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

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(54) **PLUNGER**

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(51) **LOC (11) Cl.** **15-05**

(52) **U.S. Cl.**
USPC **D32/14**

(58) **Field of Classification Search**
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D6/524
CPC D03C 1/308; A47K 11/10
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D292,631 S *	11/1987	Tash	D32/14
D306,756 S *	3/1990	Isakson	D23/231
D364,251 S *	11/1995	Novak	D32/35
D437,463 S *	2/2001	Garay	D32/14
D437,667 S *	2/2001	Hwang	D32/35
D441,507 S *	5/2001	Gholston	D32/14
D448,534 S *	9/2001	Wang	D32/35
D454,673 S *	3/2002	Hwang	D32/35
D456,574 S *	4/2002	Chen	D32/35
D457,277 S *	5/2002	Poston	D32/14
D464,775 S *	10/2002	Larson	D32/35
D465,888 S *	11/2002	Wang	D32/35
D466,658 S *	12/2002	Van Dam	D32/14
D491,702 S *	6/2004	Tash	D32/14

D509,333 S *	9/2005	Tash	D32/35
D511,597 S *	11/2005	Morrow	D32/14
D514,760 S *	2/2006	Schoolcraft	D32/35
D535,073 S *	1/2007	Leaphart	D32/35
D647,671 S *	10/2011	Stein	D32/14
D684,325 S *	6/2013	Newman	D32/14
D688,840 S *	8/2013	Wu	D32/14
D690,959 S *	10/2013	Yang	D6/524
D722,210 S *	2/2015	Gwen	D32/14
9,631,349 B2 *	4/2017	Petner	E03C 1/308
2005/0172385 A1 *	8/2005	Jiang	E03C 1/308 4/255.05
2009/0106887 A1 *	4/2009	Dressel	E03C 1/308 4/255.11
2011/0016621 A1 *	1/2011	Kares	E03D 9/00 4/255.11
2013/0036542 A1 *	2/2013	Loughman	A47K 11/10 4/255.11

(Continued)

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Ltd.

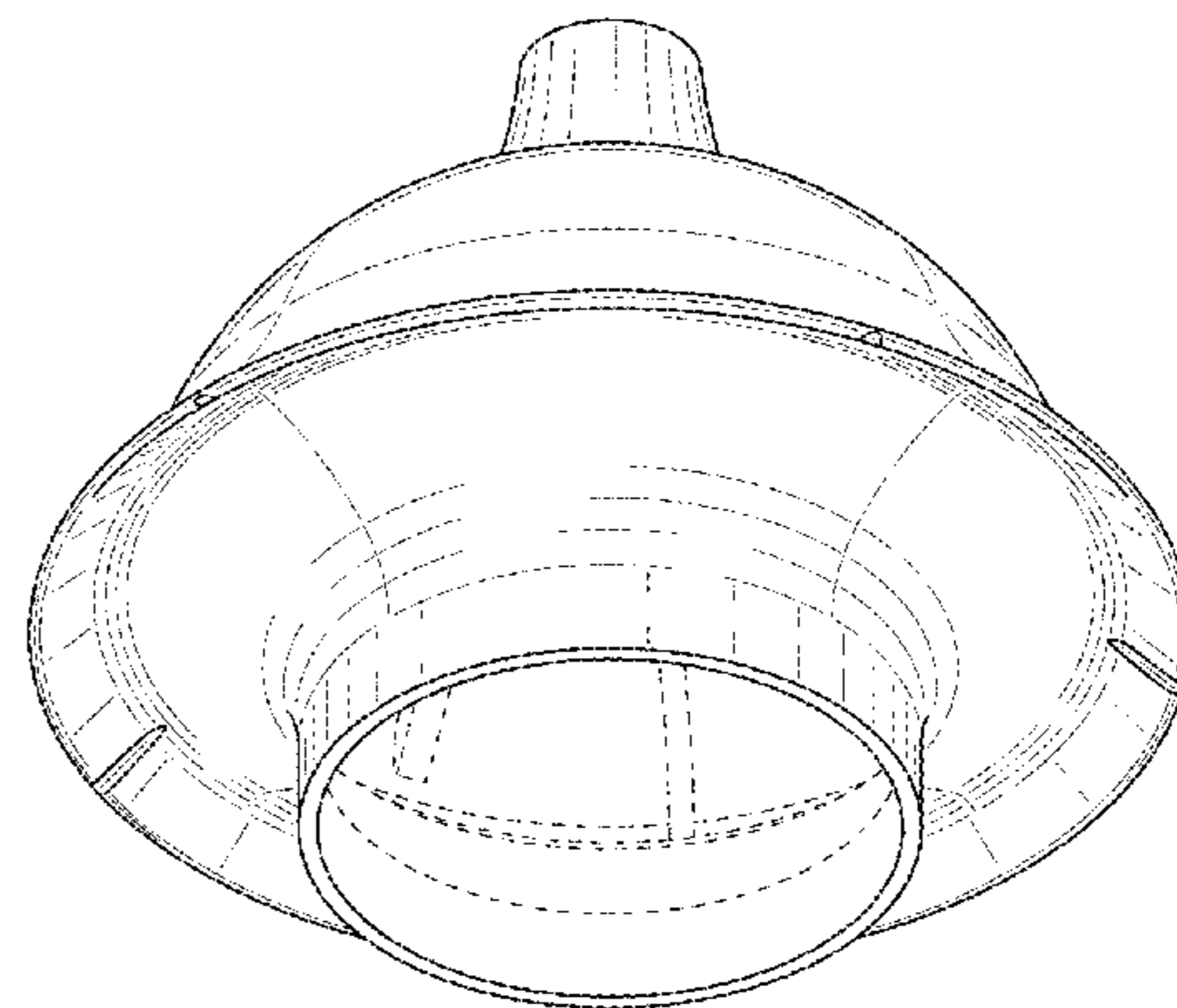
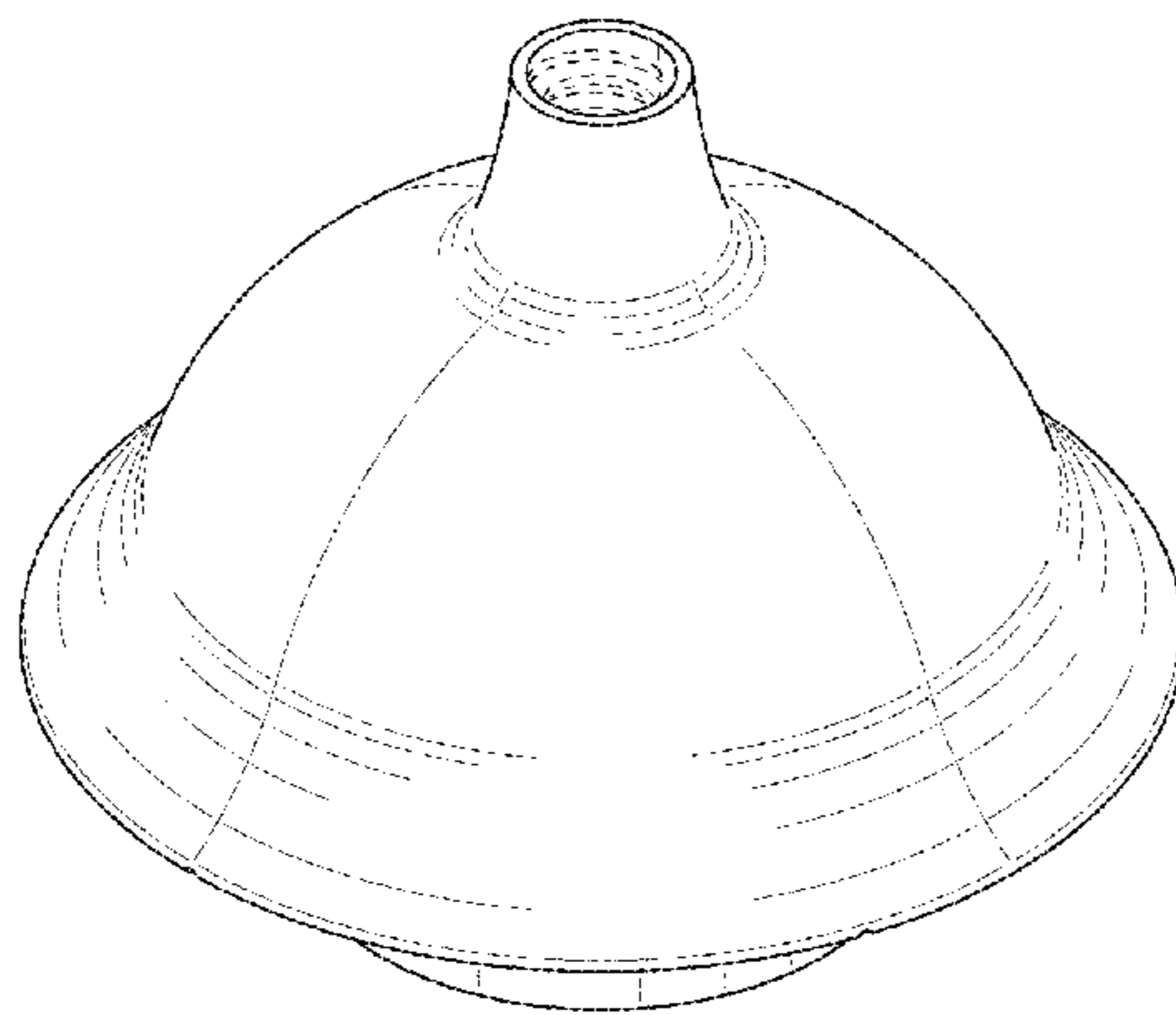
(57) **CLAIM**

The ornamental design for a plunger, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view taken from the front and top of a plunger in accordance with our new design.
FIG. 2 is a perspective view taken from the front and bottom of the plunger of FIG. 1.
FIG. 3 is a right side elevational view of the plunger of FIG. 1.
FIG. 4 is a front elevational view of the plunger of FIG. 1.
FIG. 5 is a top plan view of the plunger of FIG. 1; and,
FIG. 6 is a bottom plan view of the plunger of FIG. 1.
The rear and left views are the same as respective front and right elevational views.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2013/0125298 A1* 5/2013 Guthrie E03D 9/00
4/255.11
2014/0033419 A1* 2/2014 Daciw E03C 1/308
4/255.11
2014/0075661 A1* 3/2014 Zeng E03D 9/00
4/255.11
2014/0115768 A1* 5/2014 Wang E03D 9/00
4/255.11
2015/0240466 A1* 8/2015 Schultz A47K 11/10
4/255.11
2016/0000281 A1* 1/2016 Butts A47G 29/08
206/581
2016/0017583 A1* 1/2016 Petner E03C 1/308
4/255.11
2016/0298322 A1* 10/2016 Zavala E03D 11/00

* cited by examiner

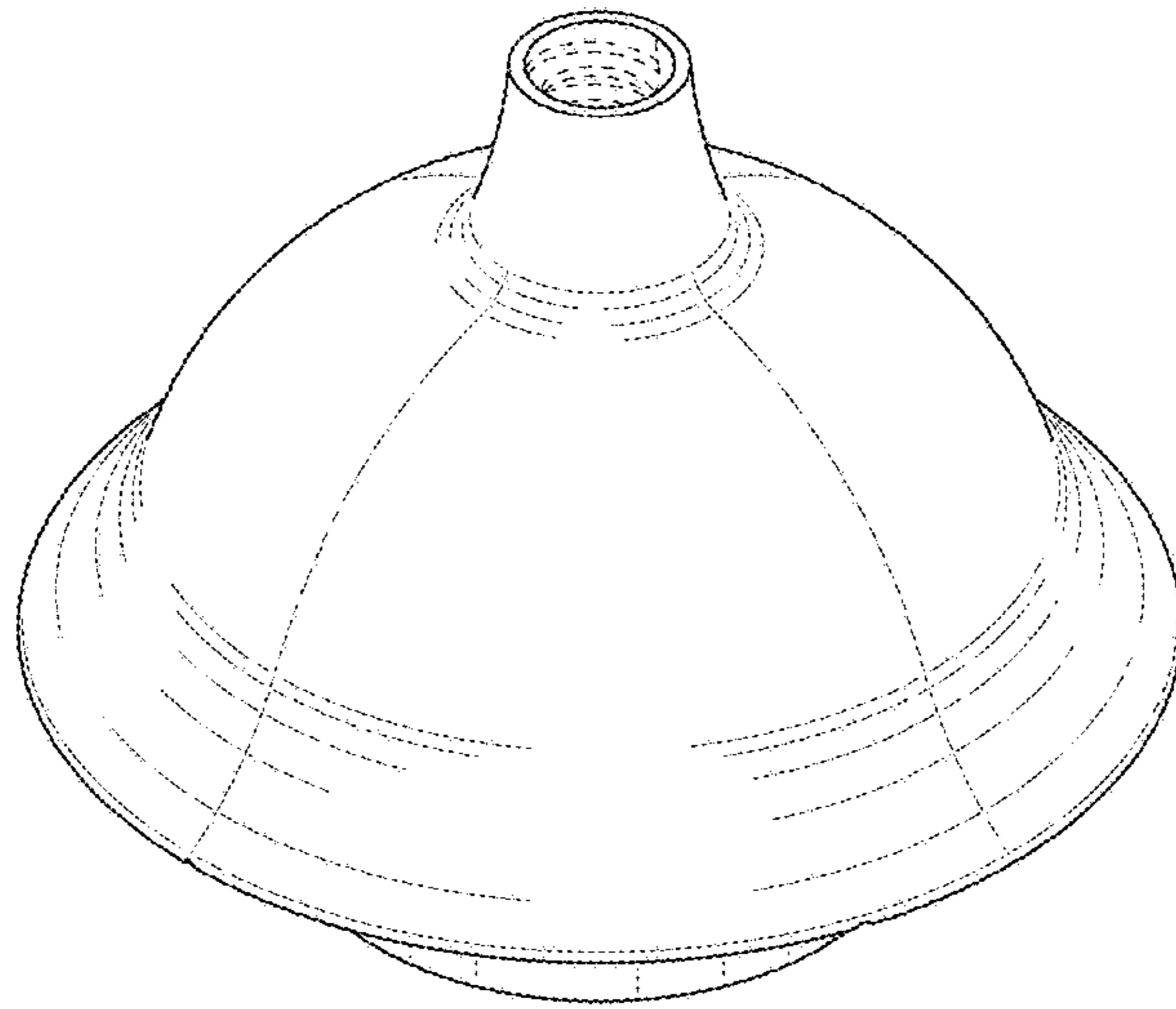


FIG. 1

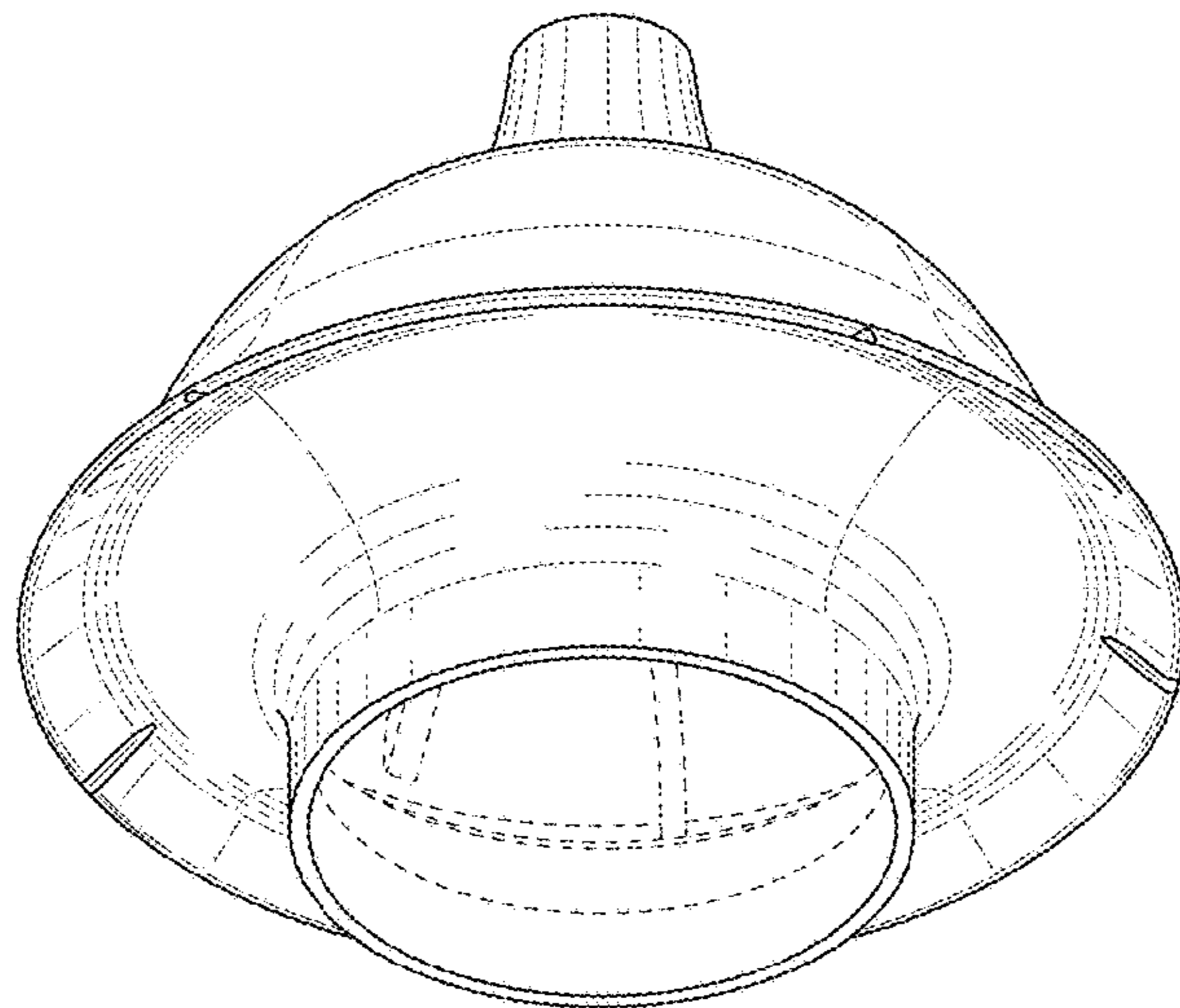


FIG. 2

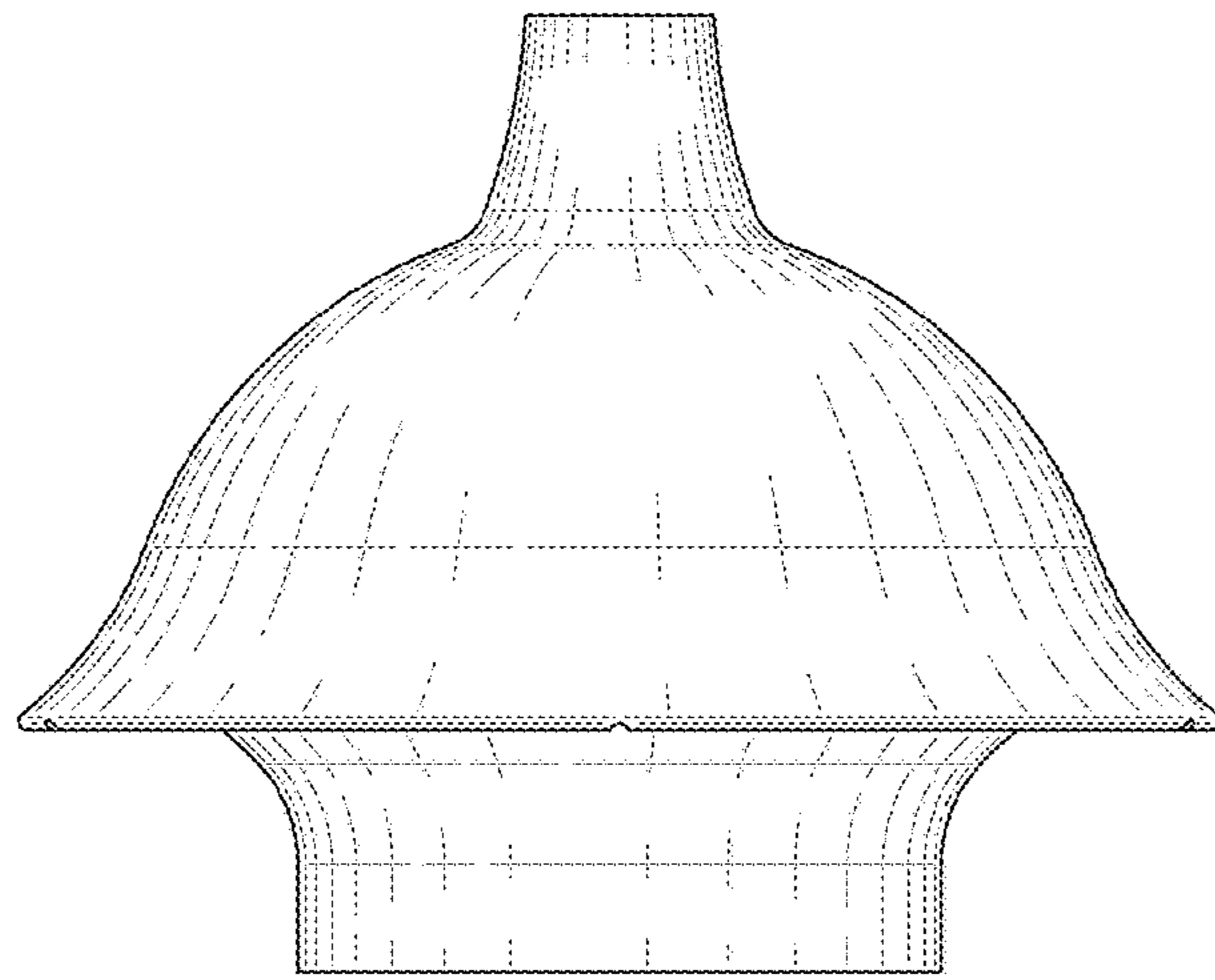


FIG. 3

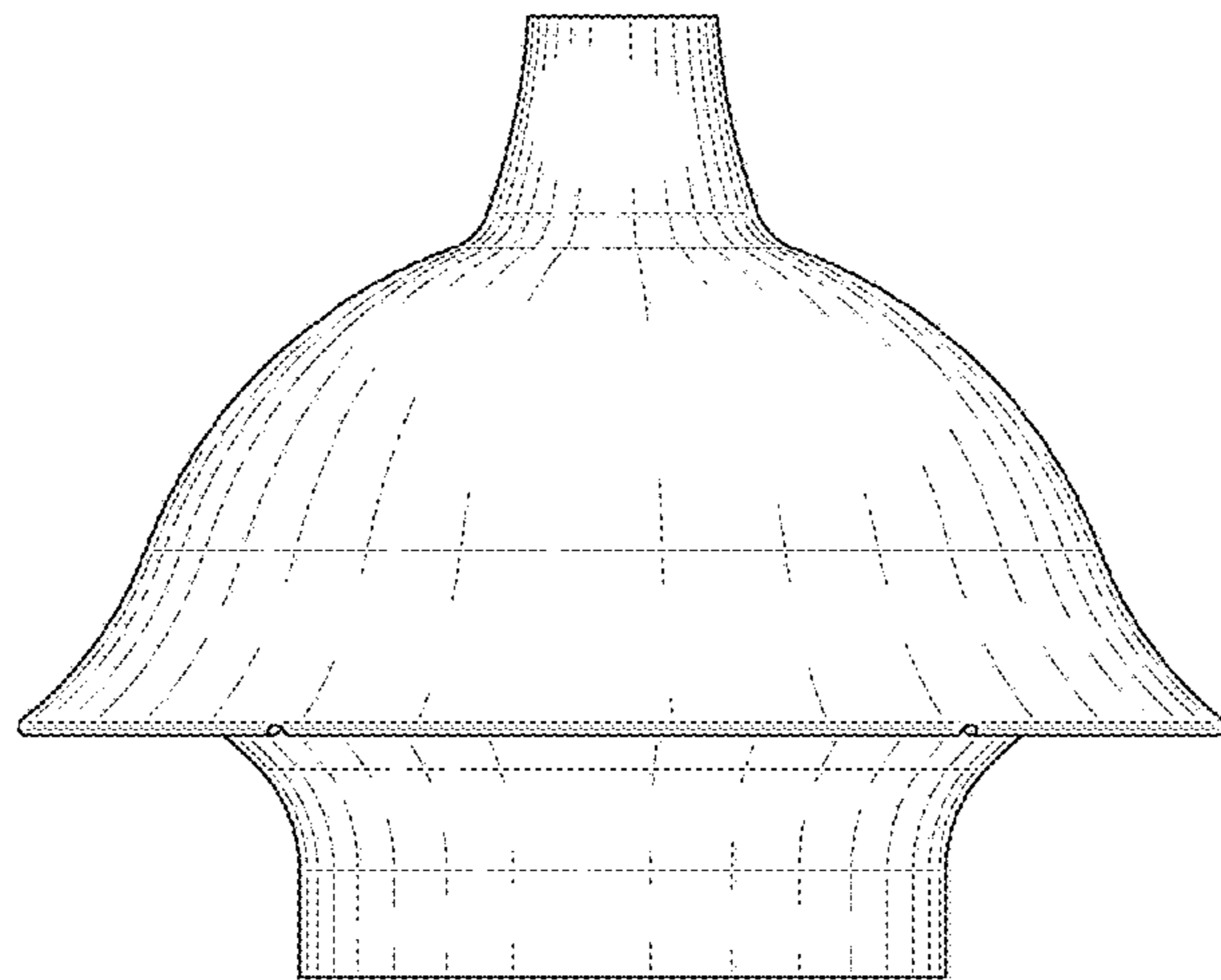


FIG. 4

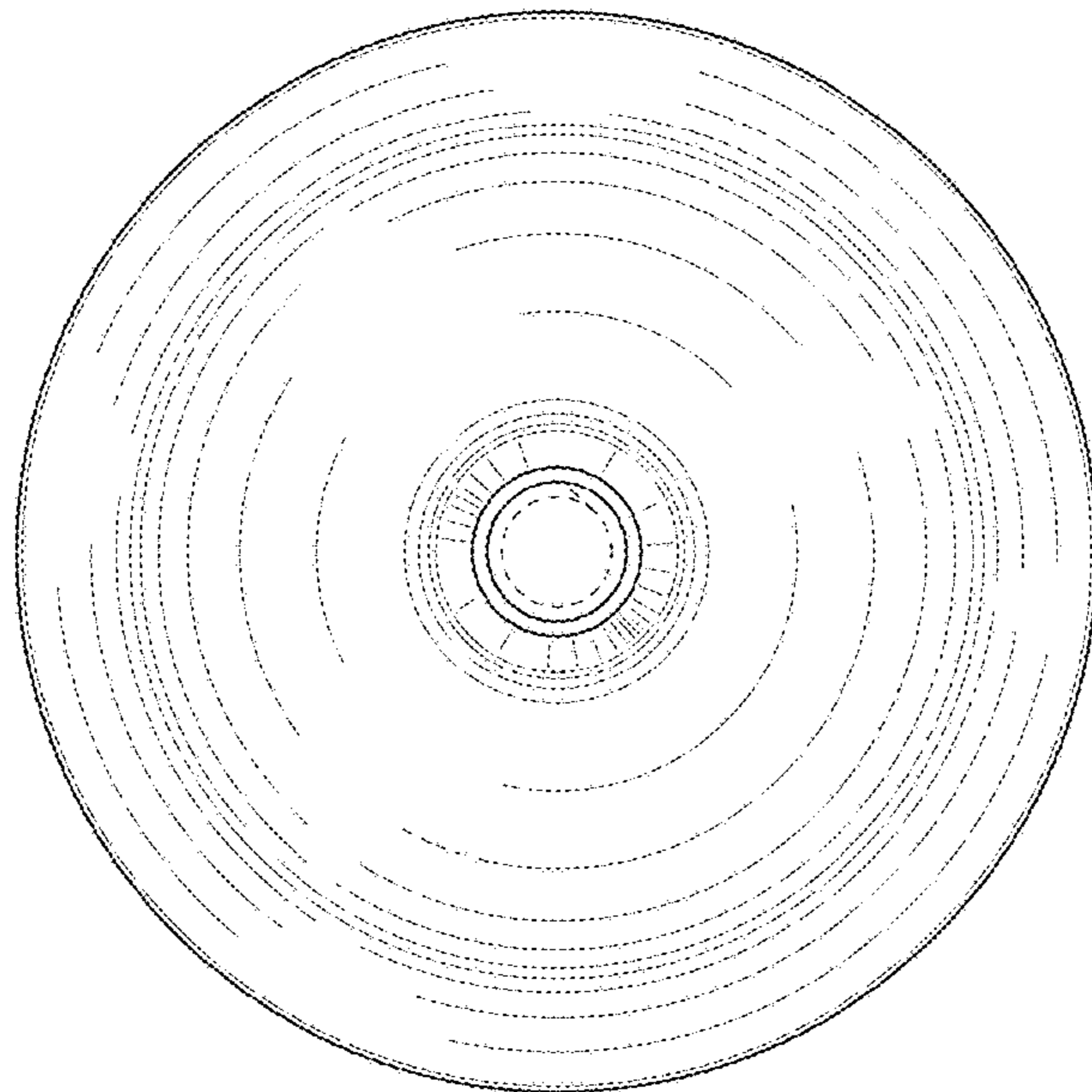


FIG. 5

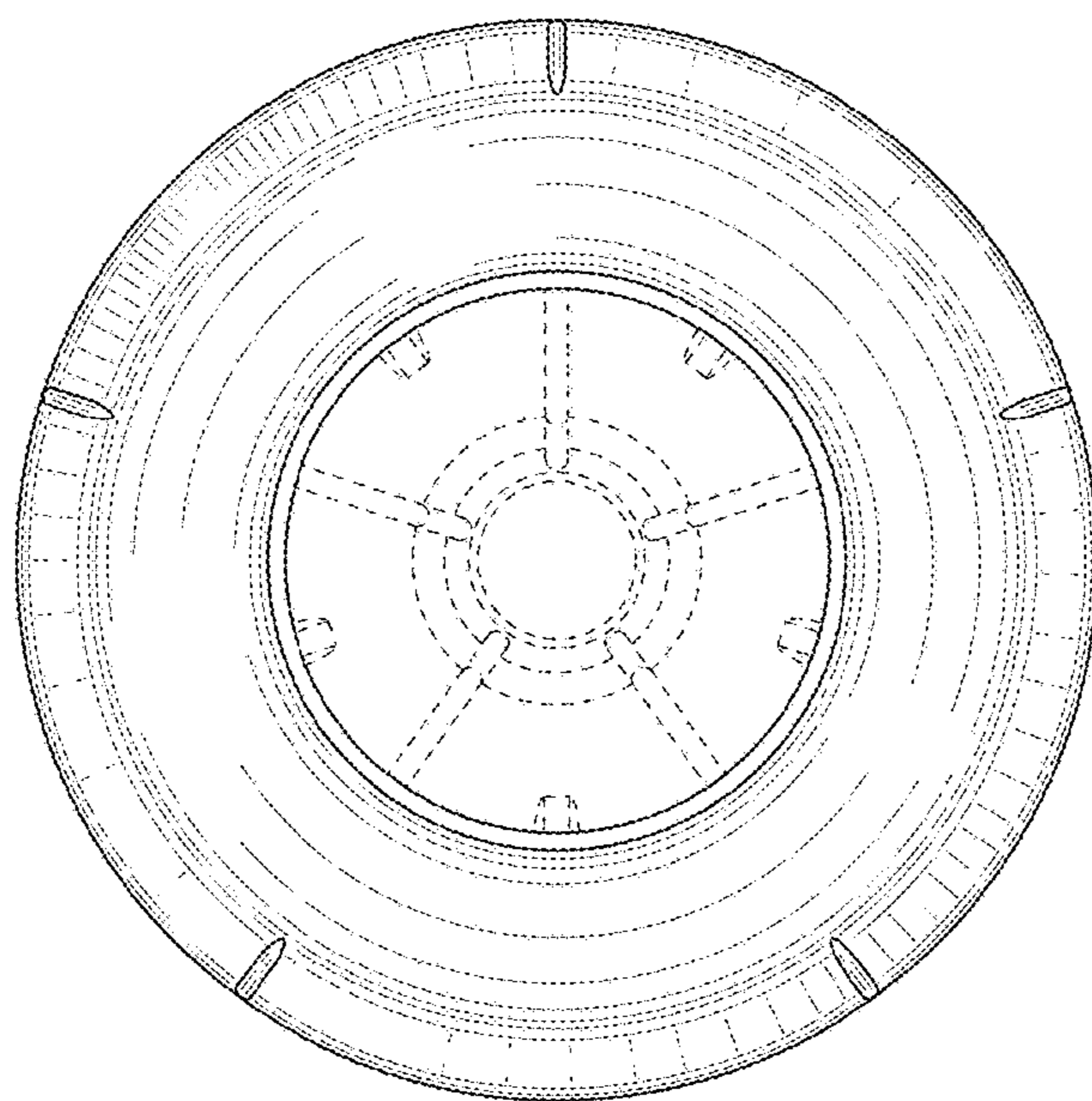


FIG. 6