



US00D916082S

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

(10) **Patent No.:** **US D916,082 S**
(45) **Date of Patent:** **** Apr. 13, 2021**

(54) **WIRELESS SENSOR TRANSMITTER AND RECEIVER APPARATUS**
(71) Applicant: **Koko Home, Inc.**, Palo Alto, CA (US)
(72) Inventors: **Kiran R. Joshi**, Palo Alto, CA (US);
Akihiko Sugiura, Palo Alto, CA (US)
(73) Assignee: **Koko Home, Inc.**, Palo Alto, CA (US)
(**) Term: **15 Years**
(21) Appl. No.: **29/684,961**
(22) Filed: **Mar. 25, 2019**

(51) **LOC (13) Cl.** **14-02**
(52) **U.S. Cl.**

USPC **D14/358**; D24/186; D10/103; D10/106.1
(58) **Field of Classification Search**

USPC ... D14/140.1, 240, 242, 358, 125, 129, 130,
D14/140, 142, 155, 167, 168, 172, 188,
D14/195, 203.1, 203.6, 299, 496, 351,
D14/356, 357, 197, 198, 230, 140.6, 434,
D14/447, 217, 216, 300, 301, 302, 314,
D14/348, 349; D13/107, 108, 123, 152,
D13/158, 162, 162.1, 163, 168, 184, 199;
D10/104.1, 106.1, 106.6, 116.1, 61, 64,
D10/75, 106.9, 103; D24/185, 186
CPC ... H04W 88/00; H04W 88/005; H04W 88/02;
H04W 88/08; H04W 88/085; H04W
88/12; H04W 88/14; H04W 88/16; H04W
88/18; H04W 4/00; H01Q 1/02; H01Q
1/2291; H01Q 1/246; H04B 1/38; G01S
13/34; G01S 13/42; G01S 13/886; G06K
9/00342; A61B 5/08; A61B 5/11; A61B
5/721

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D233,365 S * 10/1974 Tomioka D14/199
D321,724 S * 11/1991 Casale D20/19

D351,114 S * 10/1994 Wright D10/103
D360,635 S * 7/1995 Mark D14/212
D361,730 S * 8/1995 Wright D10/103
D509,825 S * 9/2005 Chen D14/300
D520,489 S * 5/2006 Hakoda D14/171
D562,805 S * 2/2008 Tokuno D14/216
D581,927 S * 12/2008 Sumii D14/356
D598,020 S * 8/2009 Lu D14/358
7,639,478 B2 * 12/2009 Wu H05K 5/0008
312/223.2
D609,718 S * 2/2010 Chang D14/203.3
D619,119 S * 7/2010 Graber D14/216
D633,898 S * 3/2011 Seo D14/216
D675,190 S * 1/2013 Nylen D14/215
D686,186 S * 7/2013 Kaneko D14/168
D687,017 S * 7/2013 Ashcraft D14/216

(Continued)

Primary Examiner — Marie D. Fast Horse

(74) *Attorney, Agent, or Firm* — Richard T. Ogawa;
Ogawa P.C.

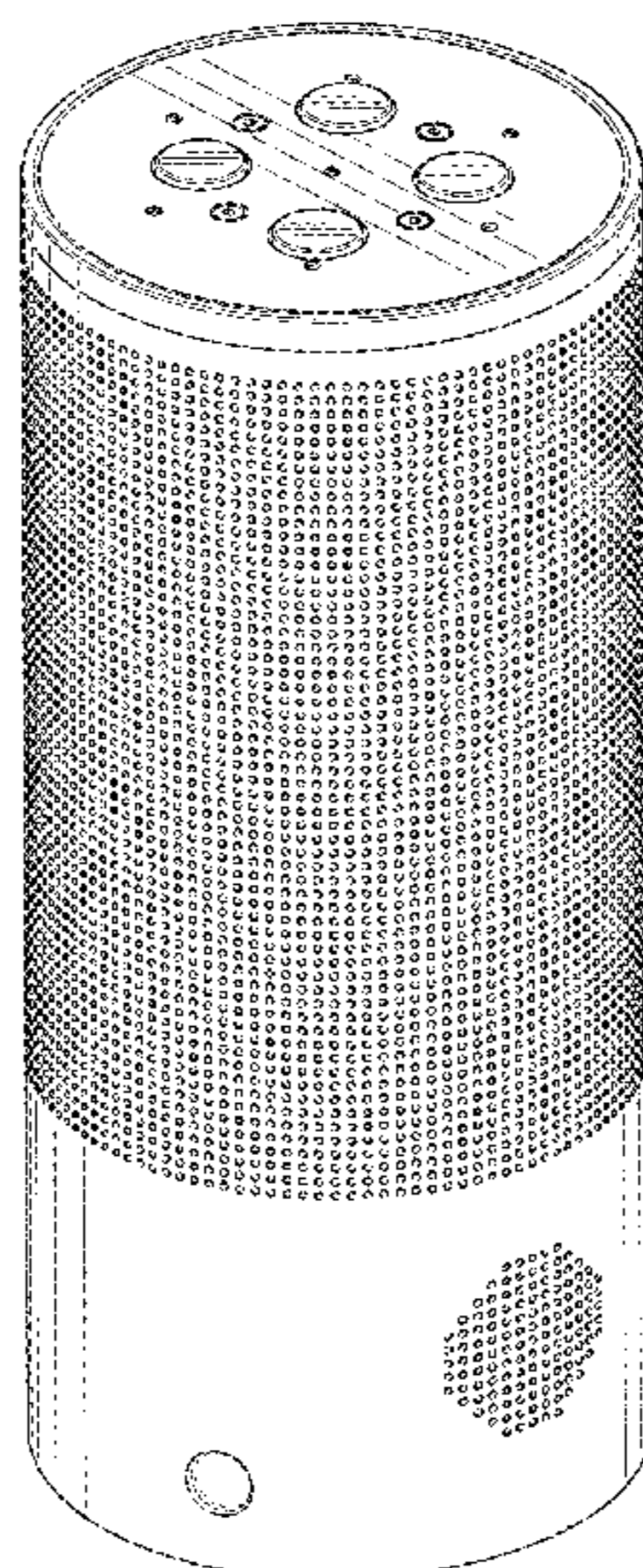
(57) **CLAIM**

The ornamental design for wireless sensor transmitter and receiver apparatus, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a wireless sensor transmitter and receiver apparatus showing our new design; FIG. 2 is a back view of the apparatus of FIG. 1; FIG. 3 is a front view of the apparatus of FIG. 1; FIG. 4 is a first side view of the apparatus of FIG. 1; FIG. 5 is a second side view of the apparatus of FIG. 1; FIG. 6 is a top view of the apparatus of FIG. 1; and, FIG. 7 is a bottom view of the apparatus of FIG. 1. The broken lines in the drawings depict portions of the wireless sensor transmitter and receiver apparatus that form no part of the claim.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D694,746	S *	12/2013	Akana	.....	D14/314
D697,496	S *	1/2014	Ashcraft	.....	D14/216
D698,753	S *	2/2014	Yiu	.....	D14/216
D701,893	S *	4/2014	Bart	.....	D16/203
D707,827	S *	6/2014	Tseng	.....	D24/186
D722,595	S *	2/2015	Mackiewicz	.....	D14/216
D725,076	S *	3/2015	Wong	.....	D14/216
D725,077	S *	3/2015	Wong	.....	D14/216
D737,789	S *	9/2015	Leung	.....	D14/125
D739,397	S *	9/2015	Akana	.....	D14/314
D744,541	S *	12/2015	Langhammer	.....	D14/203.1
D745,685	S *	12/2015	Azimi	.....	D24/186
D746,869	S *	1/2016	Akana	.....	D14/496
D754,653	S *	4/2016	Marciniak	.....	D14/314
D758,025	S *	5/2016	Ma	.....	D30/199
D764,335	S *	8/2016	Thornton	.....	D10/106.6
D765,618	S *	9/2016	Alves	.....	D14/216
D766,213	S *	9/2016	Hinokio	.....	D14/216
D771,019	S *	11/2016	Lee	.....	D14/216
D771,141	S *	11/2016	Langhammer	.....	D14/496
D771,142	S *	11/2016	Langhammer	.....	D14/203.6
D772,860	S *	11/2016	Magi	.....	D14/300
D774,020	S *	12/2016	Hinokio	.....	D14/216
D778,956	S *	2/2017	Langhammer	.....	D14/203.1
D780,728	S *	3/2017	Shin	.....	D14/242
D781,918	S *	3/2017	Langhammer	.....	D14/203.1
D784,412	S *	4/2017	Akana	.....	D14/496
D786,307	S *	5/2017	Akana	.....	D14/496
D786,829	S *	5/2017	Wang	.....	D14/204
D792,397	S *	7/2017	Ma	.....	D14/358
D792,468	S *	7/2017	Langhammer	.....	D14/203.3
D797,073	S *	9/2017	Yoon	.....	D14/172
9,768,513	B2 *	9/2017	Lee	.....	H01Q 1/02
D798,857	S *	10/2017	Lee	.....	D14/314
D802,022	S *	11/2017	Yao	.....	D14/496
D803,190	S *	11/2017	Lee	.....	D14/216
D803,810	S *	11/2017	Lee	.....	D14/216
9,843,851	B2 *	12/2017	Chamberlin	.....	H04R 1/342
D808,382	S *	1/2018	Akana	.....	D14/314
D808,928	S *	1/2018	Schaal	.....	D14/216
D809,500	S *	2/2018	Akana	.....	D14/314
D810,049	S *	2/2018	Lee	.....	D14/216
D810,134	S *	2/2018	Langhammer	.....	D14/496
D810,135	S *	2/2018	Langhammer	.....	D14/496
D810,136	S *	2/2018	Langhammer	.....	D14/496
D810,137	S *	2/2018	Tsang	.....	D14/496
D810,783	S *	2/2018	Langhammer	.....	D14/496
D811,367	S *	2/2018	Vaclavik	.....	D14/216
D813,201	S *	3/2018	Shin	.....	D14/216
D813,213	S *	3/2018	Honda	.....	D14/240
D815,149	S *	4/2018	Langhammer	.....	D14/496
D818,499	S *	5/2018	Akana	.....	D14/496
D820,802	S *	6/2018	Hamann	.....	D14/149
9,990,002	B2 *	6/2018	Kim	.....	G06F 1/1656
D822,716	S *	7/2018	Mangum	.....	D14/496
D823,241	S *	7/2018	Zhang	.....	D13/103
10,021,486	B1 *	7/2018	Brennan	.....	H04R 5/02
D826,205	S *	8/2018	Langhammer	.....	D14/203.6
D826,276	S *	8/2018	Langhammer	.....	D14/496
D828,323	S *	9/2018	Demin	.....	D14/172
D828,856	S *	9/2018	Langhammer	.....	D14/496
D831,624	S *	10/2018	Kwon	.....	D14/240
10,117,022	B1 *	10/2018	Brennan	.....	H04R 1/02
D833,414	S *	11/2018	Brennan	.....	D14/204
D835,062	S *	12/2018	Langhammer	.....	D14/203.6
D835,071	S *	12/2018	Channey	.....	D14/216
D836,086	S *	12/2018	Yu	.....	D14/209.1
D836,606	S *	12/2018	Kangasmaa	.....	D14/216
D838,257	S *	1/2019	Manz	.....	D14/216
D839,870	S *	2/2019	Akana	.....	D14/314
D840,436	S *	2/2019	Demin	.....	D14/496
D841,632	S *	2/2019	Eun	.....	D14/242
D841,693	S *	2/2019	McWilliam	.....	D14/496
D843,419	S *	3/2019	Vaclavik	.....	D14/496
D844,592	S *	4/2019	Huang	.....	D14/240
D845,276	S *	4/2019	Huang	.....	D14/216
D845,936	S *	4/2019	Benedetti	.....	D14/230
D848,394	S *	5/2019	Demin	.....	D14/204
D848,397	S *	5/2019	Alves	.....	D14/216
D852,229	S *	6/2019	Akana	.....	D14/496
D853,960	S *	7/2019	Lei	.....	D13/108
D854,509	S *	7/2019	Wu	.....	D14/168
D855,564	S *	8/2019	Brennan	.....	D13/108
D858,497	S *	9/2019	Laurans	.....	D14/240
D860,257	S *	9/2019	Akana	.....	D14/496
D861,176	S *	9/2019	Yoon	.....	D24/186
D863,356	S *	10/2019	Akana	.....	D14/496
D864,929	S *	10/2019	Laurans	.....	D14/240
D864,931	S *	10/2019	Fahlgren	.....	D14/242
10,448,520	B2 *	10/2019	Tak	.....	H05K 5/0217
D866,520	S *	11/2019	Kim	.....	D14/216
D866,521	S *	11/2019	Kim	.....	D14/216
D868,740	S *	12/2019	Kang	.....	D14/216
D868,761	S *	12/2019	McWilliam	.....	D14/238.1
D870,701	S *	12/2019	Lee	.....	D14/211
D875,077	S *	2/2020	Omata	.....	D14/216
D878,334	S *	3/2020	Alves	.....	D14/216
D879,152	S *	3/2020	McWilliam	.....	D14/496
D882,548	S *	4/2020	Guo	.....	D14/216
10,617,330	B1 *	4/2020	Joshi	.....	G01S 13/886
D892,765	S *	8/2020	Li	.....	D14/216
10,743,100	B1 *	8/2020	Eckert	.....	H04R 1/326
D902,759	S *	11/2020	Joshi	.....	D10/103
2008/0226096	A1 *	9/2008	Waddell	.....	H04R 1/02 381/87
2014/0276245	A1 *	9/2014	Tsutsumi	.....	A61B 5/11 600/595
2016/0302320	A1 *	10/2016	Kim	.....	G06F 1/1698
2017/0187206	A1 *	6/2017	Lafountain	.....	H02J 7/0044
2017/0215004	A1 *	7/2017	Wengreen	.....	H04R 1/026
2017/0332166	A1 *	11/2017	Kikuchi	.....	H04R 1/24
2017/0346186	A1 *	11/2017	Lee	.....	H01Q 1/02
2018/0092230	A1 *	3/2018	Hsu	.....	H04R 1/00
2018/0205193	A1 *	7/2018	Wu	.....	H01R 31/02
2019/0273349	A1 *	9/2019	Wu	.....	H01R 27/02
2020/0158819	A1 *	5/2020	Joshi	.....	G01S 13/42
2020/0158849	A1 *	5/2020	Joshi	.....	H01O 21/061
2020/0256972	A1 *	8/2020	Eckert	.....	G01S 13/0209
2020/0264278	A1 *	8/2020	Eckert	.....	G01S 7/417

* cited by examiner

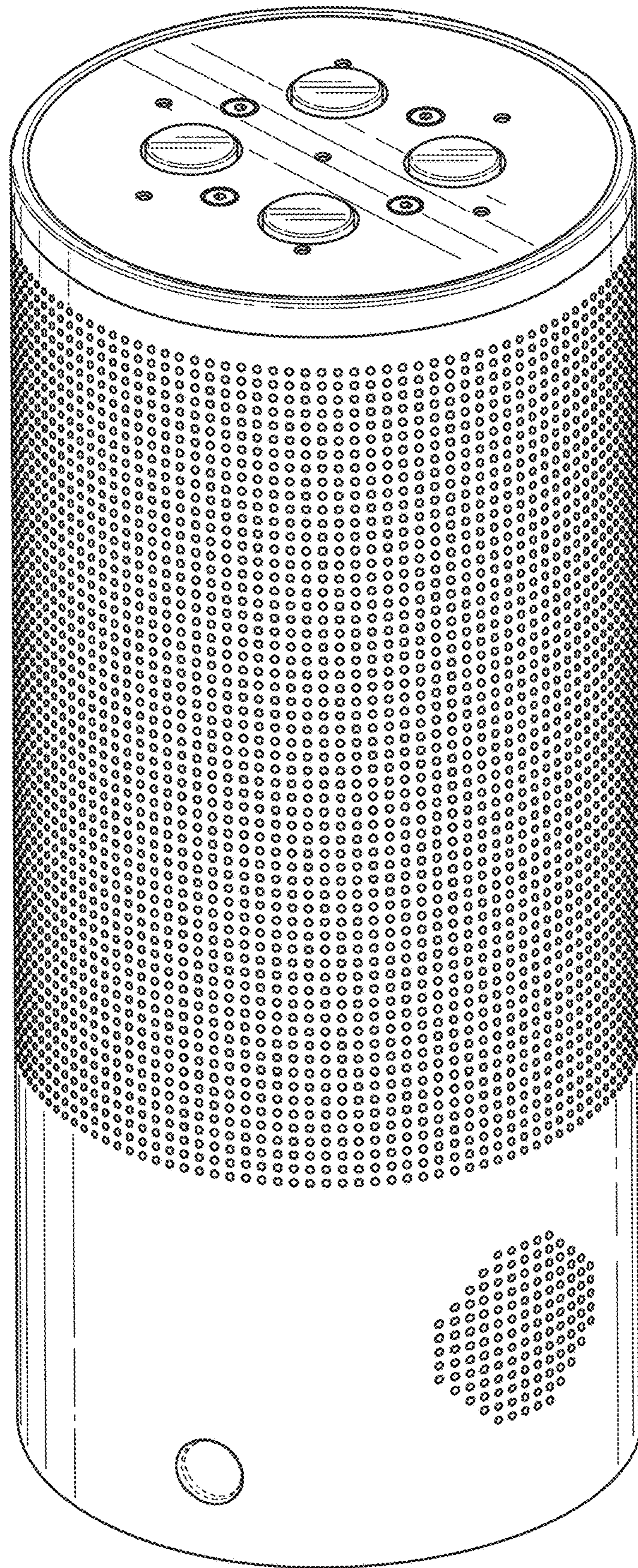


FIG. 1

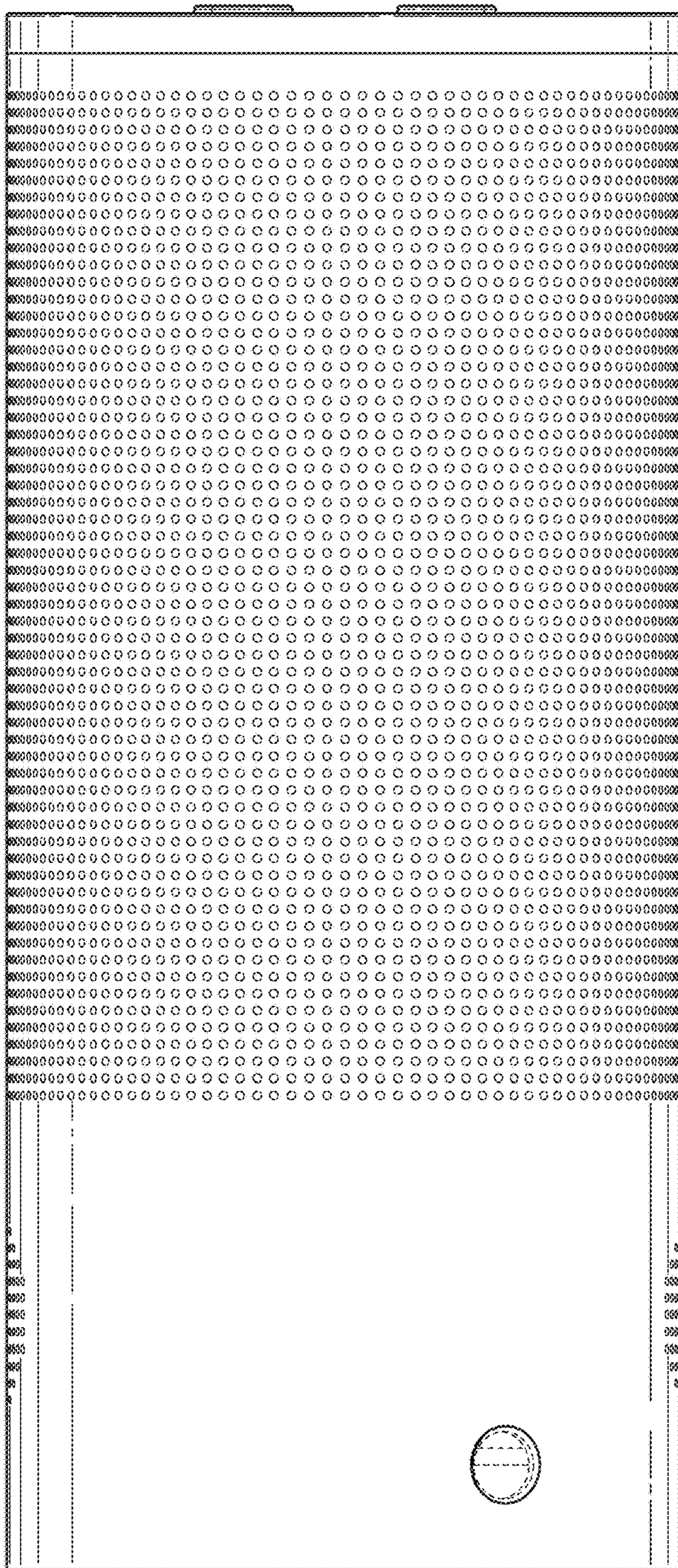


FIG. 2

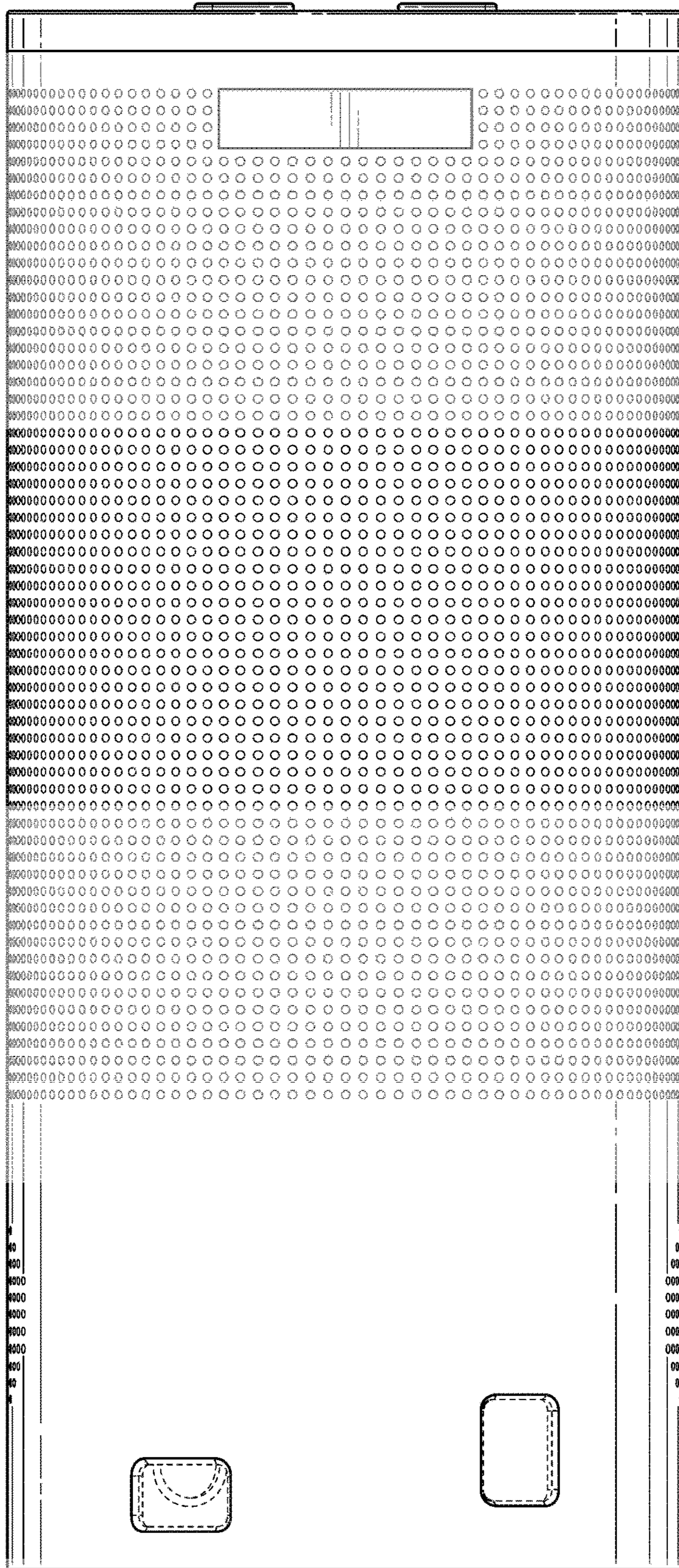


FIG. 3

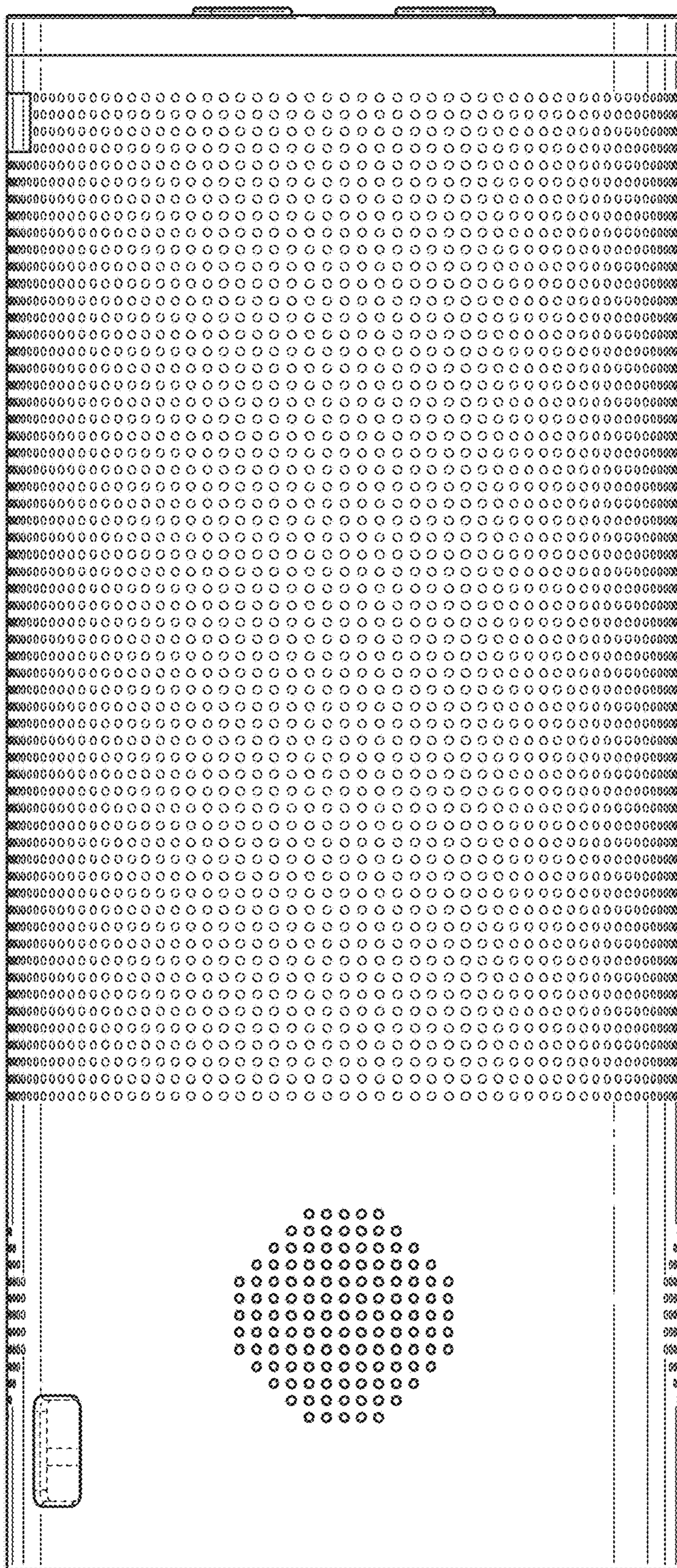


FIG. 4

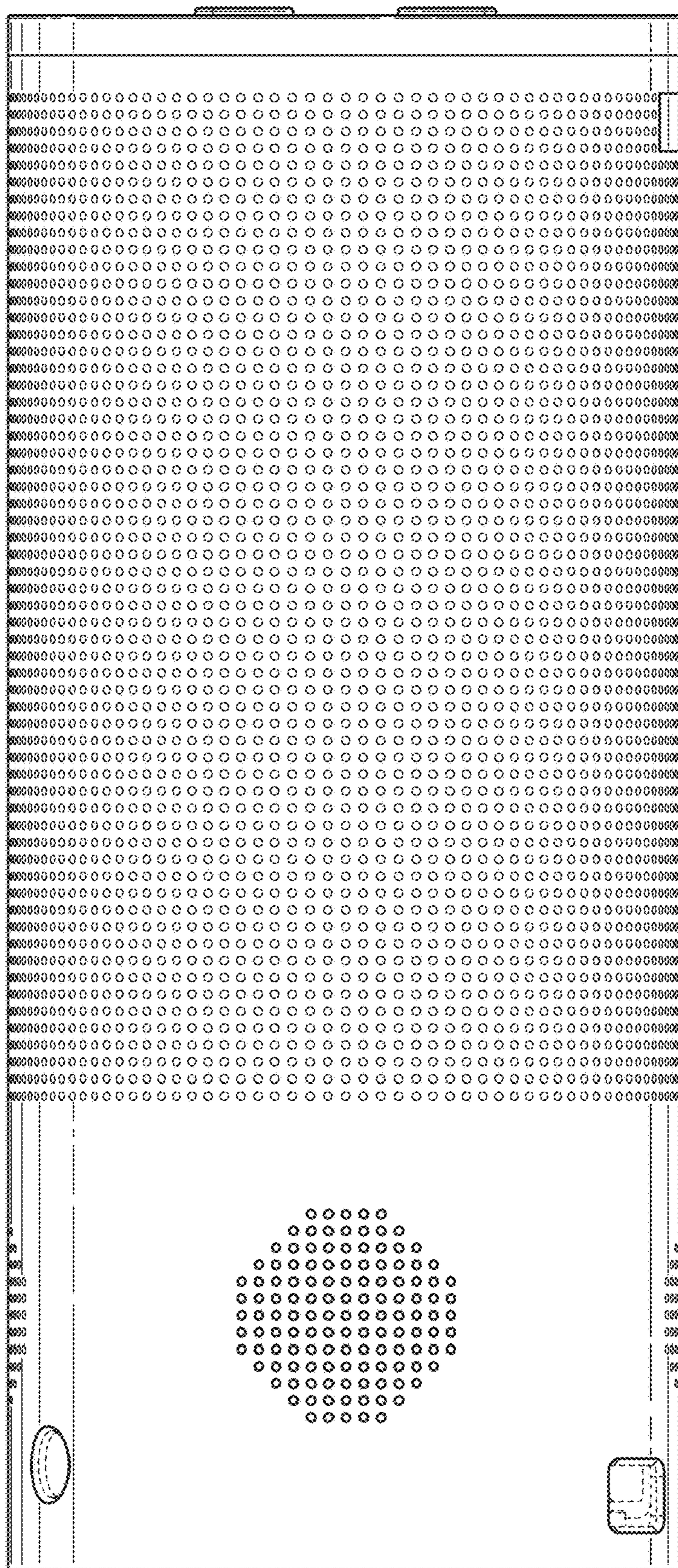


FIG. 5

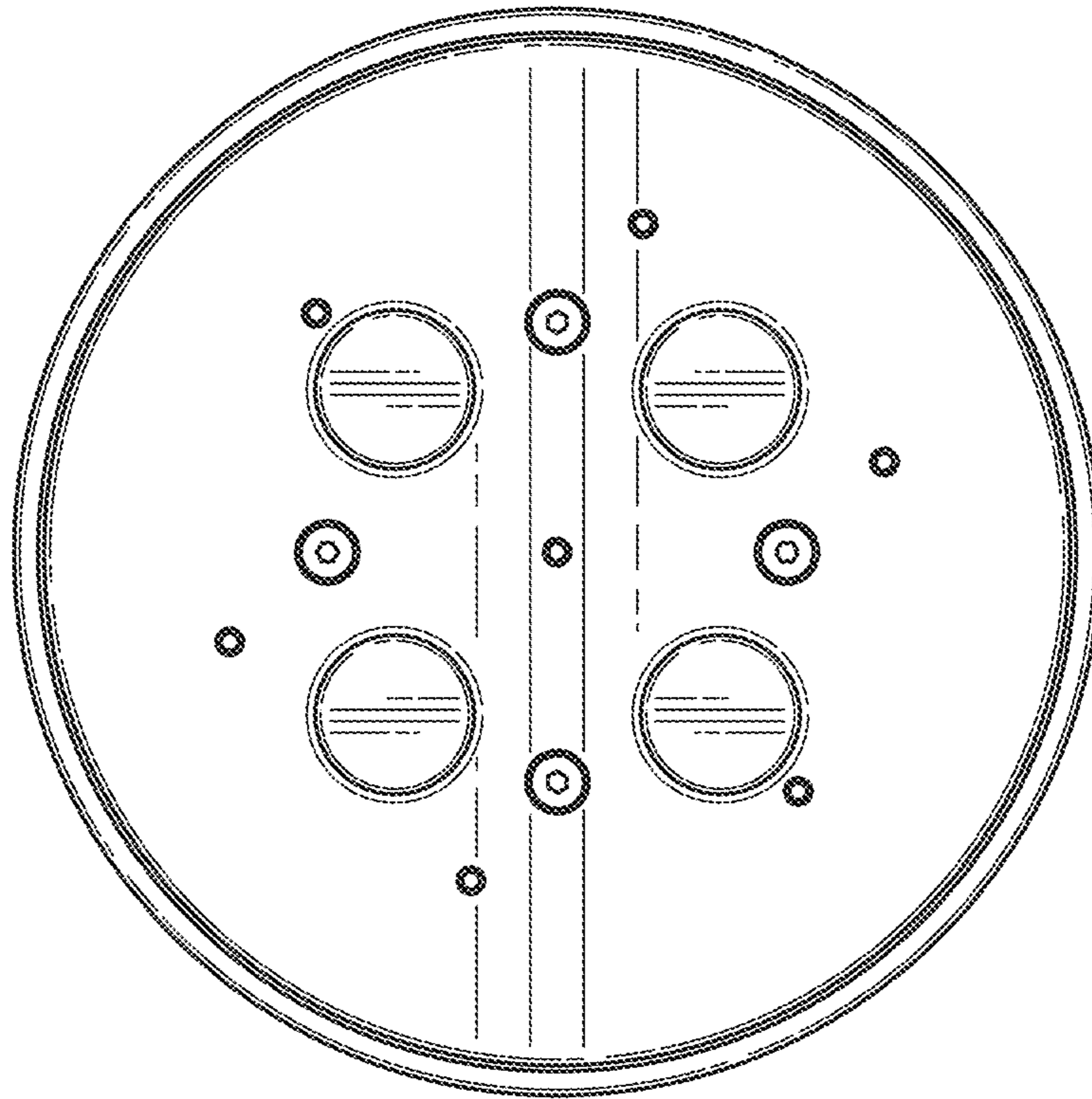


FIG. 6

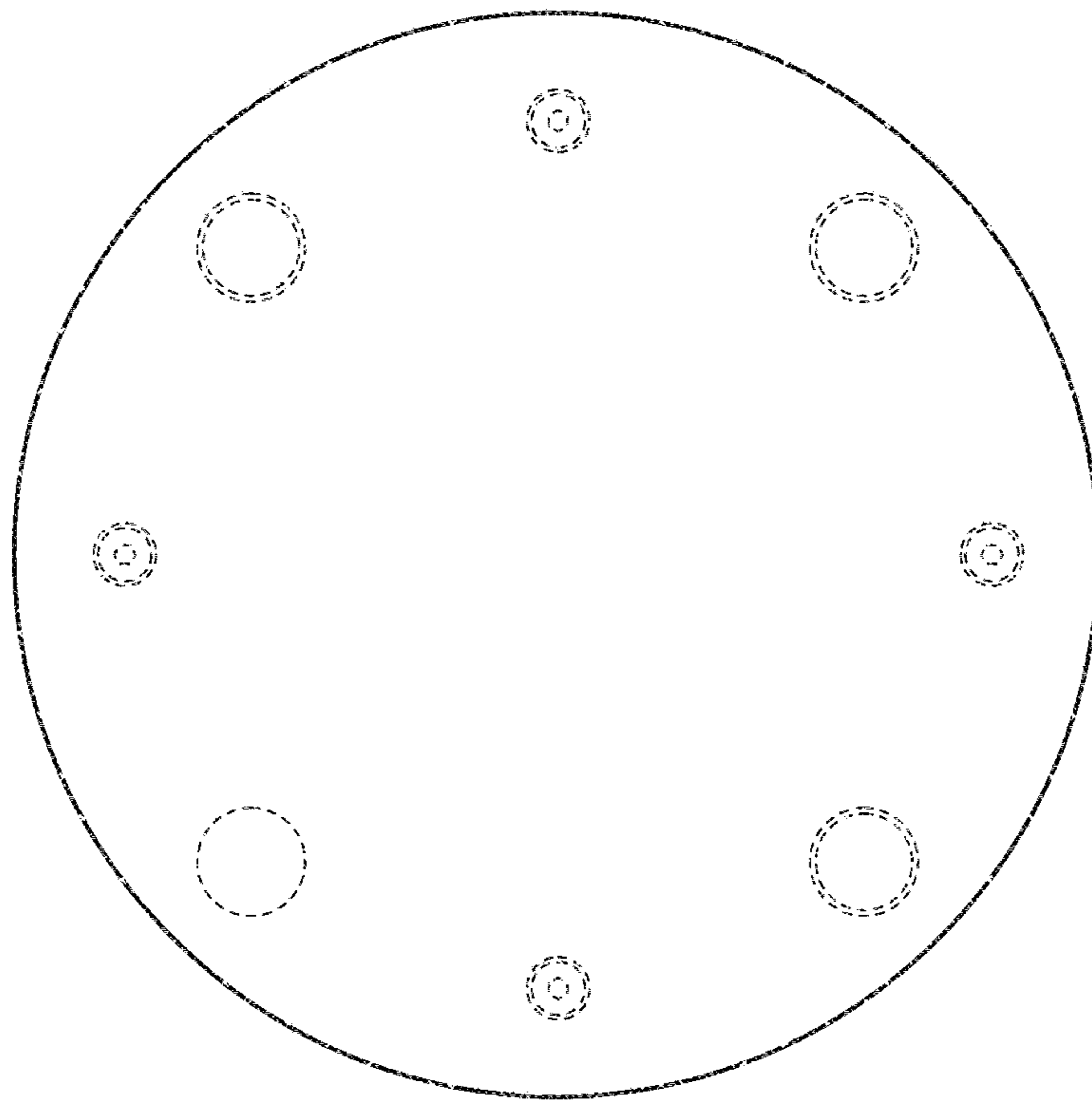


FIG. 7