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(12) **United States Design Patent** (10) **Patent No.:** **US D916,082 S**
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(54) **WIRELESS SENSOR TRANSMITTER AND RECEIVER APPARATUS**
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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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(52) **U.S. Cl.**

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See application file for complete search history.

(57) **CLAIM**

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

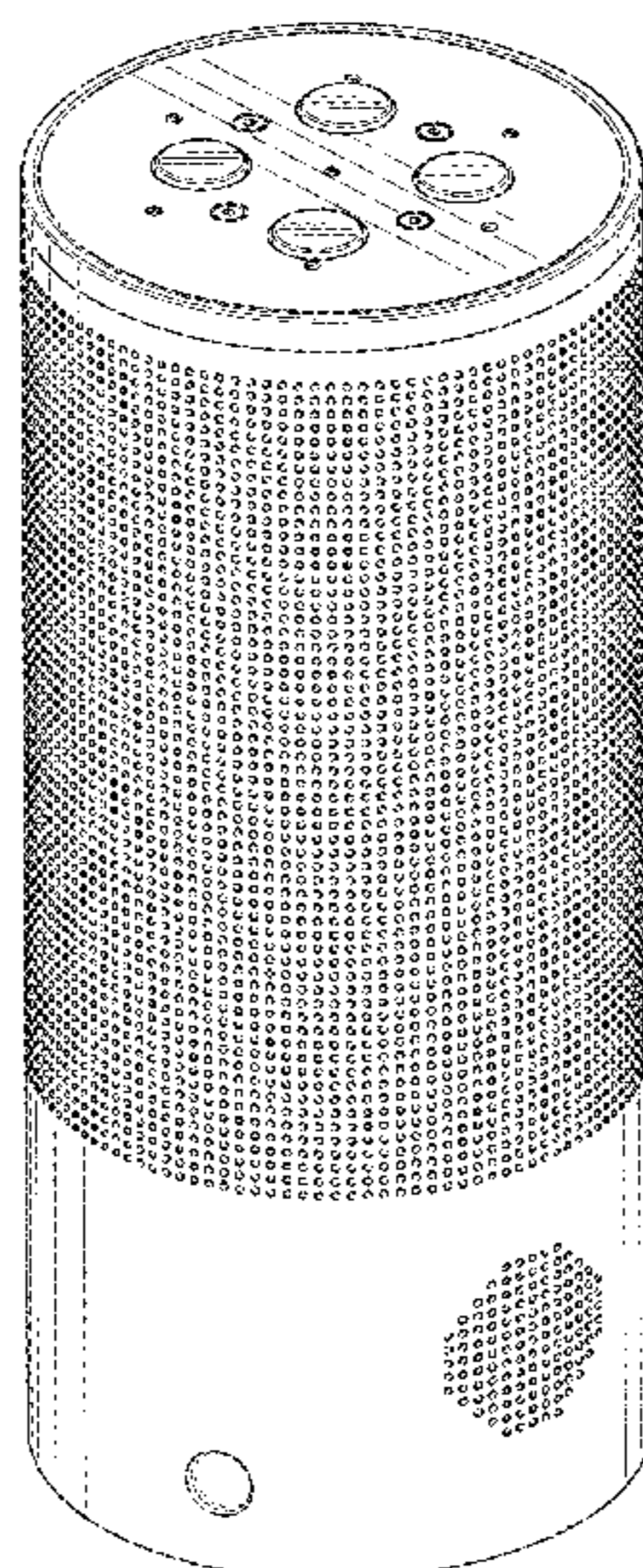
DESCRIPTION

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.

(56) **References Cited**
U.S. PATENT DOCUMENTS

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

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

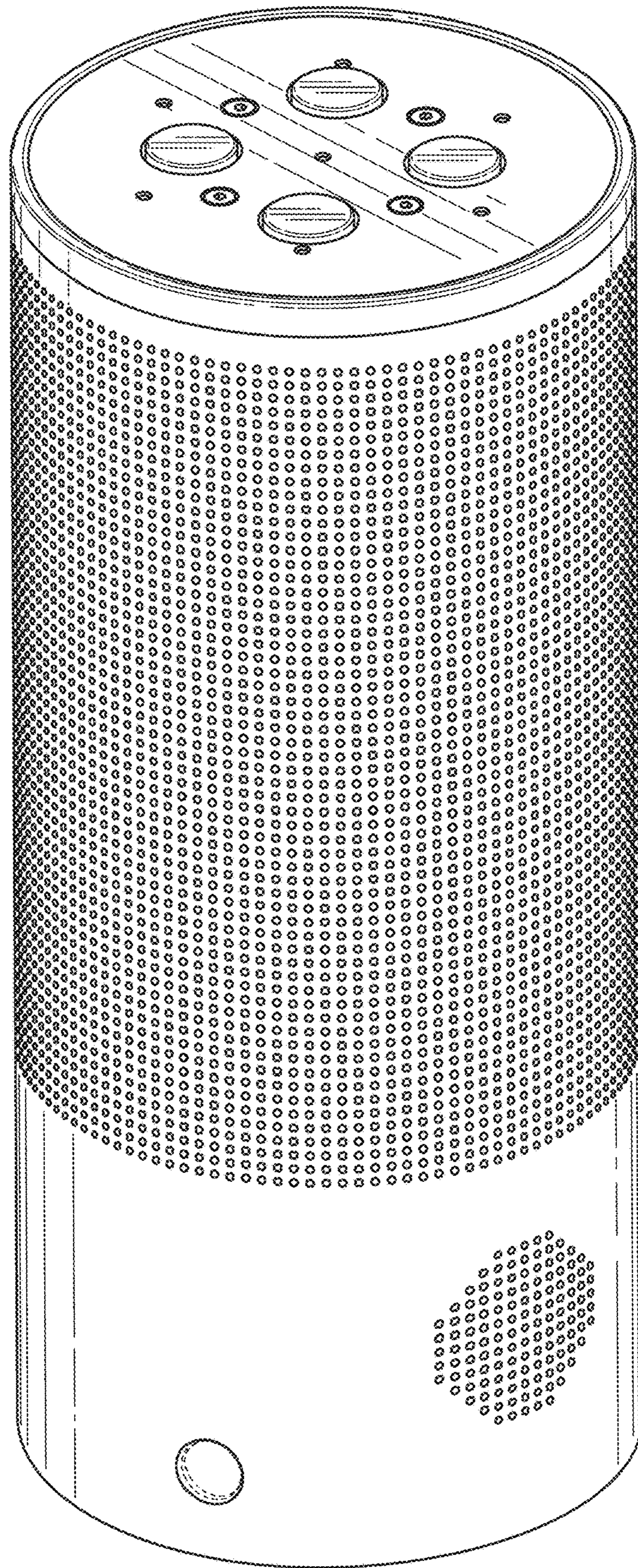


FIG. 1

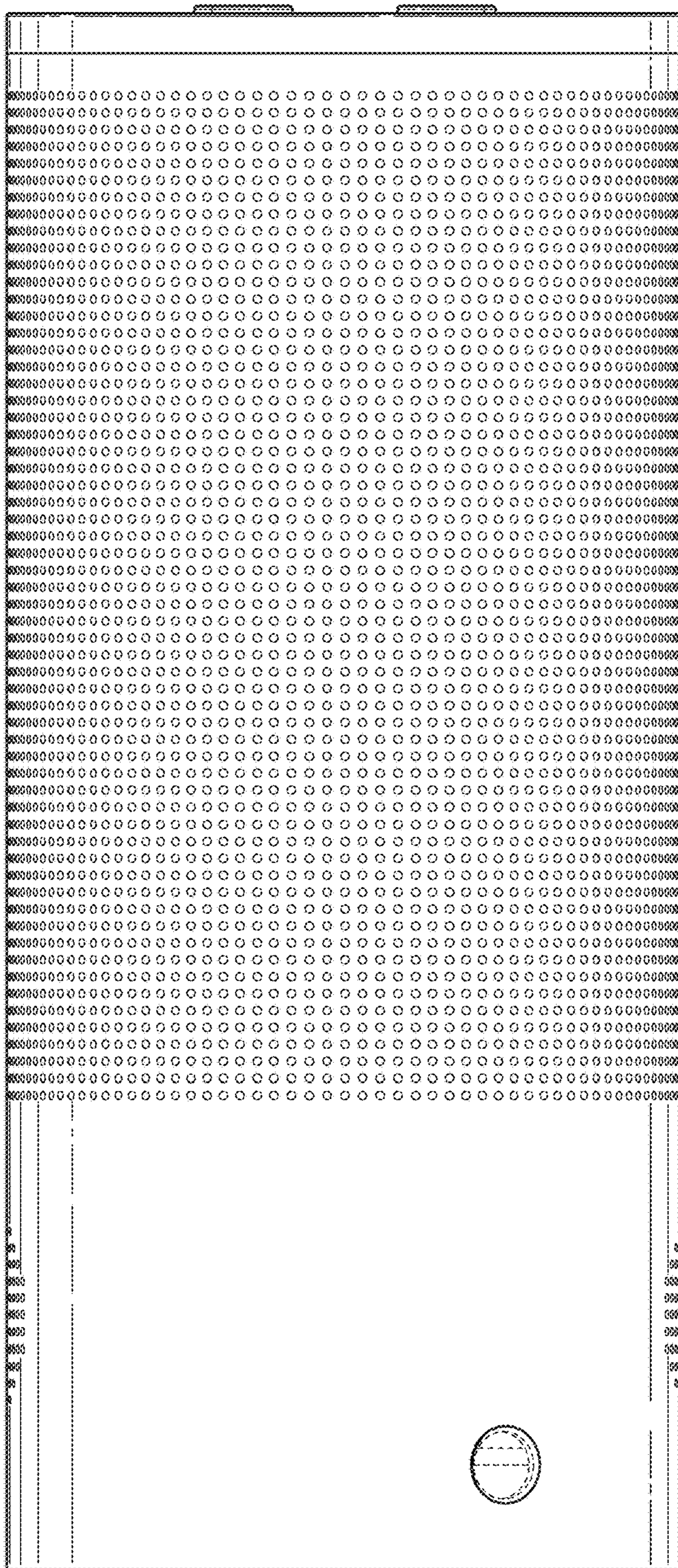


FIG. 2

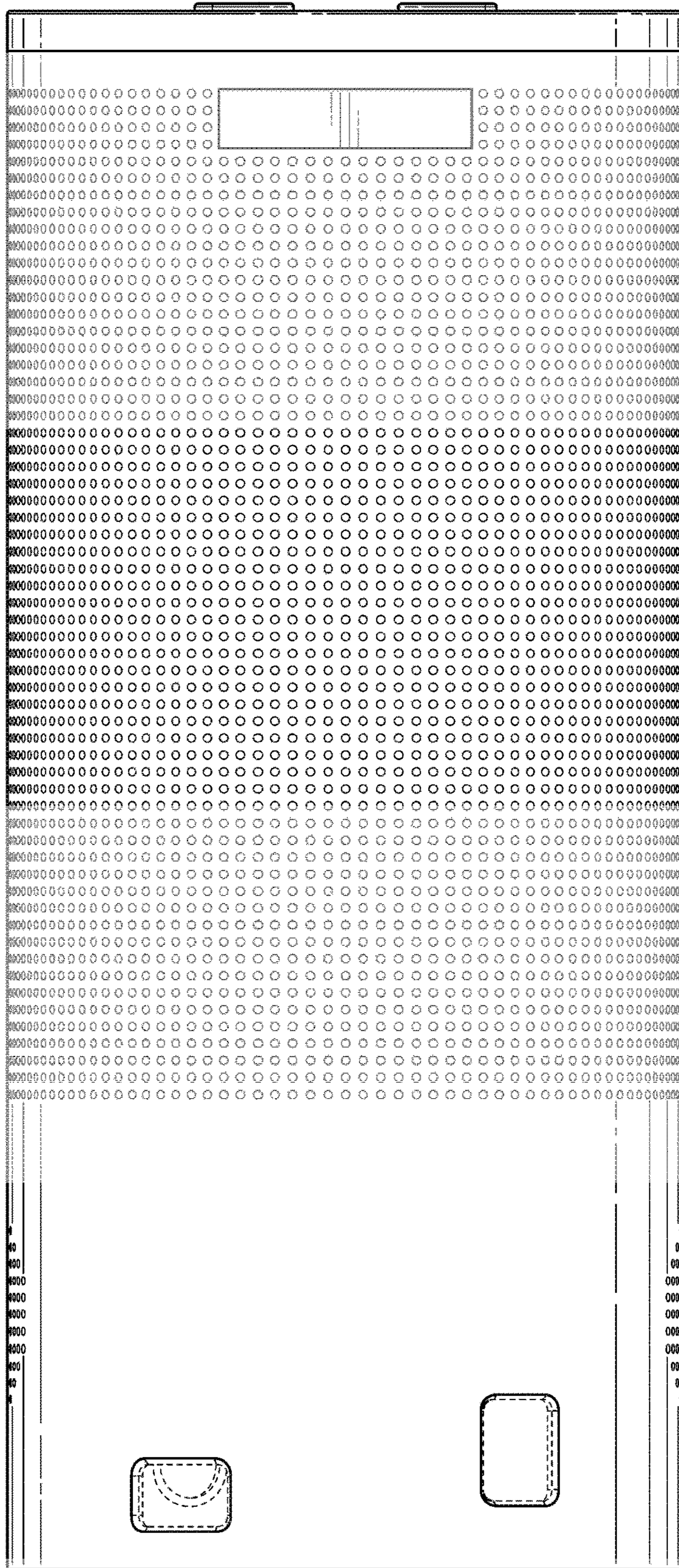


FIG. 3

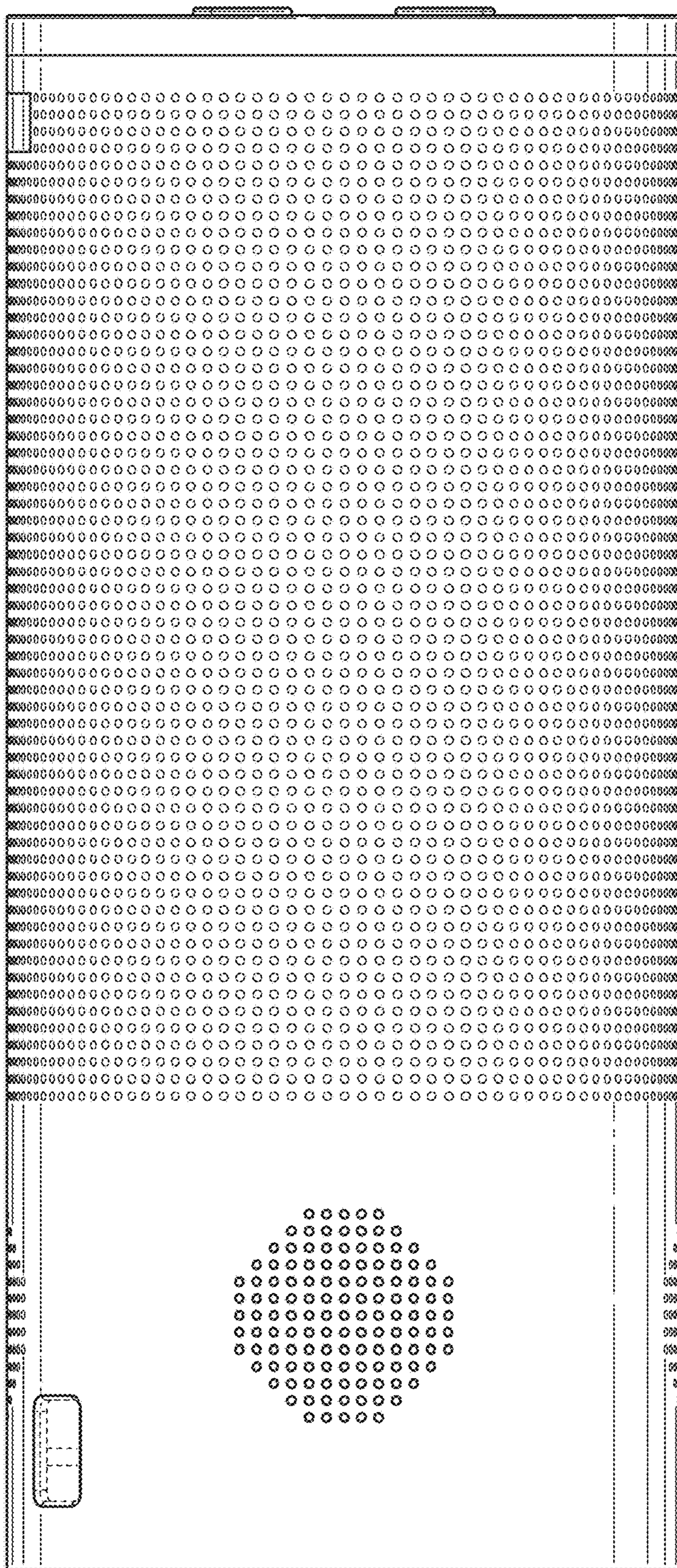


FIG. 4

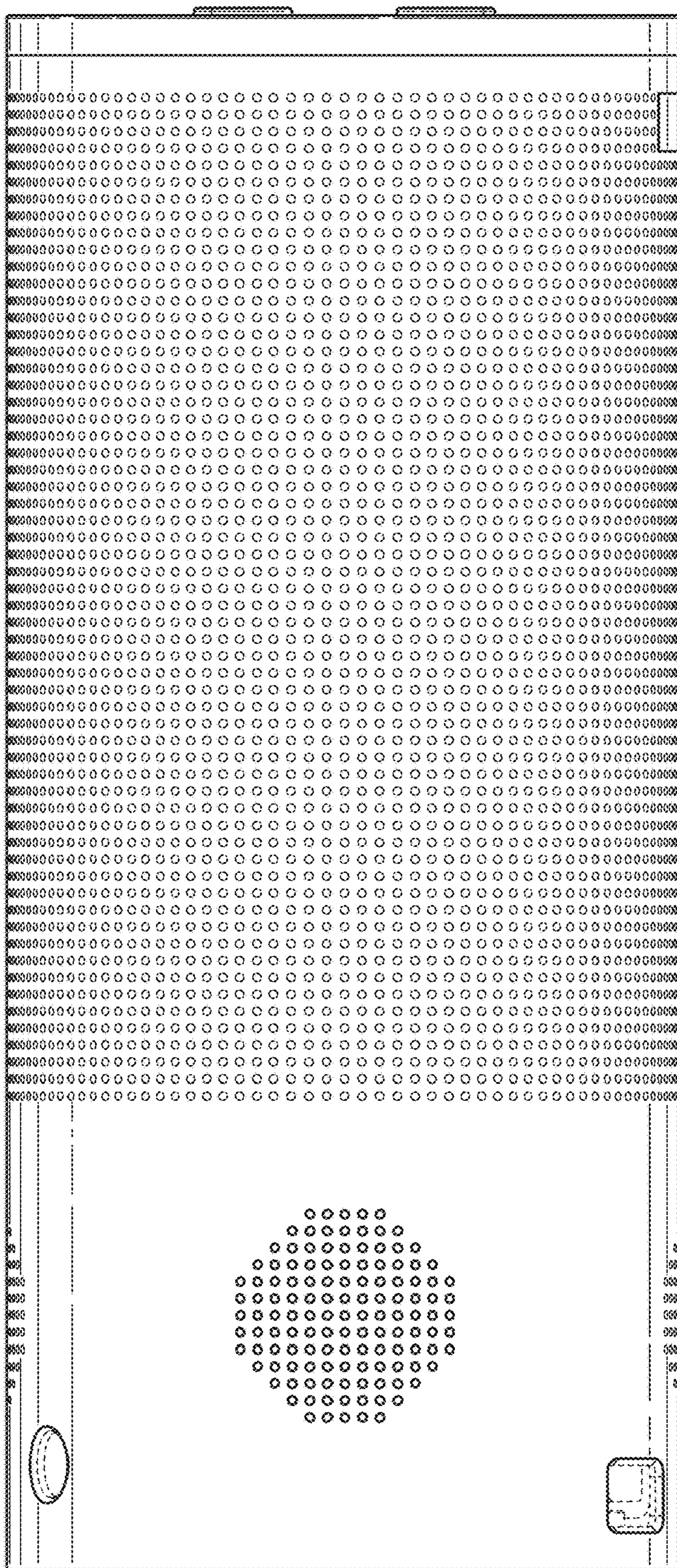


FIG. 5

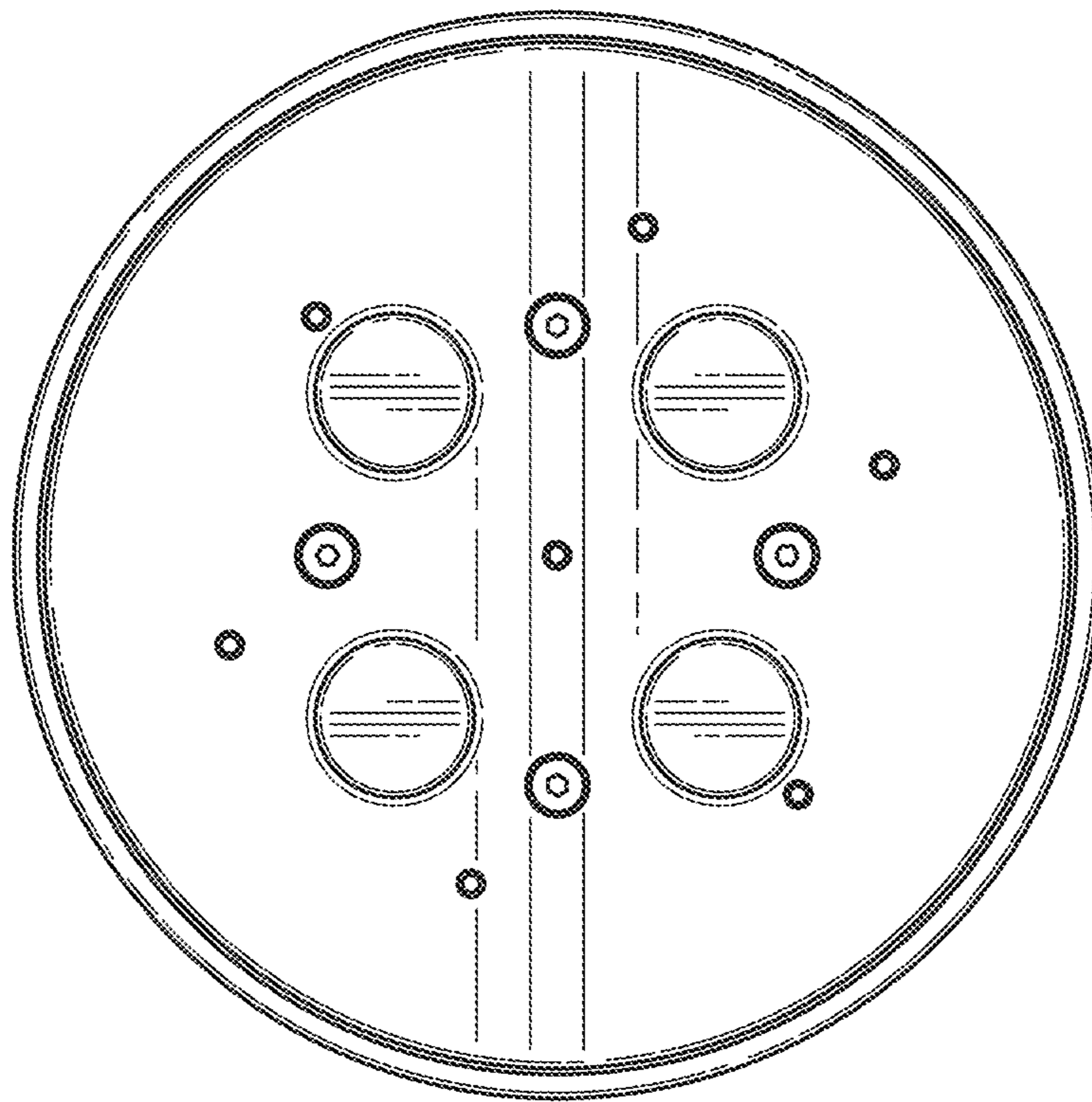


FIG. 6

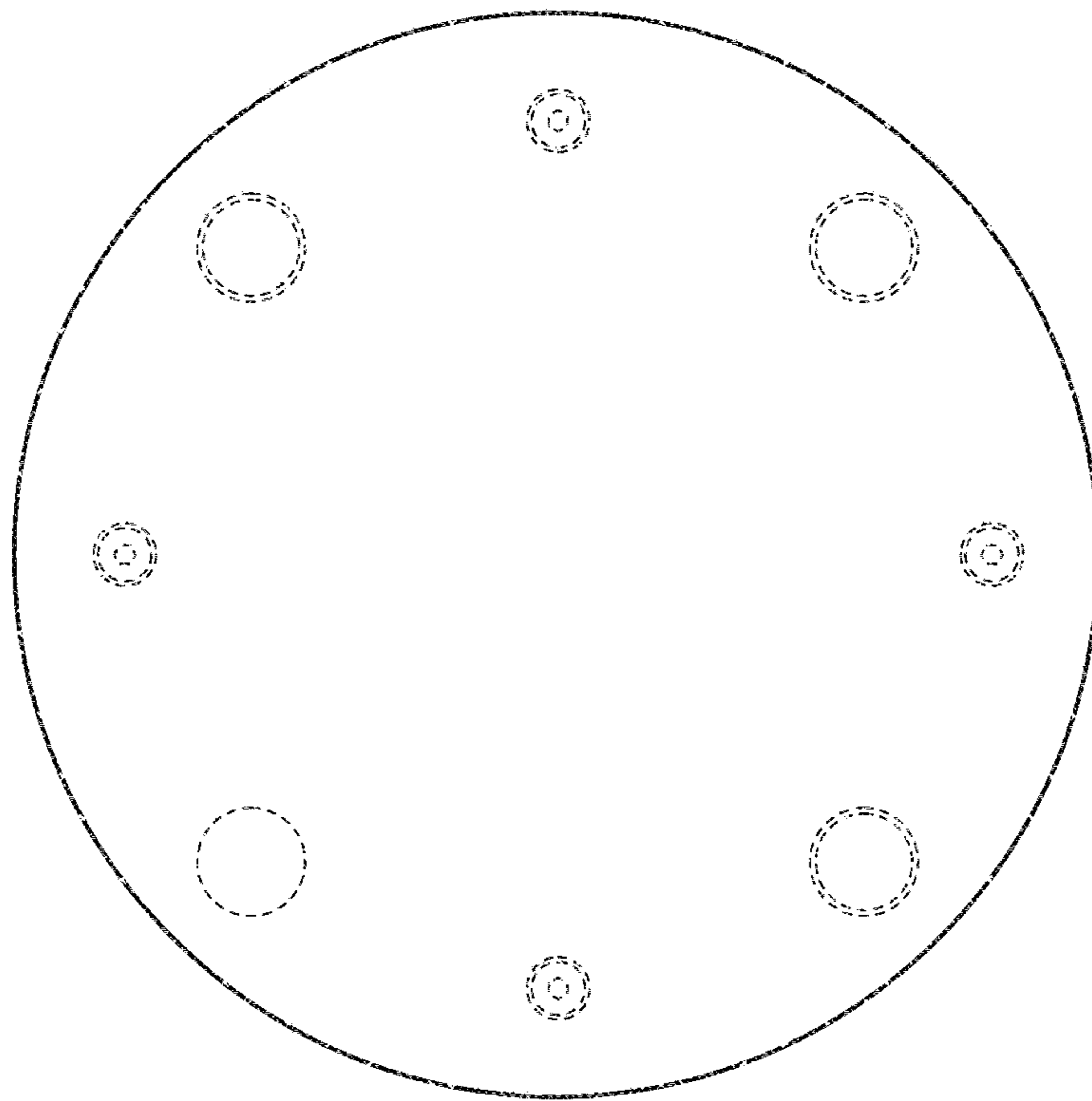


FIG. 7