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

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(54) **DROP FILTER**

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(73) Assignee: **Whirlpool Corporation**, Bendor Harbor, MI (US)

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

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(51) **LOC (10) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/209**

(58) **Field of Classification Search**  
USPC ..... D23/207-209; 210/435, 446, 451, 455, 210/464, 466, 469, 473, 474, 477, 482  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

247,865 A *	10/1881	Wodiska	.....	210/451
651,948 A	6/1900	Lawson		
1,261,558 A *	4/1918	Lackland	.....	220/4.21
1,536,890 A	5/1925	Lagemann		
1,674,203 A	6/1928	Holz		
3,823,824 A	7/1974	Close		

4,259,188 A *	3/1981	Morgan	.....	210/448
4,283,283 A	8/1981	Zimmerman		
4,419,235 A	12/1983	Sway		
4,528,095 A	7/1985	Byrne		
4,673,501 A *	6/1987	Wells et al.	.....	210/406

(Continued)

FOREIGN PATENT DOCUMENTS

FR	2884729 A1	10/2006
GB	2441981 A	3/2008

(Continued)

OTHER PUBLICATIONS

Drop Speaker, Zumreed, "Music with Style", Copyright 2010 Dreams, Inc.

(Continued)

*Primary Examiner* — Robin V Webster

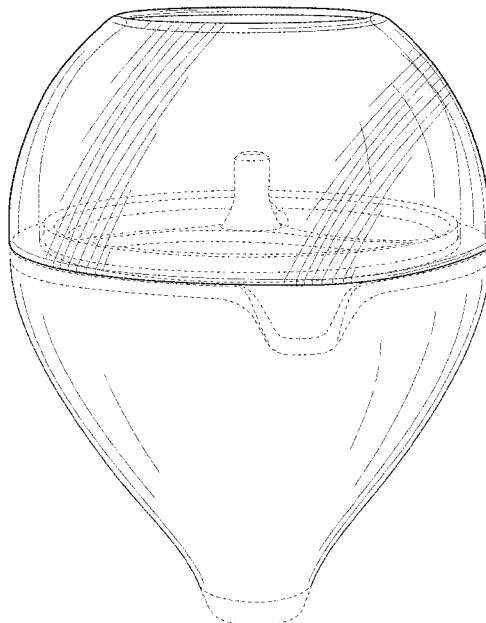
(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a perspective view of the drop filter according to an embodiment of the present invention;  
FIG. 2 is a front view of the drop filter shown in FIG. 1;  
FIG. 3 is a back view of the drop filter shown in FIG. 1;  
FIG. 4 is a right side view of the drop filter shown in FIG. 1;  
FIG. 5 is a left side view of the drop filter shown in FIG. 1;  
FIG. 6 is a top view of the drop filter shown in FIG. 1; and,  
FIG. 7 is a bottom view of the drop filter shown in FIG. 1.  
The broken lines in the Figures show the environment of the claimed drop filter. The broken lines in all of the Figures form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

4,764,274 A 8/1988 Miller  
 4,828,692 A 5/1989 Peranio  
 4,867,875 A 9/1989 Peranio  
 4,948,499 A 8/1990 Peranio  
 4,999,109 A 3/1991 Sabre  
 D316,741 S \* 5/1991 Kurth et al. .... D23/209  
 5,219,525 A \* 6/1993 Harrison ..... 210/359  
 5,318,703 A 6/1994 Heiligman  
 5,328,597 A 7/1994 Boldt, Jr.  
 5,393,548 A 2/1995 Heiligman  
 5,411,661 A 5/1995 Heiligman  
 5,652,008 A 7/1997 Heiligman  
 5,656,160 A 8/1997 Parise  
 5,826,493 A 10/1998 Tien Lin  
 5,846,418 A 12/1998 Thompson  
 5,914,045 A 6/1999 Palmer  
 6,024,867 A 2/2000 Parise  
 6,074,550 A 6/2000 Hofmann  
 6,290,847 B1 9/2001 Cutler  
 6,428,687 B1 8/2002 Moretto  
 D470,912 S \* 2/2003 Daws et al. .... D23/209  
 D496,429 S 9/2004 Donnelly  
 7,094,334 B1 8/2006 Guzman  
 7,163,625 B1 1/2007 Williamson  
 7,294,277 B2 11/2007 Moretto  
 7,309,418 B2 12/2007 Joyce  
 7,585,409 B2 9/2009 Bommi  
 D602,558 S 10/2009 Beams  
 7,678,282 B2 3/2010 Moretto

D617,868 S 6/2010 Leavitt  
 7,836,708 B2 11/2010 Krause  
 7,862,720 B2 1/2011 Brown  
 7,926,414 B1 \* 4/2011 Wolcott et al. .... 99/279  
 D638,517 S \* 5/2011 Greenway-Balnar  
 et al. .... D23/209  
 D646,749 S \* 10/2011 Morad ..... D23/209  
 D657,844 S 4/2012 Smiedt  
 D675,708 S \* 2/2013 Smiedt et al. .... D23/209  
 2010/0044284 A1 2/2010 Scholz  
 2010/0084347 A1 4/2010 Wilder  
 2011/0303589 A1 12/2011 Kuennen  
 2012/0148707 A1 6/2012 Lackey

FOREIGN PATENT DOCUMENTS

WO WO 97/40906 A1 11/1997  
 WO WO 2010/010572 A2 1/2010  
 WO WO 2011/013142 A2 2/2011

OTHER PUBLICATIONS

Zumreed Rain Drop LED Bathroom Light, online article by Liszewski, Andrew on May 14, 2007, website www.OHGIZMO.com.  
 Zumreed Drop—Showering With Your Ipod., Copyright One Piece Discoveries Science and Tech Blog 2009-2010.  
<http://www.somawater.co/> (web page Dec. 2012).  
<http://www.kickstarter.com/projects/zachallia/soma-beautifully-innovative-all-natural-water-filt> (web page Dec. 2012).

\* cited by examiner

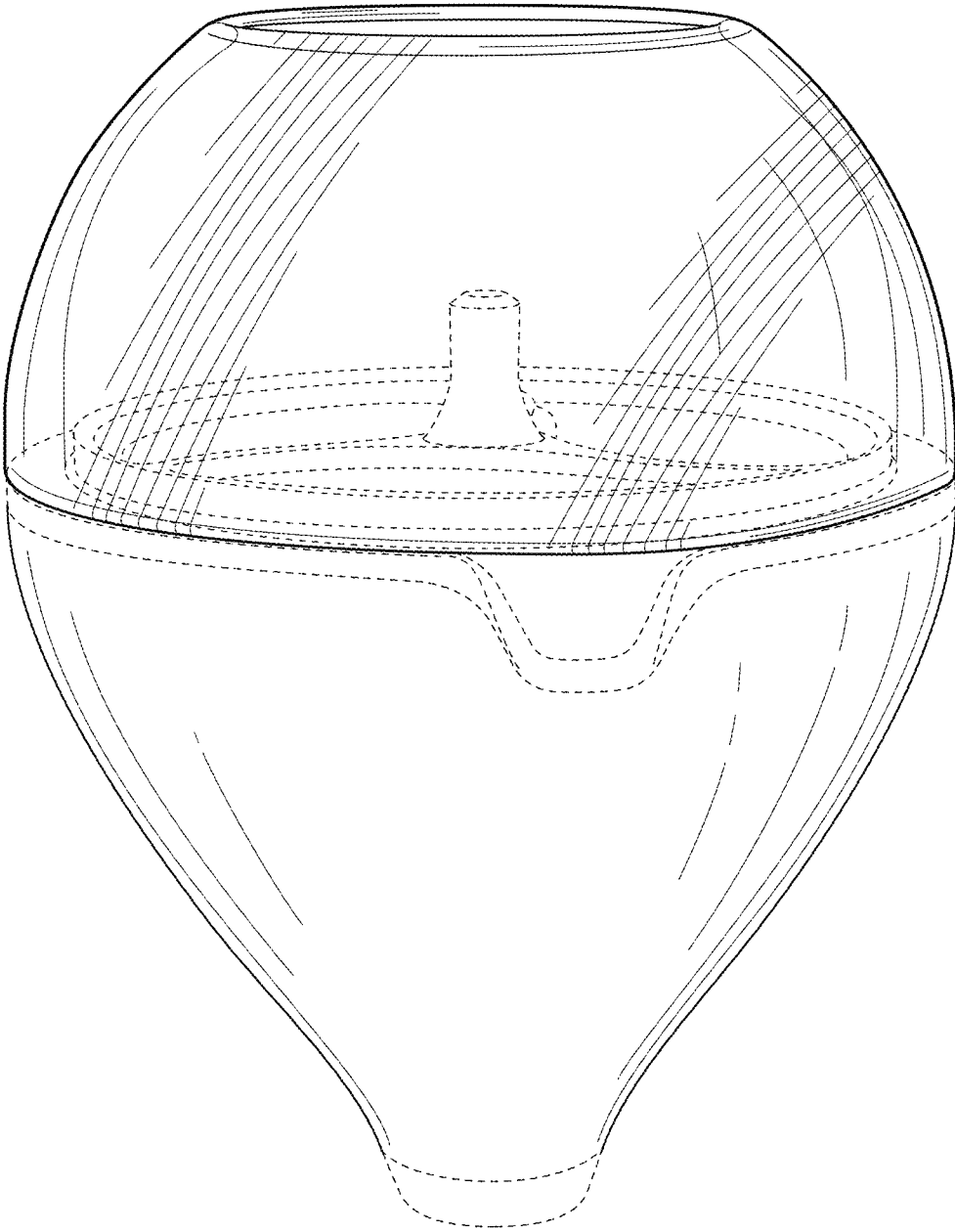


FIG. 1

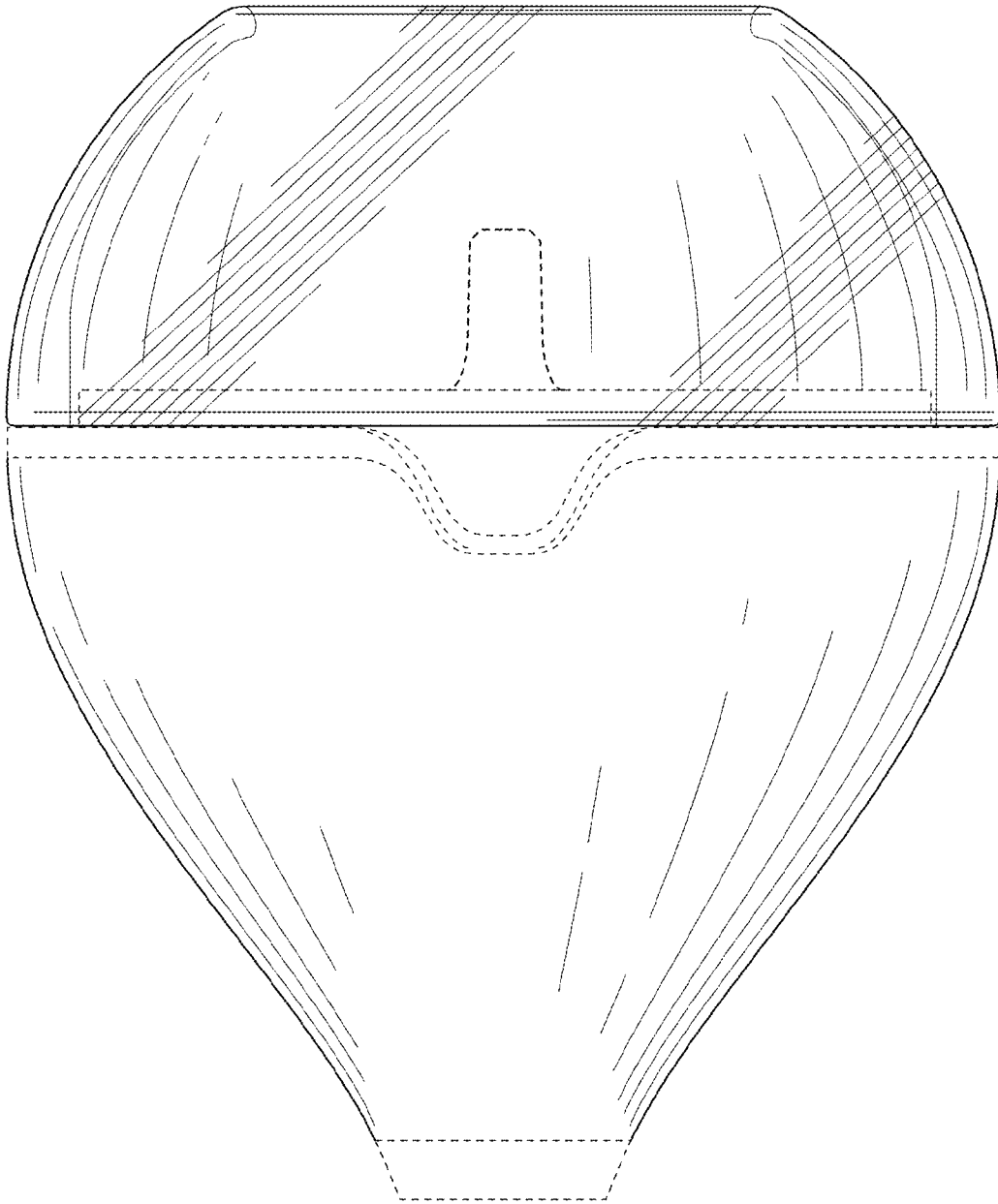


FIG. 2

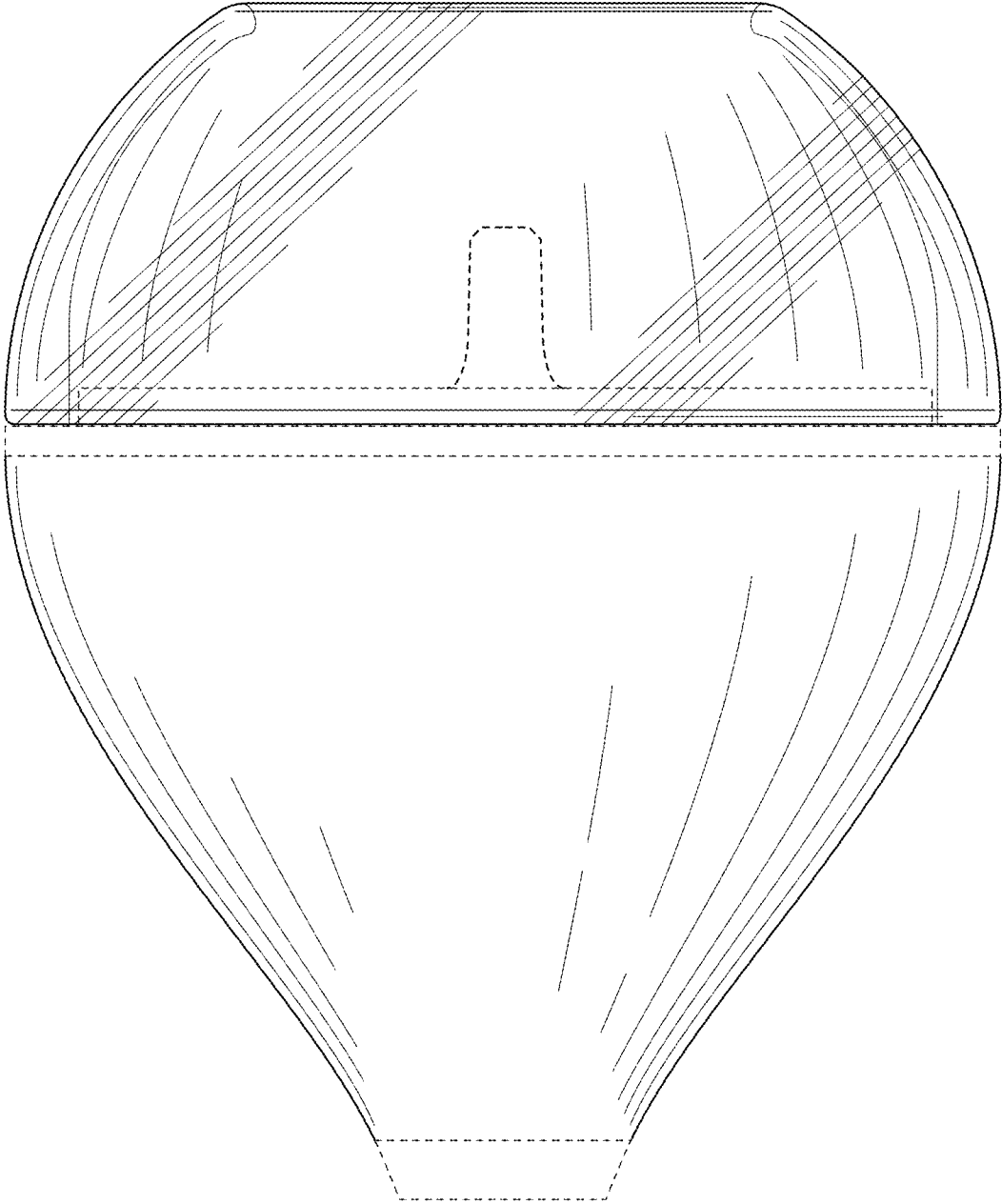


FIG. 3

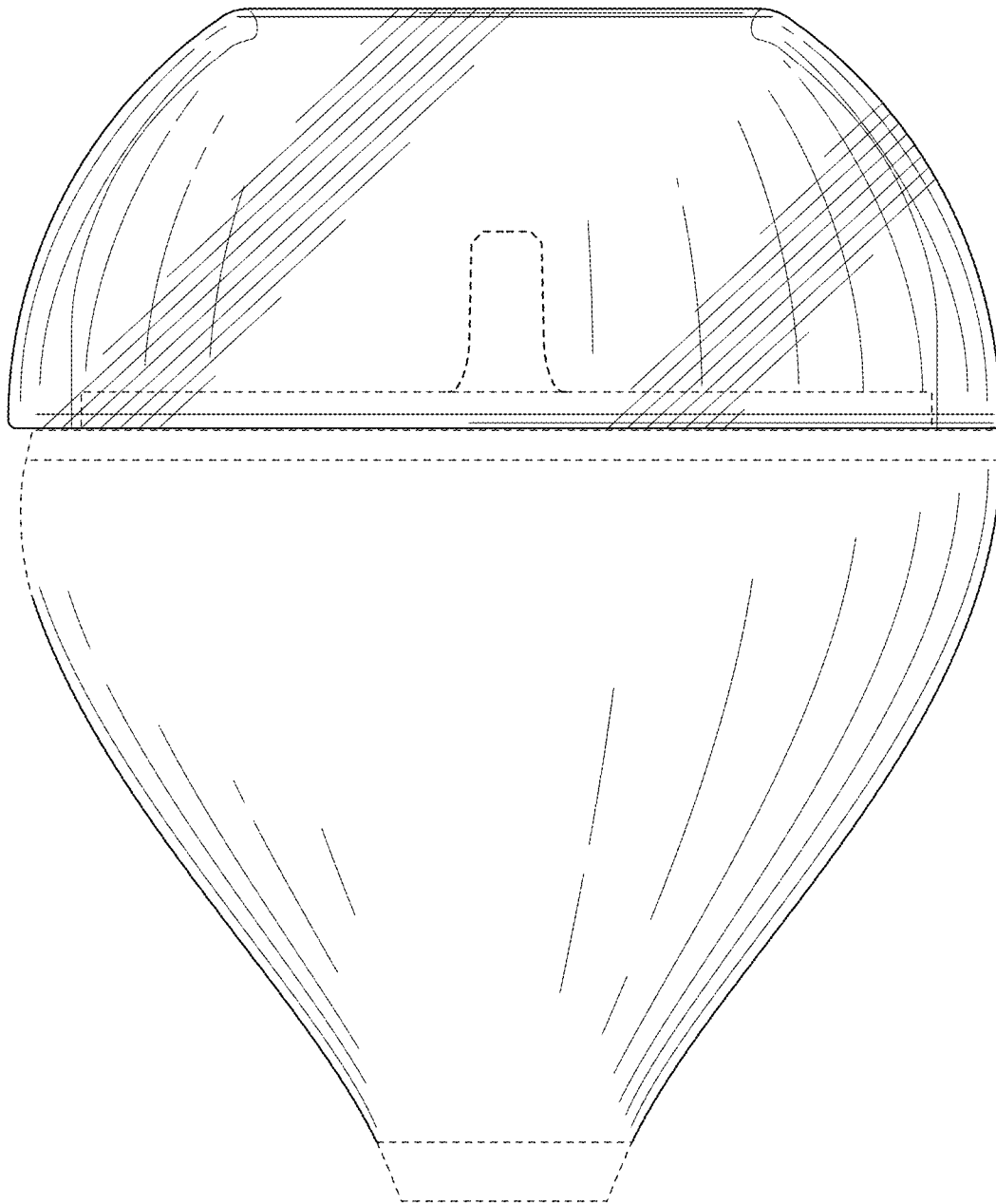


FIG. 4

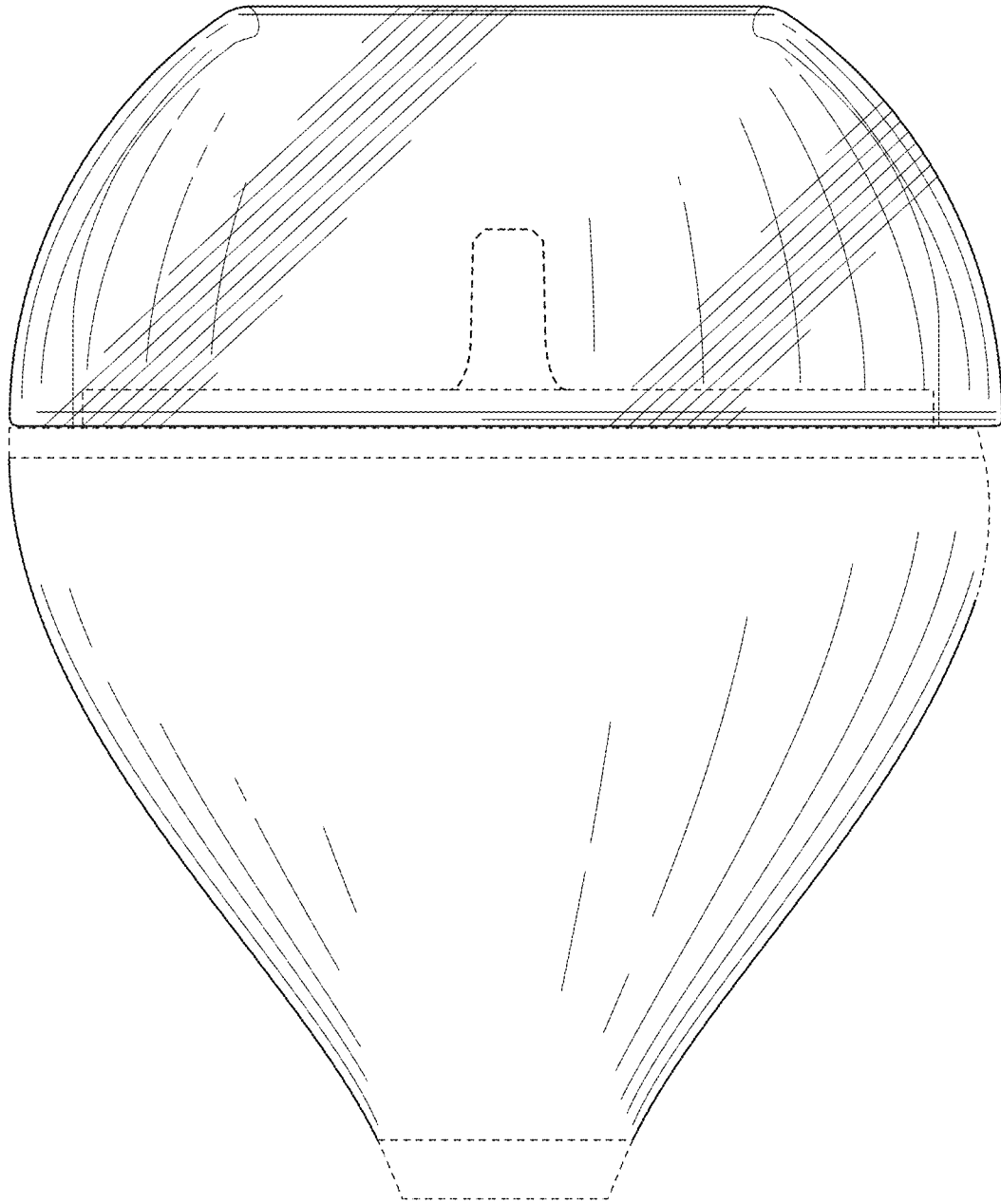


FIG. 5

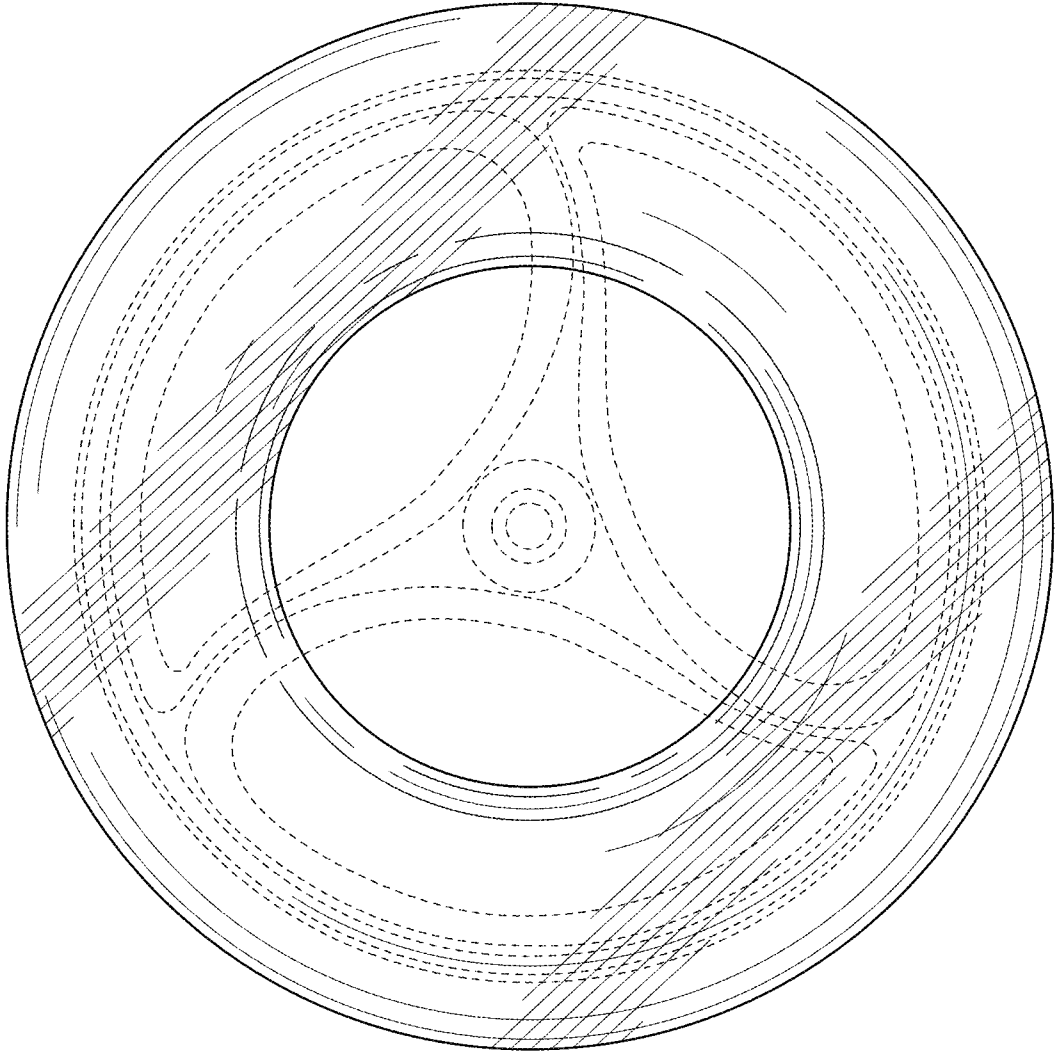
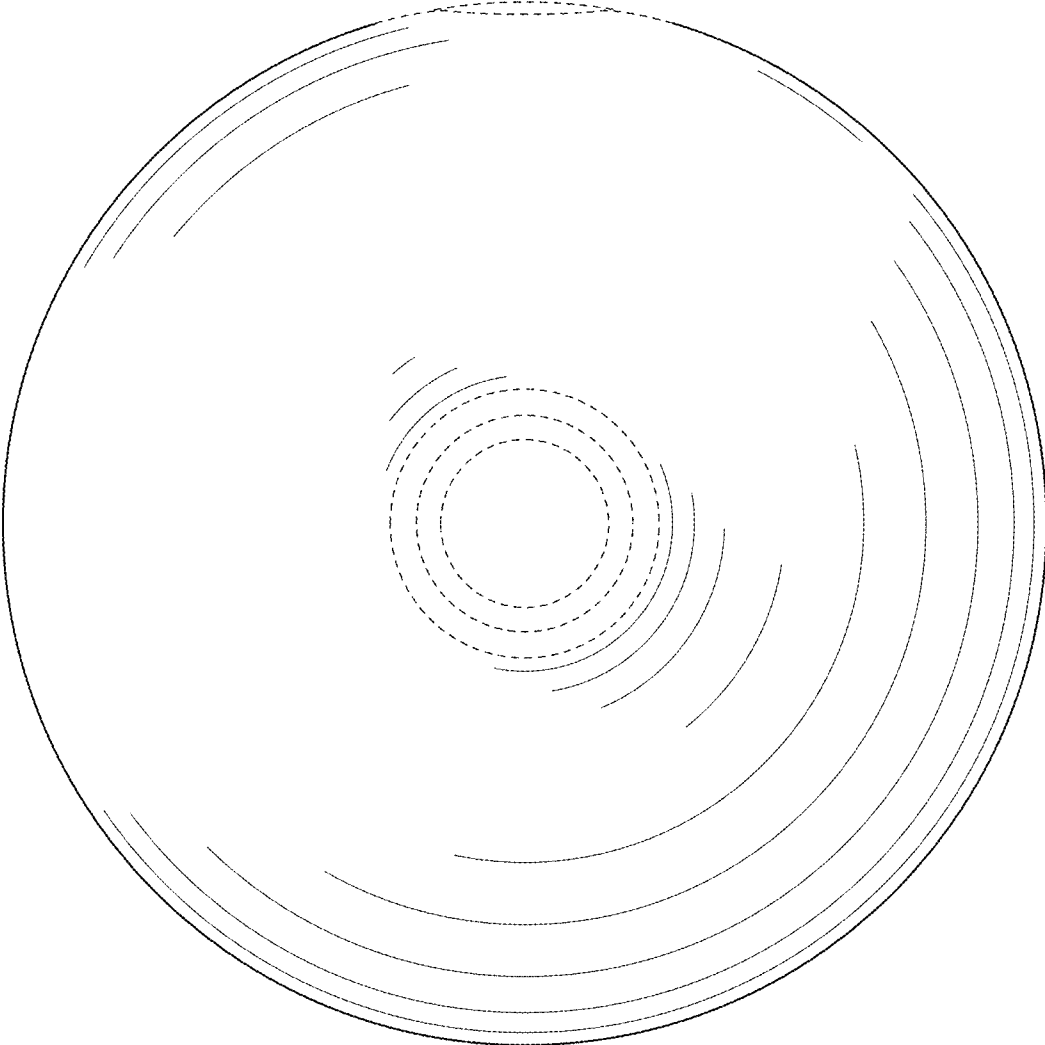


FIG. 6



**FIG. 7**