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

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(54) **HEAT SINK FOR A LUMINAIRE**  
(75) Inventors: **Fredric S. Maxik**, Indialantic, FL (US);  
**David Henderson**, Indialantic, FL (US);  
**Addy S. Widjaja**, Palm Bay, FL (US)

D541,957 S 5/2007 Wang  
D545,457 S 6/2007 Chen  
7,226,189 B2\* 6/2007 Lee et al. .... 362/294  
D560,286 S 1/2008 Maxik et al.

(Continued)

(73) Assignee: **Lighting Science Group Corporation**,  
Westampton, NJ (US)

FOREIGN PATENT DOCUMENTS

WO 2006118457 11/2006

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/336,315**

SP-E27 LB60 Nicha / Cree LED Lamp, posted Dec. 18, 2008, [http://www.diytrade.com/china/4/products/4950147/SP-E27\\_LB60\\_Nicha\\_Cree\\_LED\\_Lamp.html](http://www.diytrade.com/china/4/products/4950147/SP-E27_LB60_Nicha_Cree_LED_Lamp.html), accessed Jun. 30, 2009.

(Continued)

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(51) **LOC (9) Cl.** ..... **13-03**

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(58) **Field of Classification Search** ..... D13/179;  
D26/2, 3, 26, 118; 313/318.01, 318.04; 361/695,  
361/697; 362/218, 294, 341, 345, 373; 315/56;  
D9/429

*Primary Examiner* — Selina Sikder

(74) *Attorney, Agent, or Firm* — Cantor Colburn LLP

See application file for complete search history.

(57) **CLAIM**

We claim, the ornamental design for a heat sink for a luminaire, as shown and described.

(56) **References Cited**

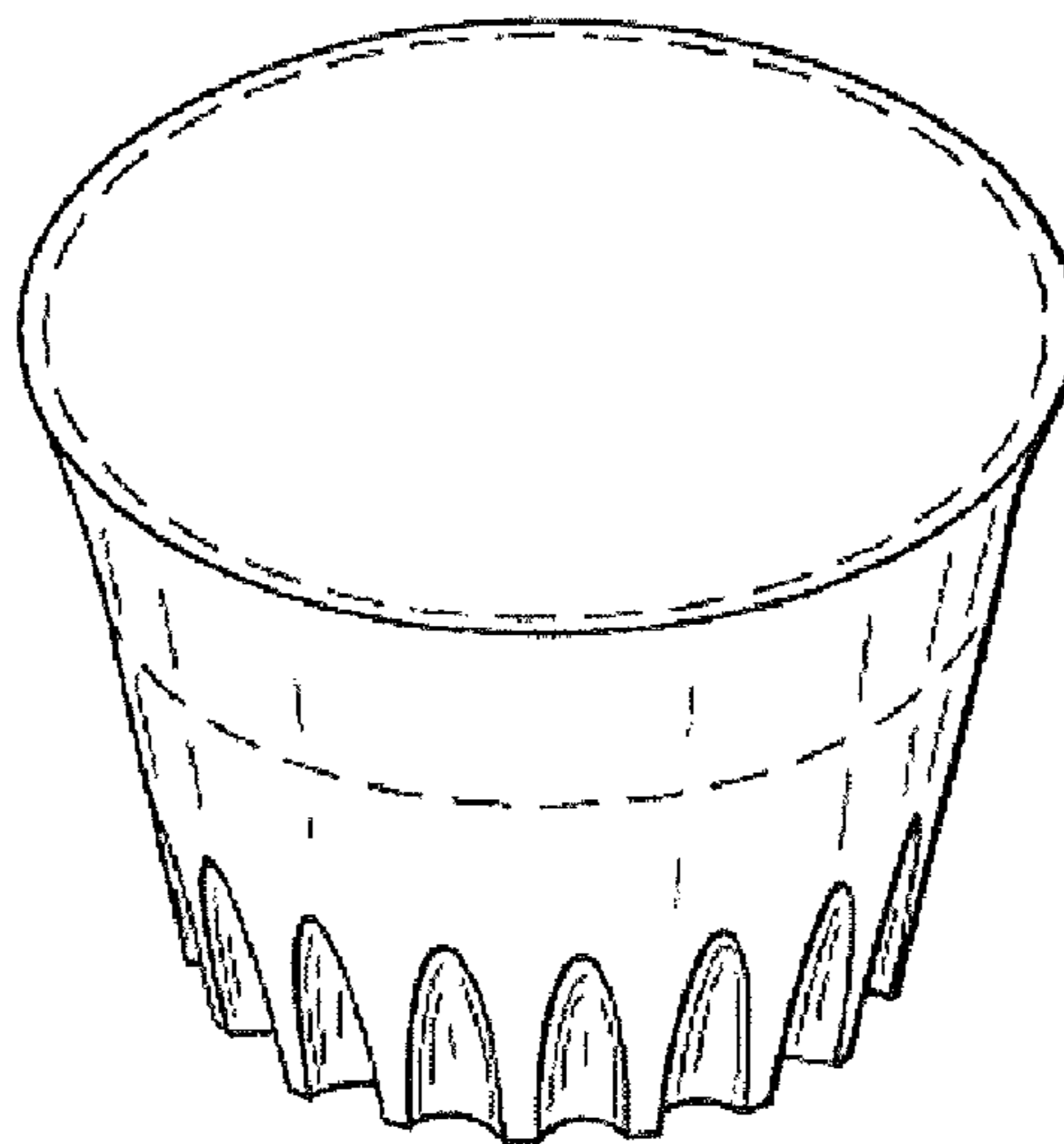
**DESCRIPTION**

U.S. PATENT DOCUMENTS

D197,094 S *	12/1963	Eicholtz	.....	D9/429
D228,125 S *	8/1973	Weiss	.....	D9/429
4,375,607 A *	3/1983	Morton et al.	.....	315/56
4,392,076 A *	7/1983	Ishler et al.	.....	313/318.04
D271,424 S *	11/1983	Young et al.	.....	D26/26
D307,805 S	5/1990	Noe		
5,458,505 A *	10/1995	Prager	.....	439/485
D391,006 S *	2/1998	Yang	.....	D26/118
5,791,769 A *	8/1998	Yang	.....	362/294
6,515,433 B1 *	2/2003	Ge et al.	.....	315/227 R
D480,486 S *	10/2003	Kakuno et al.	.....	D26/2
6,655,823 B2 *	12/2003	Chang	.....	362/487
6,786,625 B2 *	9/2004	Wesson	.....	362/545
6,848,812 B1 *	2/2005	Hsieh	.....	362/362
D527,119 S	8/2006	Maxik et al.		
D528,673 S	9/2006	Maxik et al.		
D538,950 S	3/2007	Maxik		
D538,951 S	3/2007	Maxik et al.		
D538,952 S	3/2007	Maxik et al.		

FIG. 1 is a perspective view of an embodiment of the invention;  
FIG. 2 is a side elevation view of the embodiment of FIG. 1, the heat sink being symmetric about a center axis;  
FIG. 3 is a bottom plan view of the embodiment of FIG. 1; and,  
FIG. 4 is a top plan view of the embodiment of FIG. 1.  
The phantom lines shown in FIG. 1-FIG. 4 are environmental and not part of the claimed design.  
References to “side”, “top”, and “bottom” in the figure descriptions are not meant to require certain in-use orientation, a heat sink according to the claimed design may be used in any orientation.

**1 Claim, 2 Drawing Sheets**



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## U.S. PATENT DOCUMENTS

7,367,688 B1 \* 5/2008 Bucher et al. .... 362/267  
D570,504 S 6/2008 Maxik et al.  
D570,505 S 6/2008 Maxik et al.  
D572,385 S 7/2008 Mazzochette et al.  
7,434,964 B1 \* 10/2008 Zheng et al. .... 362/294  
D581,554 S 11/2008 To et al.  
7,448,772 B2 11/2008 Hampton  
D584,837 S 1/2009 Mazzochette et al.  
D586,497 S 2/2009 Wu et al.  
7,513,653 B1 \* 4/2009 Liu et al. .... 362/294  
D593,222 S 5/2009 To et al.  
D594,143 S 6/2009 Montagnat et al.  
D594,995 S 6/2009 Komar  
D595,893 S 7/2009 Maxik et al.  
D597,704 S 8/2009 Peng  
D600,850 S 9/2009 Maxik et al.  
D607,586 S 1/2010 Ko  
D608,478 S 1/2010 Maxik et al.  
D610,722 S 2/2010 Bi  
D612,956 S 3/2010 Moon  
D613,433 S 4/2010 Moon

7,717,590 B1 \* 5/2010 Li ..... 362/294  
D618,369 S 6/2010 Lee et al.  
D623,777 S 9/2010 Moon et al.  
D623,778 S 9/2010 Moon et al.  
D623,779 S 9/2010 Wang et al.  
D624,214 S 9/2010 Thomas et al.  
D624,669 S 9/2010 Tsai  
2007/0285926 A1 \* 12/2007 Maxik ..... 362/294  
2009/0296402 A1 \* 12/2009 Chang et al. .... 362/294  
2010/0027270 A1 \* 2/2010 Huang et al. .... 362/310  
2010/0091487 A1 \* 4/2010 Shin ..... 362/235

## FOREIGN PATENT DOCUMENTS

WO 2008113837 A2 9/2008

## OTHER PUBLICATIONS

DIY Trade; "SP-E27 LB60 Nicha / Cree LED Lamp" (online, retrieved Jun. 2009) <http://img.diytrade.com/cdimg/395588/7678937/...> <http://images.google.com/imgres?imgurl=http://img.diytrade.com/cdimg/3...> (1 page).

\* cited by examiner

FIG. 1

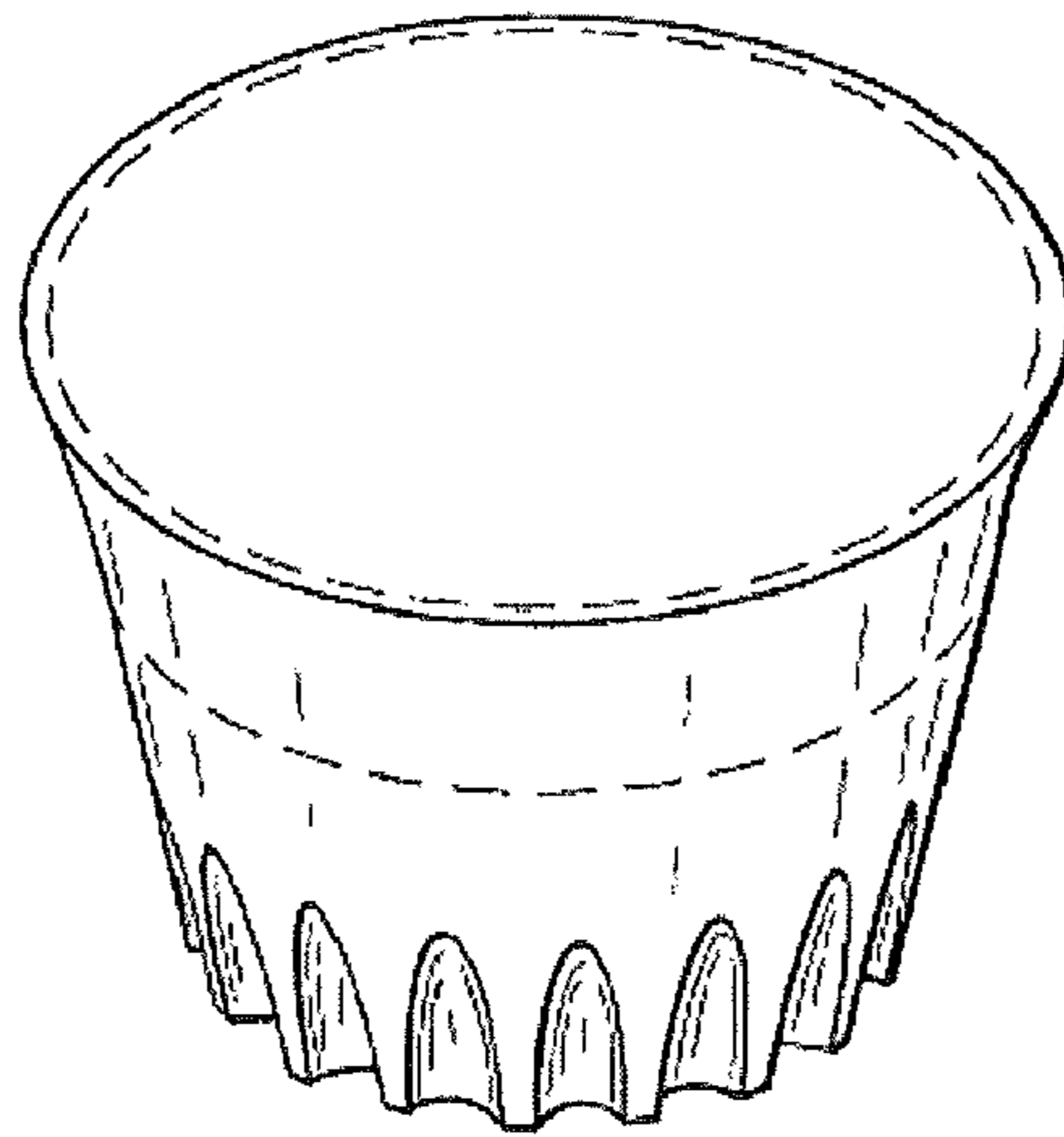


FIG. 2

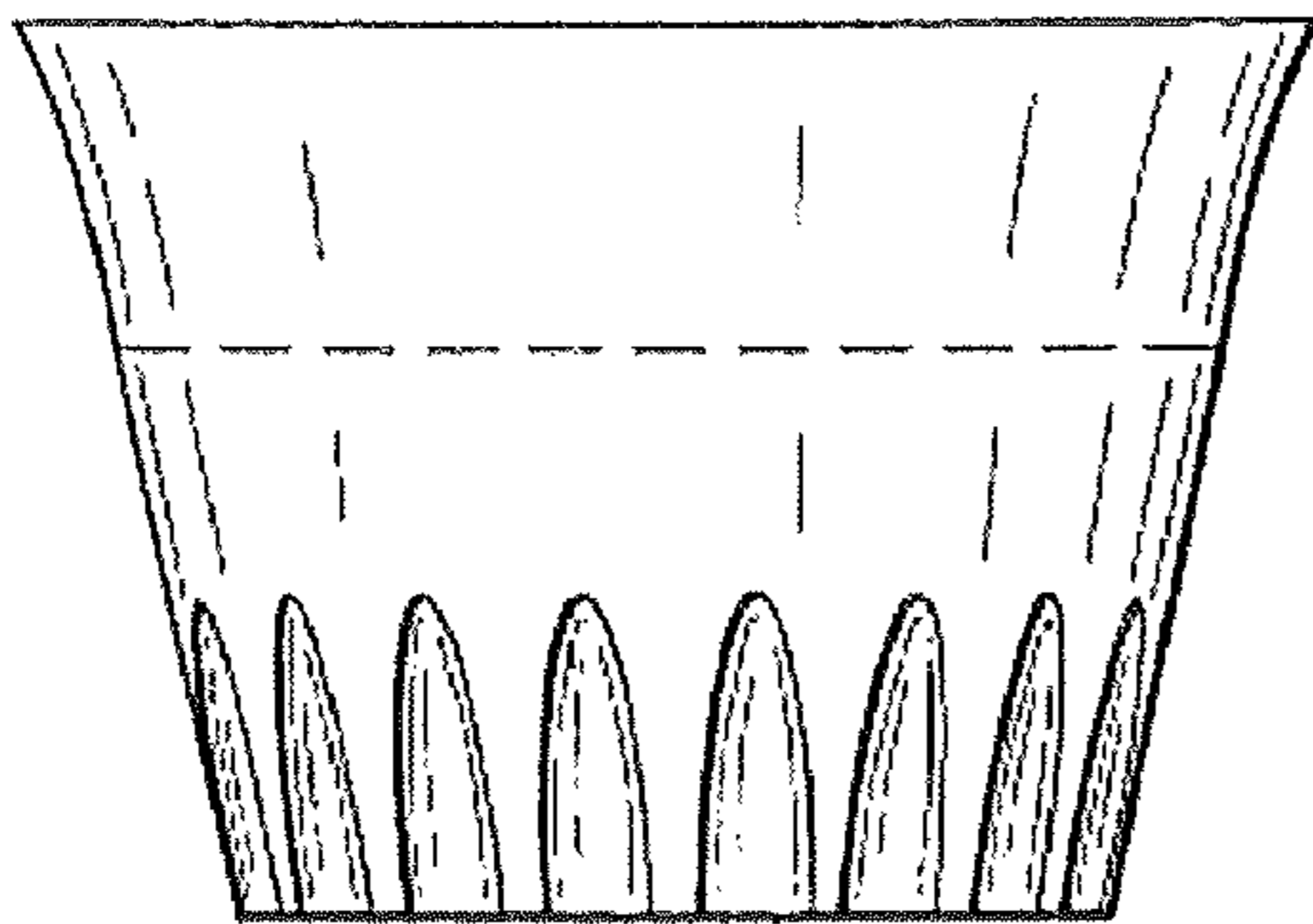


FIG. 3

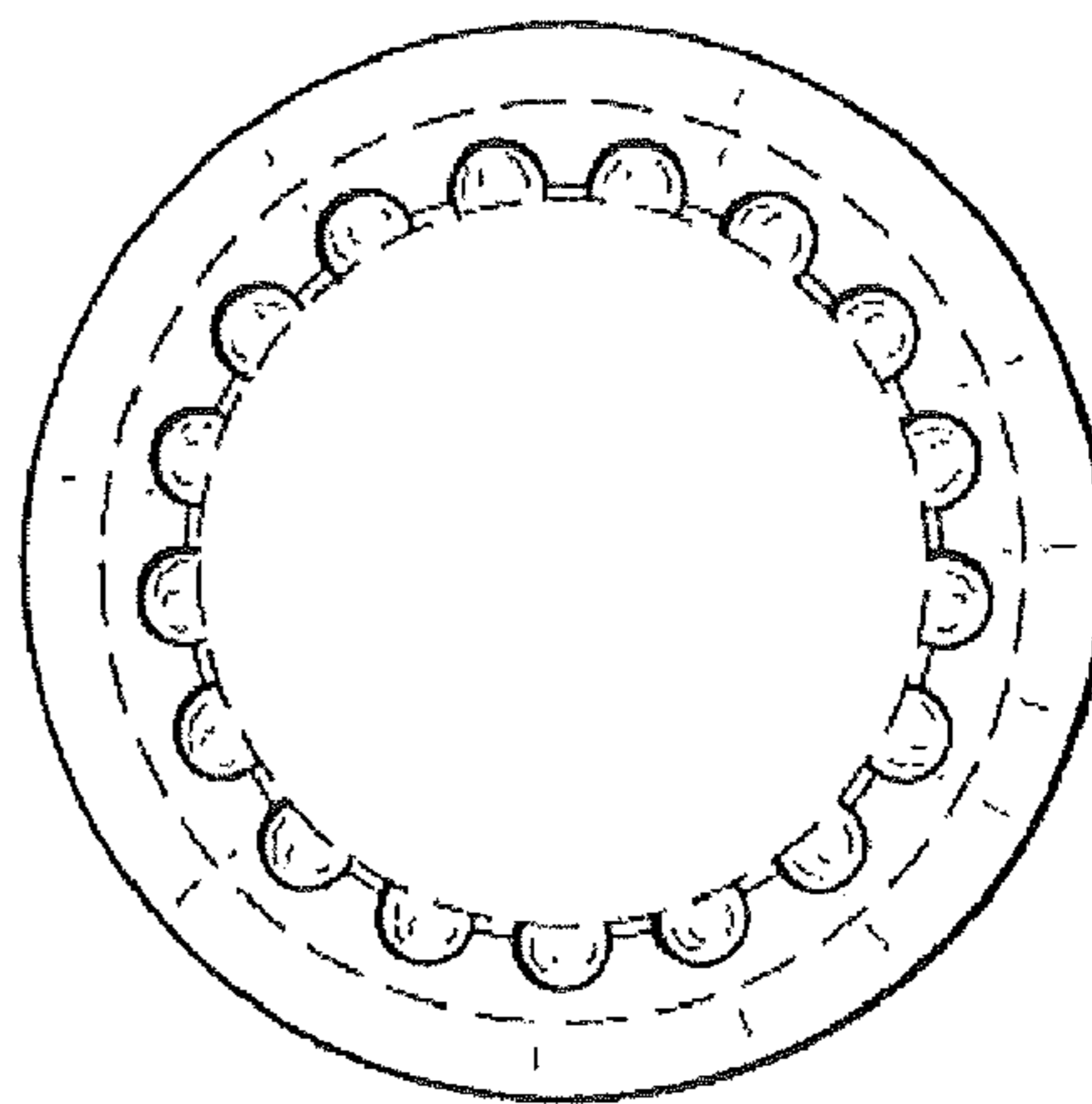


FIG. 4

