



US00D923257S

(12) **United States Design Patent** (10) **Patent No.:** **US D923,257 S**  
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(\*\*) Term: **15 Years** See application file for complete search history.

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(56) **References Cited**

(22) Filed: **Jan. 11, 2021**

U.S. PATENT DOCUMENTS

(51) **LOC (13) Cl.** ..... **30-07**

D333,886 S *	3/1993	Kennedy	.....	D30/122
D334,251 S *	3/1993	Tiu	.....	D30/122
D348,336 S *	6/1994	Woo	.....	D30/122
D351,261 S *	10/1994	Woo	.....	D30/122
5,404,838 A *	4/1995	Khan	.....	A01K 5/0114 119/51.5
D432,279 S *	10/2000	Kim	.....	D30/121
6,378,460 B1 *	4/2002	Skurdalsvold	.....	A01K 5/0114 119/51.5

(52) **U.S. Cl.**

USPC ..... **D30/122**

(58) **Field of Classification Search**

USPC ..... D30/121, 122, 129-133, 120; 119/61.5, 119/51.01, 61.56, 51.03, 59, 62, 63, 51.5, 119/57.8, 74, 61.54, 61.55, 53, 53.5, 75, 119/56.2, 51.02, 51.11, 51.12, 57.1, 52.1, 119/515; 312/204; 248/151, 188; 108/156, 153.1-157; 220/23.87, 630, 220/737, 743, 9.4, 495.01, 574, 212, 255, 220/23.83; 206/515; D7/586, 543, D7/550.1, 587, 505, 584, 545, 500, D7/553.1-553.8, 546, 555, 556, 504, 565, D7/562, 602, 605, 312, 313, 320, 307, D7/306, 309, 354, 311, 399, 397, 323, D7/332, 331, 347, 346, 322, 318, 317, D7/316, 619.1; D9/429; 43/109; D22/122; 99/430, DIG. 15, 280, 285, 99/312; 222/209, 131, 363, 349, 517, 222/153.13, 401, 1, 146.5, 23, 54, 64, 51, 222/156, 399, 400.8; 219/438, 439, 441, 219/385, 386, 402, 407; 210/94, 184, 210/474, 477

CPC ..... A01K 5/02; A01K 5/0225; A01K 5/0114; A01K 5/025; A01K 5/0266; A01K 5/0275; A01K 5/0283; A01K 5/0291; A01K 5/0258; A01K 5/0142; A01K 5/0233; A01K 29/00; A01K 7/00; G01F

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*Primary Examiner* — Susan Moon Lee

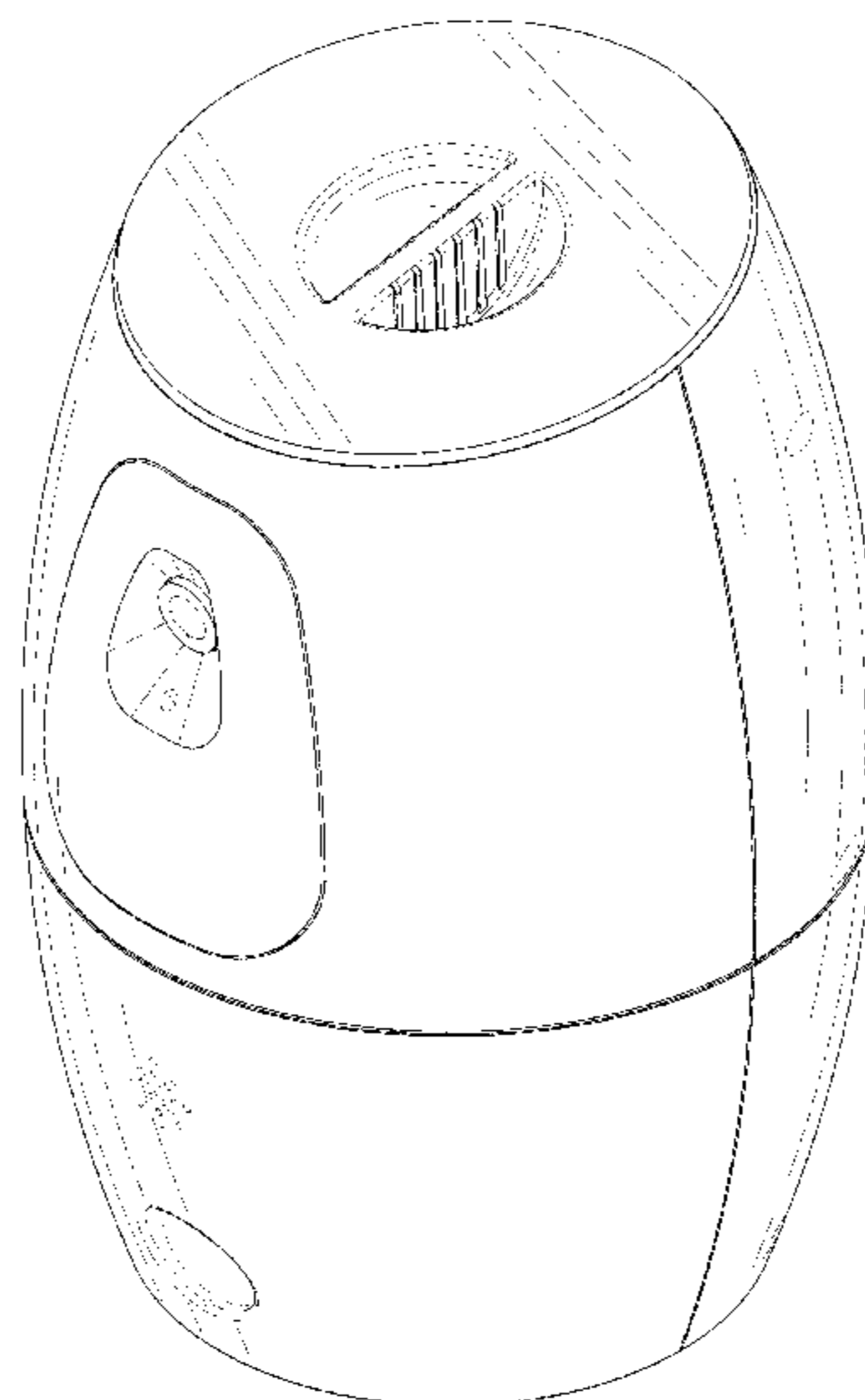
(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a front and top perspective view of a feeder, showing my new design;  
FIG. 2 is a rear and bottom perspective view thereof;  
FIG. 3 is a front elevation view thereof;  
FIG. 4 is a rear elevation view thereof;  
FIG. 5 is a left side elevation view thereof;  
FIG. 6 is a right side elevation view thereof;  
FIG. 7 is a top plan view thereof; and,  
FIG. 8 is a bottom plan view thereof.  
The broken lines in the figures illustrate portions of the feeder that form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D521,192 S *	5/2006	Morosin	.....	D30/122	D888,346 S *	6/2020	Jiang	.....	D30/122
7,040,249 B1 *	5/2006	Mushen	.....	A01K 5/0225	D893,109 S *	8/2020	Zeng	.....	D30/122
				119/51.5	D897,610 S *	9/2020	Baxter	.....	D30/122
D581,197 S *	11/2008	Kassenaar	.....	D7/306	D907,305 S *	1/2021	Wang	.....	D30/122
D617,966 S *	6/2010	Lee	.....	D32/31	D912,909 S *	3/2021	Wu	.....	D30/122
D702,983 S *	4/2014	Clark	.....	D7/306	2002/0134313 A1 *	9/2002	Andrew King	.....	A01K 5/025
8,857,209 B2 *	10/2014	Wang	.....	B65D 85/36					119/51.02
				62/457.1	2005/0217591 A1 *	10/2005	Turner	.....	A01K 5/02
D727,867 S *	4/2015	Chao	.....	D14/130					119/51.02
D731,124 S *	6/2015	Shin	.....	D30/122	2007/0193524 A1 *	8/2007	Turner	.....	A01K 5/02
D739,614 S *	9/2015	Ausman	.....	D30/122					119/51.02
9,795,115 B2 *	10/2017	Ausman	.....	A01K 5/0283	2010/0307424 A1 *	12/2010	Evans	.....	A01K 1/0107
D814,124 S *	3/2018	Ward	.....	D30/122					119/416
D816,394 S *	5/2018	Yeung	.....	D7/378	2011/0226187 A1 *	9/2011	Bertsch	.....	A01K 5/0114
10,058,072 B2 *	8/2018	Jin	.....	A01K 15/02					119/61.55
D835,356 S *	12/2018	Xie	.....	D30/122	2015/0068463 A1 *	3/2015	Worry	.....	A01K 5/0291
D840,115 S *	2/2019	Nieves	.....	D30/122					119/57.1
D840,620 S *	2/2019	Kim	.....	D32/21	2015/0101543 A1 *	4/2015	Baxter	.....	A01K 5/0142
D843,665 S *	3/2019	Zeng	.....	D30/122					119/498
D844,368 S *	4/2019	Choi	.....	D7/354	2016/0007564 A1 *	1/2016	Ma	.....	A01K 5/0114
D852,431 S *	6/2019	Ma	.....	D30/122					119/57.1
D855,094 S *	7/2019	Li	.....	D15/199	2016/0227738 A1 *	8/2016	Ausman	.....	A01K 5/025
D862,550 S *	10/2019	Shu	.....	D15/199	2016/0235035 A1 *	8/2016	Ma	.....	A01K 5/0225
D867,678 S *	11/2019	Wu	.....	D30/122	2016/0270369 A1 *	9/2016	Jin	.....	A01K 15/02
D872,949 S	1/2020	Haney			2016/0295836 A1 *	10/2016	Cheng	.....	A01K 15/025
D876,023 S *	2/2020	Eom	.....	D30/122	2018/0199541 A1 *	7/2018	Huang	.....	A01K 5/0114
D877,424 S *	3/2020	Xu	.....	D30/122	2018/0303062 A1 *	10/2018	Simard	.....	A01K 15/021
D884,985 S *	5/2020	Chen	.....	D30/122	2019/0059319 A1 *	2/2019	Hsiao	.....	A01K 5/0114
D884,986 S *	5/2020	Chen	.....	D30/122	2019/0059322 A1 *	2/2019	Xu	.....	A01K 5/0225
					2020/0100459 A1 *	4/2020	Chen	.....	A01K 5/0225
					2020/0100460 A1 *	4/2020	Chen	.....	A01K 5/0225

\* cited by examiner

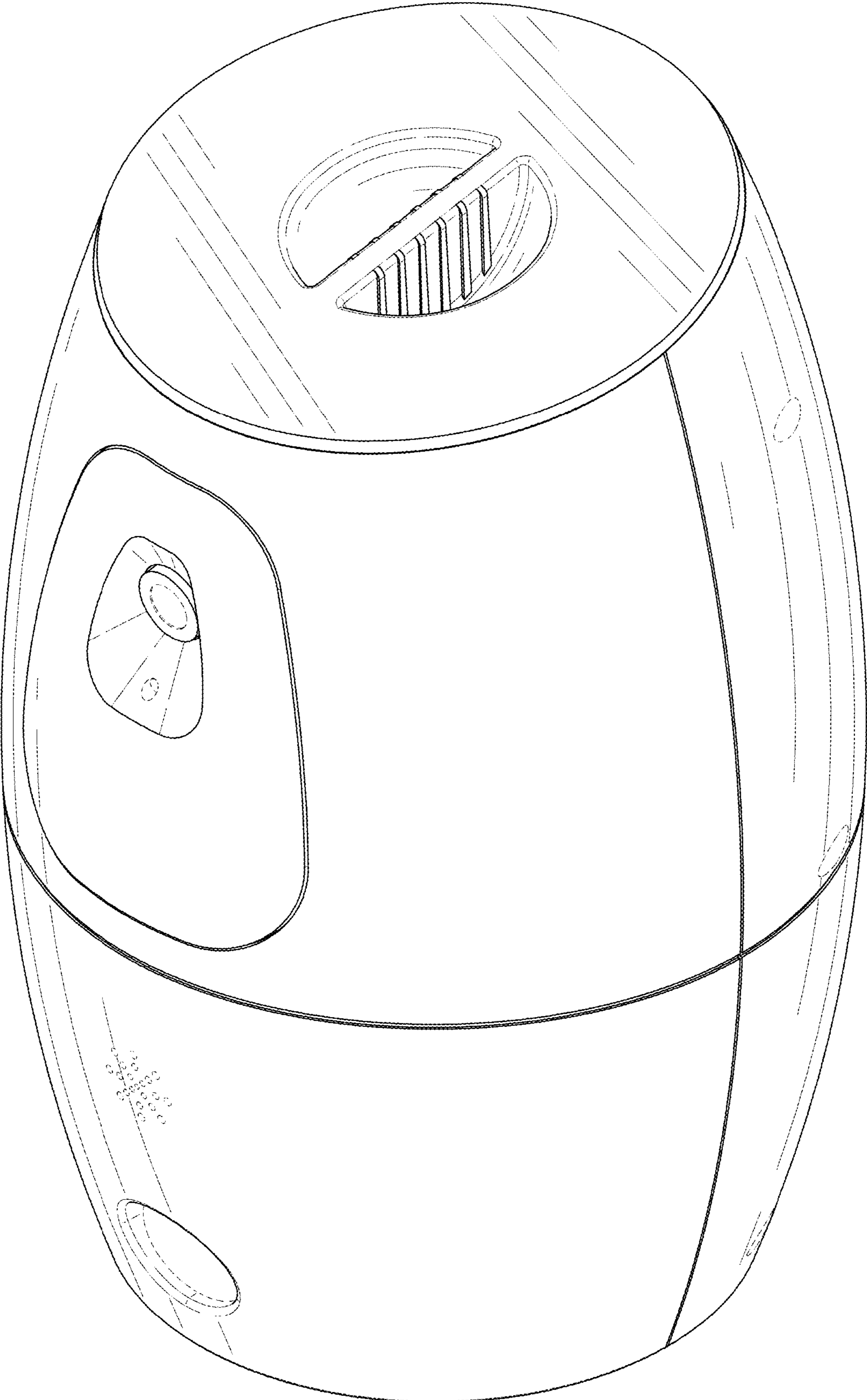


FIG. 1



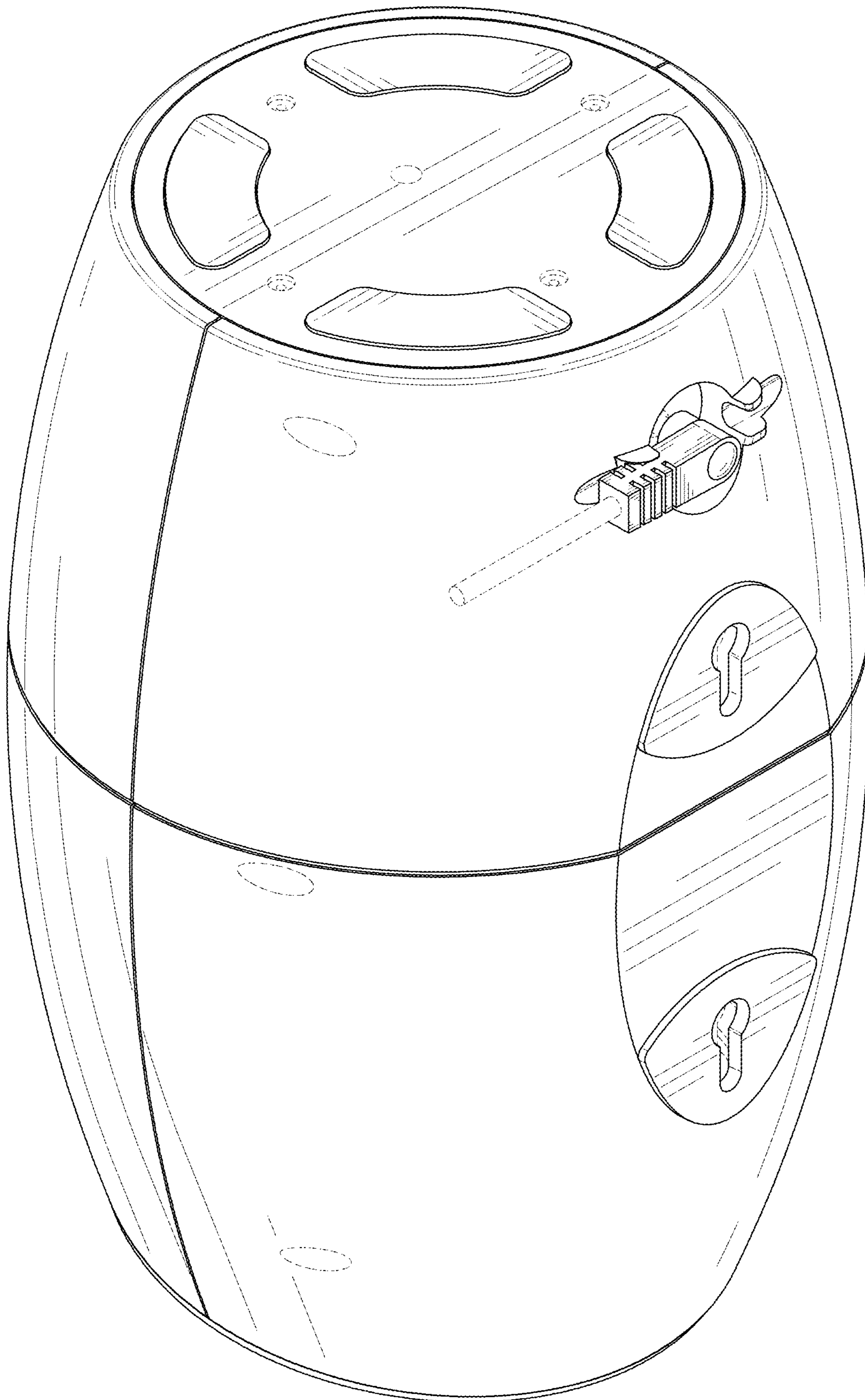


FIG. 2

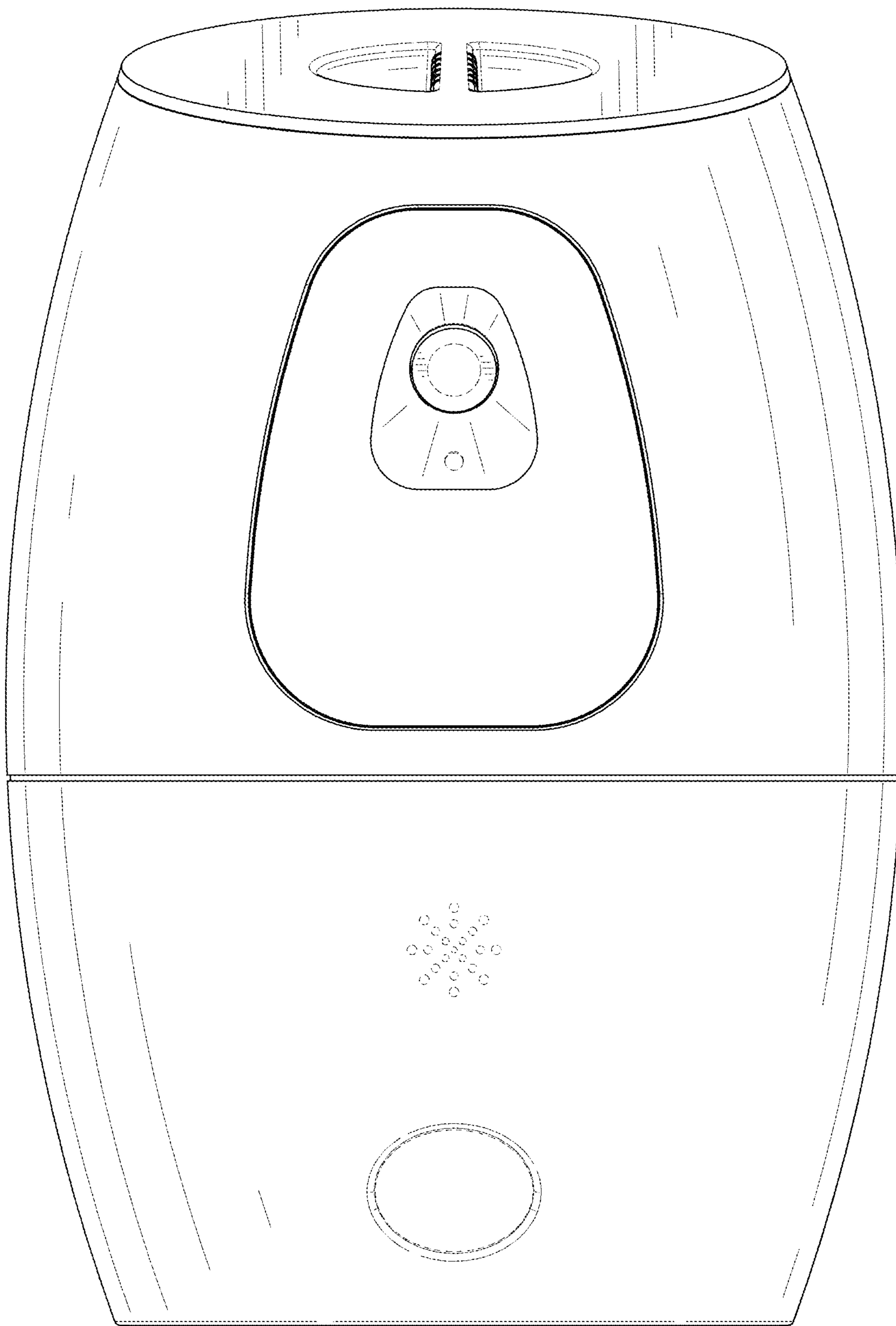


FIG. 3

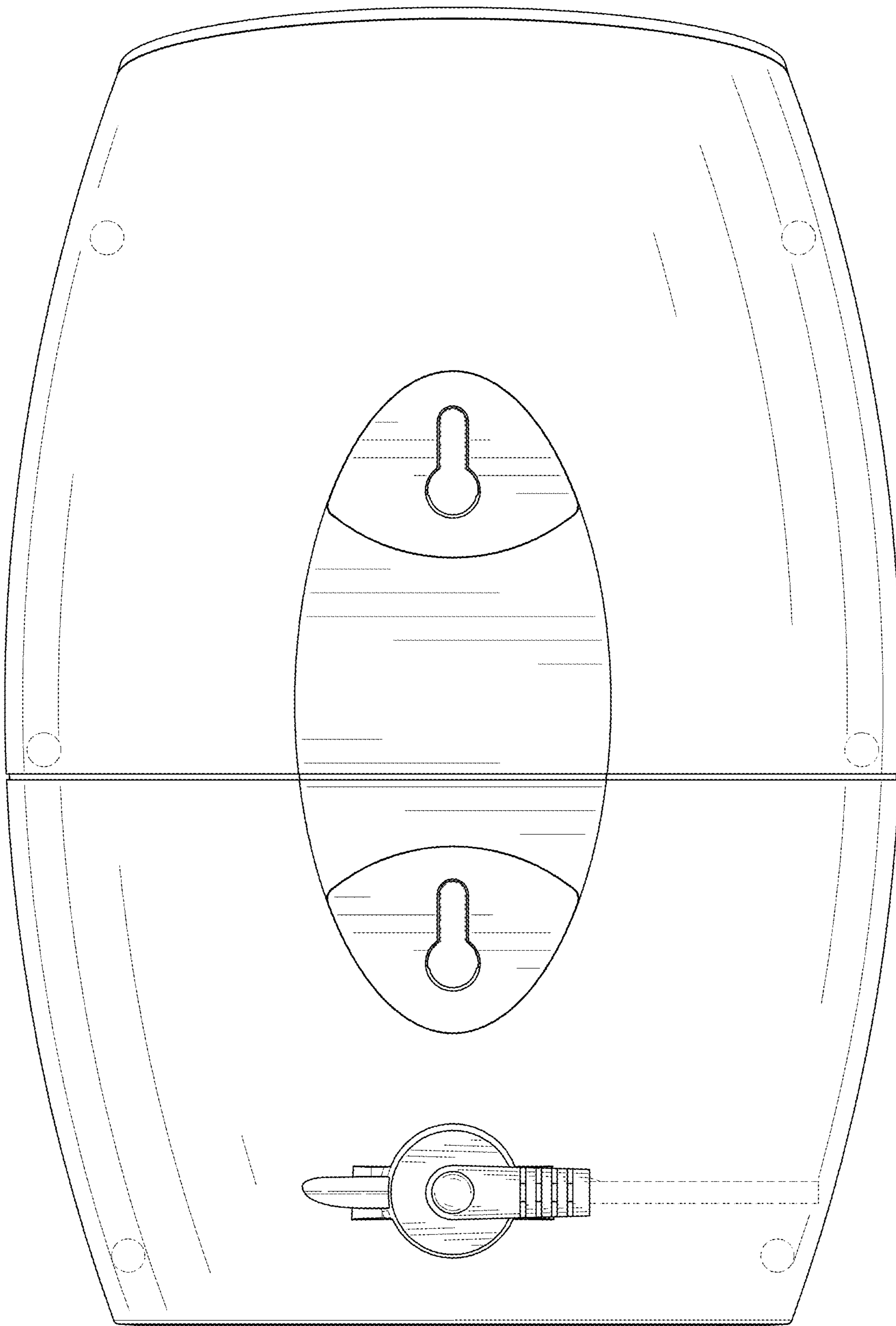


FIG. 4

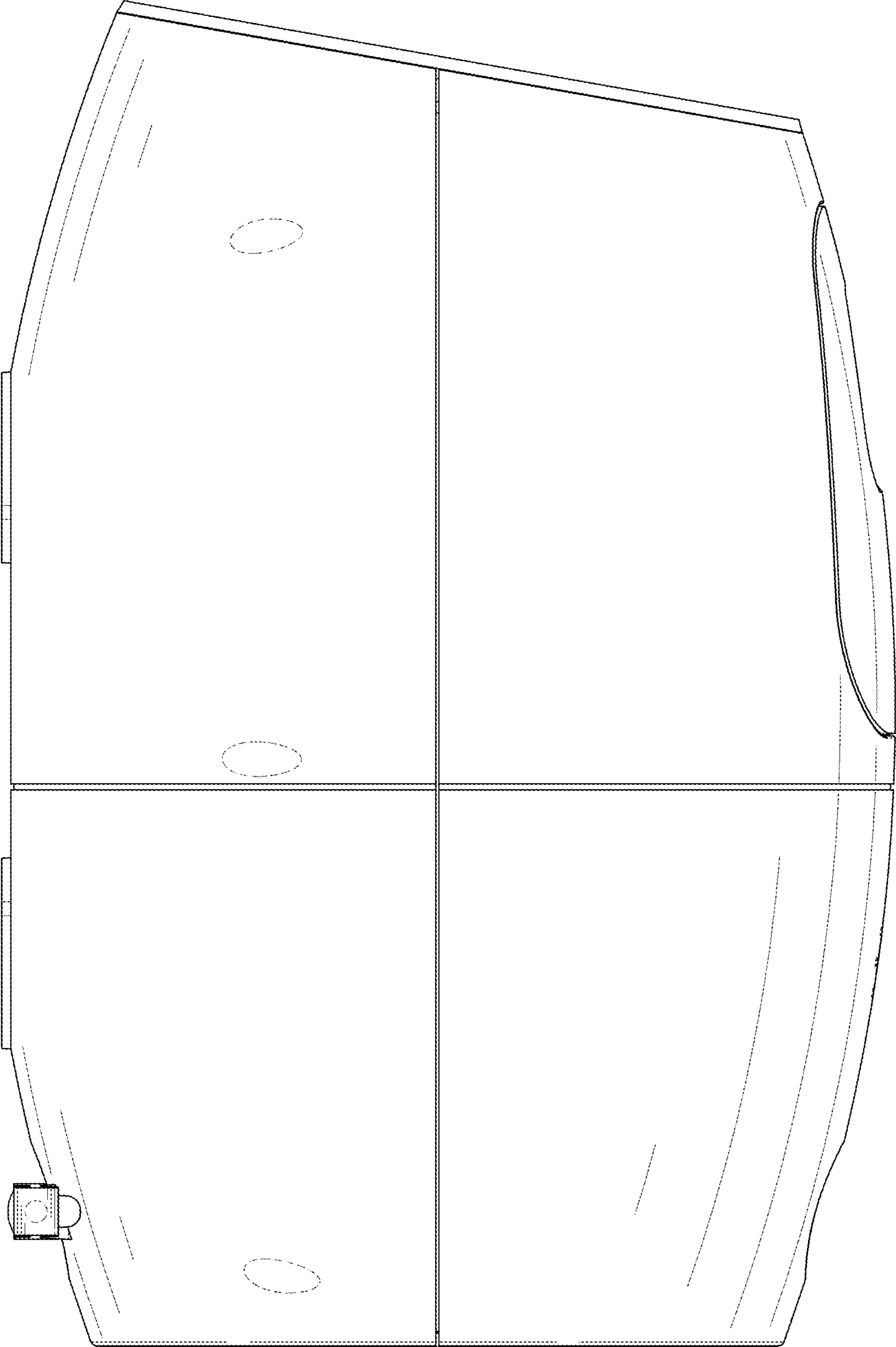


FIG. 5

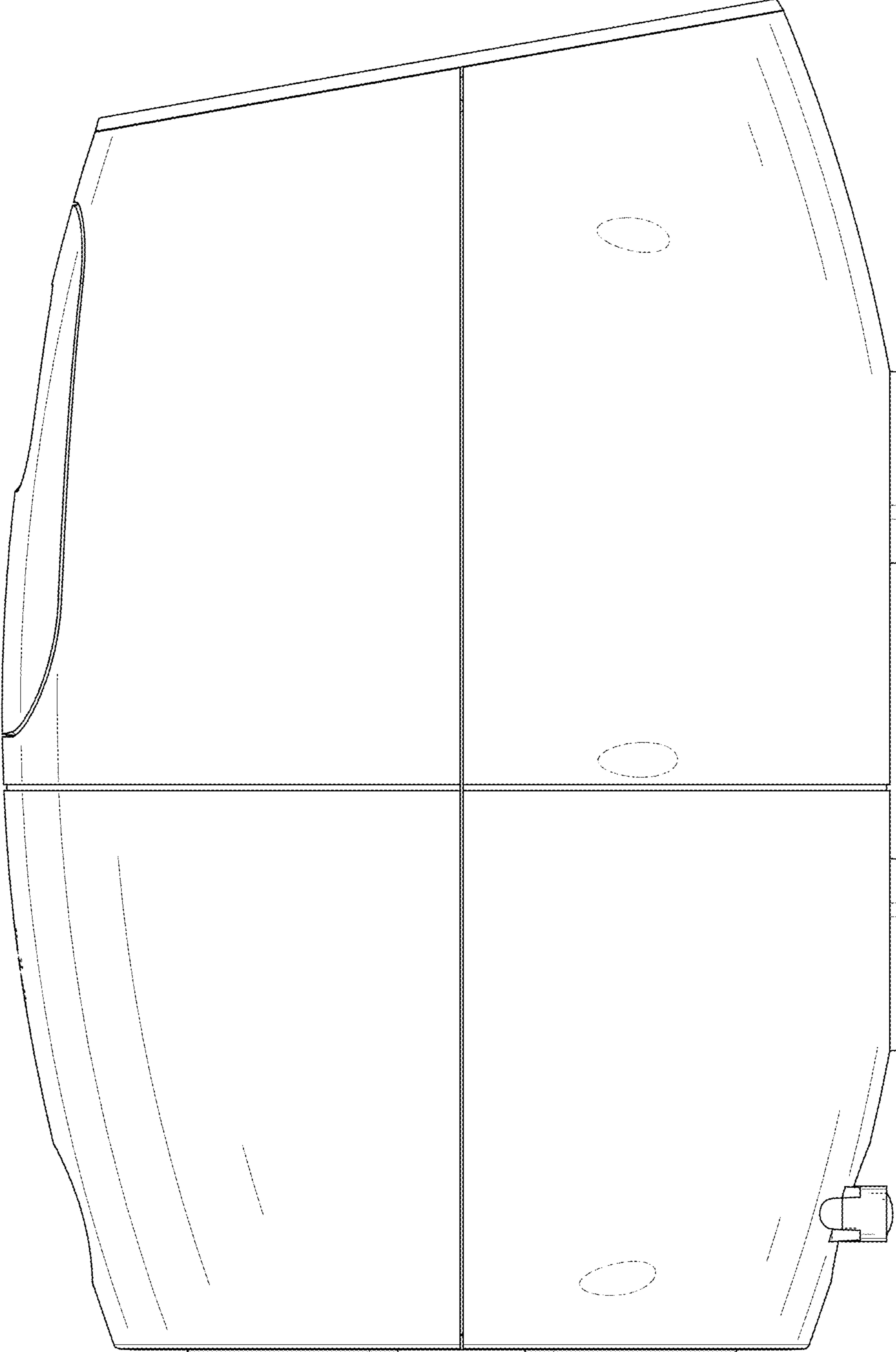


FIG. 6



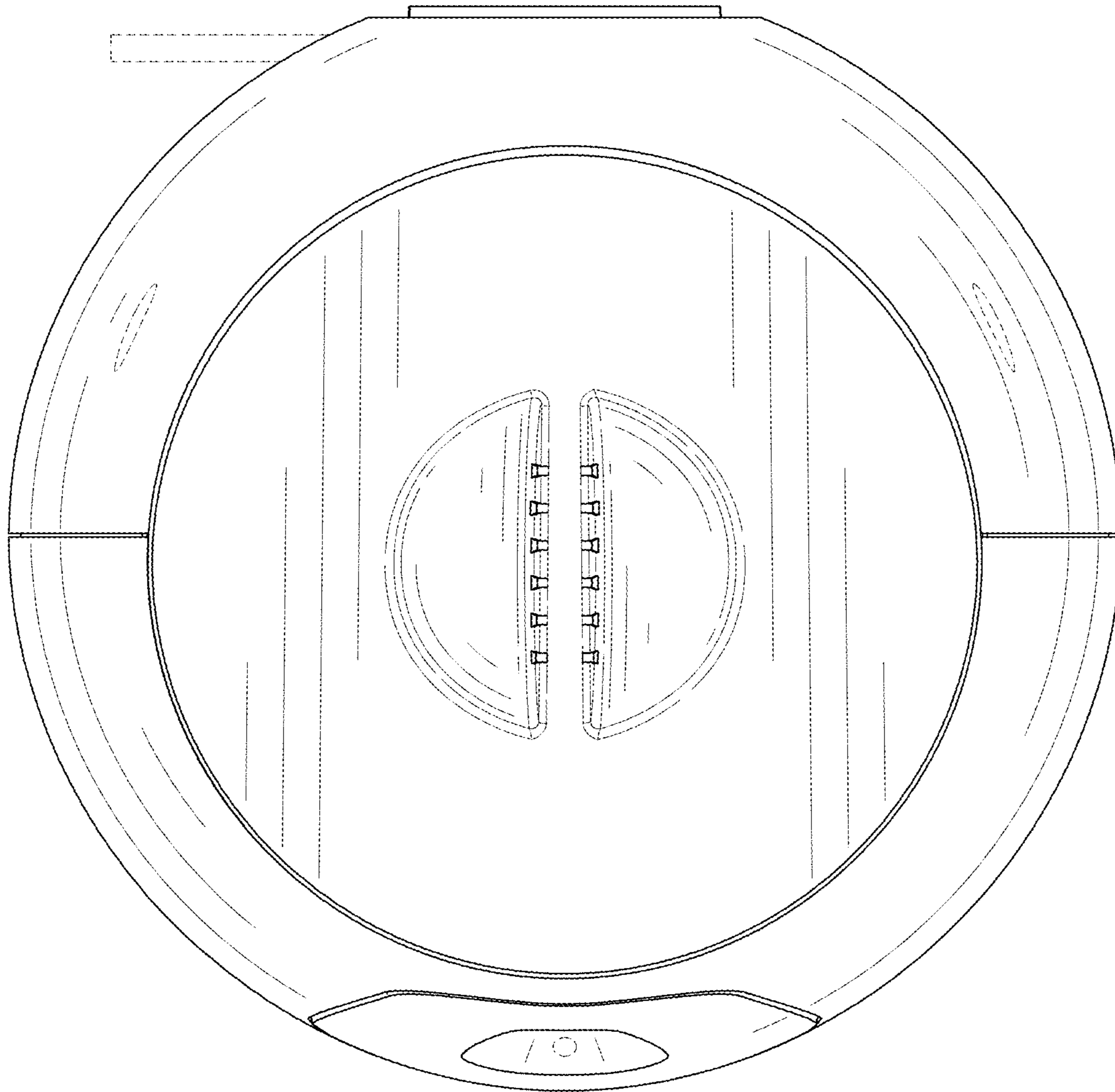


FIG. 7

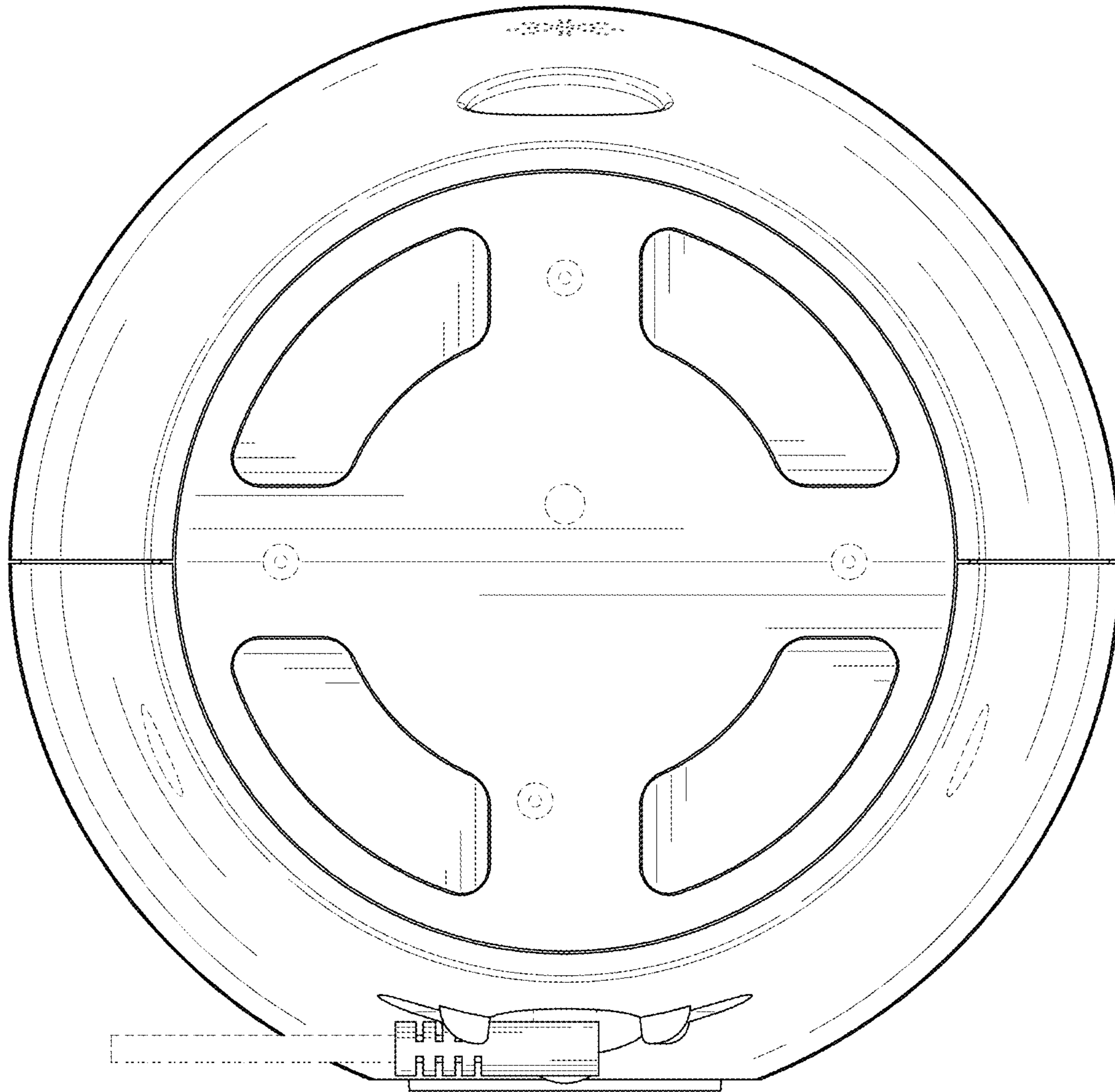


FIG. 8