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(12) **United States Design Patent** (10) **Patent No.:** **US D853,581 S**  
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(54) **RACK FOR ASSAY TIPS AND ASSAY CUPS**

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**Related U.S. Application Data**

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Oct. 1, 2015.

(51) **LOC (11) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/227**

(58) **Field of Classification Search**  
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422/500-553, 560-562, 564, 50, 400;  
211/126.1, 74, 70.1; 435/287.1, 288, 4,  
435/305.2, 289.1; 206/443  
CPC ..... B01L 9/54; B01L 9/00; B01L 9/06; B01L  
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See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,349,109 A 9/1982 Scordato et al.  
4,619,365 A 10/1986 Kelly et al.  
5,366,088 A 11/1994 Hill et al.  
5,392,914 A 2/1995 Lemieux et al.

D369,415 S \* 4/1996 Boulton ..... D24/224  
5,582,297 A 12/1996 Carter  
5,827,745 A 10/1998 Astle  
D414,271 S \* 9/1999 Mendoza ..... D24/224  
6,098,819 A 8/2000 Link  
D448,854 S \* 10/2001 Kuiper ..... D24/227  
D461,554 S \* 8/2002 Lafond ..... D24/227  
6,534,015 B1 3/2003 Viot et al.  
D620,605 S \* 7/2010 Reitze ..... D24/227  
D628,306 S \* 11/2010 Blanc ..... D24/230  
D639,447 S \* 6/2011 Karpiloff ..... D24/230

(Continued)

**FOREIGN PATENT DOCUMENTS**

EP 1 278 966 B1 7/2006  
FR 2726201 A1 5/1996

(Continued)

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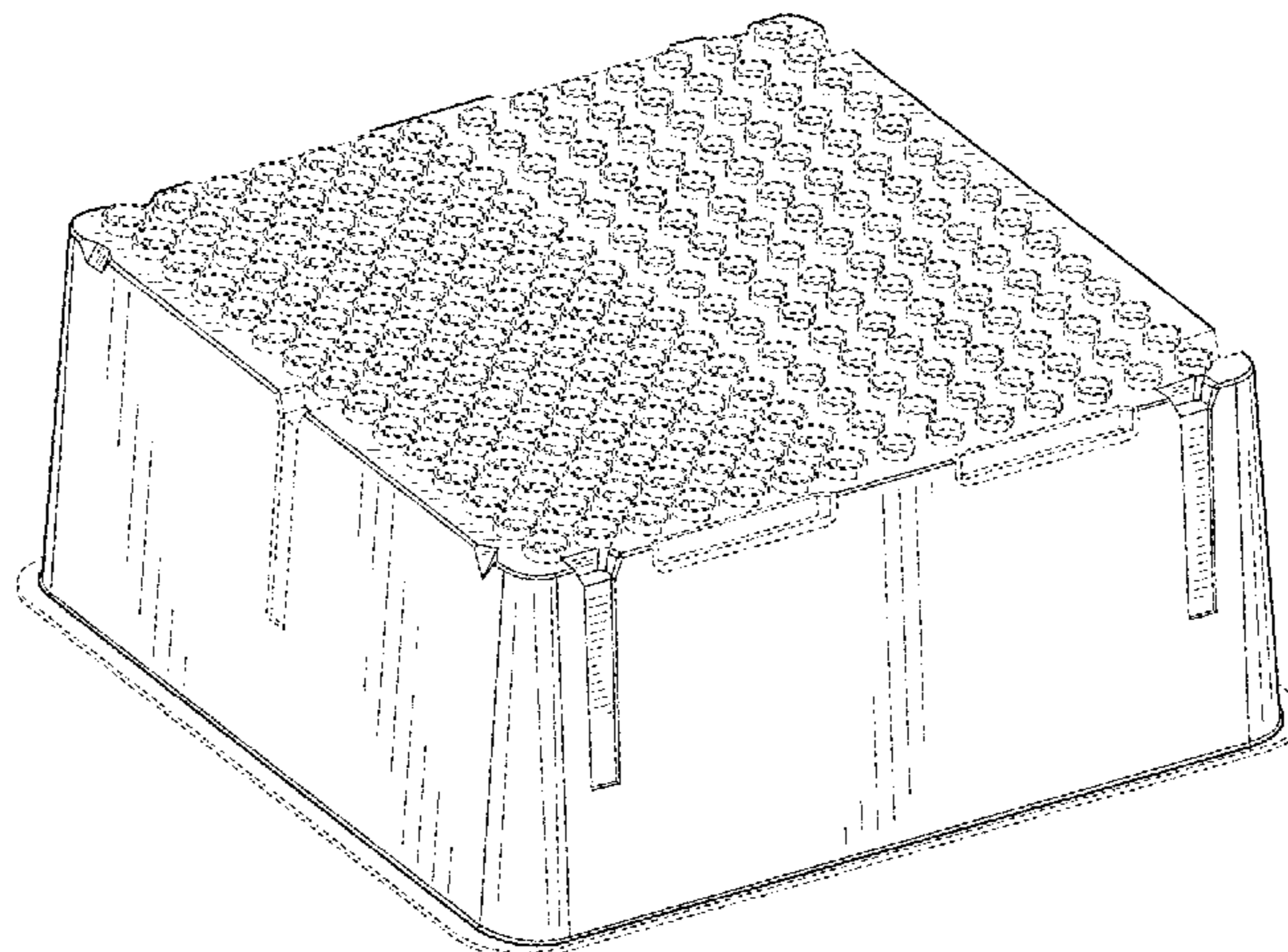
(57) **CLAIM**

The ornamental design for a rack for assay tips and assay cups, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective of a rack for assay tips and assay cups in accordance with the present invention;  
FIG. 2 is a top view of the rack of FIG. 1, the opposite side being disclaimed entirely and not shown;  
FIG. 3 is a left side view of the rack of FIG. 1;  
FIG. 4 is a front view of the rack of FIG. 1, the opposite side being a mirror image thereof; and,  
FIG. 5 is a right side view of the rack of FIG. 1.  
The broken line circles on the top surface of FIGS. 1-5 represent holding wells for assay tips and assay cups and form no part of the claimed design. All other broken lines on the exterior of the rack depict unclaimed environment and form no part of the claimed design.

**1 Claim, 2 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D645,156	S *	9/2011	Reitze .....	D24/227
8,168,137	B2	5/2012	Powell et al.	
D675,748	S *	2/2013	Hilligoss .....	D24/230
D699,371	S *	2/2014	Williams .....	D24/230
8,906,327	B2 *	12/2014	Williams .....	B01L 9/543 422/524
8,950,595	B2	2/2015	Ammon	
D808,540	S *	1/2018	Johns .....	D24/227
D812,243	S *	3/2018	Johns .....	D24/227
2006/0045815	A1	3/2006	Hovatter	
2008/0023426	A1	1/2008	Stahl	
2011/0180541	A1	7/2011	Becklin	
2013/0315800	A1 *	11/2013	Yin .....	B01L 9/523 422/552
2014/0308181	A1	10/2014	Blumentritt	
2016/0101422	A1 *	4/2016	Bucher .....	B01L 9/543 422/564
2016/0167041	A1 *	6/2016	Curry .....	B01L 3/0275 422/526
2017/0136467	A1 *	5/2017	Johns .....	B01L 9/06

FOREIGN PATENT DOCUMENTS

GB	1 522 128 A	8/1978
WO	2003064271 A3	8/2003

\* cited by examiner

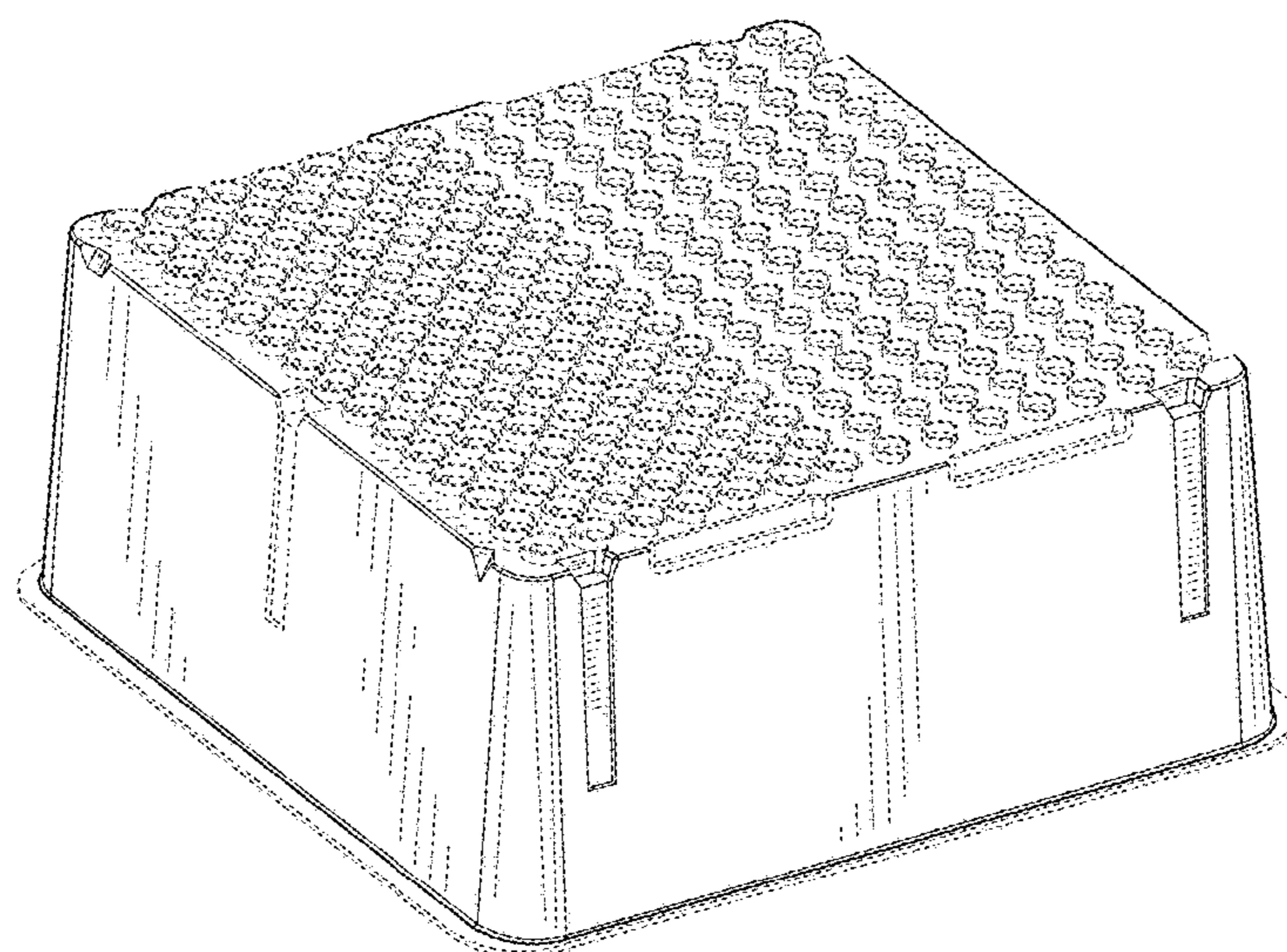


FIG. 1

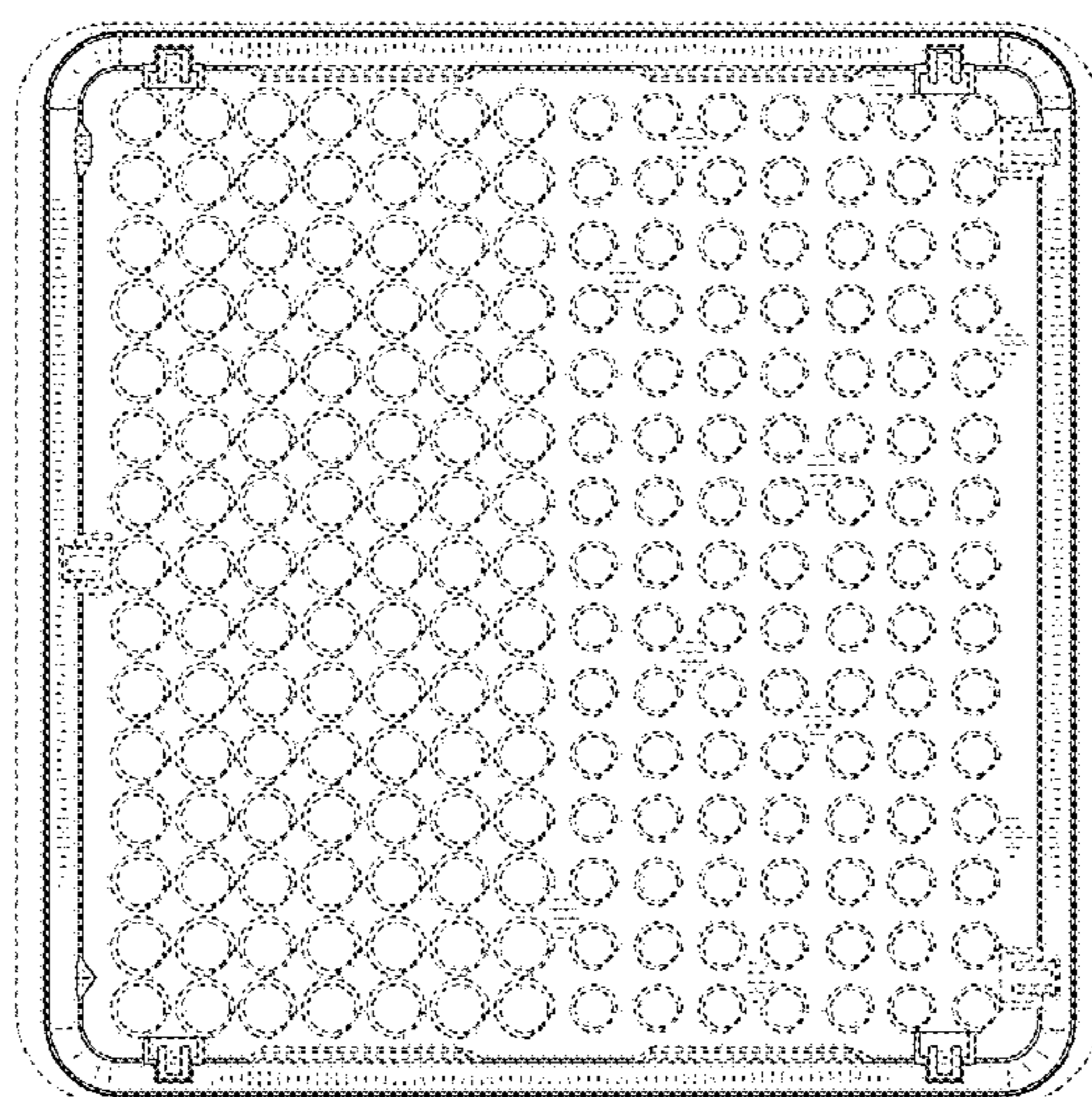


FIG. 2

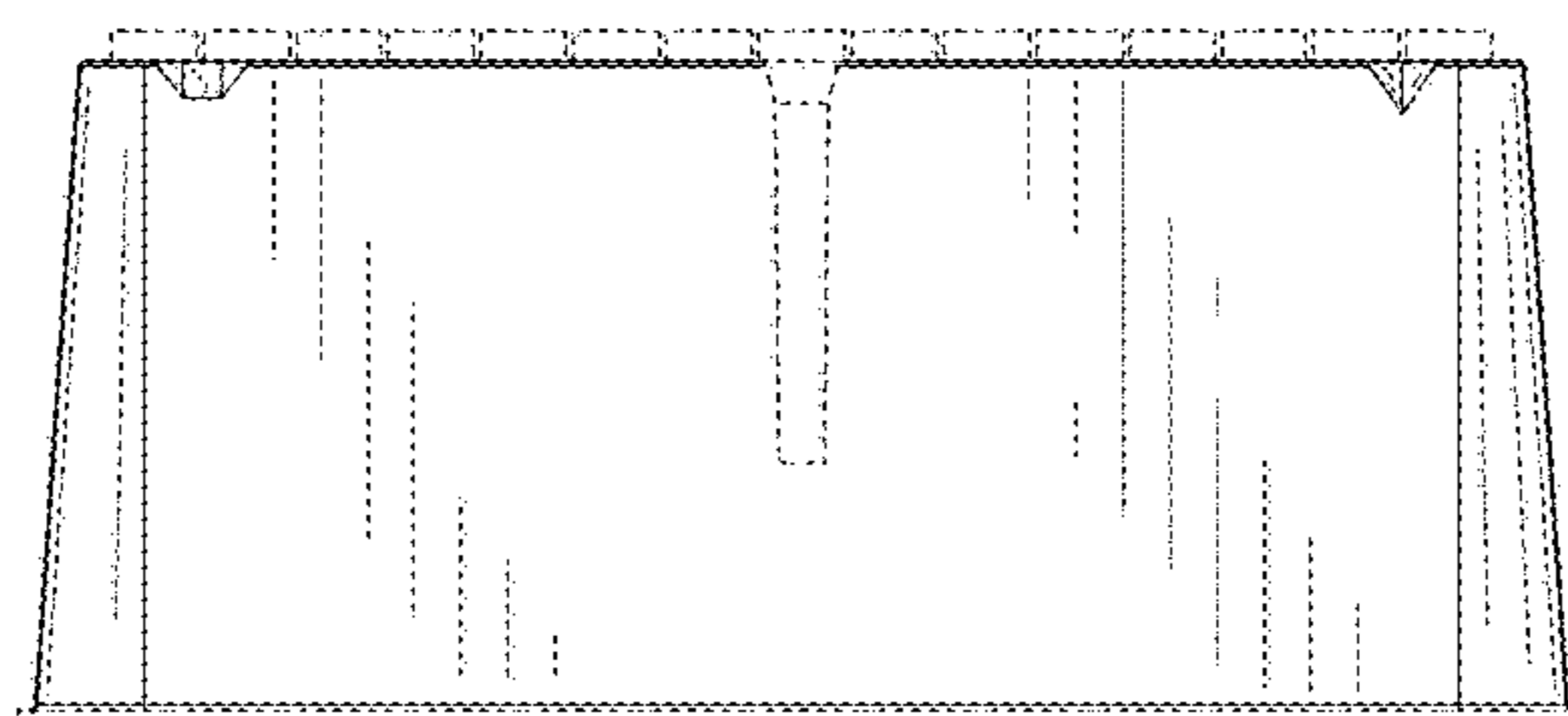


FIG. 3

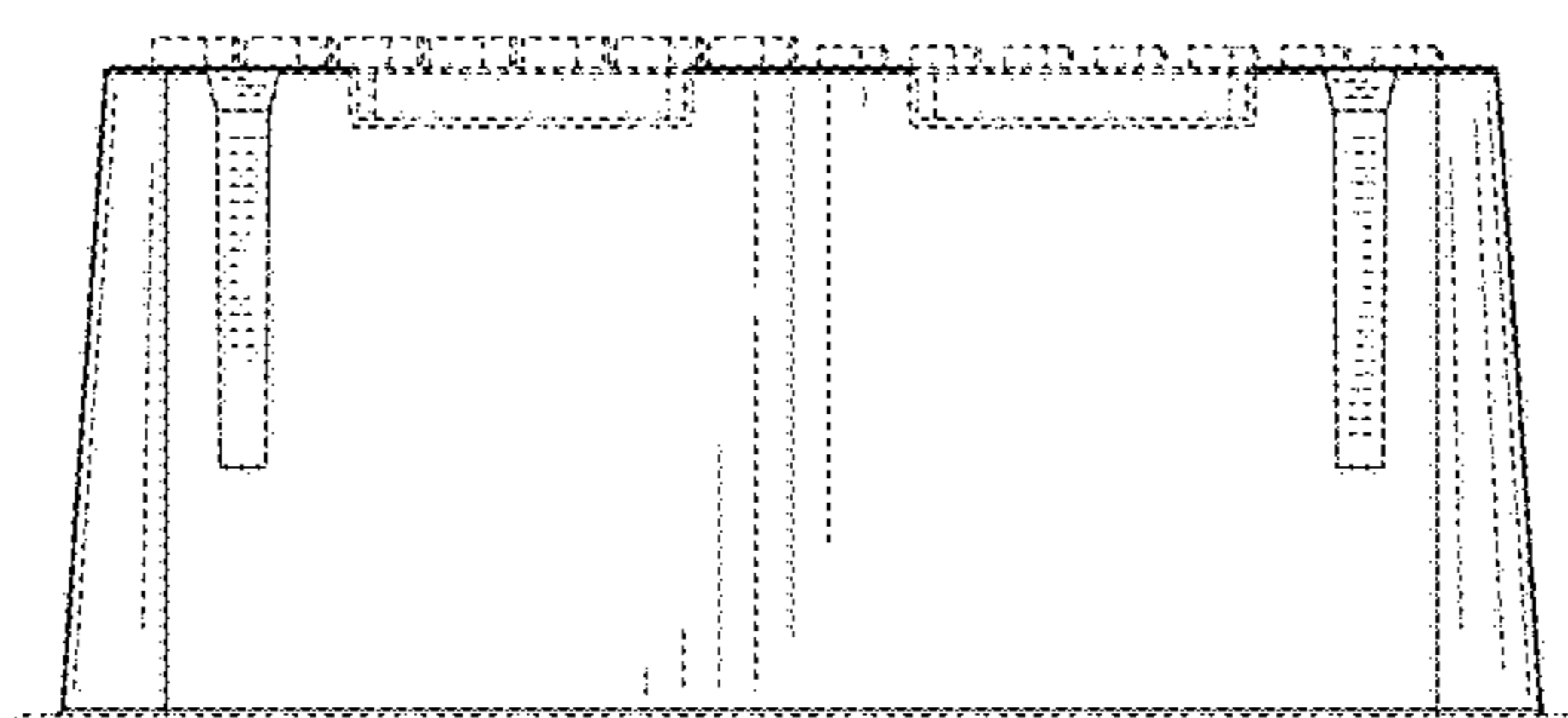


FIG. 4

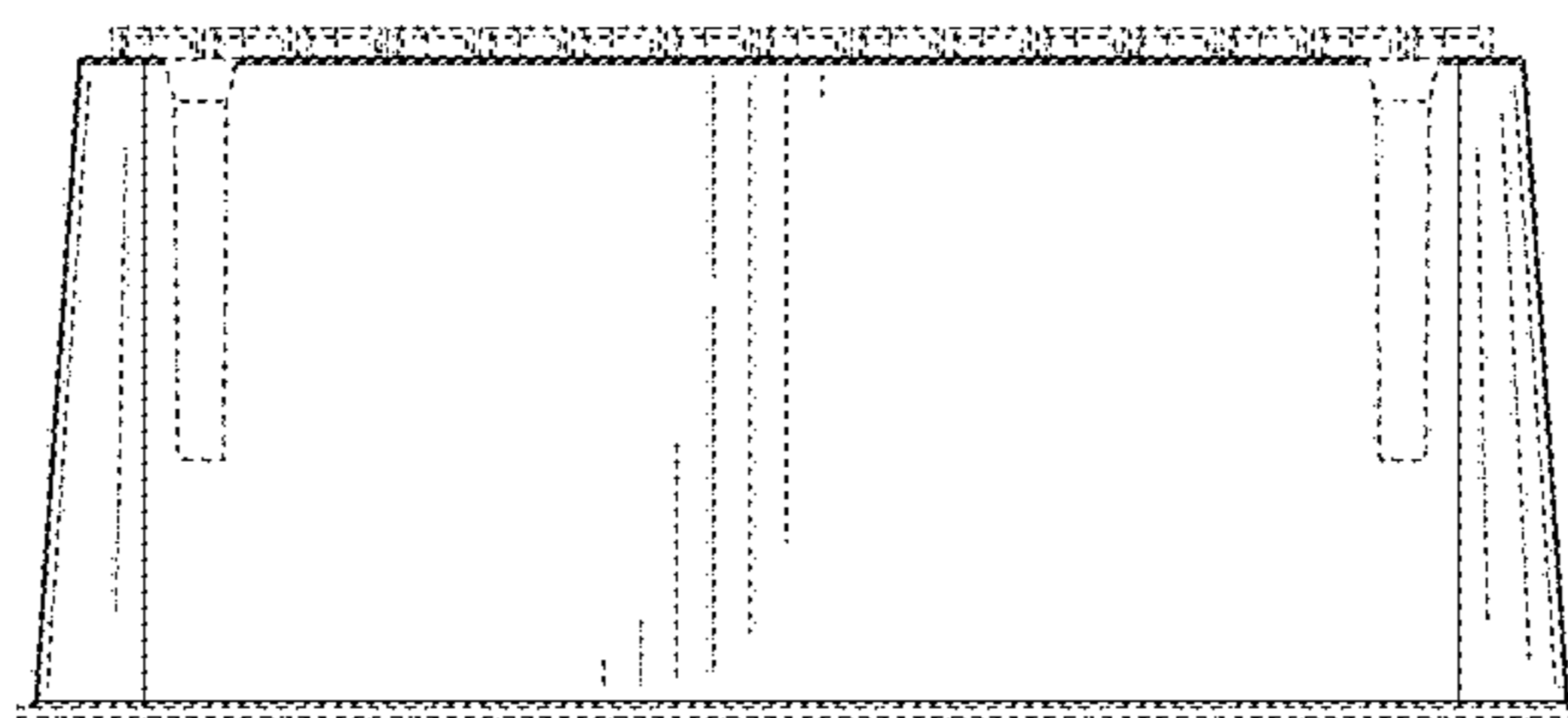


FIG. 5