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(12) United States Design Patent

Crawford et al.

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(45) Date of Patent: ** Mar. 6, 2018

(54) **COMBINATION FUEL CELL ADAPTER AND CAP**

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(72) Inventors: **Ronald Brett Crawford**, Randolph, MS (US); **Maureen L. Shea**, Wilmette, IL (US)

(73) Assignee: **Illinois Tool Works Inc.**, Glenview, IL (US)

(**) Term: **15 Years**

(21) Appl. No.: **29/566,235**

(22) Filed: **May 27, 2016**

(51) **LOC (11) Cl.** **15-01**

(52) **U.S. Cl.**
USPC **D15/5**

(58) **Field of Classification Search**
USPC D15/1, 2, 3, 4, 5; D12/213, 197; D7/391, 416; D23/225, 233, 237; D26/117

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,403,722 A 9/1983 Nikolich
4,483,474 A 11/1984 Nikolich

(Continued)

FOREIGN PATENT DOCUMENTS

EP 1254745 11/2002
EP 2815851 12/2014

OTHER PUBLICATIONS

Paslode Quicklode Fuel Cartridge Image, http://static.grainger.com/rp/s/is/image/Grainger/31EE19_AS01?hei=800&wid=935, Jan. 19, 2016, (1 page).

(Continued)

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Assistant Examiner — Jerry Shiuan-Hua Hsu
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(57) **CLAIM**

The ornamental design for a combination fuel cell adapter and cap, as shown and described.

DESCRIPTION

FIG. **1** is a top front perspective view of a combination fuel cell adapter and cap, showing our new design.
FIG. **2** is an exploded top front perspective view thereof.
FIG. **3** is a bottom front perspective view of the combination fuel cell adapter and cap of FIG. **1**.
FIG. **4** is an exploded bottom front perspective view thereof.
FIG. **5** is a front side elevational view of the combination fuel cell adapter and cap of FIG. **1**, the back, right and left side elevational views being identical thereof.
FIG. **6** is an exploded front elevational view thereof, the exploded back, right, and left side elevational views being identical.
FIG. **7** is a top plan view of the combination fuel cell adapter and cap of FIG. **1**.
FIG. **8** is a top plan view of the fuel cell adapter portion of the design of FIG. **1**.
FIG. **9** is a bottom plan view of the fuel cell adapter cap portion of the design of FIG. **1**.
FIG. **10** is a bottom plan view of the combination fuel cell adapter and cap FIG. **1**.
FIG. **11** is a top front perspective view of a fuel cell adapter portion of the combination fuel cell adapter and cap design of FIG. **1**.
FIG. **12** is a bottom front perspective view thereof.
FIG. **13** is a front side elevational view thereof, the back, right, and left elevational views being identical.
FIG. **14** is a top plan view thereof.
FIG. **15** is a bottom plan view thereof.
FIG. **16** is a top front perspective view of the fuel cell adapter cap portion of the combination fuel cell adapter and cap design of FIG. **1**.
FIG. **17** is a bottom front perspective view thereof.

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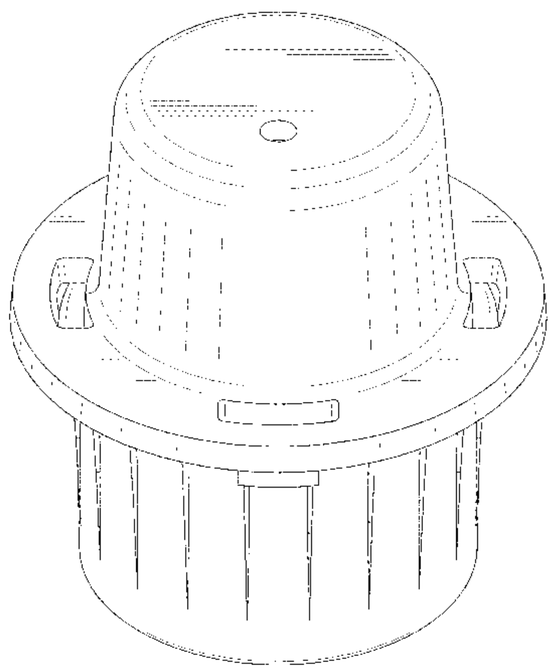


FIG. **18** is a front side elevational view thereof the back, right, and left side elevational views being identical.
FIG. **19** is a top plan view thereof; and,
FIG. **20** is a bottom plan view thereof.
The broken lines illustrate portions of the combination fuel cell adapter and cap that form no part of the claimed design.

1 Claim, 20 Drawing Sheets

(58) **Field of Classification Search**
CPC B41J 3/4075; B65D 83/48; B65B 31/025; B25C 1/08; A47J 43/044
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,522,162	A	6/1985	Nikolich	
D294,820	S *	3/1988	Belletire	D12/197
5,115,944	A	5/1992	Nikolich	
D405,315	S *	2/1999	Lioi	D7/416
D420,462	S *	2/2000	Menter	D26/117
6,095,704	A *	8/2000	Jaeger	B41J 3/4075 242/533
6,176,412	B1	1/2001	Weinger et al.	
6,302,297	B1	10/2001	Richardson et al.	
6,371,338	B1 *	4/2002	Klein	B65D 83/48 222/402.1
D457,811	S	5/2002	Vanstaan et al.	
6,796,478	B2	9/2004	Shkolnikov et al.	
7,392,922	B2	1/2008	Vanstaan et al.	
7,478,740	B2	1/2009	Shea et al.	
D590,840	S	4/2009	Shea et al.	
7,571,841	B2	8/2009	Gibson et al.	
7,591,249	B2	9/2009	Wagdy et al.	
7,654,429	B2	2/2010	Shea et al.	
7,661,568	B2	2/2010	Vanstaan et al.	
7,757,920	B2	7/2010	Shea et al.	
D633,922	S	3/2011	Shea et al.	
D645,053	S	9/2011	Shea et al.	
8,302,831	B2	11/2012	Taylor et al.	
D681,677	S	5/2013	Shea et al.	
D721,789	S *	1/2015	Lu	D23/237
8,939,339	B2	1/2015	Vanstaan et al.	
D739,919	S *	9/2015	Alexander	D23/233
9,505,509	B2 *	11/2016	Smith	B65B 31/025
D787,326	S *	5/2017	Hanson	D23/225
2004/0206798	A1 *	10/2004	Robinson	B25C 1/08 227/10
2005/0230451	A1 *	10/2005	Vanstaan	B25C 1/08 227/10
2008/0000451	A1 *	1/2008	Shea	B25C 1/08 123/46 SC
2014/0175143	A1	6/2014	Vanstaan et al.	
2016/0045072	A1 *	2/2016	Myoung	A47J 43/044 99/495

OTHER PUBLICATIONS

Yagid, Rob, "Cordless finish nailer", HowItWorks, The Taunton Press, Inc. Jun./Jul. 2011, (2 pages).
ECKO MultiCell, ECKO Fastening Systems, Available prior to May 27, 2016, (4 pages).
ECKO FuelCell Cordless Fastening System Images, Available prior to May 27, 2016 (3 pages).
European Patent Office as International Searching Authority, International Search Report and Written Opinion in pending Application No. PCT/US2016/062529, dated Mar. 21, 2017 (11 pages).

* cited by examiner

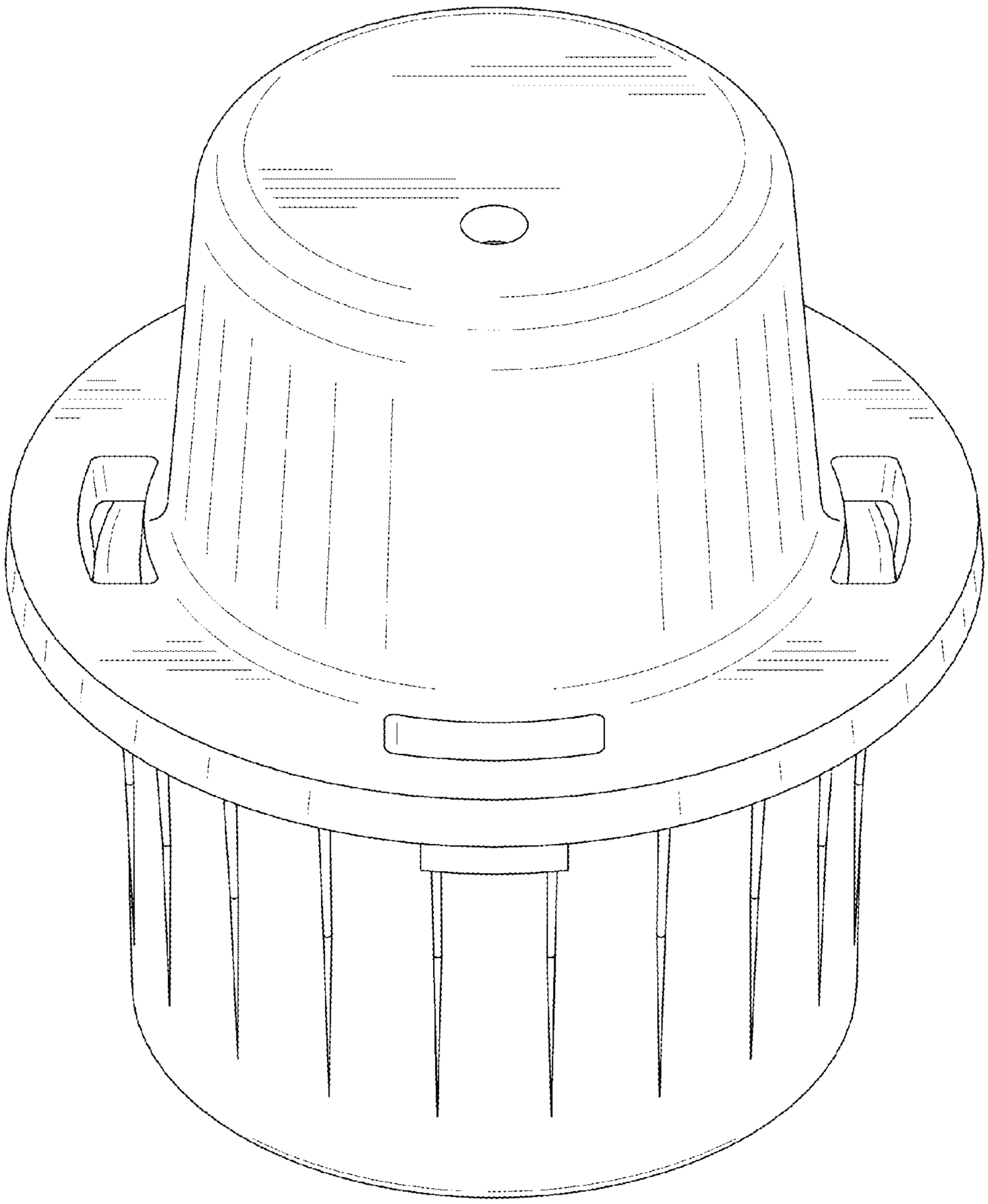


FIG. 1

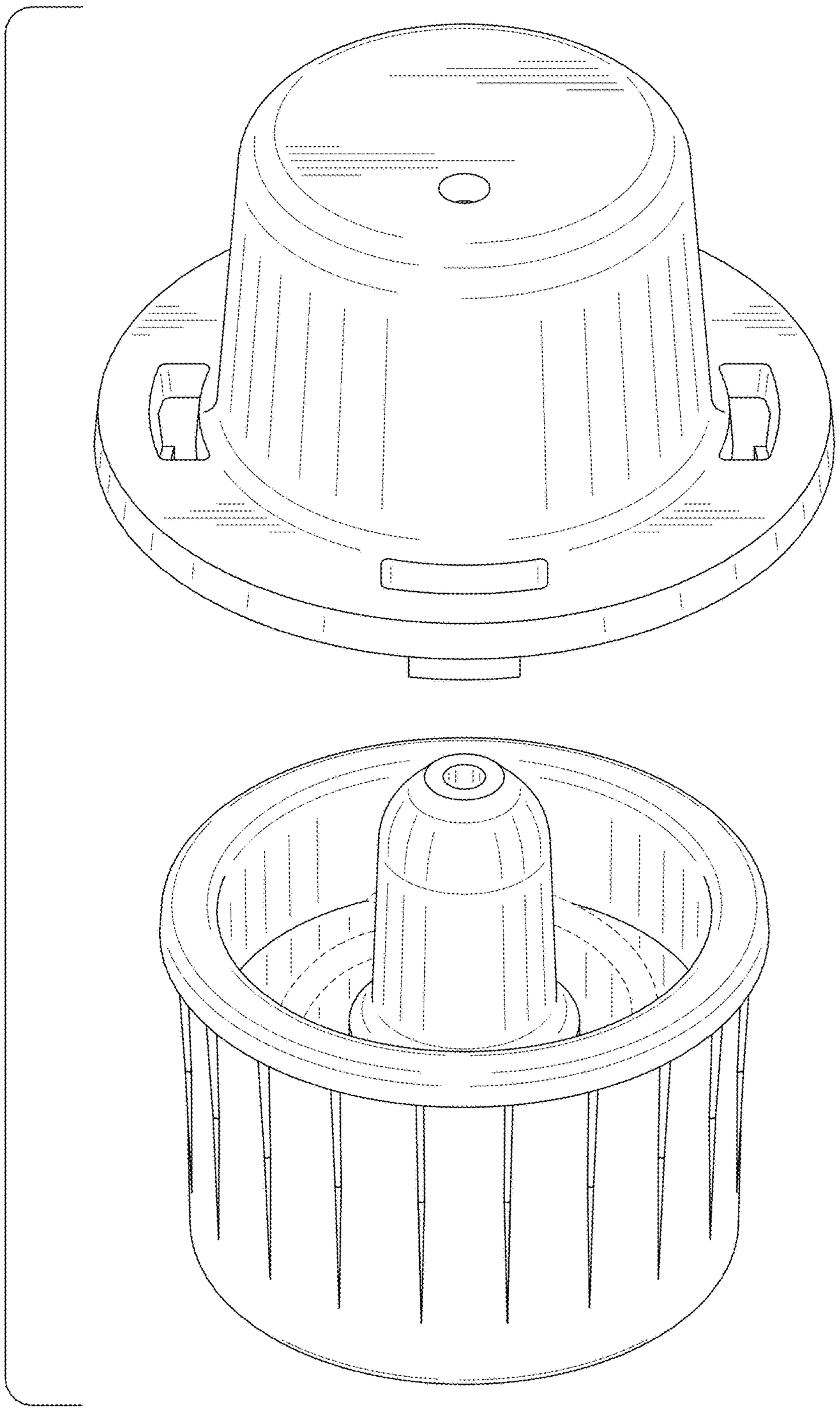


FIG. 2

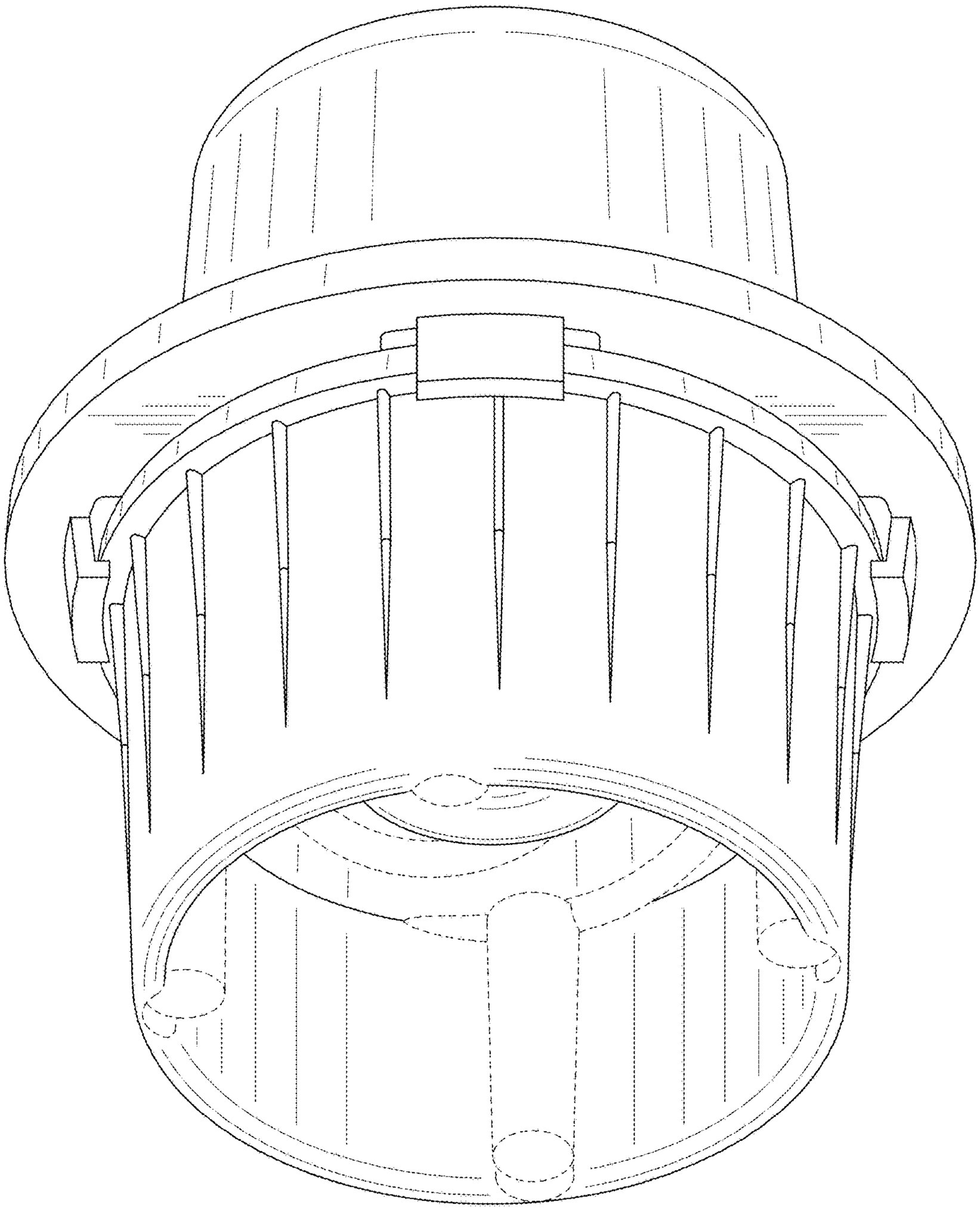


FIG. 3

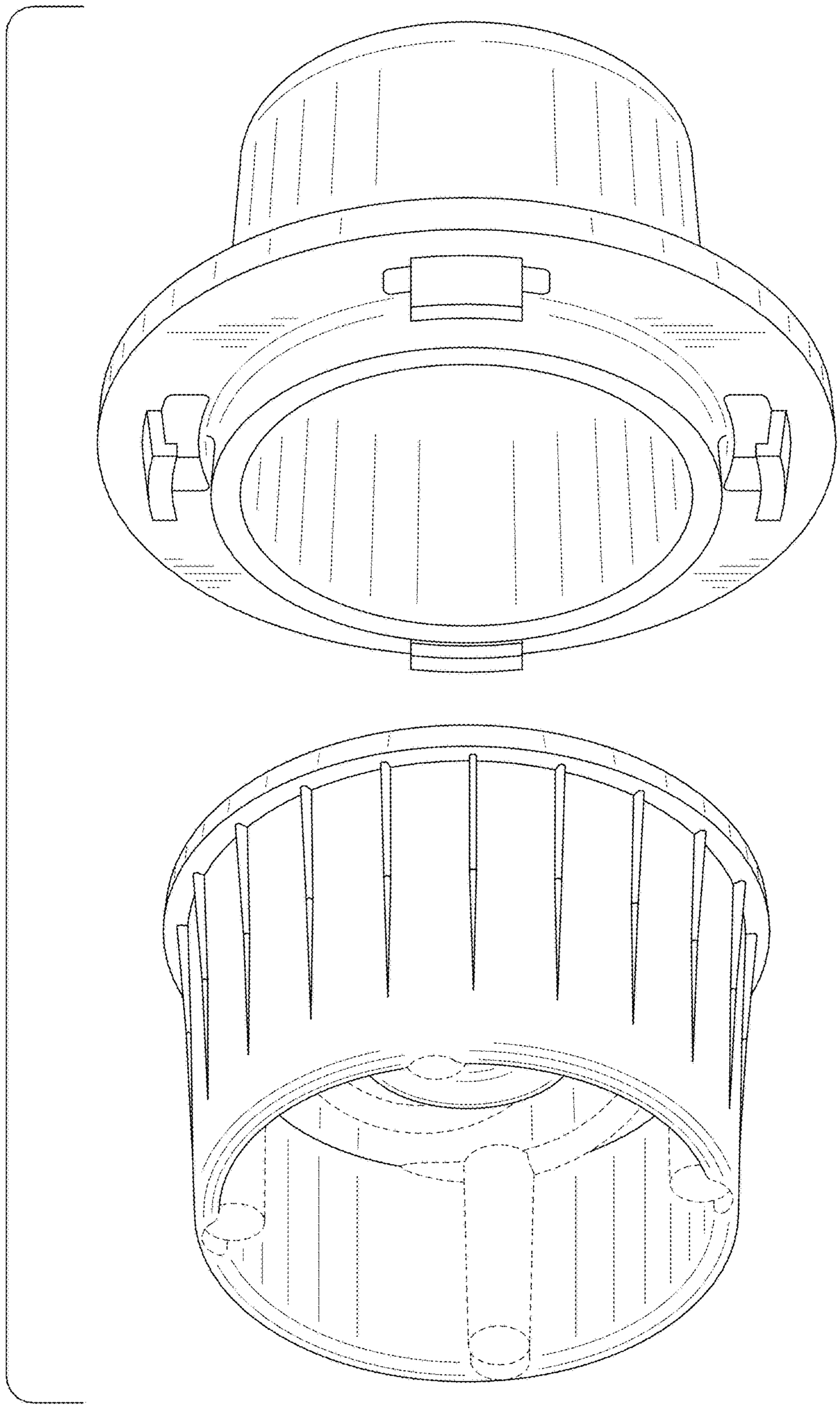


FIG. 4

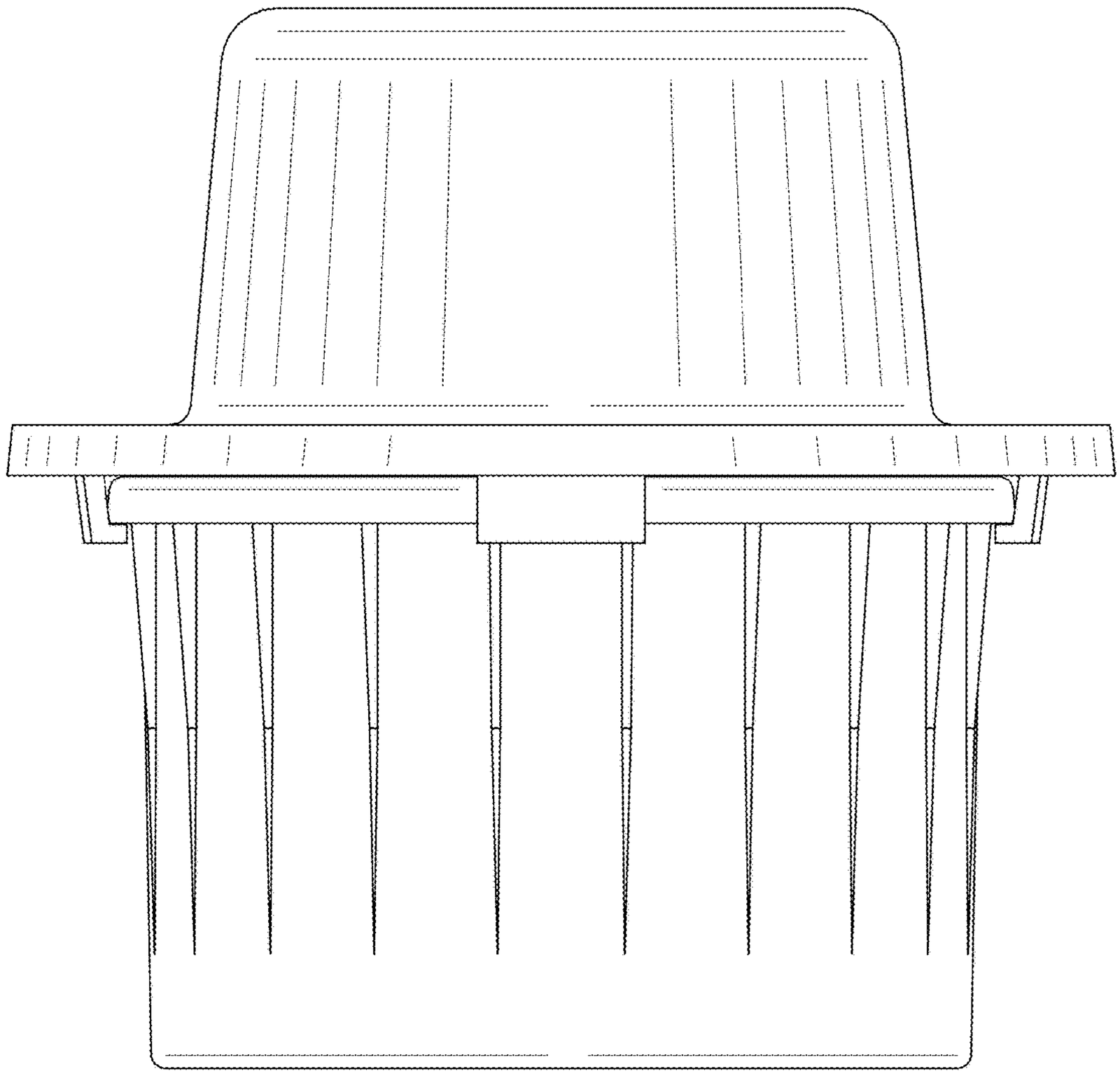


FIG. 5

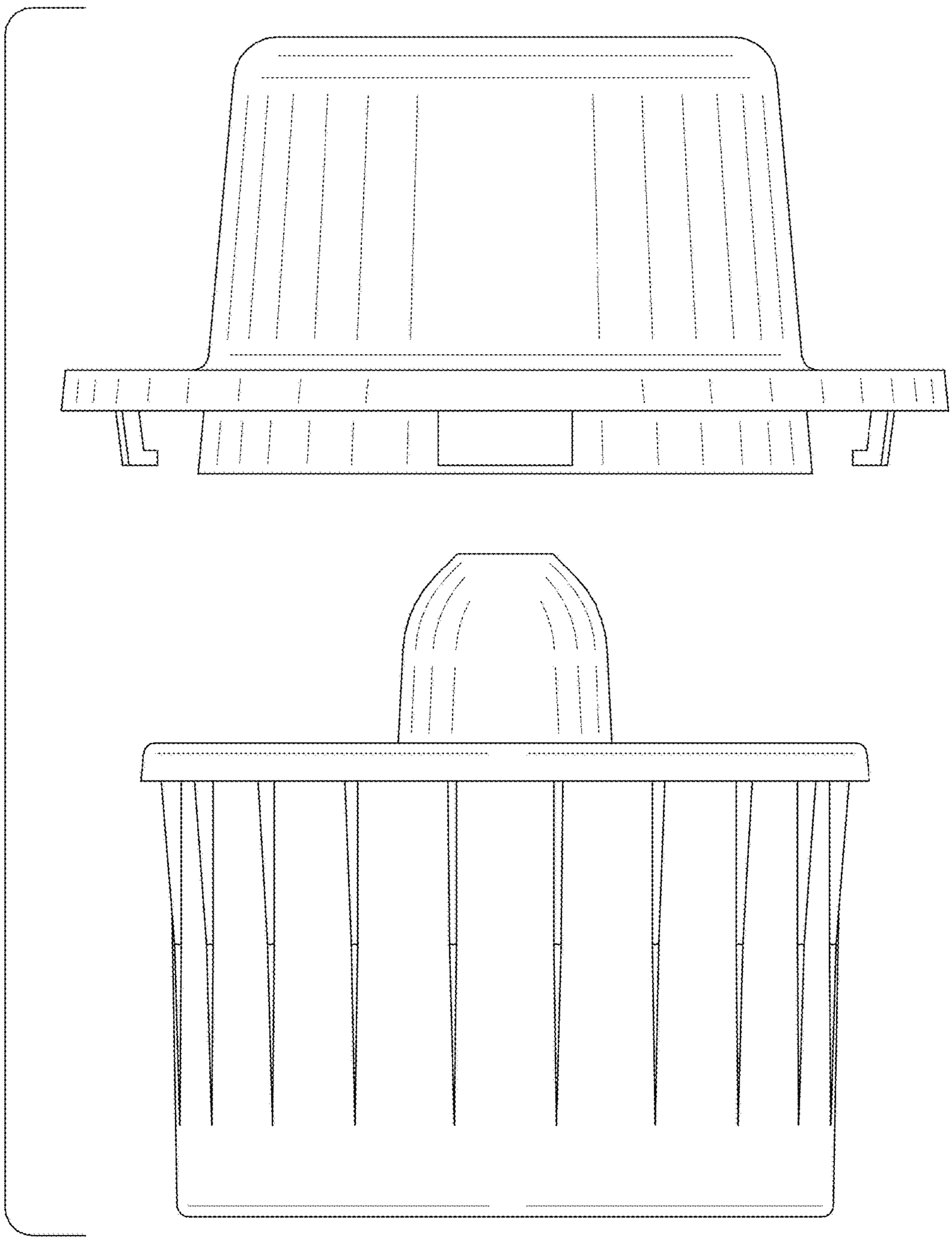


FIG. 6

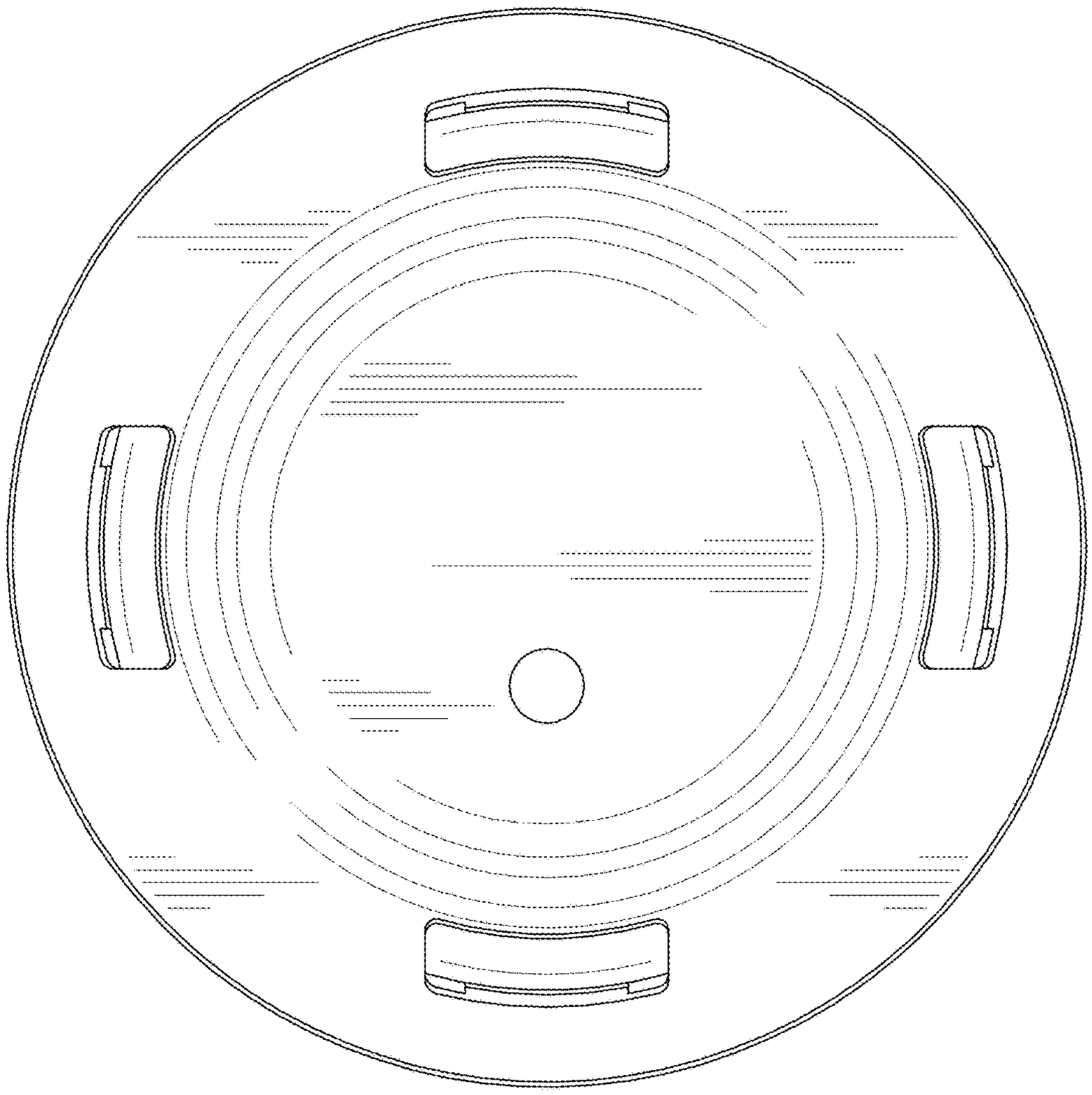


FIG. 7

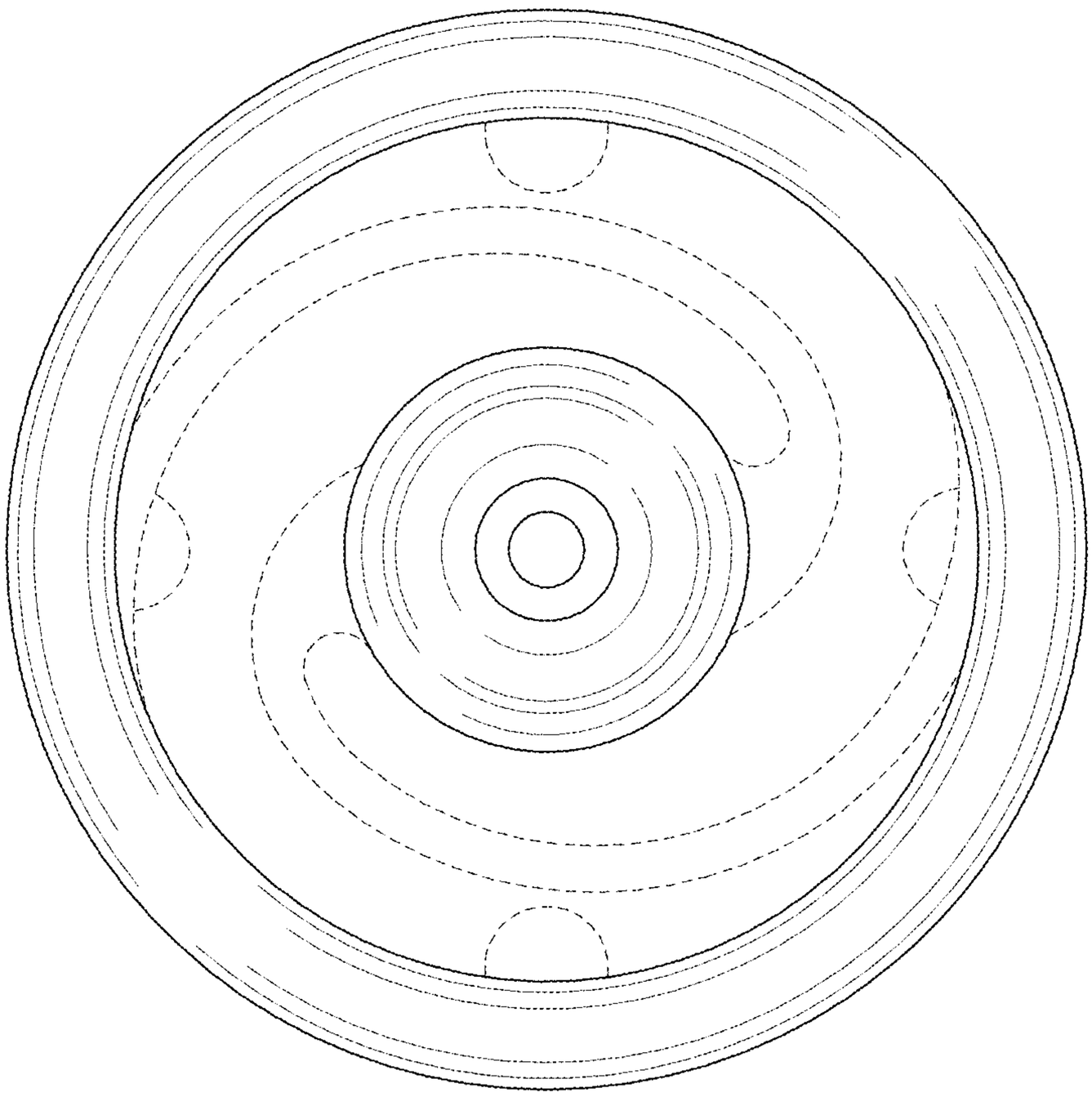


FIG. 8

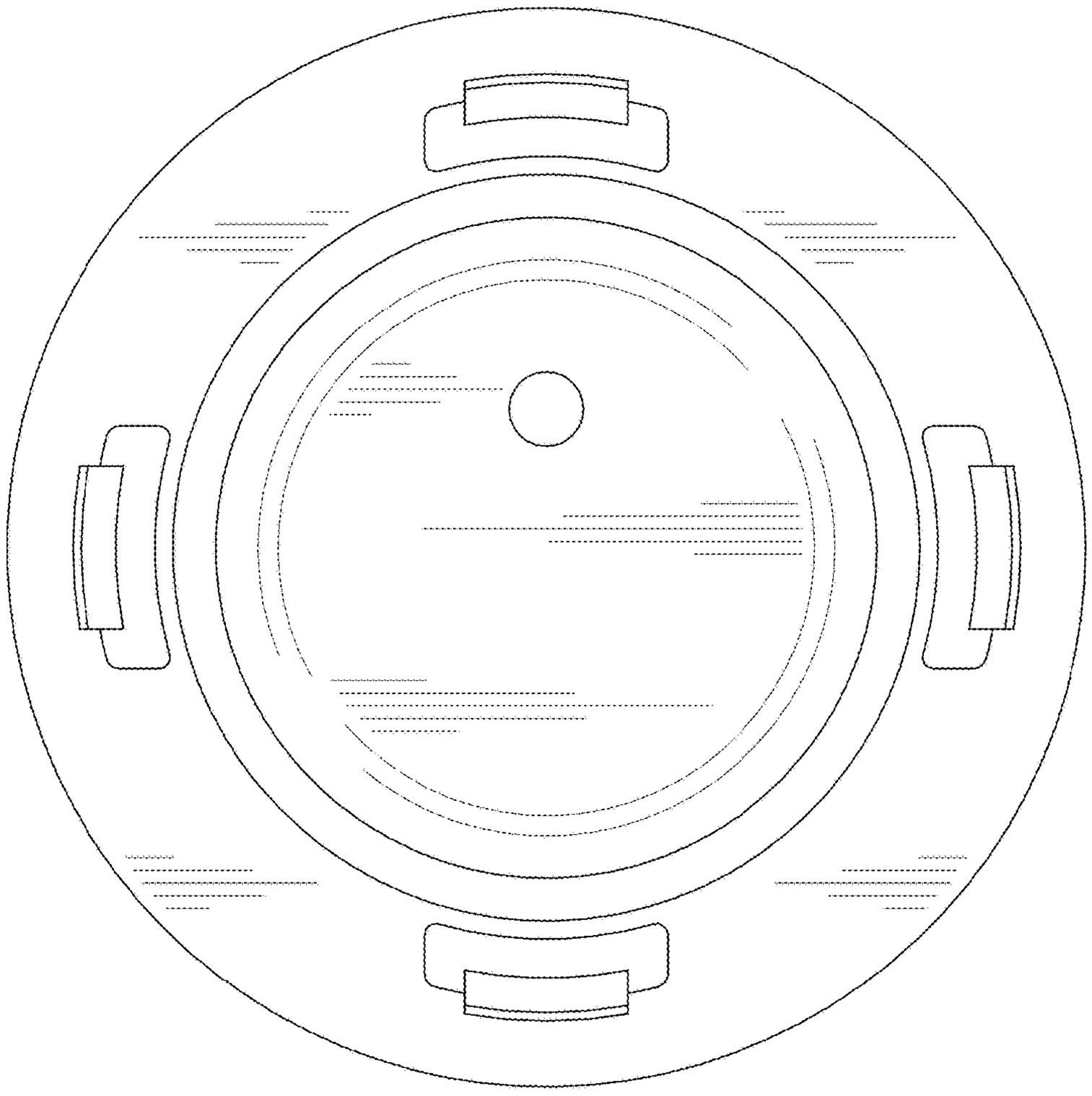


FIG. 9

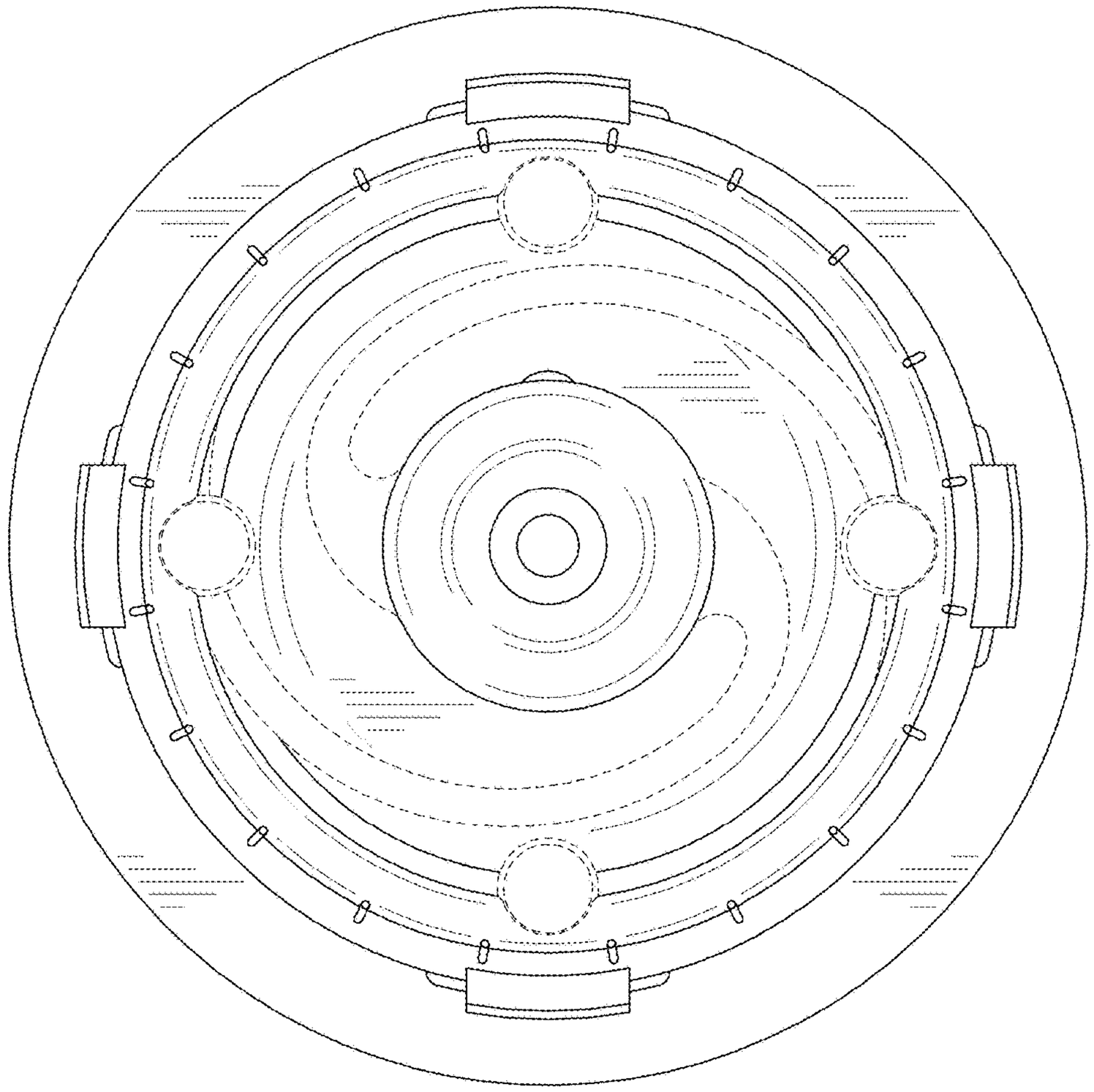
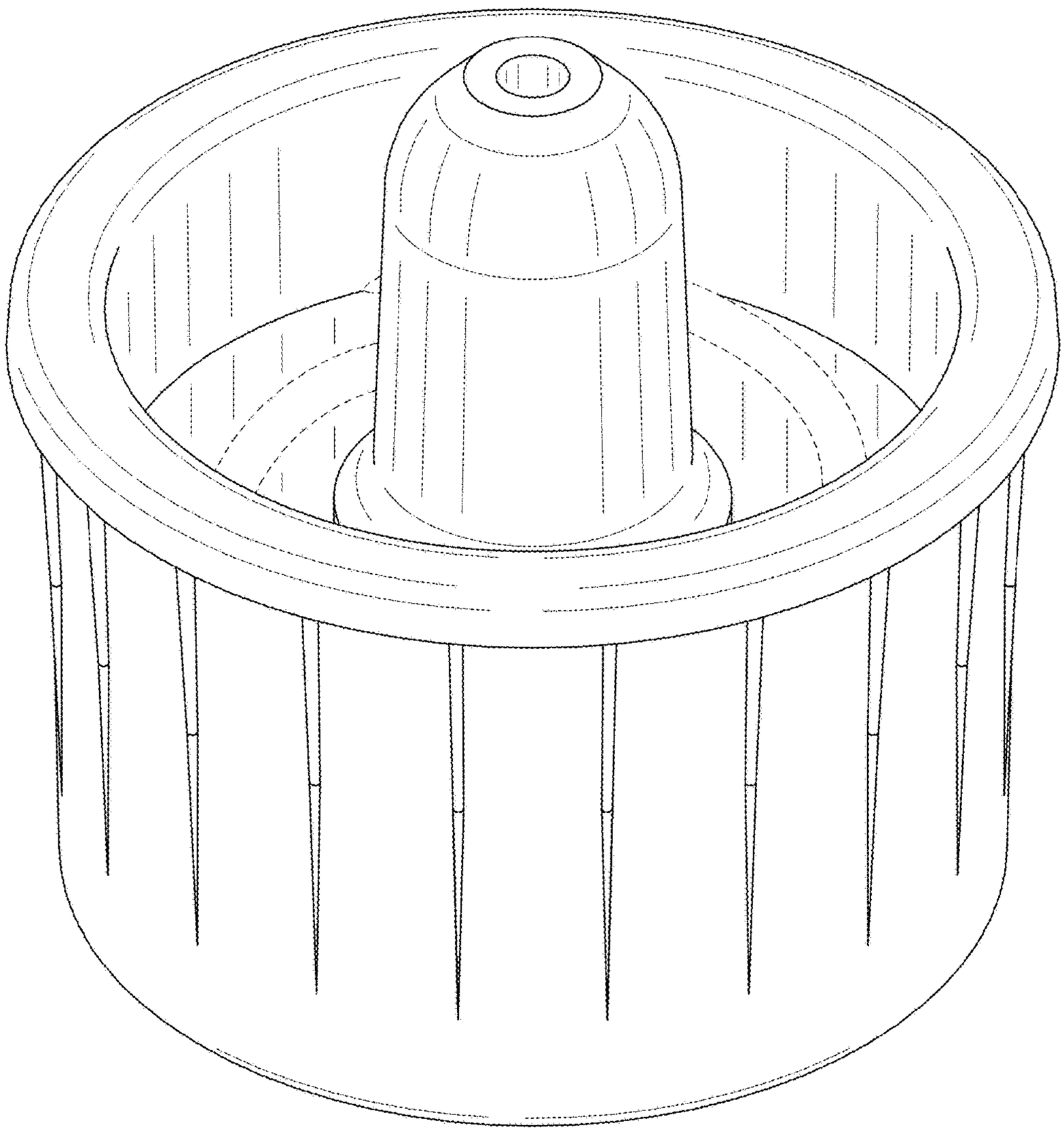


FIG. 10



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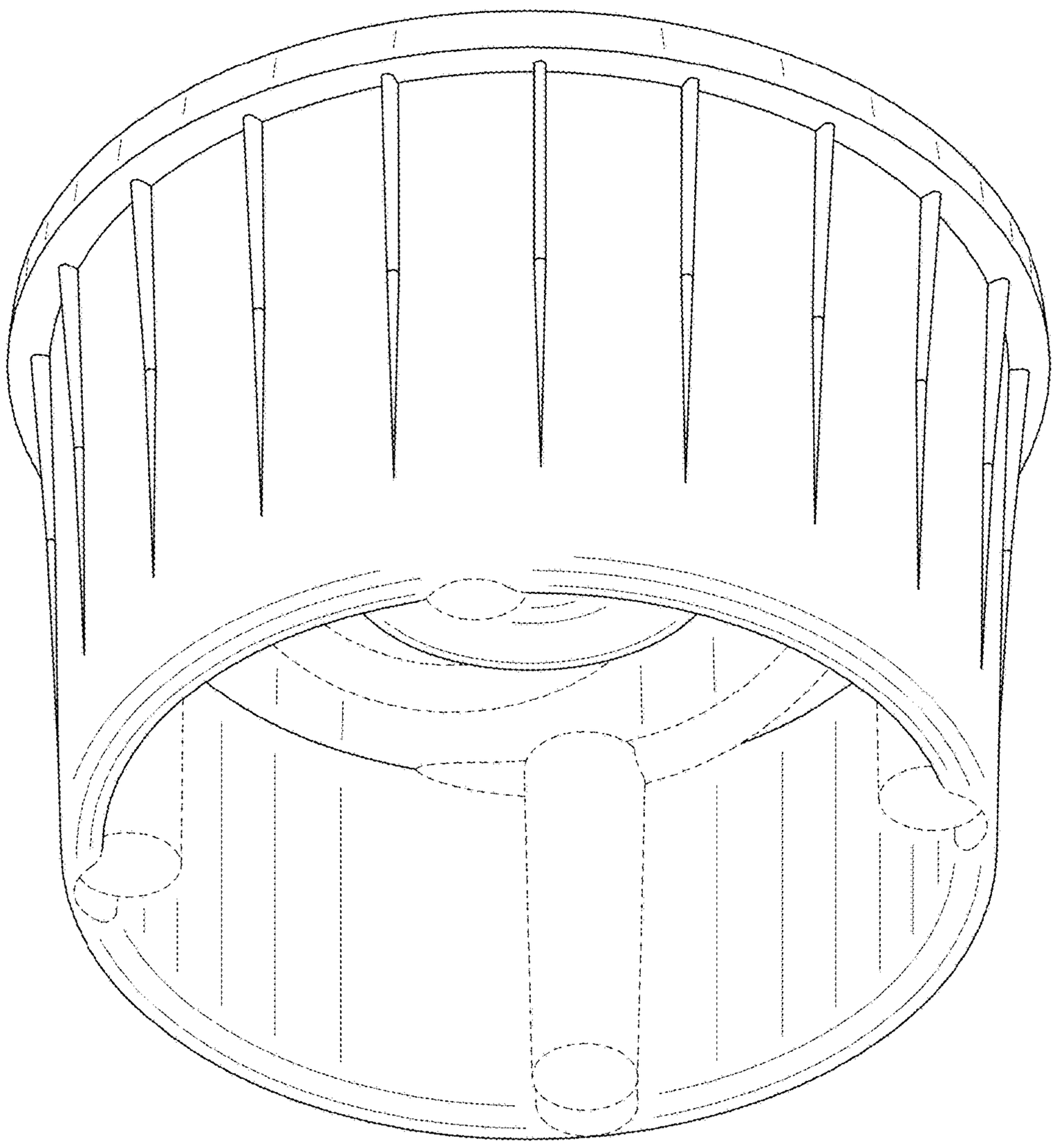


FIG. 12

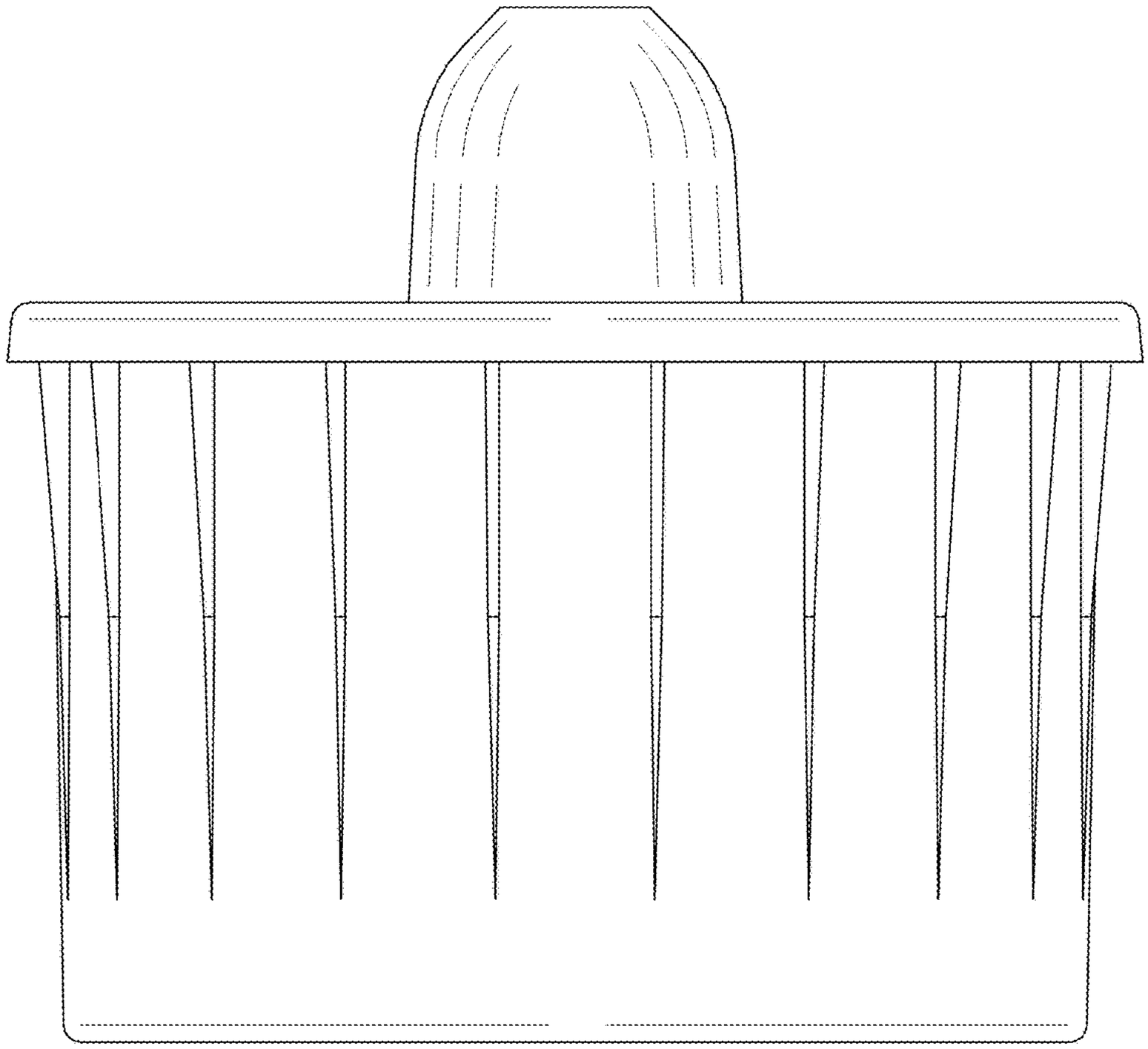
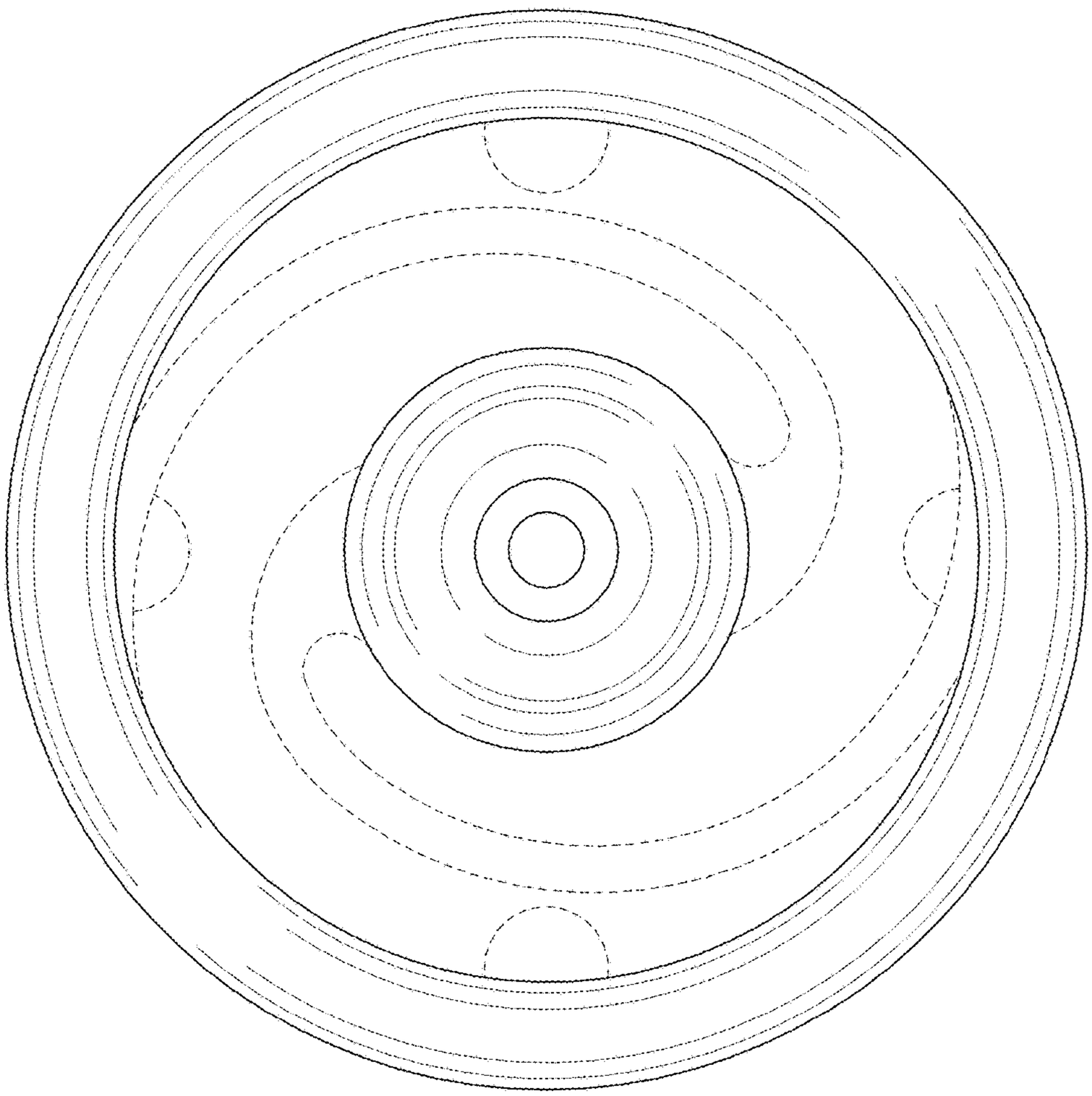


FIG. 13



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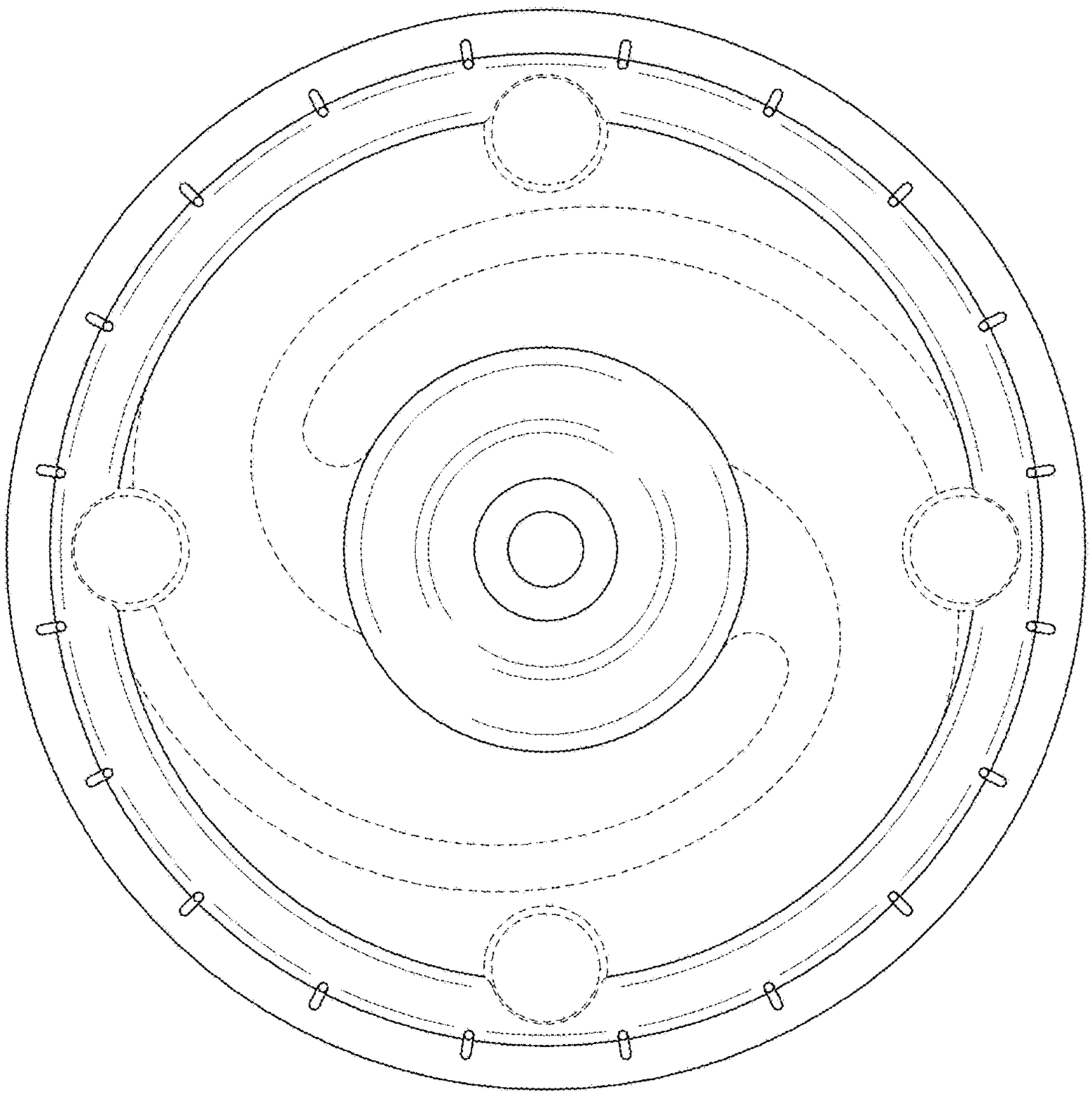

FIG. 15

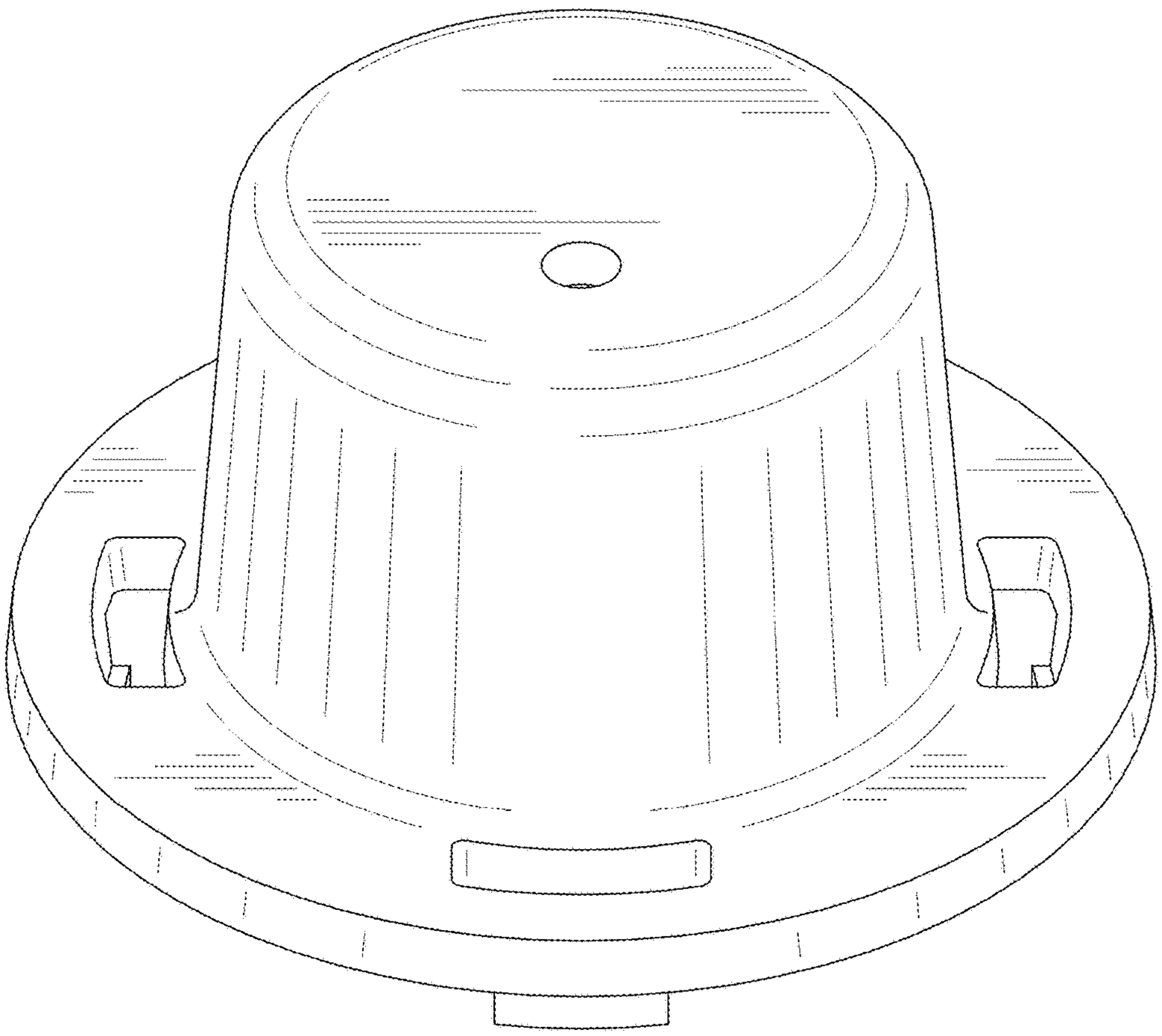

FIG. 16

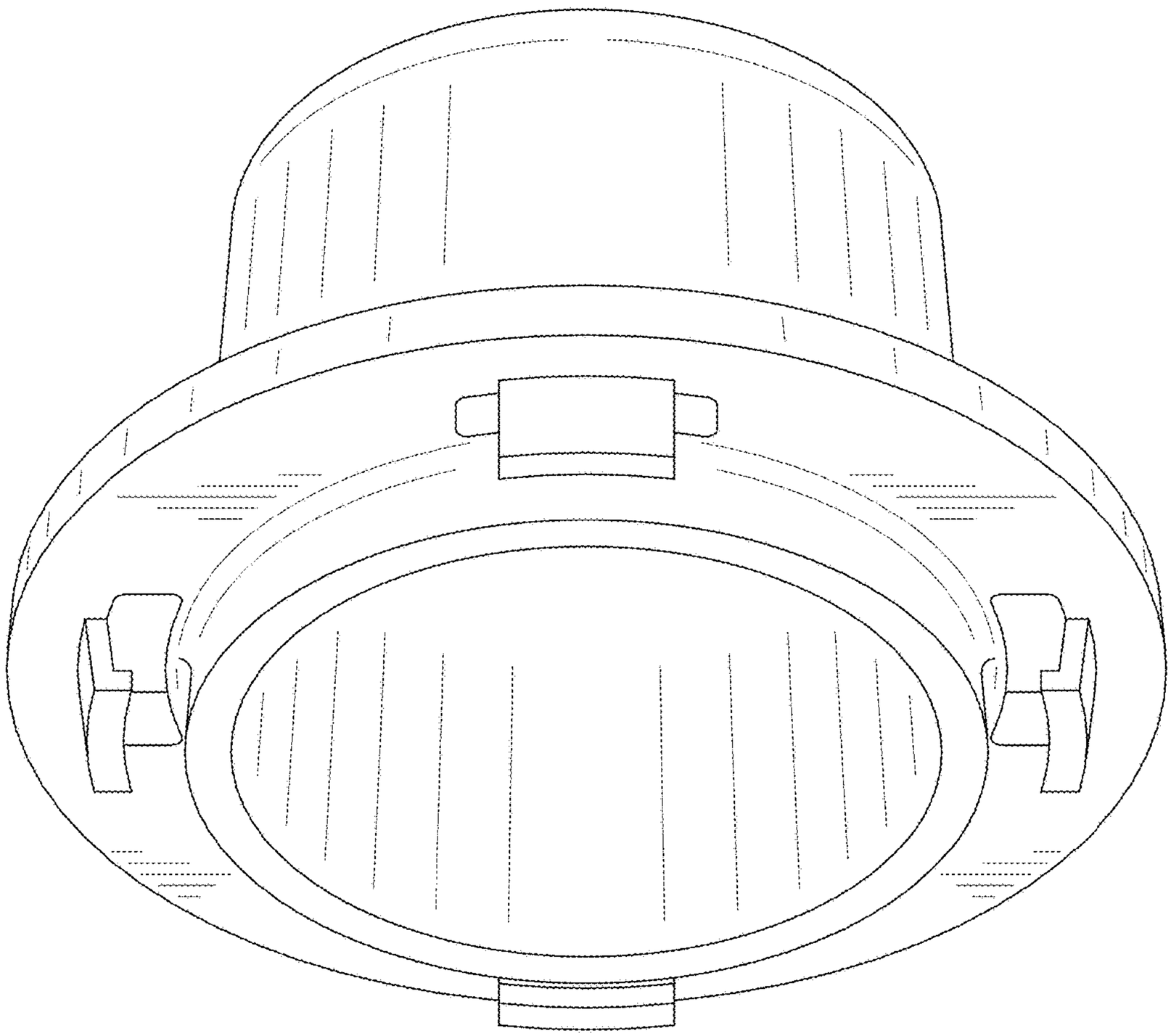

FIG. 17

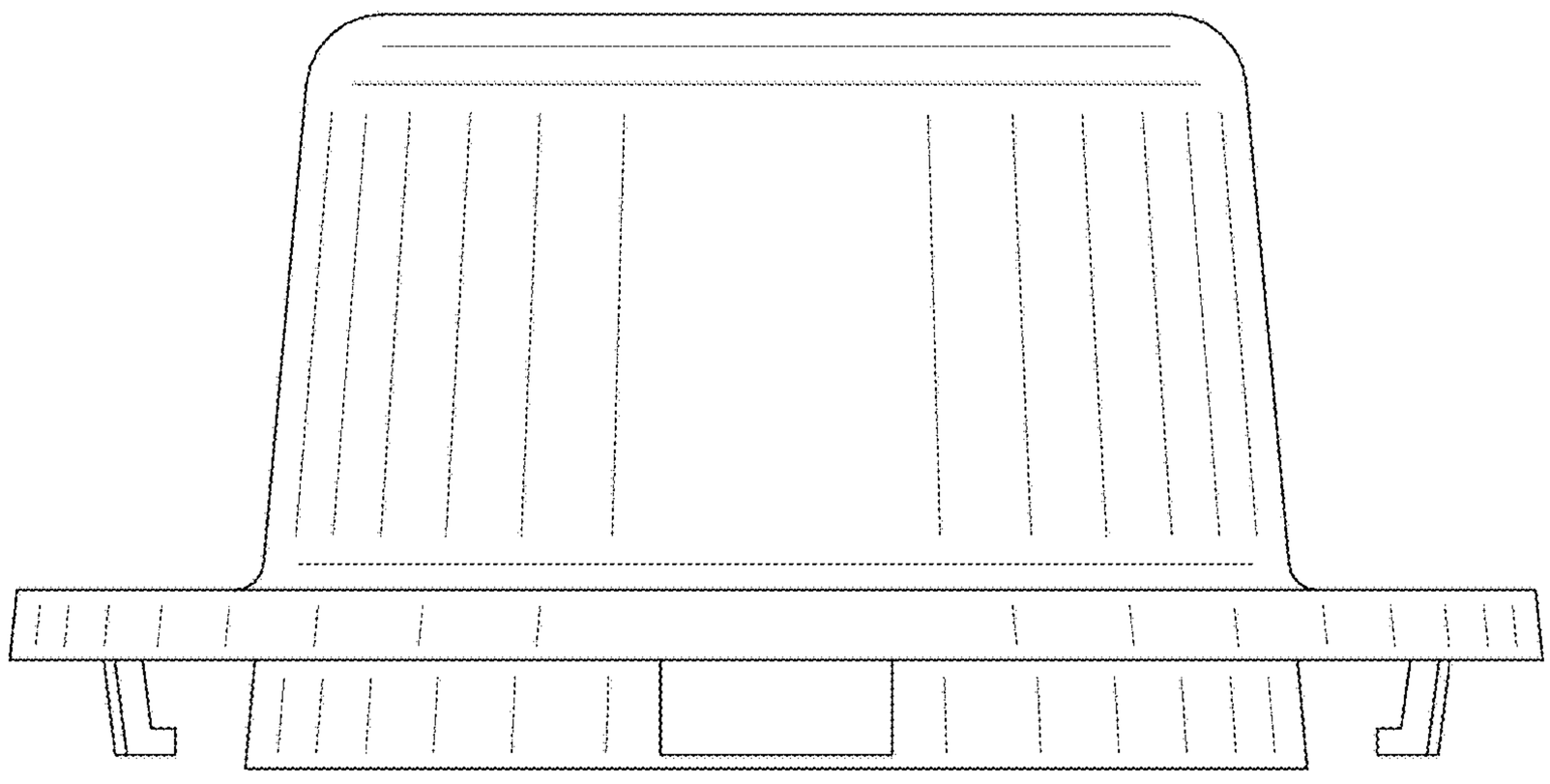

FIG. 18

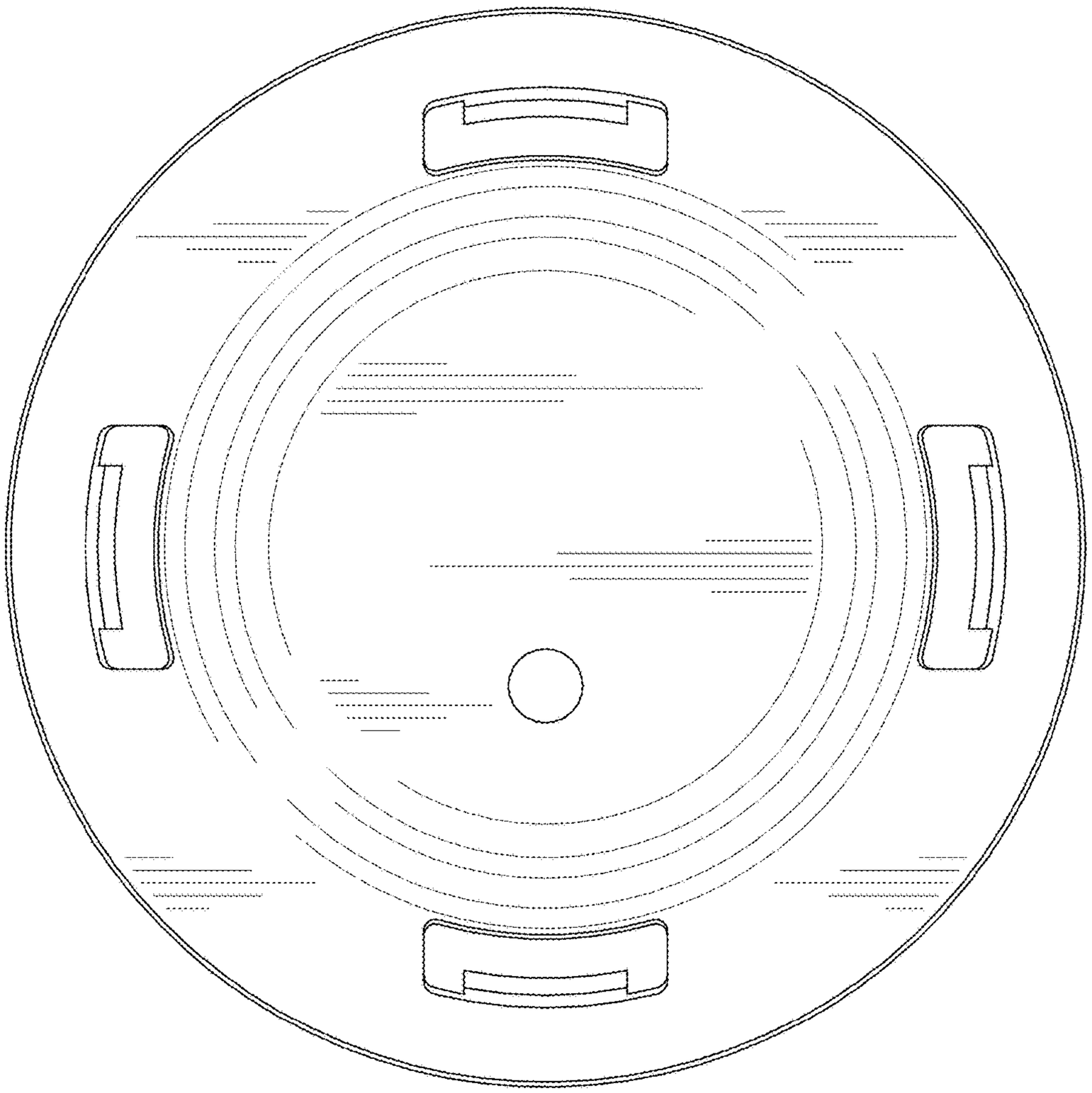

FIG. 19

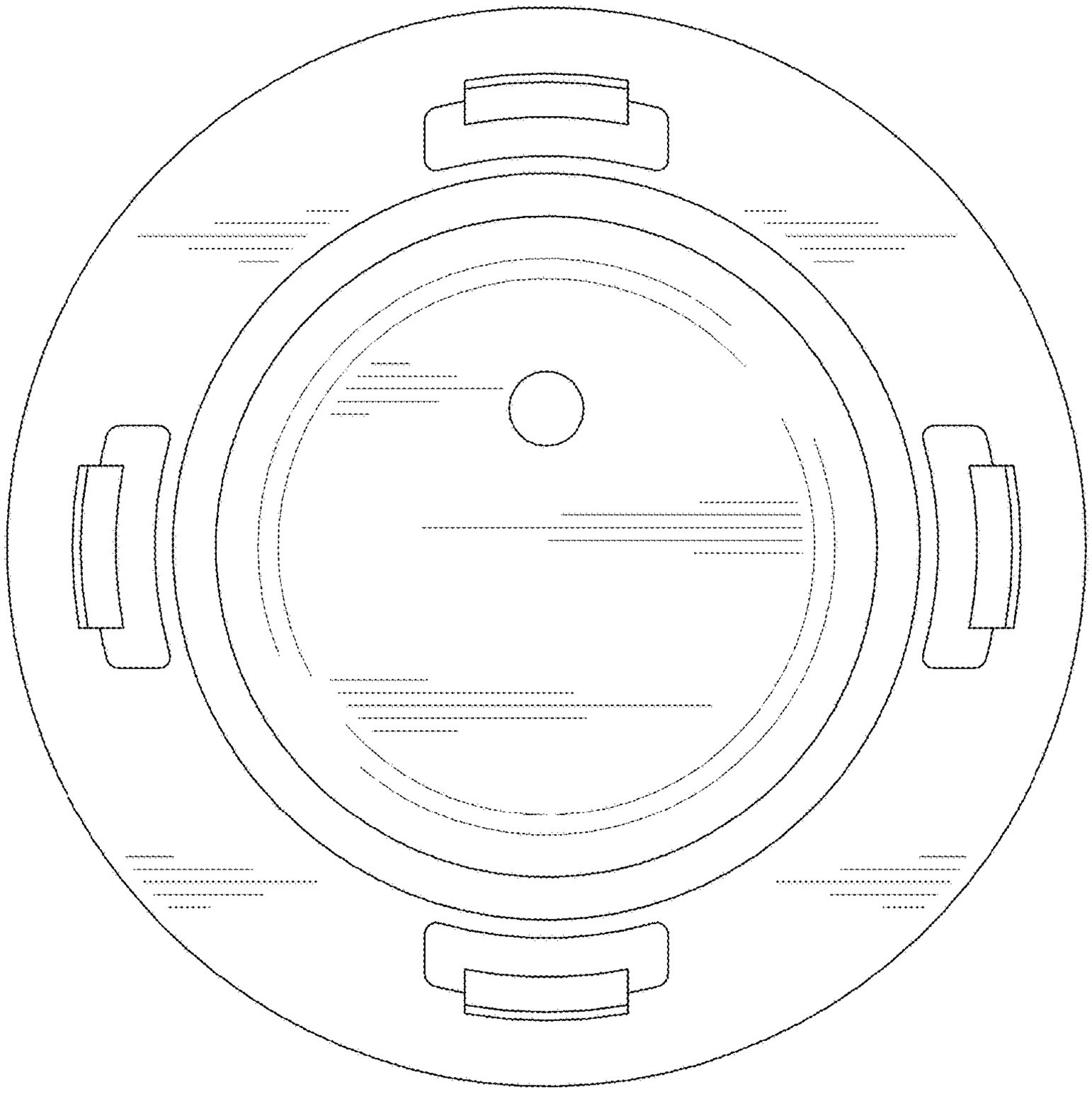

FIG. 20