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Joshi et al.

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(54) **WIRELESS SENSOR TRANSMITTER AND RECEIVER APPARATUS**
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(52) **U.S. Cl.**

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(58) **Field of Classification Search**

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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
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13/34; G01S 13/42; G01S 13/886; G06K
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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)

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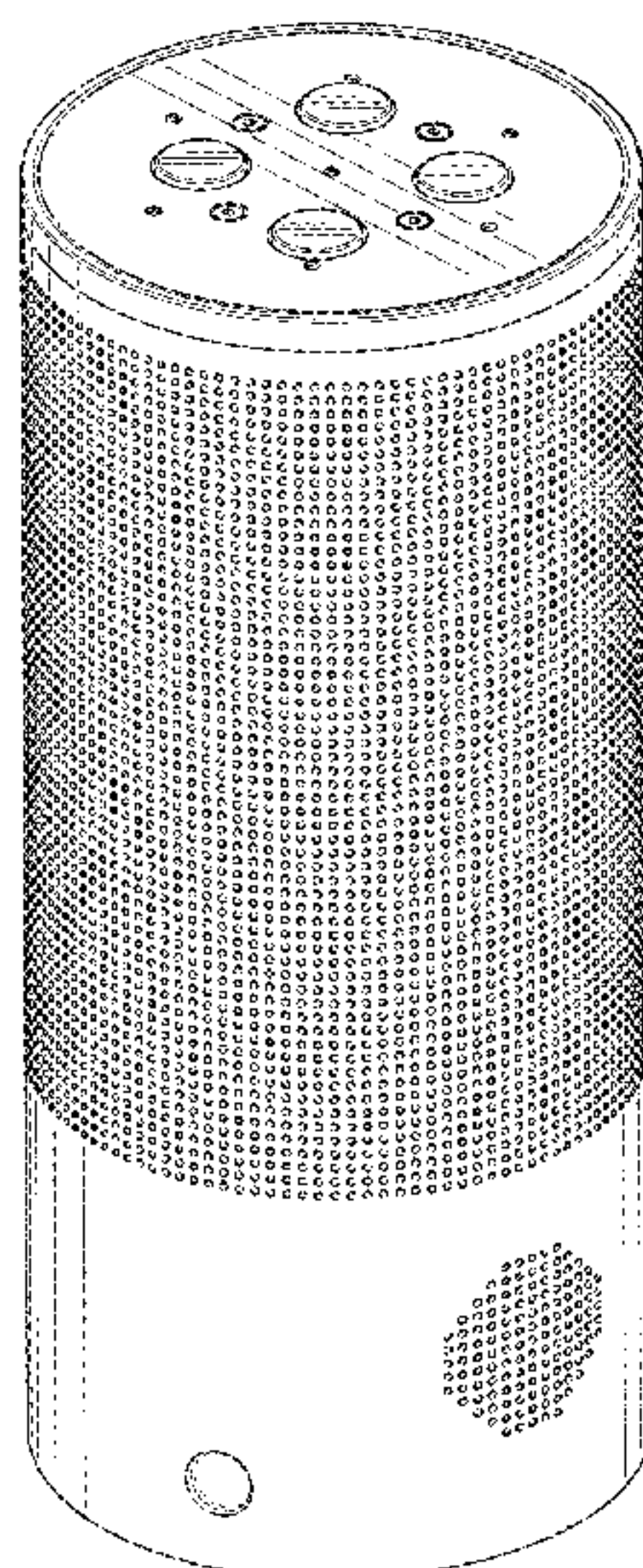
(57) **CLAIM**

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

* cited by examiner

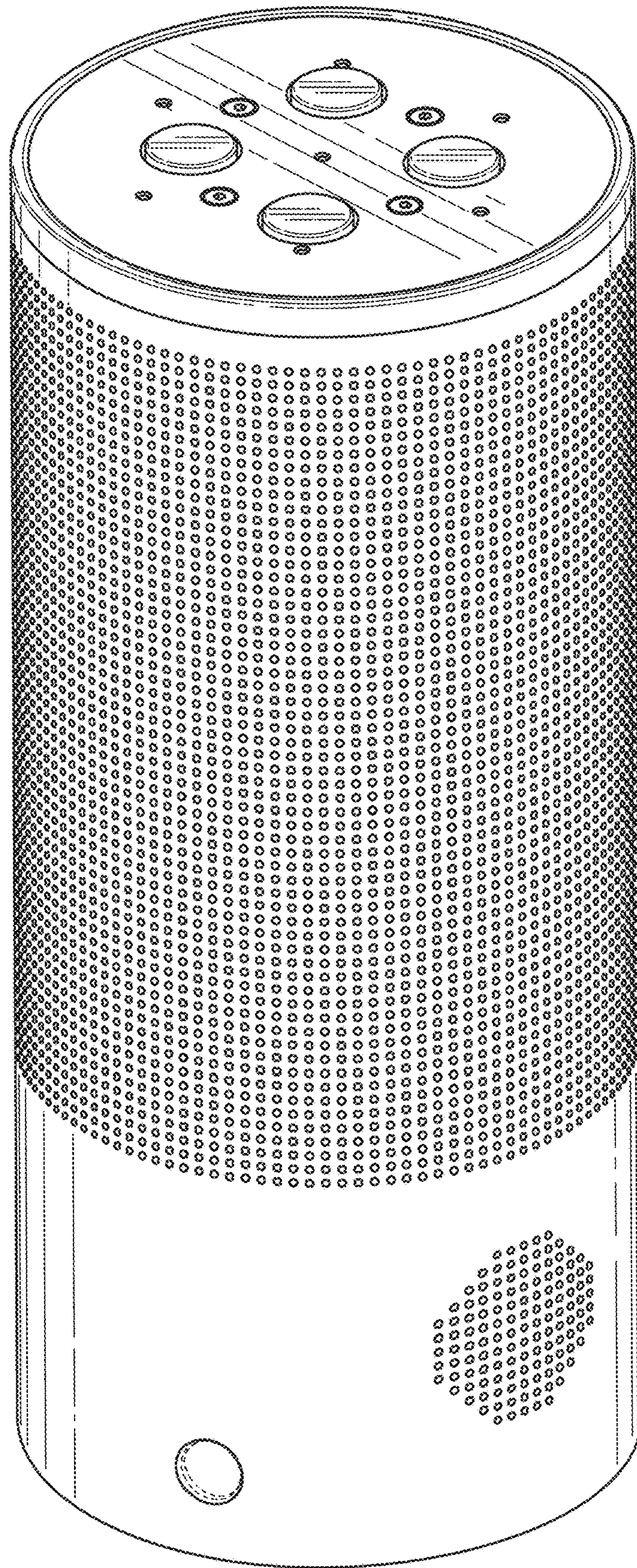


FIG. 1

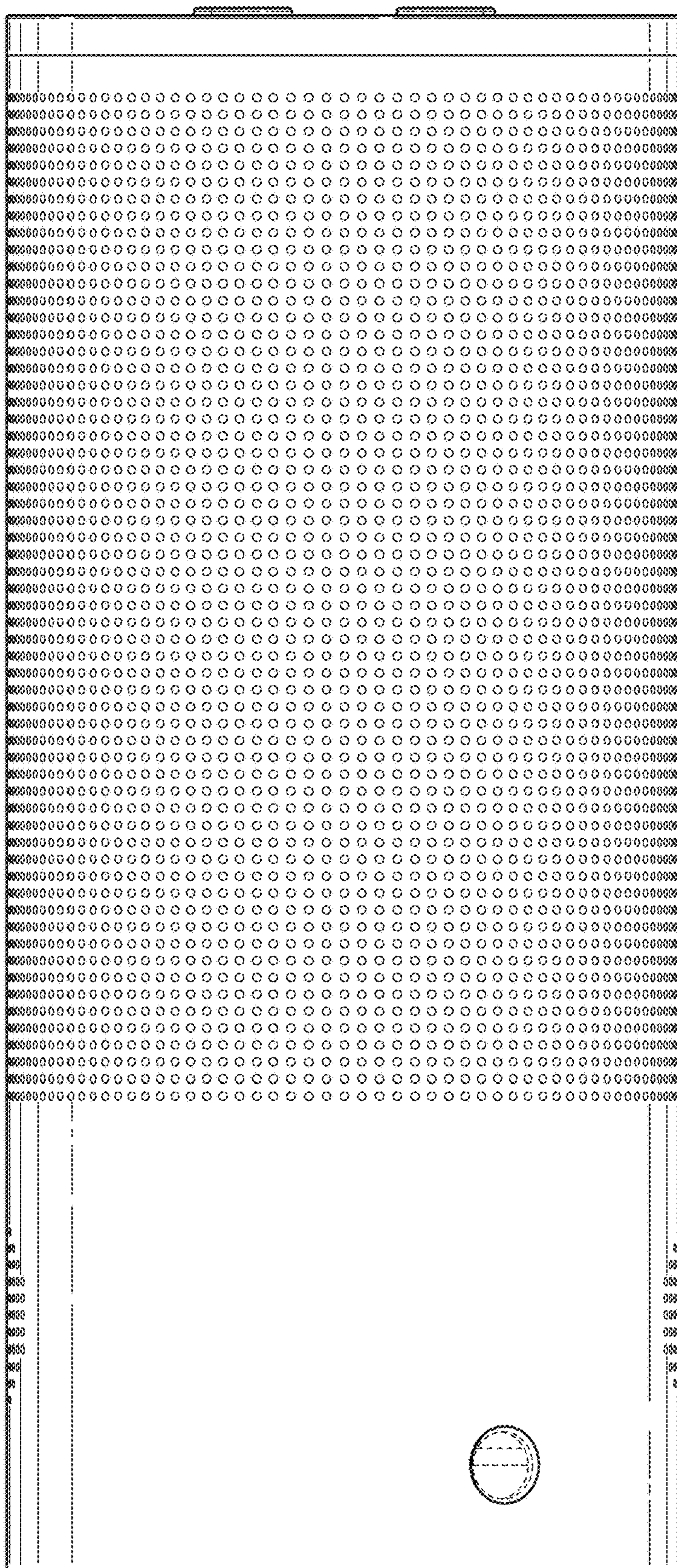


FIG. 2

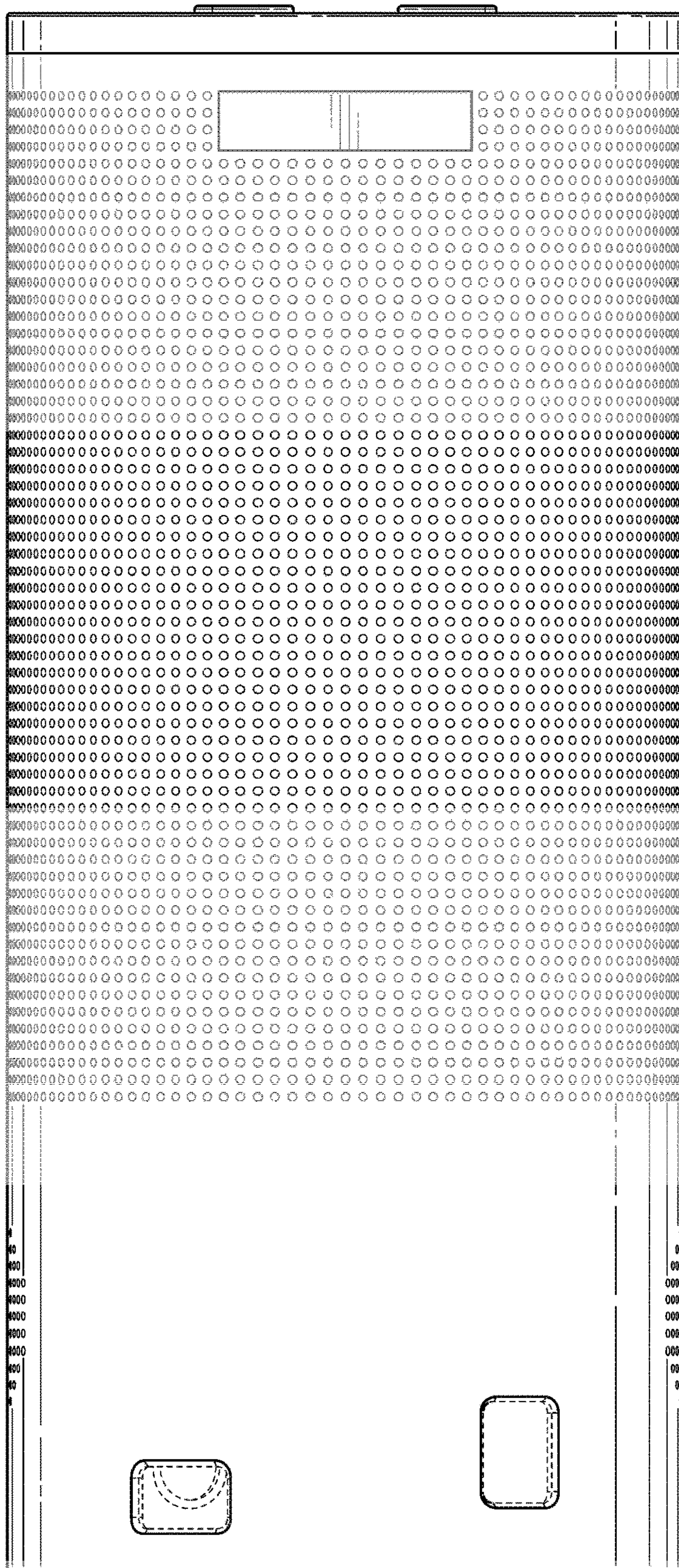


FIG. 3

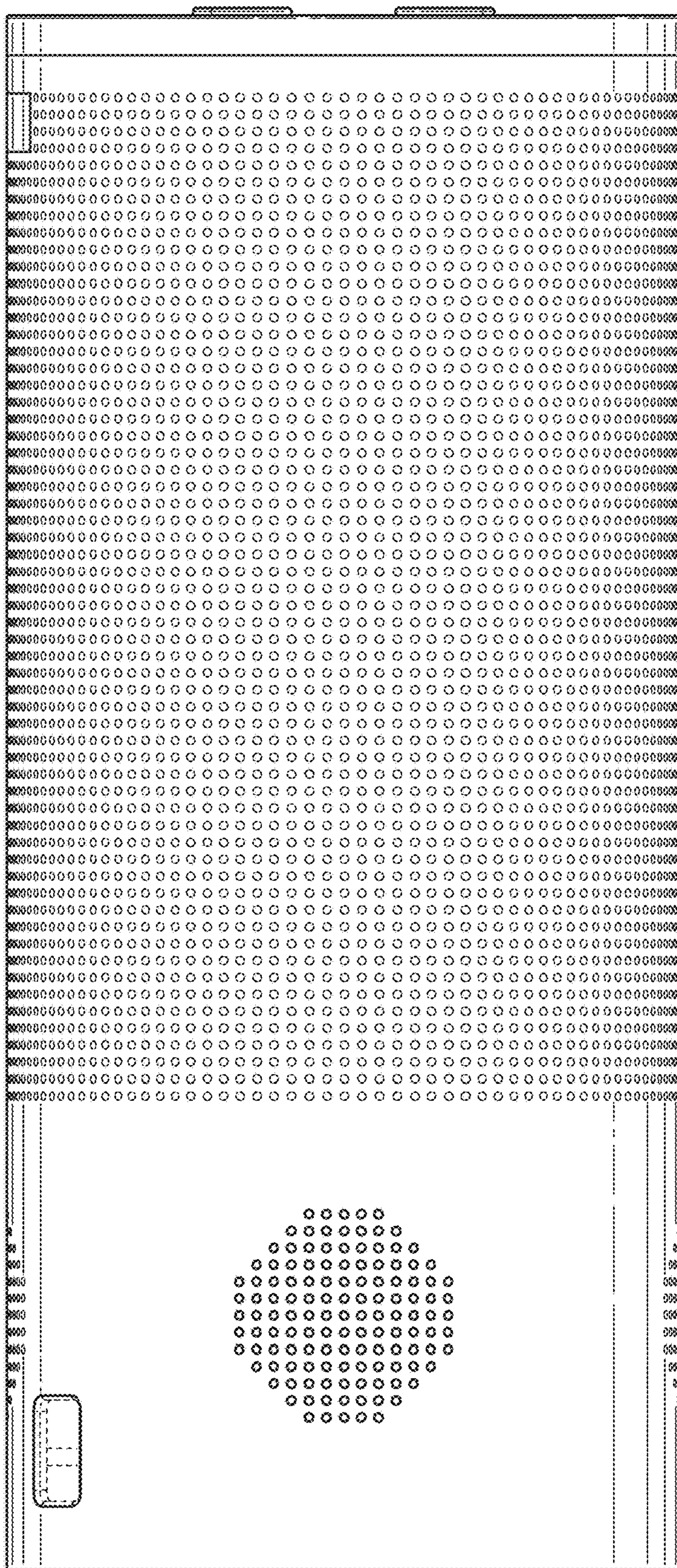


FIG. 4

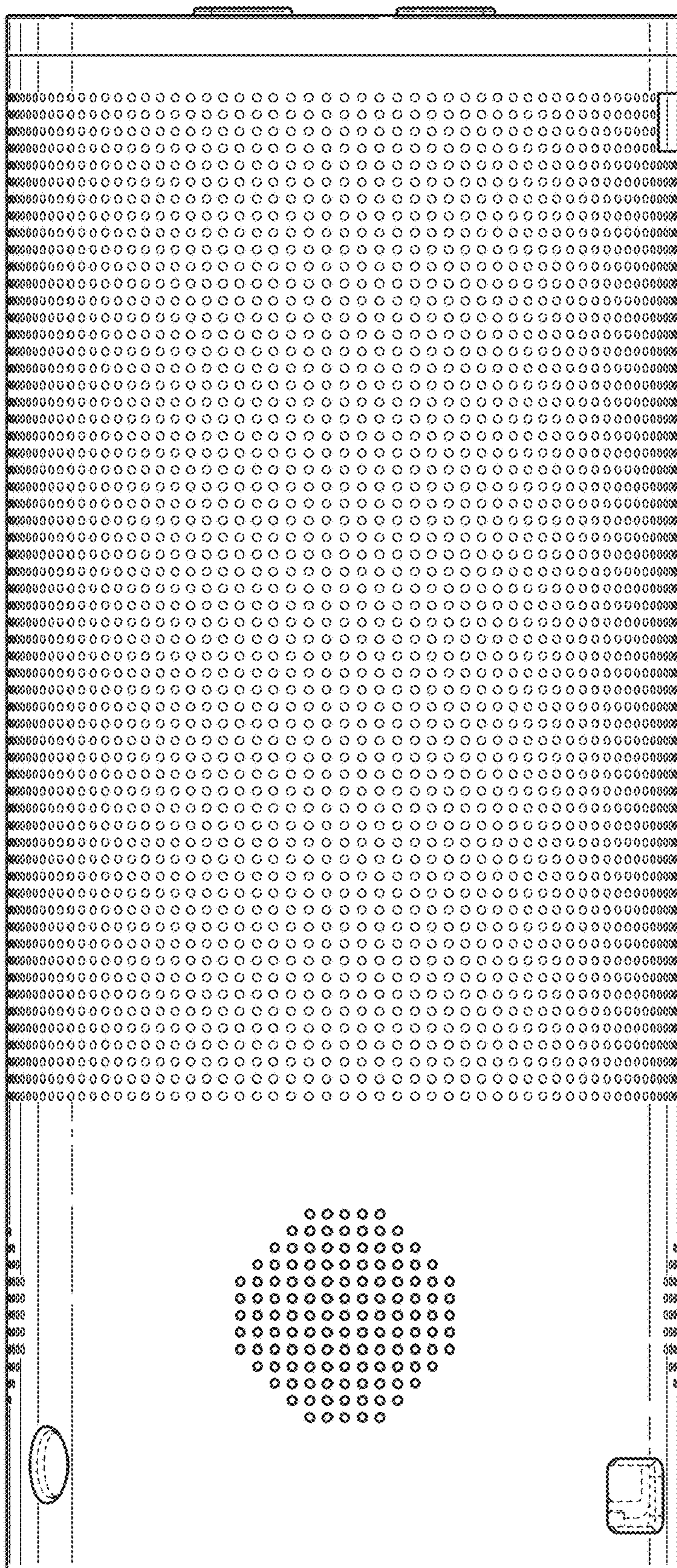


FIG. 5

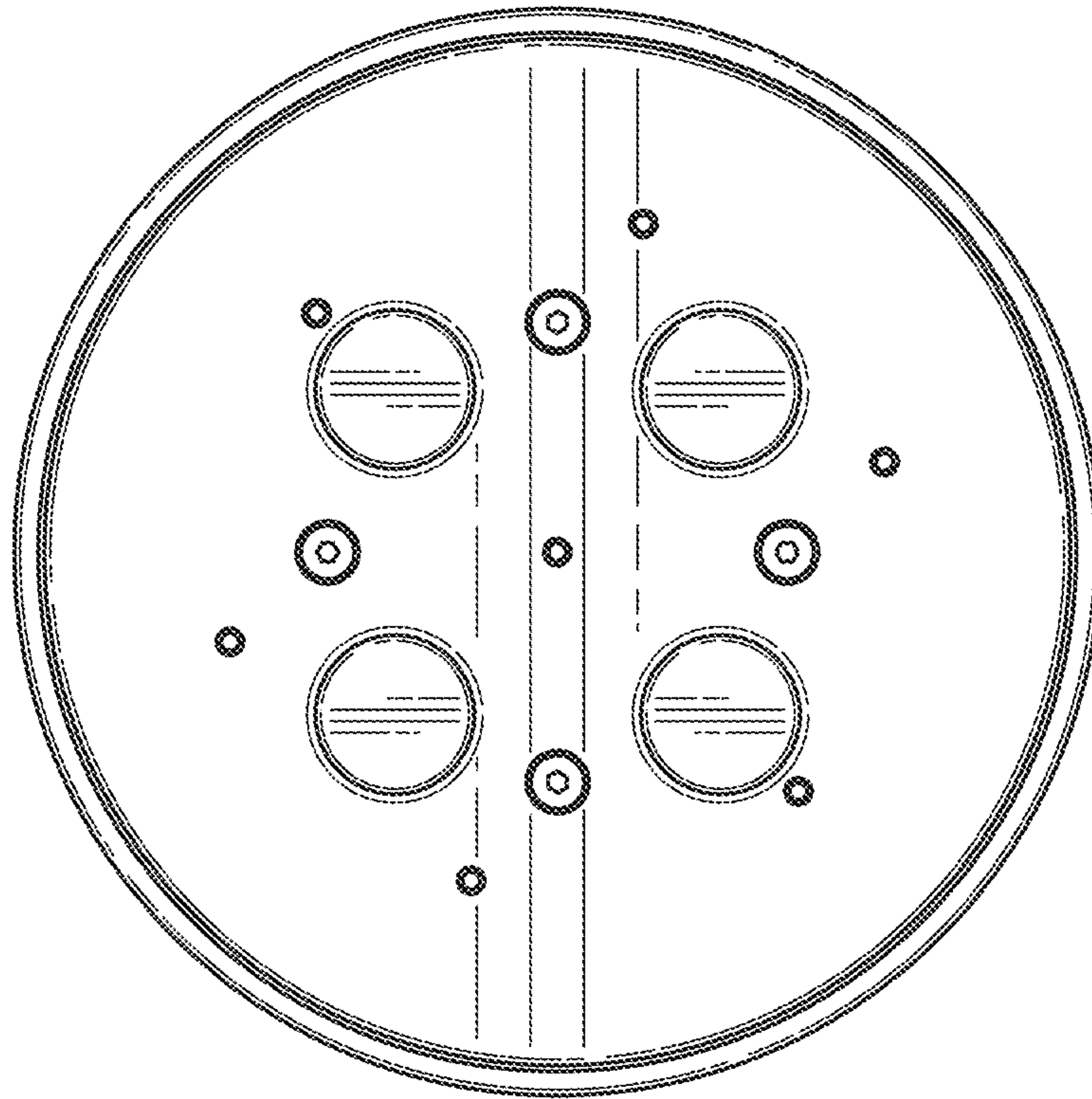


FIG. 6

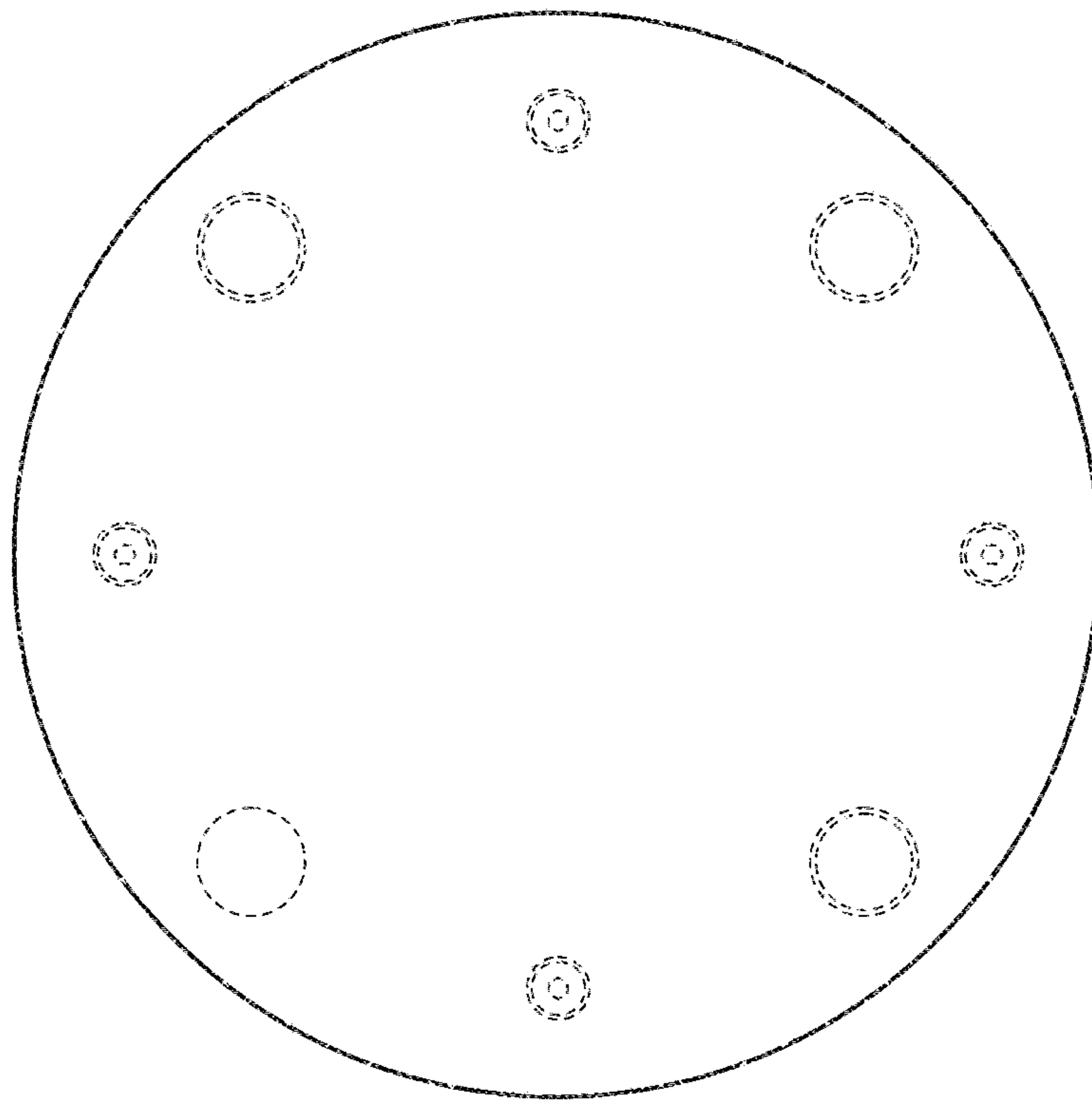


FIG. 7