



US00D784299S

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

(10) **Patent No.: US D784,299 S**
(45) **Date of Patent: ** Apr. 18, 2017**

(54) **ARRAY MICROPHONE ASSEMBLY**

2,912,605 A * 11/1959 Tibbetts G10K 9/122
257/417
2,938,113 A * 5/1960 Schneil A47G 1/0616
312/7.1
3,019,854 A * 2/1962 O'Bryant B01D 46/10
29/432

(71) Applicant: **Shure Acquisition Holdings, Inc.**,
Niles, IL (US)

(72) Inventors: **Elizabeth Ahra Cho**, Wilmette, IL
(US); **Gregory William Lantz**, Aurora,
IL (US); **John Matthew Miller**,
Grayslake, IL (US)

(Continued)

(73) Assignee: **Shure Acquisition Holdings, Inc.**,
Niles, IL (US)

CA 2838856 12/2012
CA 2846323 9/2014

(Continued)

(**) Term: **14 Years**

OTHER PUBLICATIONS

(21) Appl. No.: **29/525,639**

Office Action issued for Japanese Patent Application No. 2015-023781 dated Jun. 20, 2016.

(22) Filed: **Apr. 30, 2015**

(51) **LOC (10) Cl.** **14-01**

Primary Examiner — Paula Greene

(52) **U.S. Cl.**
USPC **D14/225**; D14/209

(74) *Attorney, Agent, or Firm* — William J. Lenz, Esq.;
Neal, Gerber & Eisenberg LLP

(58) **Field of Classification Search**
USPC D14/225, 126, 204, 214, 210, 211, 219,
D14/221, 250, 209.1, 224, 224.1, 209;
D23/388; D6/308, 300; 181/144, 145,
181/147, 148, 150, 157, 198, 199, 141,
181/164, 172, 173; 381/300, 301, 334,
381/364, 388, 391, 345, 395, 386
CPC . H04R 1/02; H04R 25/00; H04R 5/02; H04R
1/20; H04R 9/06; H04R 1/24; H04R 7/18
See application file for complete search history.

(57) **CLAIM**

The ornamental design for an array microphone assembly, as shown and described.

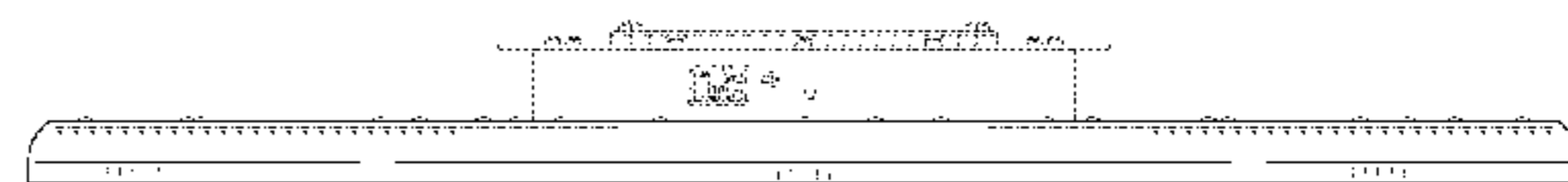
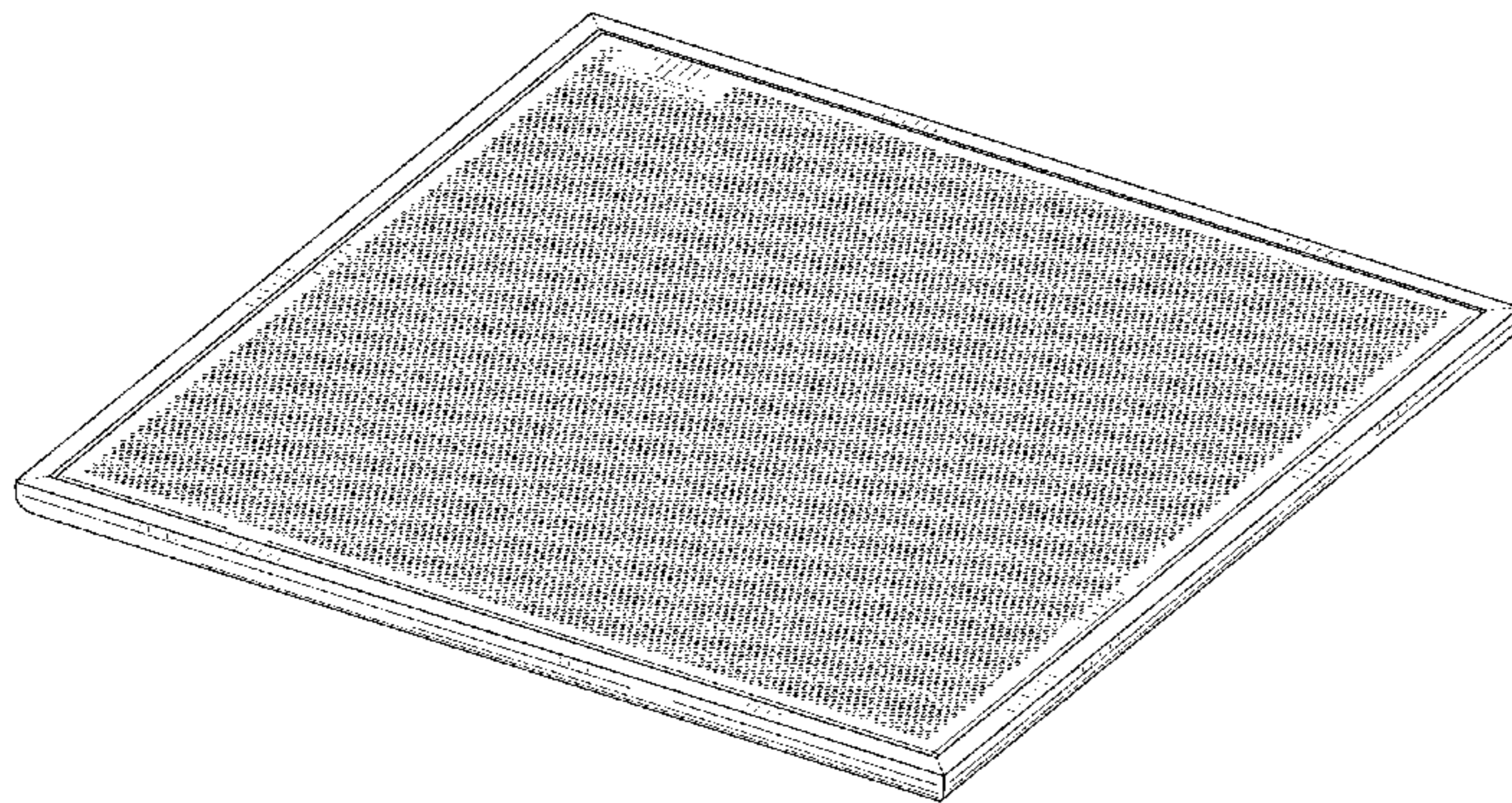
DESCRIPTION

FIG. 1 is a front perspective view of the array microphone assembly in accordance with the present invention; FIG. 2 is a rear perspective view thereof; FIG. 3 is a front plan view thereof; FIG. 4 is a rear plan view thereof; FIG. 5 is a first side elevation view thereof; FIG. 6 is a second side elevation view thereof, opposite from the first side elevation view; and, FIG. 7 is a third side elevation view thereof. The broken lines in the drawings illustrate the portions of the design that form no part of the claim.

1 Claim, 5 Drawing Sheets

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

1,965,830 A * 7/1934 Hammer H04R 1/023
181/199
2,521,603 A * 9/1950 Prew A47G 1/10
40/712
2,533,565 A * 12/1950 Eichelman G09F 15/0025
160/378
2,840,181 A * 6/1958 Wildman H04R 1/288
181/199



(56)

References Cited

U.S. PATENT DOCUMENTS

3,143,182 A * 8/1964 Sears H04R 1/2811
181/153
3,161,975 A * 12/1964 McMillan A47G 1/06
40/718
3,205,601 A * 9/1965 Gawne A47G 1/0611
40/647
3,509,290 A * 4/1970 Ishimura H04R 7/06
181/164
3,857,191 A * 12/1974 Sadorus G11B 33/06
360/2
3,938,617 A * 2/1976 Forbes H04R 1/345
181/148
3,941,638 A * 3/1976 Horky H04R 1/02
156/196
4,008,408 A * 2/1977 Kodama H04R 17/005
310/324
4,029,170 A * 6/1977 Phillips H04R 1/20
181/148
4,032,725 A * 6/1977 McGee H04R 1/025
248/27.1
D255,234 S * 6/1980 Wellward 181/150
D256,015 S * 7/1980 Doherty D14/224
4,212,133 A * 7/1980 Lufkin A01G 5/00
248/488
4,244,096 A * 1/1981 Kashichi B23P 11/00
181/199
4,518,826 A * 5/1985 Caudill H04M 1/0291
379/167.05
4,566,557 A * 1/1986 Lemaitre H04R 1/021
181/150
4,969,197 A * 11/1990 Takaya H04R 17/00
310/324
5,038,935 A * 8/1991 Wenkman B65D 81/36
206/449
D329,239 S * 9/1992 Hahn D14/219
D340,718 S * 10/1993 Leger D14/224
D345,346 S * 3/1994 Alfonso D14/341
D345,379 S * 3/1994 Chan D20/40
5,322,979 A * 6/1994 Cassity H04R 1/023
181/150
5,359,374 A * 10/1994 Schwartz A47G 1/0616
40/455
5,383,293 A * 1/1995 Royal B44C 5/02
40/768
5,400,413 A * 3/1995 Kindel H04R 1/023
181/199
D363,045 S * 10/1995 Phillips D11/132
D392,977 S * 3/1998 Kim D14/214
D394,061 S * 5/1998 Fink D14/170
6,035,962 A * 3/2000 Lin H04R 1/02
181/148
D424,538 S * 5/2000 Hayashi D14/126
D432,518 S * 10/2000 Muto D14/168
6,144,746 A * 11/2000 Azima G06F 1/1616
381/152
6,198,831 B1 * 3/2001 Azima B42D 15/022
181/172
6,266,427 B1 * 7/2001 Mathur H04R 7/045
181/167
6,285,770 B1 * 9/2001 Azima B42D 15/022
381/152
D453,016 S * 1/2002 Nevill D14/214
6,393,129 B1 * 5/2002 Conrad H04R 19/00
381/191
D489,707 S * 5/2004 Kobayashi D14/214
D504,889 S * 5/2005 Andre D14/341
6,993,145 B2 * 1/2006 Combest H04R 1/023
181/199
D526,643 S * 8/2006 Ishizaki D14/214
D527,372 S * 8/2006 Allen D14/214

D542,543 S * 5/2007 Bruce D6/300
D546,318 S * 7/2007 Yoon D14/214
D547,748 S * 7/2007 Tsuge D14/211
D549,673 S * 8/2007 Niitsu D14/126
D552,570 S * 10/2007 Niitsu D14/126
D559,553 S * 1/2008 Mischel, Jr. D6/300
D566,685 S * 4/2008 Koller D14/168
7,387,151 B1 * 6/2008 Payne E06B 5/006
160/371
D587,709 S * 3/2009 Niitsu D14/371
D589,605 S * 3/2009 Reedy D23/388
D595,736 S * 7/2009 Son D14/502
7,565,949 B2 * 7/2009 Tojo G06F 1/1605
181/148
D613,338 S * 4/2010 Marukos D20/10
D614,871 S * 5/2010 Tang D14/371
D636,188 S * 4/2011 Kim D6/308
D642,385 S * 8/2011 Lee D6/308
8,064,629 B2 * 11/2011 Jiang H04R 1/023
181/150
8,286,749 B2 10/2012 Stewart, Jr. et al.
8,297,402 B2 10/2012 Stewart et al.
8,403,107 B2 3/2013 Stewart, Jr. et al.
D685,346 S * 7/2013 Szymanski D14/214
8,479,871 B2 7/2013 Stewart et al.
8,631,897 B2 1/2014 Stewart, Jr. et al.
8,670,581 B2 * 3/2014 Harman H04R 19/02
381/191
8,672,087 B2 3/2014 Stewart, Jr. et al.
D717,272 S * 11/2014 Kim D14/204
D725,631 S * 3/2015 McNamara D14/214
D726,144 S * 4/2015 Kang D14/204
D729,767 S * 5/2015 Lee D14/209.1
D737,245 S * 8/2015 Fan D14/214
D743,376 S * 11/2015 Kim D14/214
D743,939 S * 11/2015 Seong D14/214
D754,103 S * 4/2016 Fischer D14/214
2006/0159293 A1 * 7/2006 Azima B42D 15/022
381/152
2006/0198541 A1 * 9/2006 Henry H04R 9/02
381/152
2006/0215866 A1 * 9/2006 Francisco H04R 1/025
381/345
2007/0120029 A1 5/2007 Keung et al.
2009/0087001 A1 * 4/2009 Jiang H04R 1/023
381/189
2010/0011644 A1 * 1/2010 Kramer A47G 1/0616
40/711
2010/0314513 A1 12/2010 Evans et al.
2011/0311085 A1 12/2011 Stewart, Jr. et al.
2012/0002835 A1 1/2012 Stewart, Jr. et al.
2012/0080260 A1 4/2012 Stewart, Jr. et al.
2012/0294472 A1 11/2012 Hudson et al.
2013/0004013 A1 1/2013 Stewart, Jr. et al.
2013/0015014 A1 1/2013 Stewart et al.
2013/0251181 A1 9/2013 Stewart, Jr. et al.
2013/0264144 A1 10/2013 Hudson et al.
2013/0336516 A1 12/2013 Stewart et al.
2014/0233777 A1 * 8/2014 Tseng H04R 1/021
381/332
2014/0265774 A1 9/2014 Stewart, Jr. et al.
2014/0286518 A1 9/2014 Stewart, Jr. et al.
2014/0301586 A1 10/2014 Stewart, Jr. et al.
2014/0357177 A1 12/2014 Stewart, Jr. et al.

FOREIGN PATENT DOCUMENTS

CN 102833664 12/2012
CN 104080289 10/2014
EP 2721837 4/2014
EP 2778310 9/2014
WO WO2010144148 12/2010
WO WO2012174159 12/2012

* cited by examiner

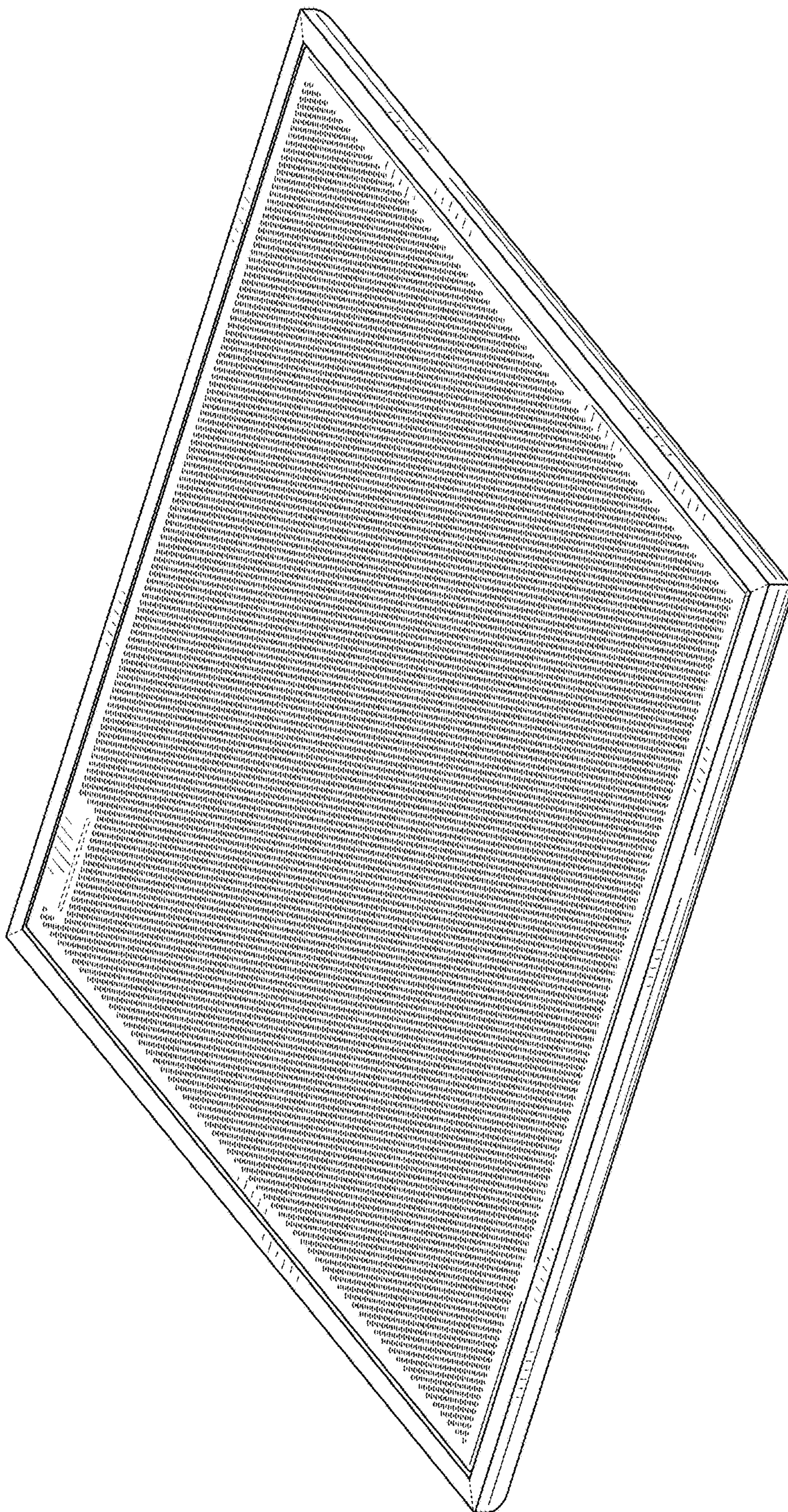


FIG. 1

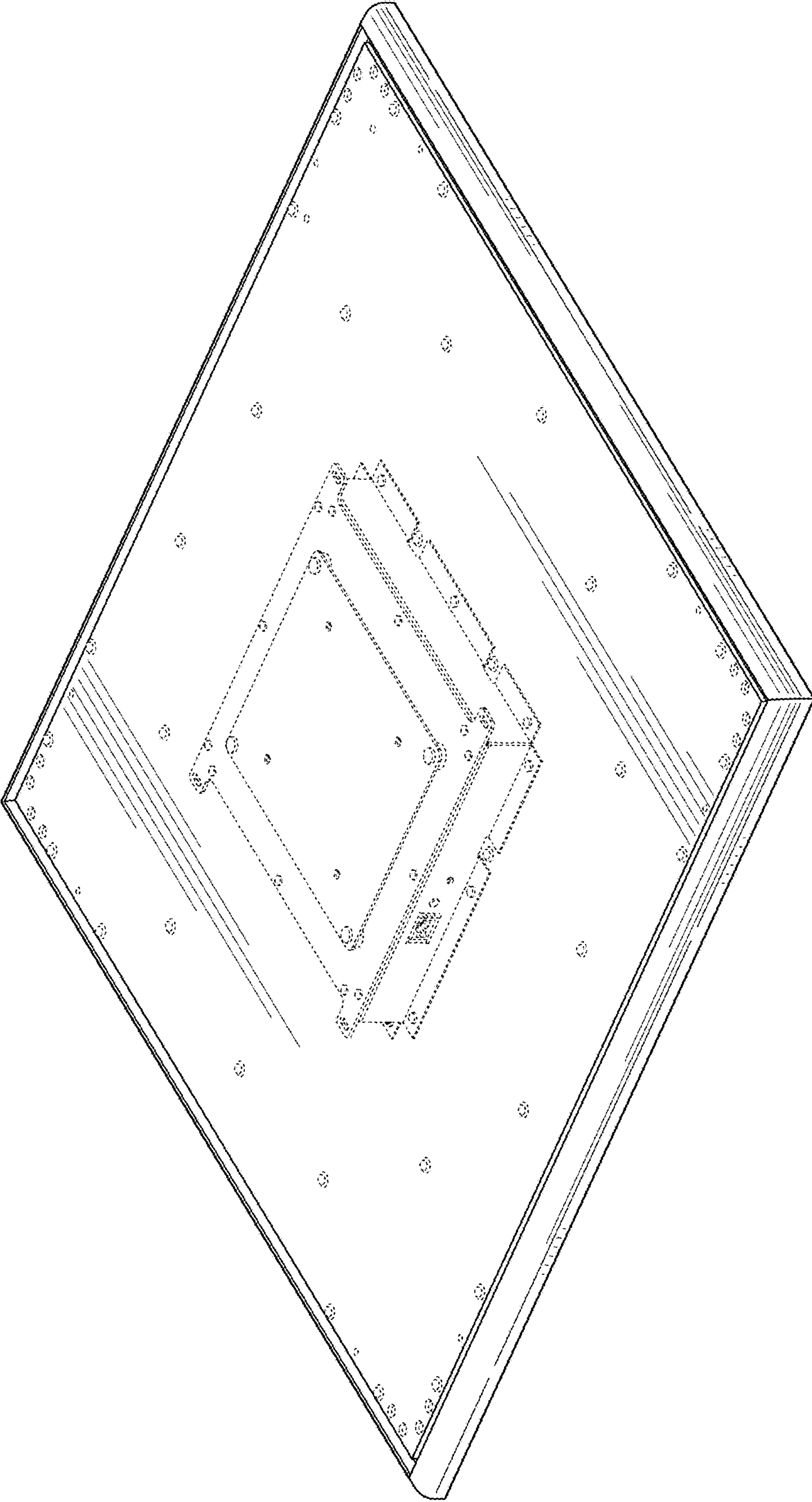


FIG. 2

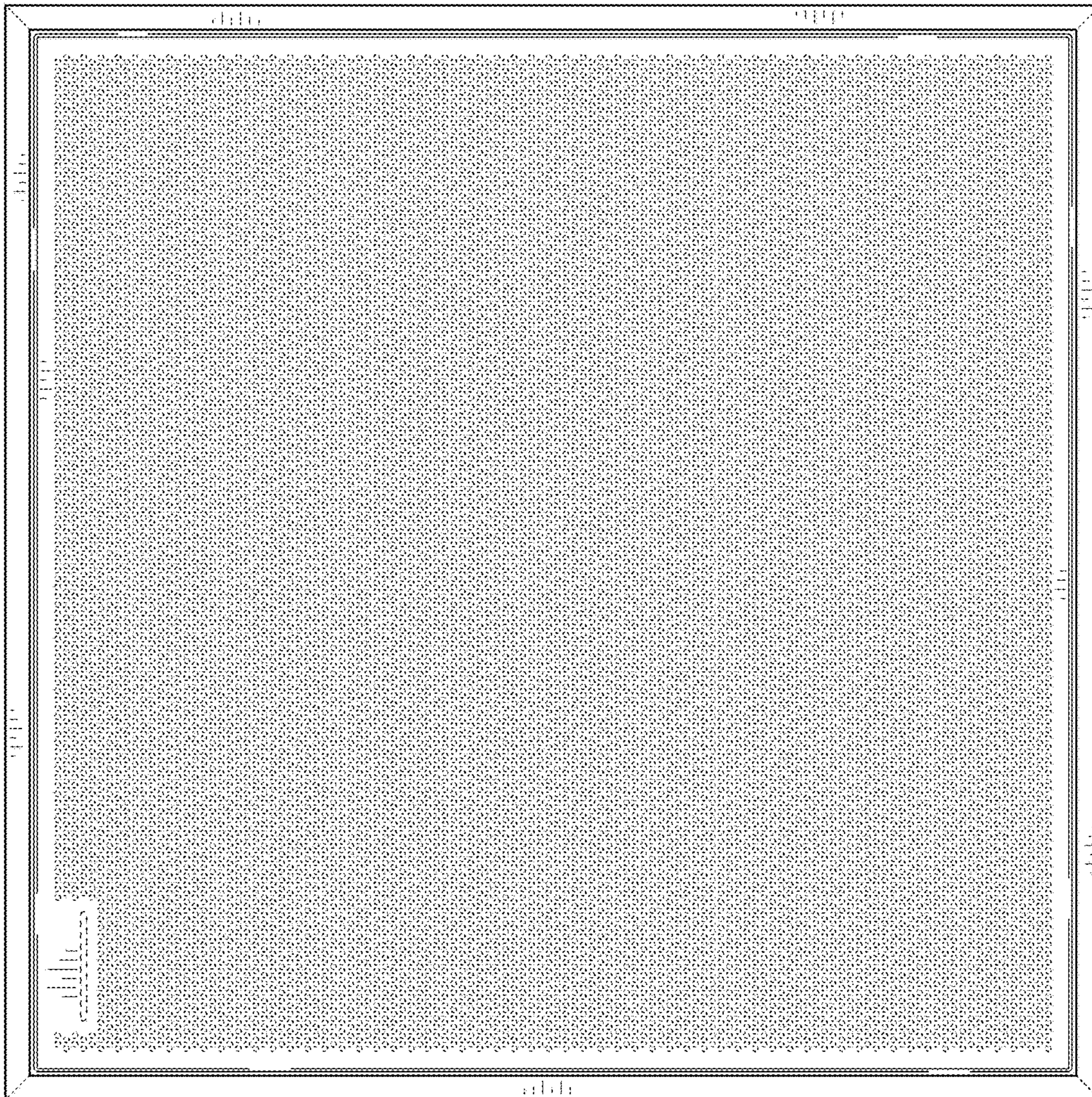
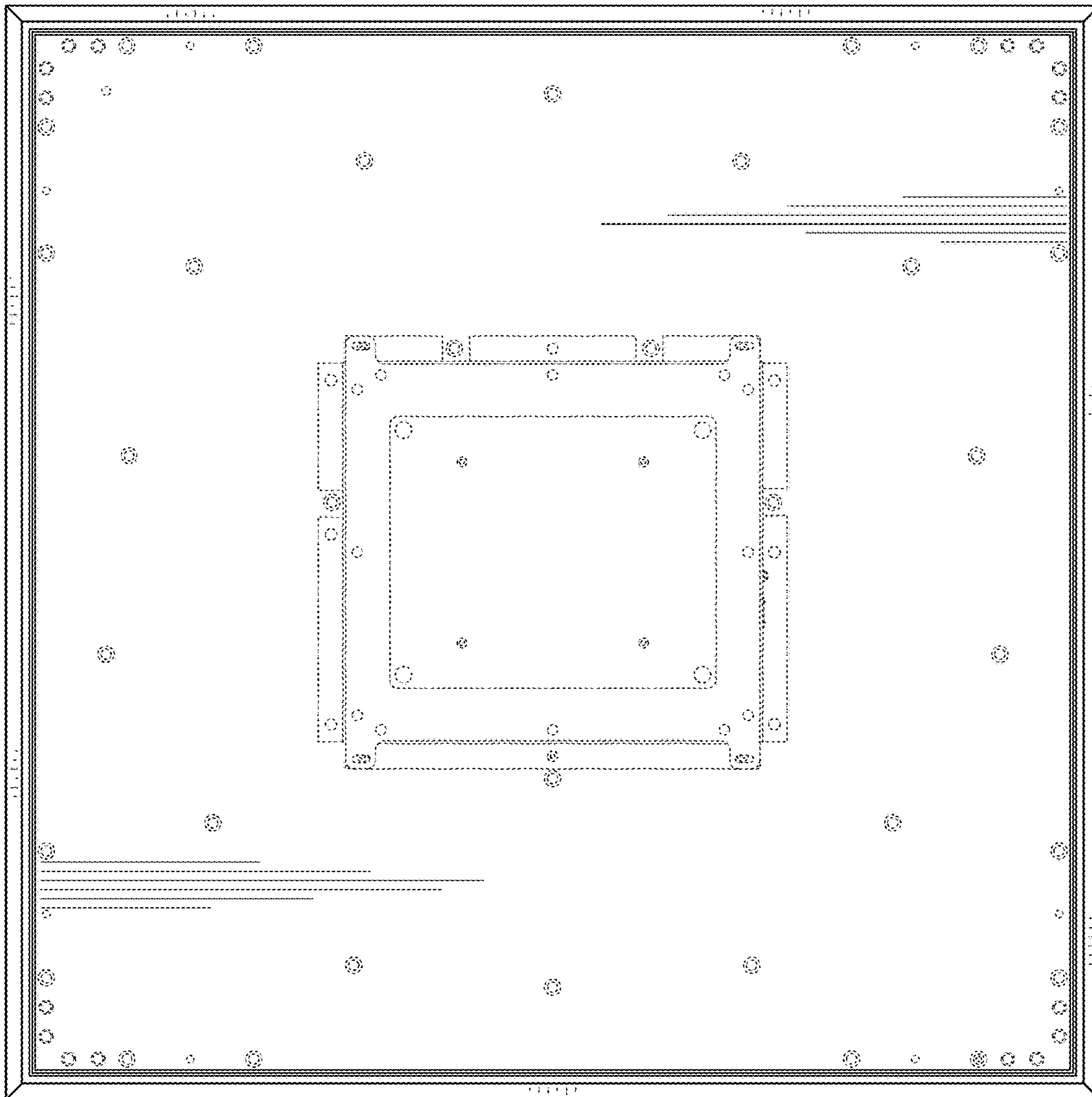


FIG. 3

FIG. 4



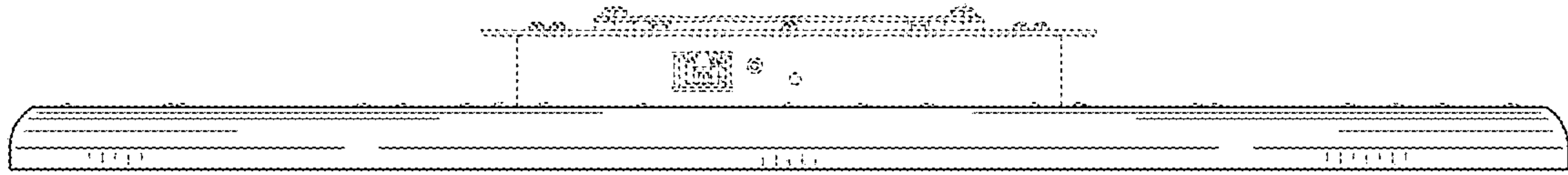


FIG. 5

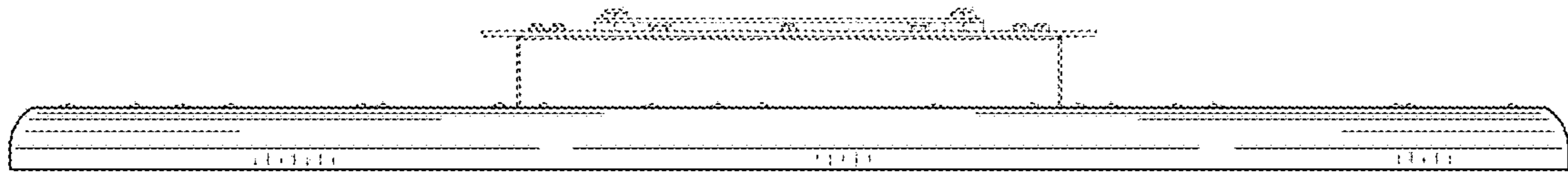


FIG. 6

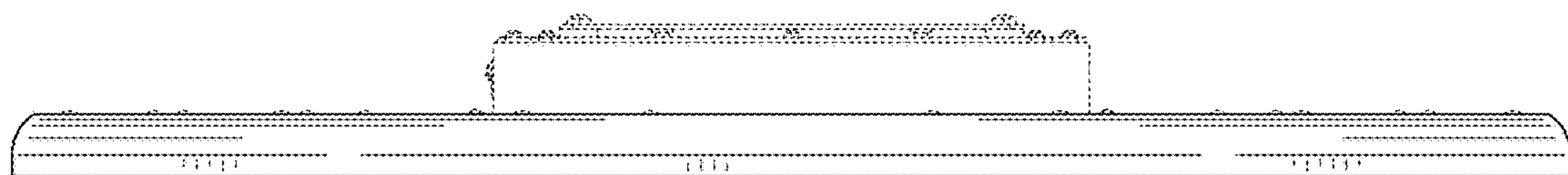


FIG. 7