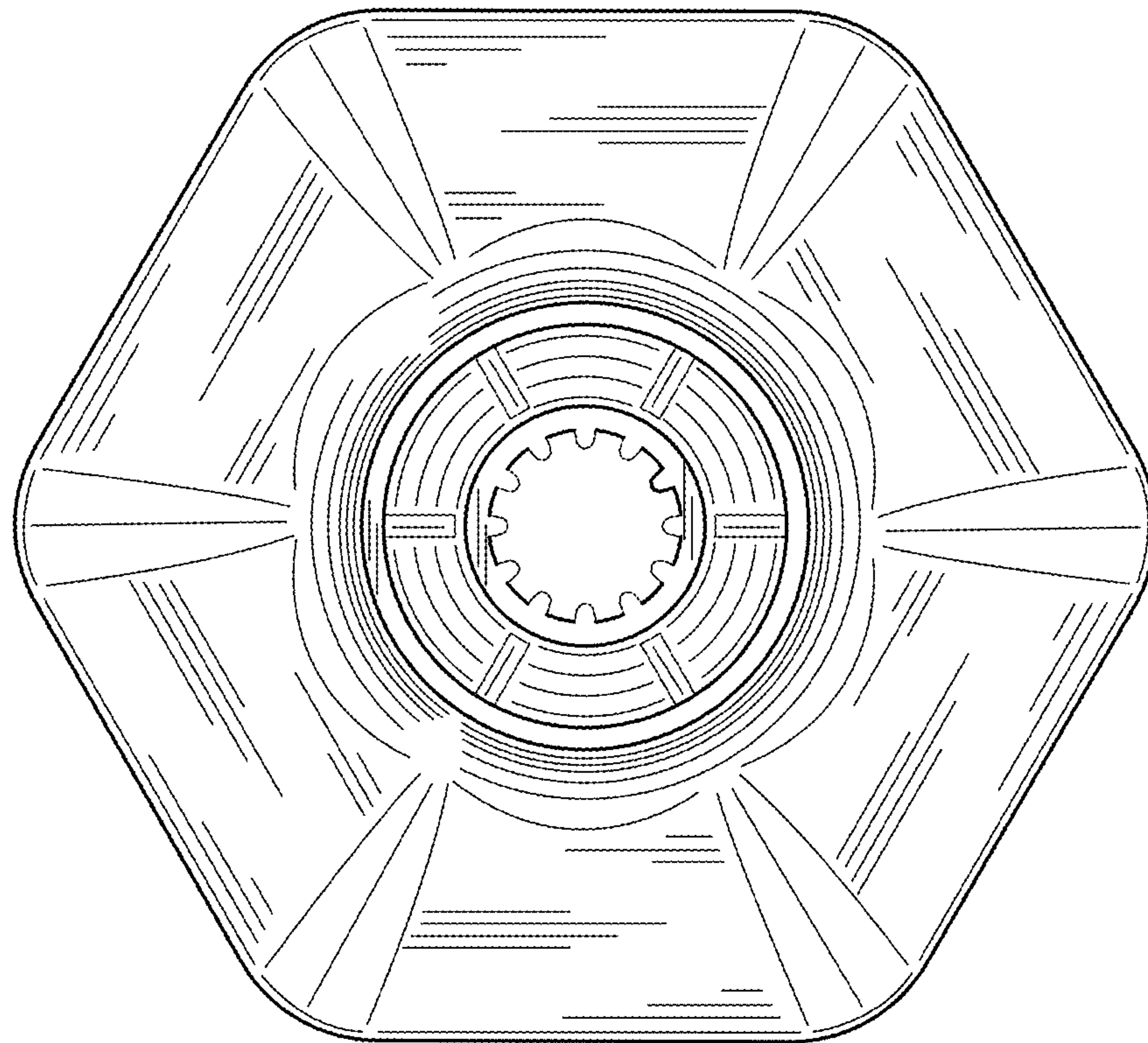




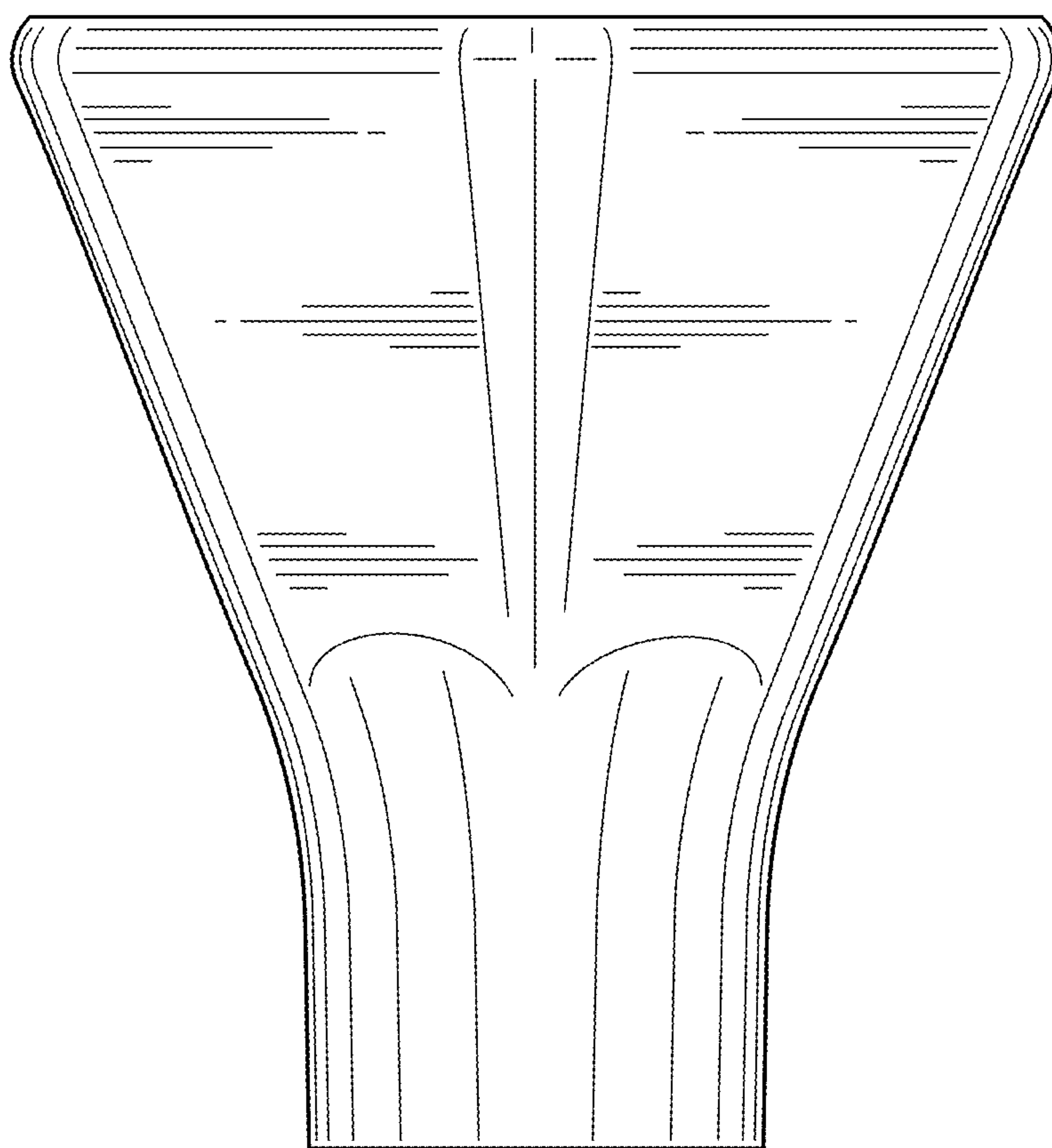
**FIG. 5**



***FIG. 6***

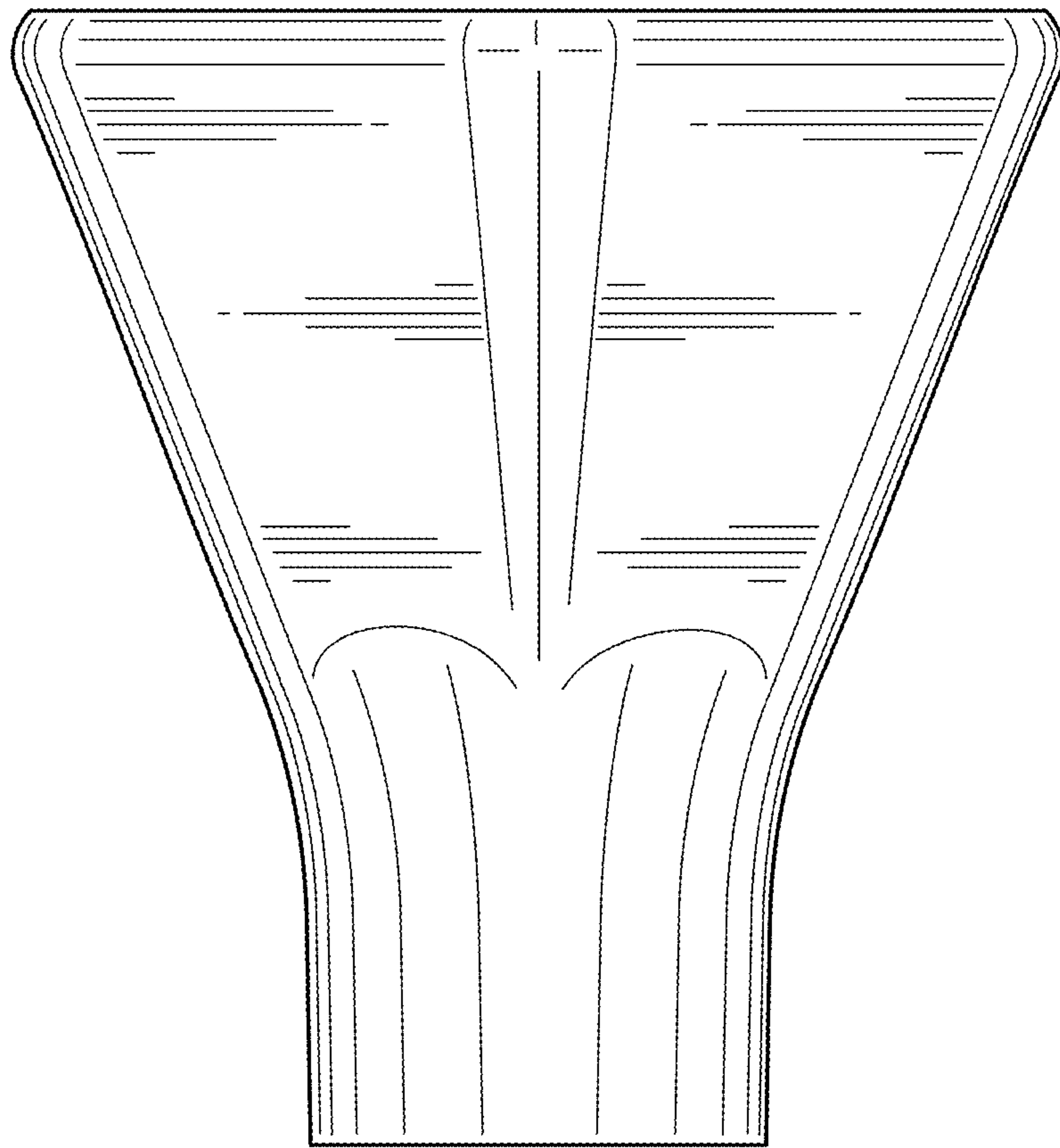


***FIG. 7***





***FIG. 8***



**FIG. 9**

