

US00D666704S

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

(10) **Patent No.:** **US D666,704 S**  
(45) **Date of Patent:** **\*\* Sep. 4, 2012**

(54) **FILTER CARTRIDGE**  
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4,243,397 A 1/1981 Tokar et al.  
4,314,832 A 2/1982 Fox  
4,365,980 A 12/1982 Culbert et al.  
4,402,830 A 9/1983 Pall

(Continued)

(73) Assignee: **Donaldson Company, Inc.**,  
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FOREIGN PATENT DOCUMENTS

EP 329659 8/1989

(Continued)

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

OTHER PUBLICATIONS

Pending claims corresponding to U.S. Appl. No. 12/454,230.

(21) Appl. No.: **29/403,205**

(Continued)

(22) Filed: **Oct. 3, 2011**

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**Related U.S. Application Data**

(63) Continuation of application No. 29/308,264, filed on  
Jun. 6, 2008, now Pat. No. Des. 646,368.

(51) **LOC (9) Cl.** ..... **23-04**

(52) **U.S. Cl.** ..... **D23/365**

(58) **Field of Classification Search** ..... D23/365,  
D23/363, 358, 386, 354, 341, 364, 366, 351,  
D23/393, 269, 262, 370; 55/385.3, 502,  
55/497, 506, 505, 521, 495, 422, 493, DIG. 30,  
55/DIG. 3; 210/497.1; D15/5; 239/44; 96/52;  
454/270; 277/606

See application file for complete search history.

(57) **CLAIM**

The ornamental design for filter cartridge, as shown and  
described.

**DESCRIPTION**

FIG. 1 is a top perspective view of a filter cartridge according  
to the present design.

FIG. 2 is a first side elevational view of the filter cartridge of  
FIG. 1.

FIG. 3 is a second side elevational view, taken of a side  
opposite FIG. 2.

FIG. 4 is a third side elevational view, taken from the right  
toward the left with respect to the view of FIG. 2.

FIG. 5 is a fourth side elevational view opposite the view of  
FIG. 4.

FIG. 6 is a top plan view of the filter cartridge of FIG. 1; and,  
FIG. 7 is a bottom plan view of the filter cartridge of FIG. 1.

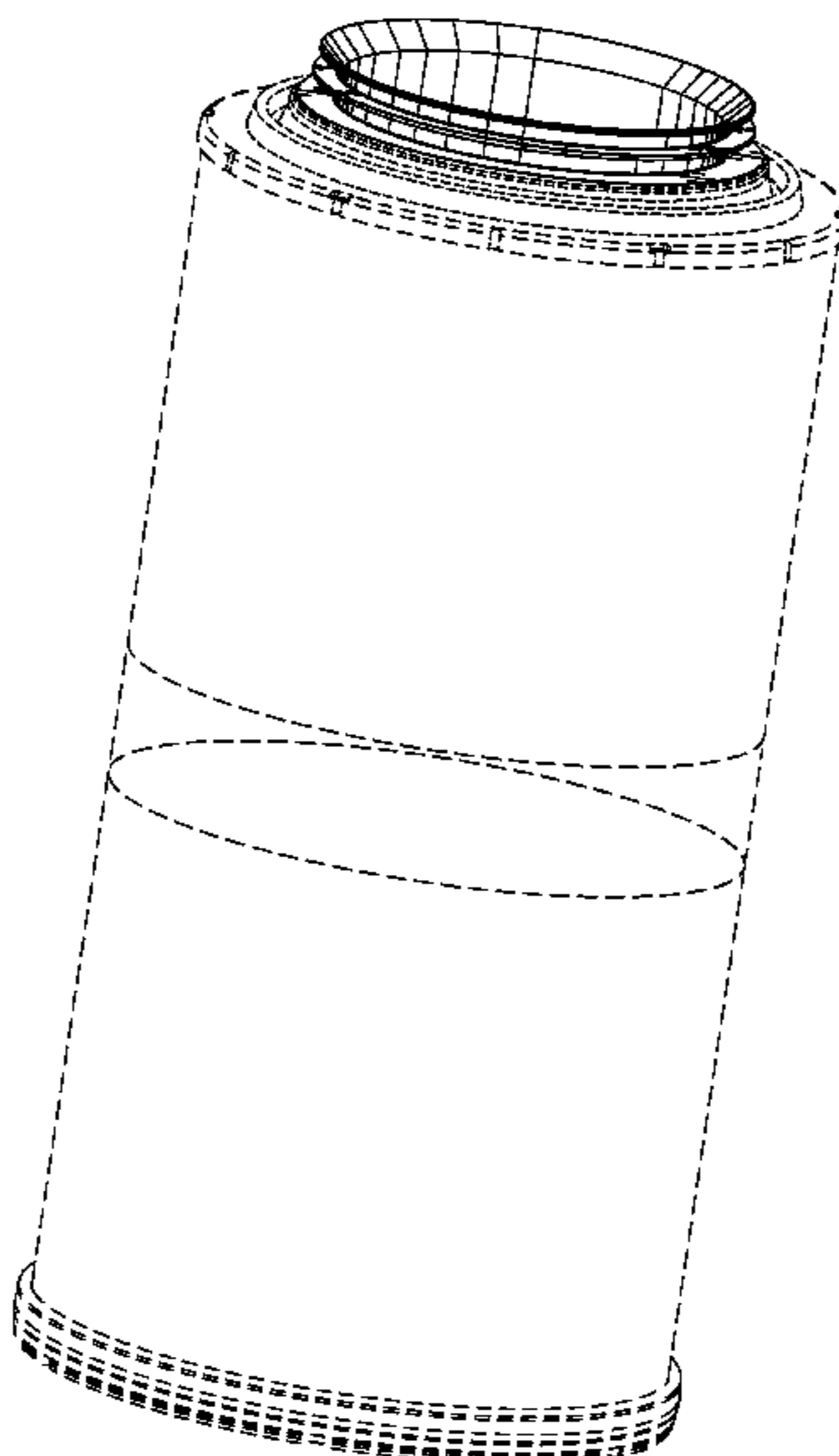
The broken lines in the drawings form no part of the claimed  
design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,962,121 A 11/1960 Wilber  
3,147,100 A 9/1964 Wilber  
3,201,927 A 8/1965 Wächter  
3,295,680 A 1/1967 Wilber  
4,007,941 A \* 2/1977 Stancati ..... 277/606  
4,135,899 A 1/1979 Gauer  
4,138,234 A 2/1979 Kubesa  
4,159,197 A 6/1979 Schuler et al.  
4,211,543 A 7/1980 Tokar et al.

**1 Claim, 7 Drawing Sheets**



# US D666,704 S

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## U.S. PATENT DOCUMENTS

4,443,237 A 4/1984 Ulvestad  
4,491,460 A 1/1985 Tokar  
4,609,465 A 9/1986 Miller  
D289,078 S \* 3/1987 Vassallo et al. .... D23/269  
4,720,292 A 1/1988 Engel et al.  
5,474,337 A 12/1995 Nepsund et al.  
5,613,992 A 3/1997 Engel  
D386,246 S \* 11/1997 Sonden et al. .... D23/262  
5,730,769 A 3/1998 Dungs et al.  
5,779,903 A 7/1998 Smith et al.  
5,938,804 A 8/1999 Engel et al.  
5,954,849 A 9/1999 Berkhoel et al.  
5,972,063 A 10/1999 Dudrey et al.  
D427,668 S \* 7/2000 Stout, Jr. .... D23/262  
D427,673 S \* 7/2000 Stout, Jr. .... D23/393  
D435,090 S \* 12/2000 Stout, Jr. .... D23/269  
D437,034 S \* 1/2001 Stout, Jr. .... D23/269  
6,187,073 B1 2/2001 Gieseke et al.  
6,358,292 B1 \* 3/2002 Clements ..... 55/505  
D475,447 S \* 6/2003 Stout, Jr. .... D23/393

D475,449 S \* 6/2003 Stout, Jr. .... D23/393  
D475,780 S \* 6/2003 Stout, Jr. .... D23/393  
6,652,614 B2 11/2003 Gieseke et al.  
D534,253 S \* 12/2006 Sandman et al. .... D23/269  
7,303,604 B2 \* 12/2007 Gieseke et al. .... 55/385.3  
D646,368 S 10/2011 Osendorf et al.  
2008/0041026 A1 2/2008 Engel et al.  
2008/0066435 A1 3/2008 Engel et al.  
2010/0037570 A1 2/2010 Osendorf et al.

## FOREIGN PATENT DOCUMENTS

GB 2 005 777 4/1979  
JP 6-193524 7/1994  
JP 6-207561 7/1994  
WO WO 93/10881 6/1996

## OTHER PUBLICATIONS

Pending Claims in U.S. Appl. No. 12/454,230.

\* cited by examiner

FIG. 1

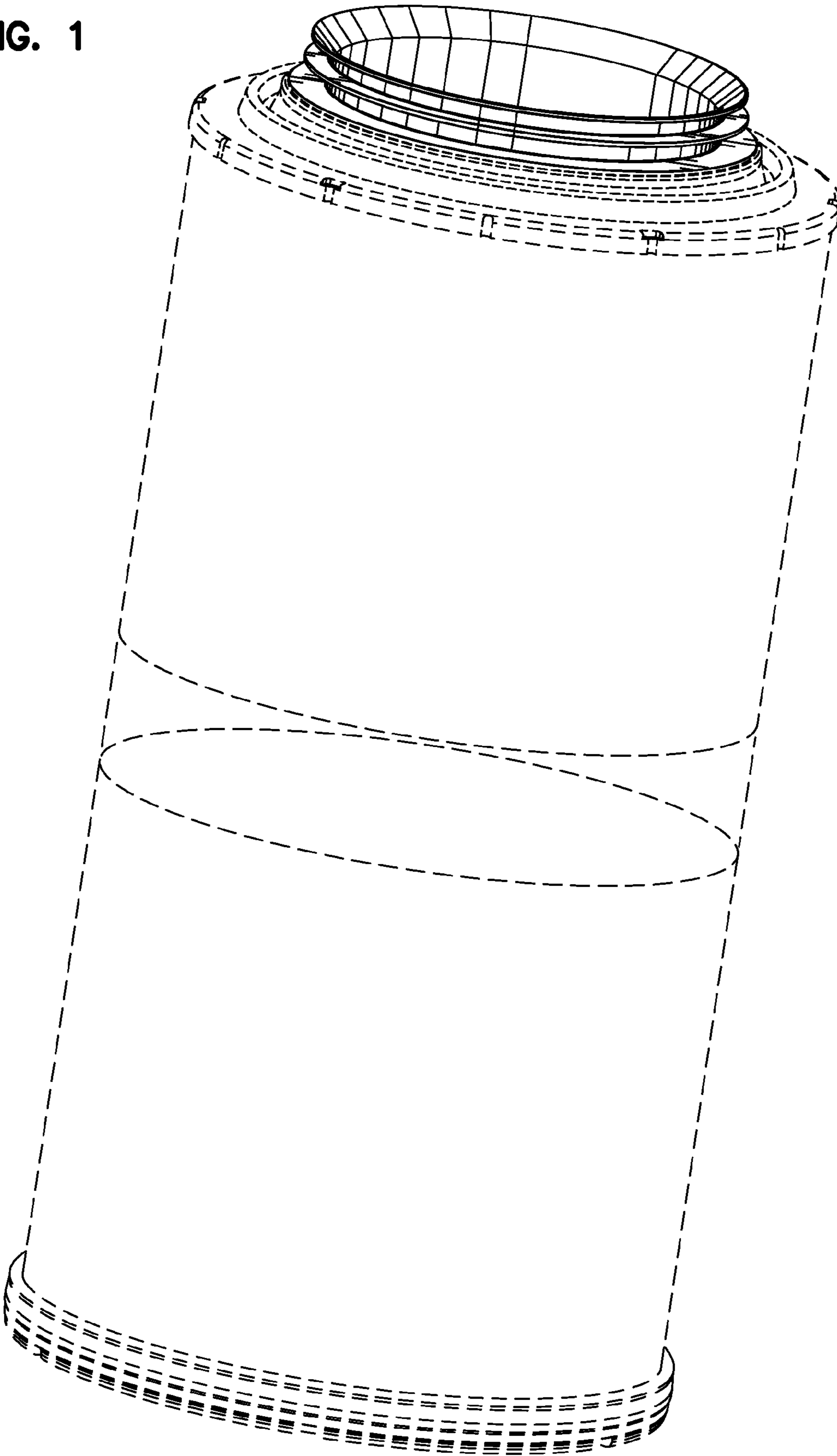


FIG. 2

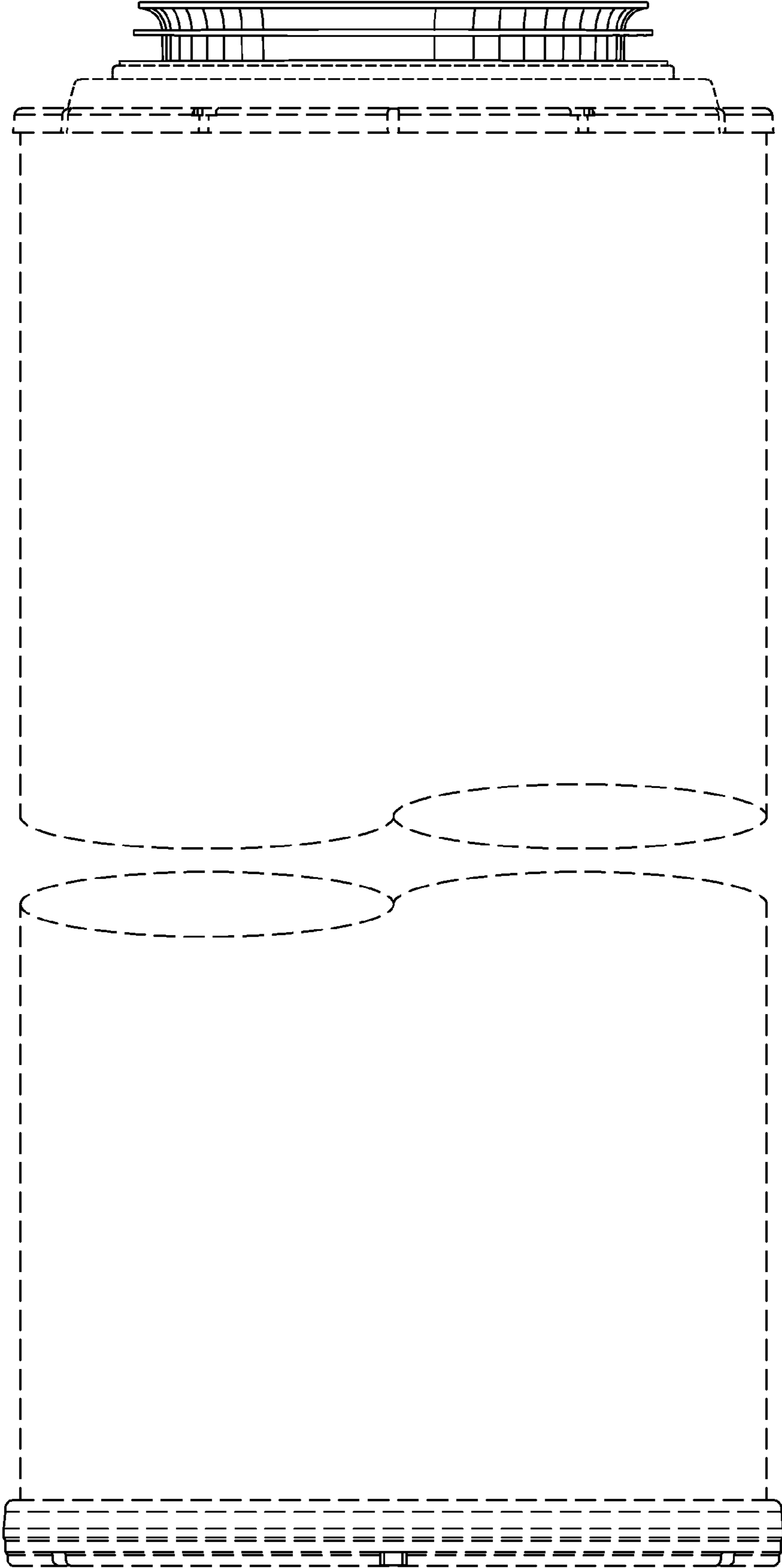


FIG. 3

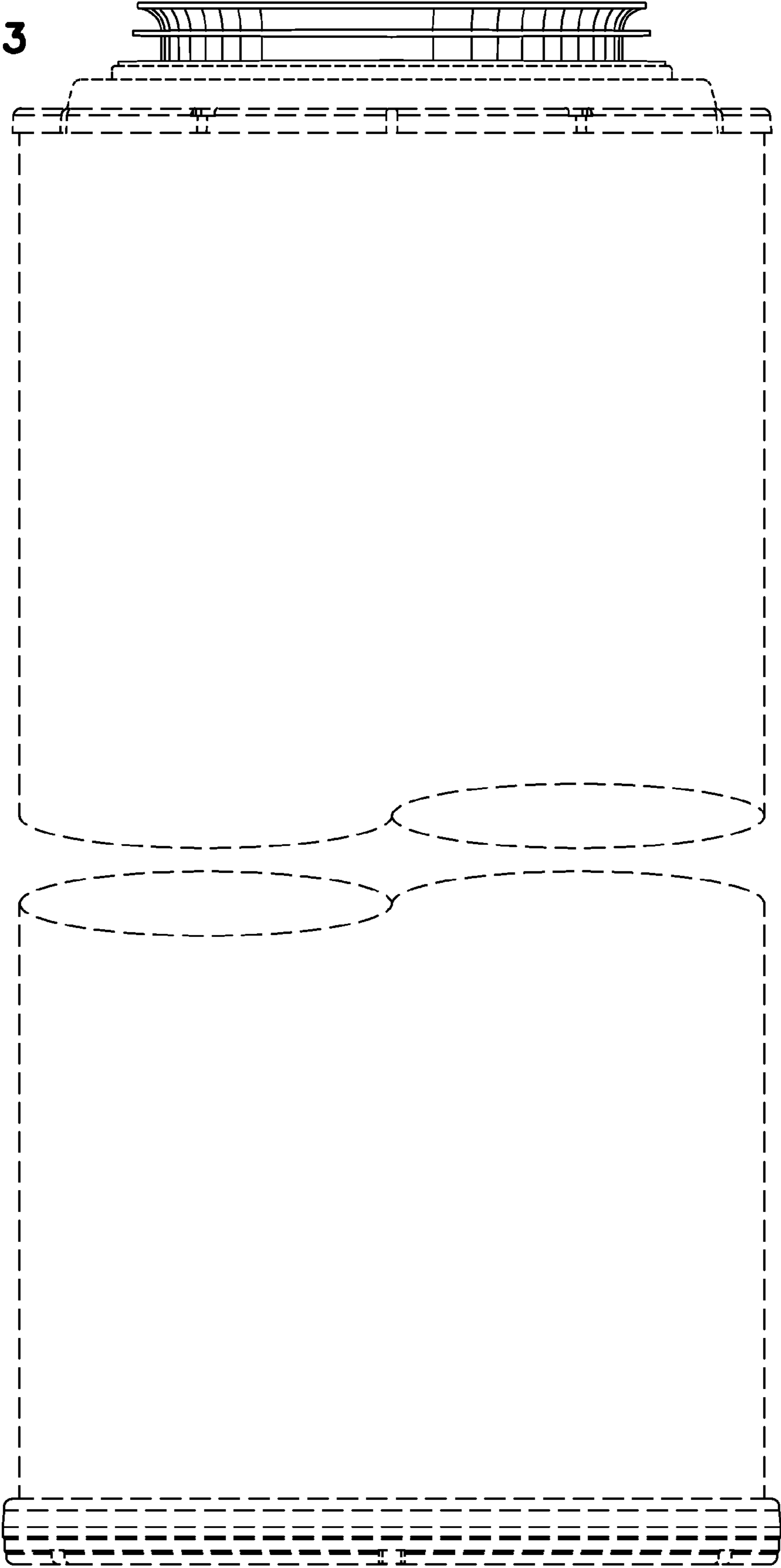


FIG. 4

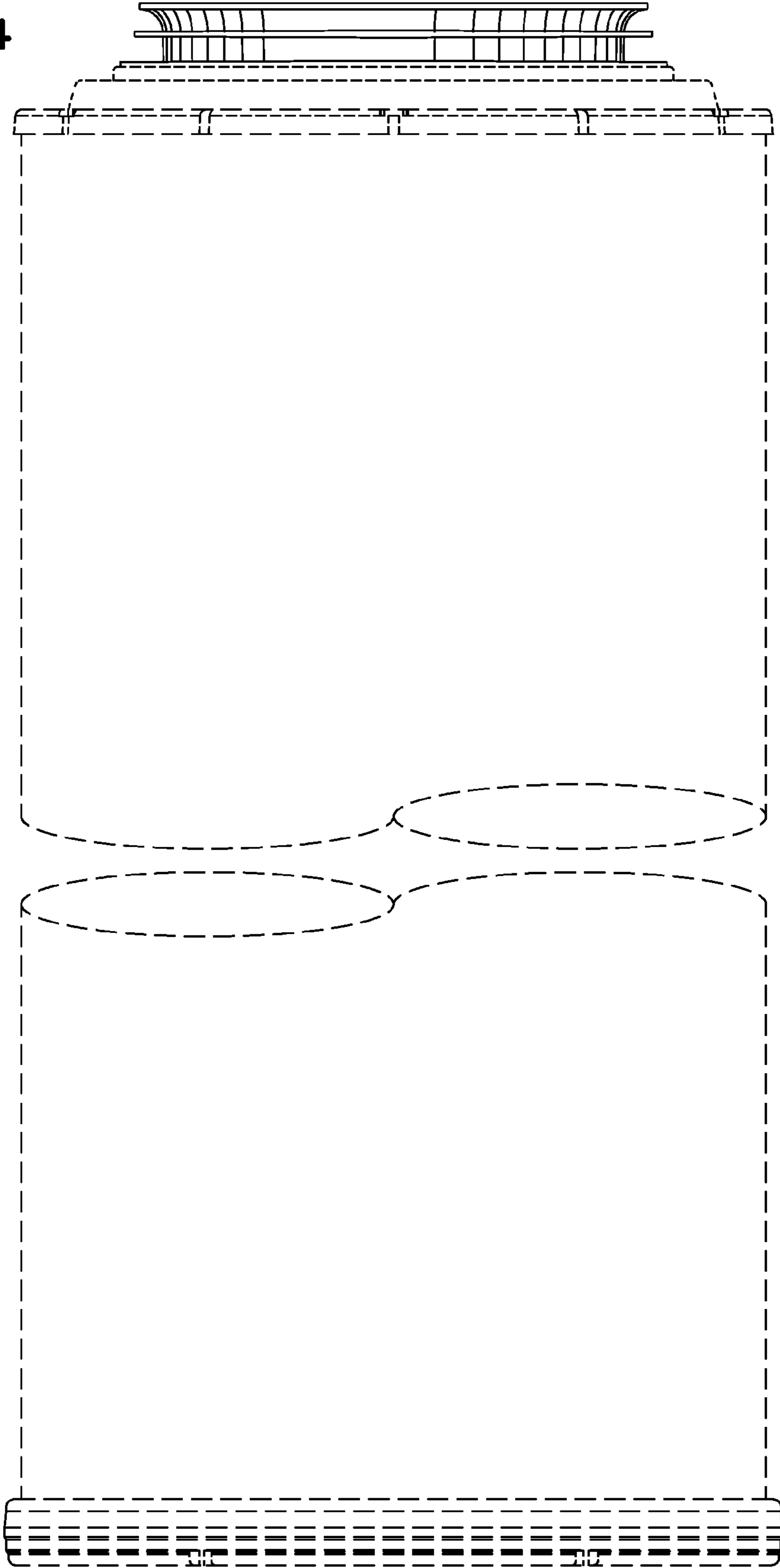


FIG. 5

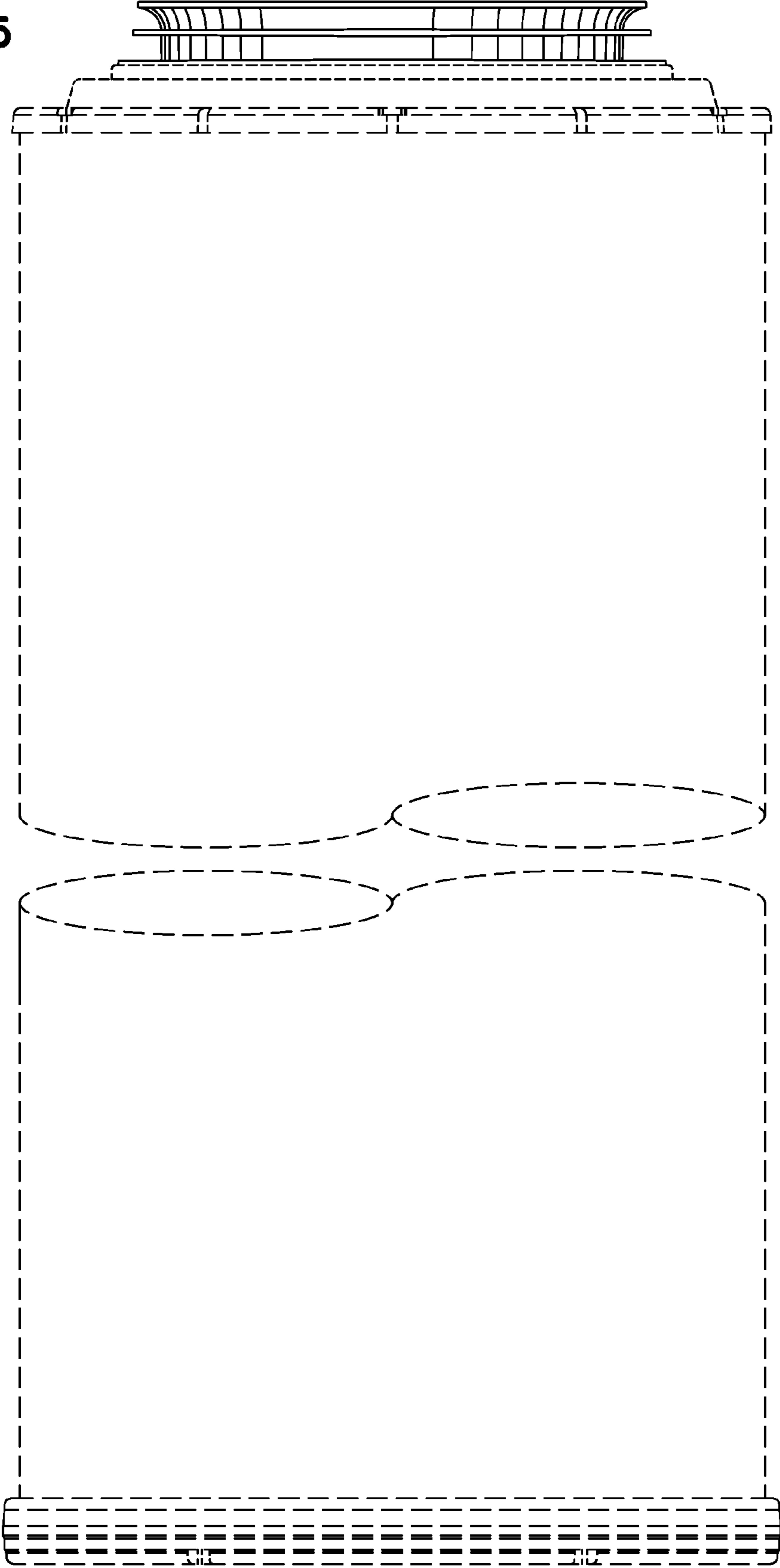


FIG. 6

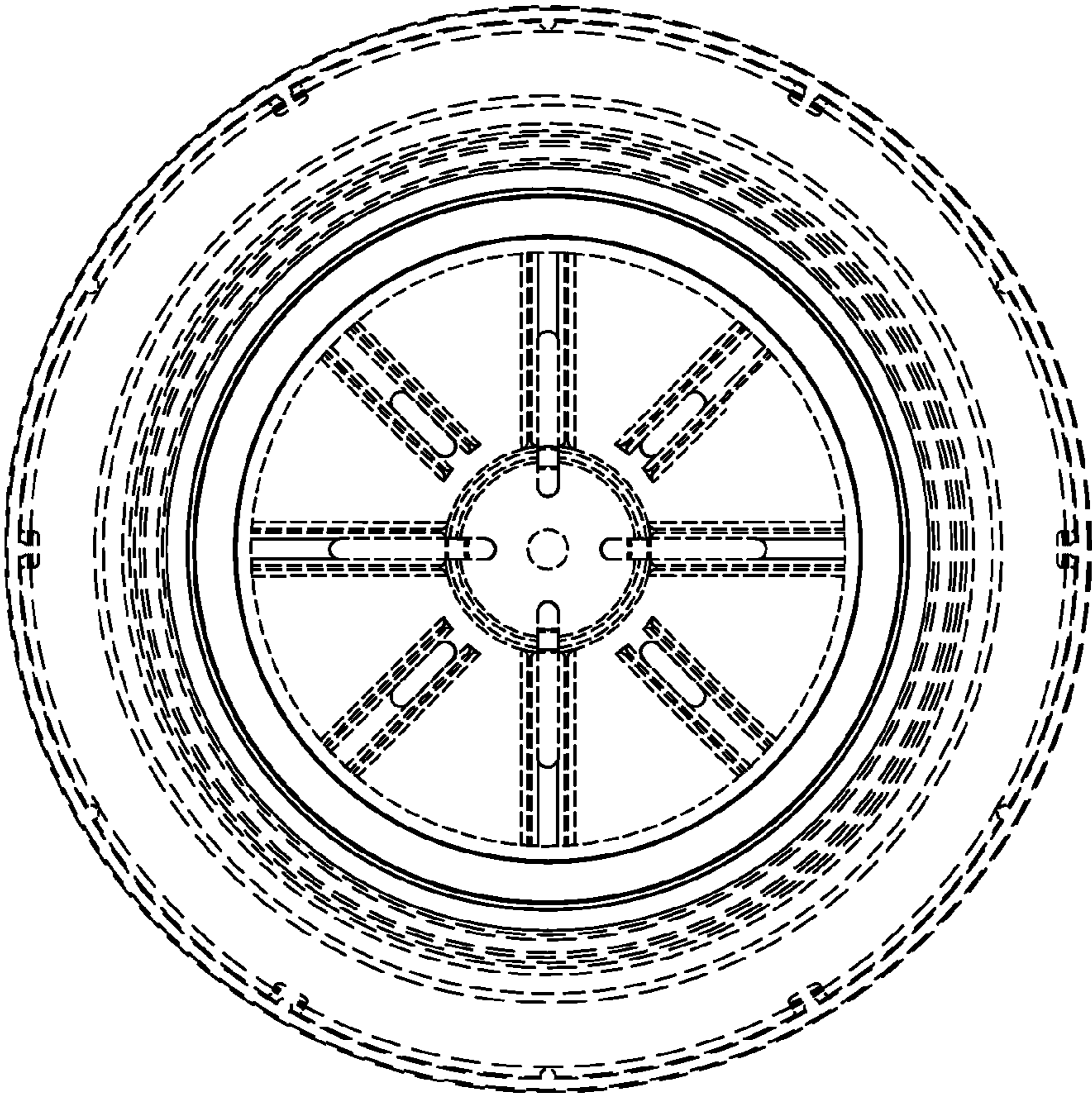




FIG. 7

