



US00D853581S

(12) **United States Design Patent** (10) **Patent No.:** **US D853,581 S**
Bucher et al. (45) **Date of Patent:** **** Jul. 9, 2019**

(54) **RACK FOR ASSAY TIPS AND ASSAY CUPS**

(71) Applicant: **Roche Diagnostics Operations, Inc.**,
Indianapolis, IN (US)

(72) Inventors: **Armin Bucher**, Neuenkirch (CH);
Thomas Guggisberg, Boswil (CH);
Stephan Sattler, Starnberg (DE);
Martin Halter, Oberarth (CH)

(73) Assignee: **Roche Diagnostics Operations, Inc.**,
Indianapolis, IN (US)

(**) Term: **15 Years**

(21) Appl. No.: **29/567,591**

(22) Filed: **Jun. 10, 2016**

Related U.S. Application Data

(63) Continuation of application No. 14/872,471, filed on
Oct. 1, 2015.

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

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

(58) **Field of Classification Search**
USPC D24/224-230, 216, 217, 232; 422/569,
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
9/065; B01L 9/543
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)

Primary Examiner — Susan Bennett Hattan

Assistant Examiner — Rebecca Tsehaye

(74) *Attorney, Agent, or Firm* — Dinsmore & Shohl, LLP

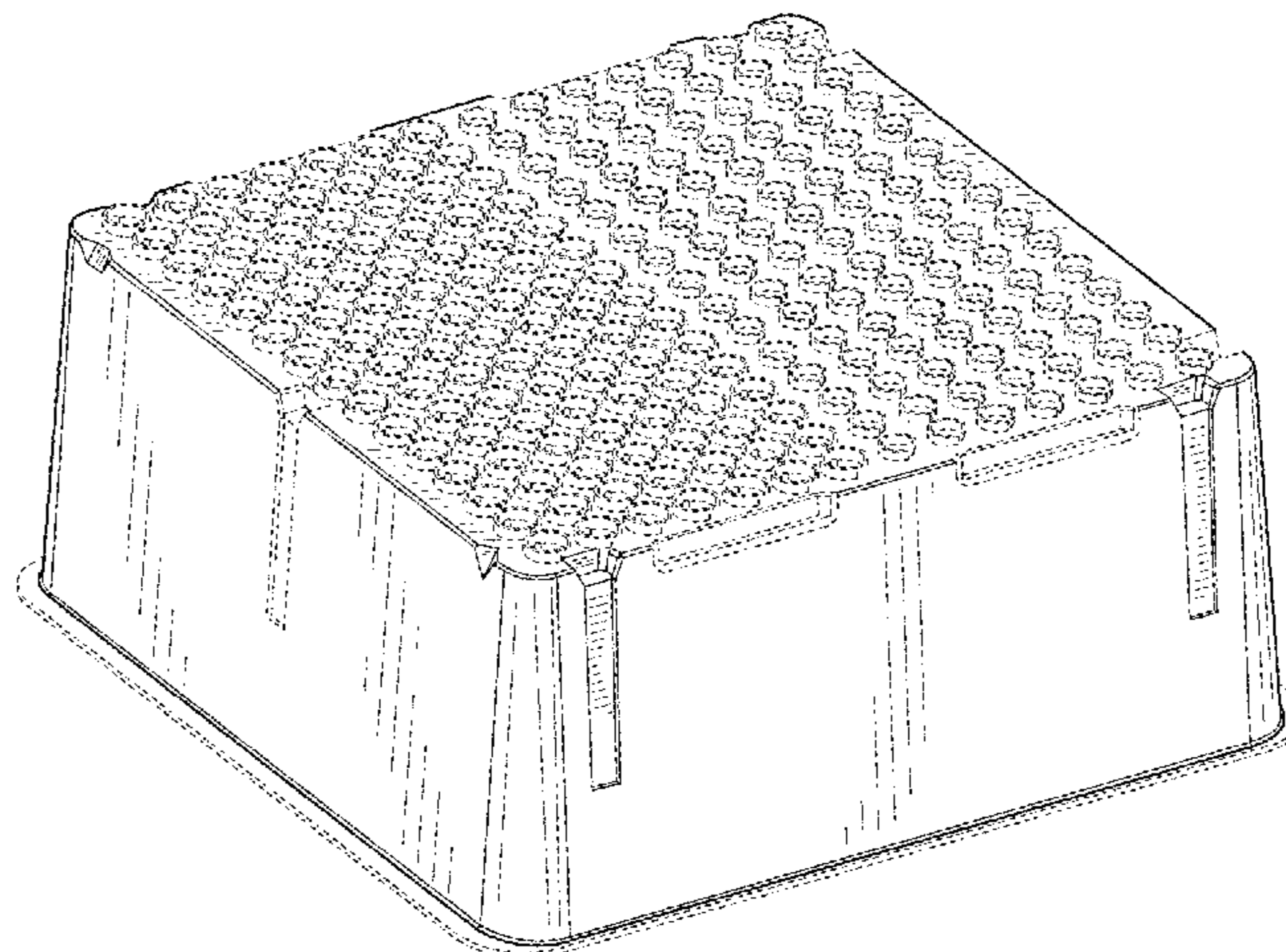
(57) **CLAIM**

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

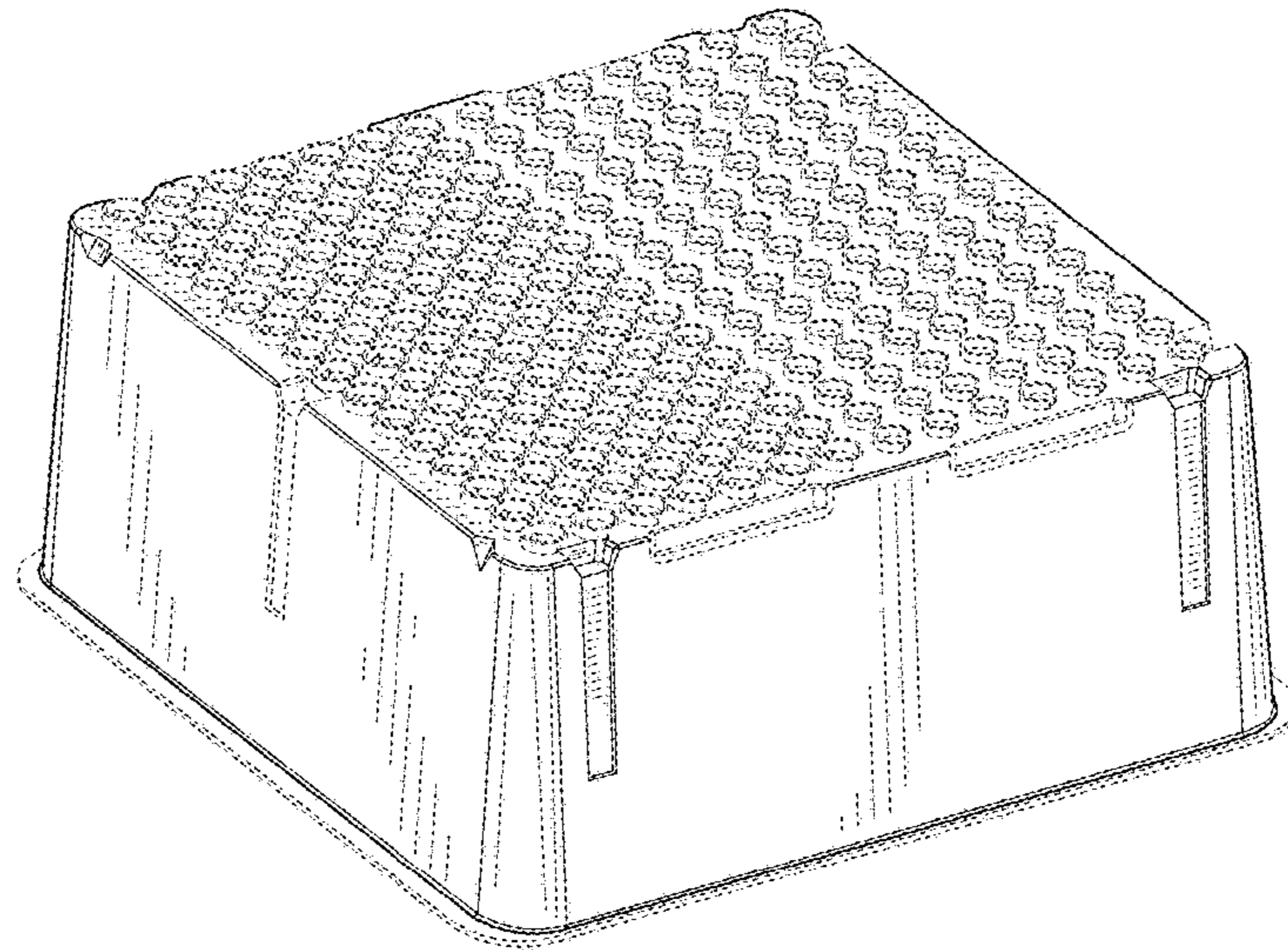


FIG. 1

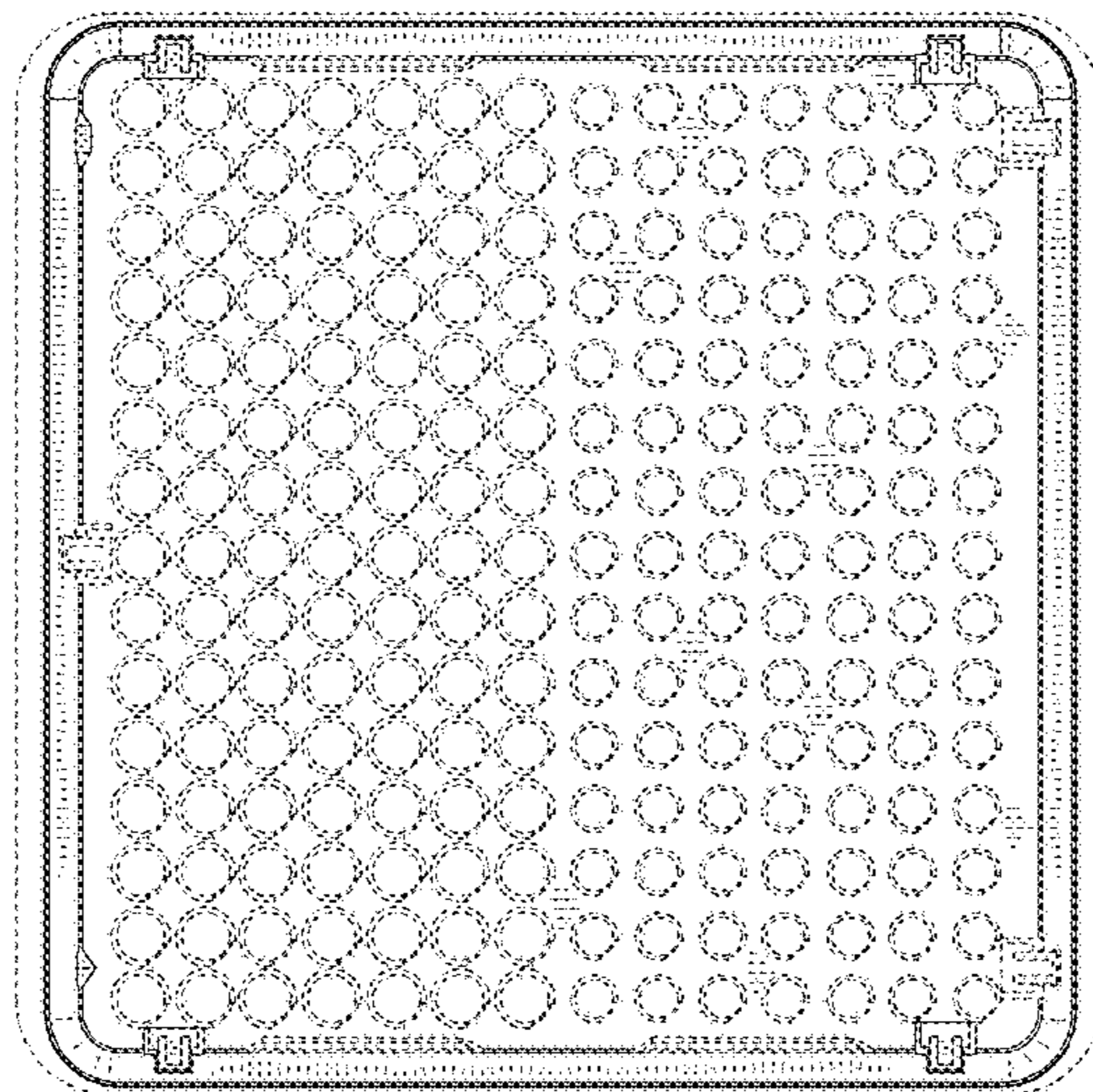


FIG. 2

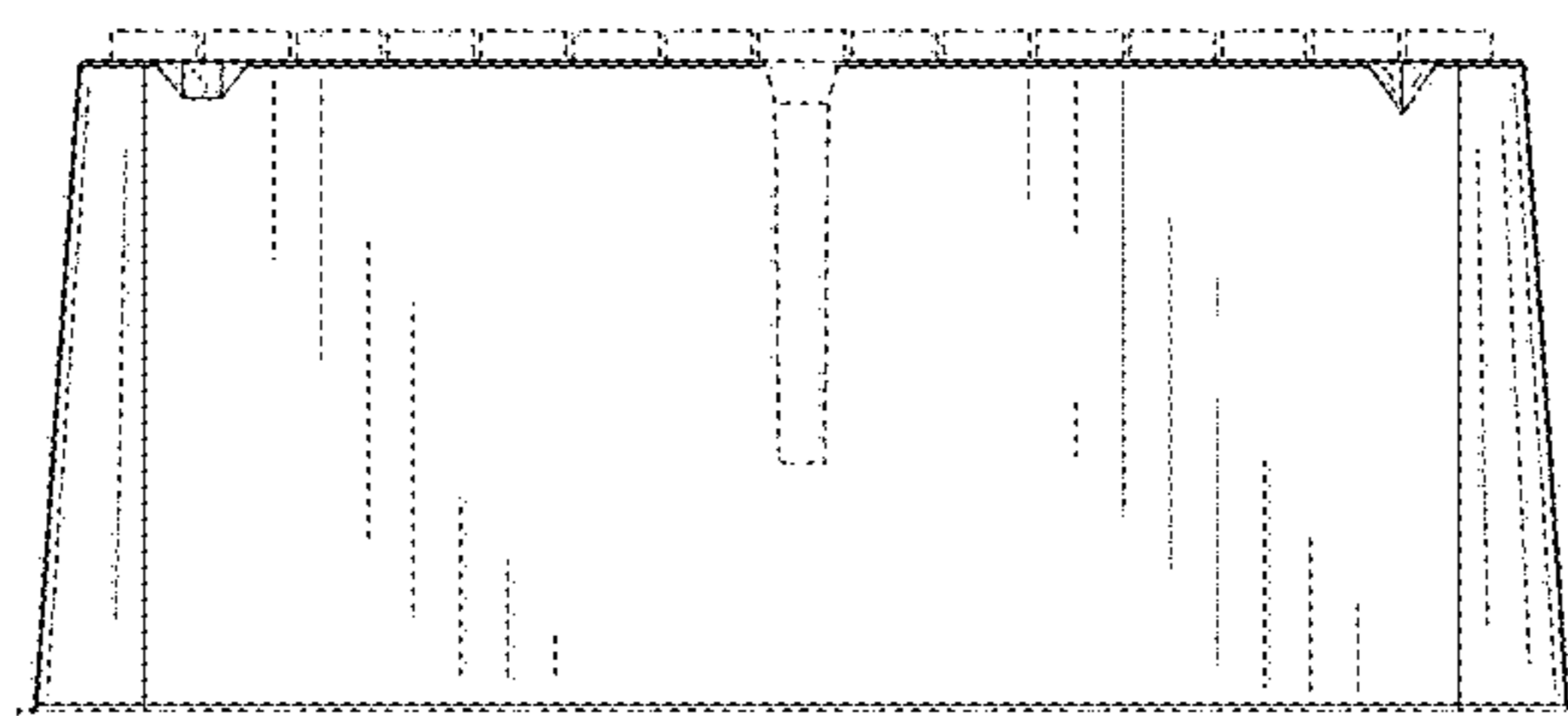


FIG. 3

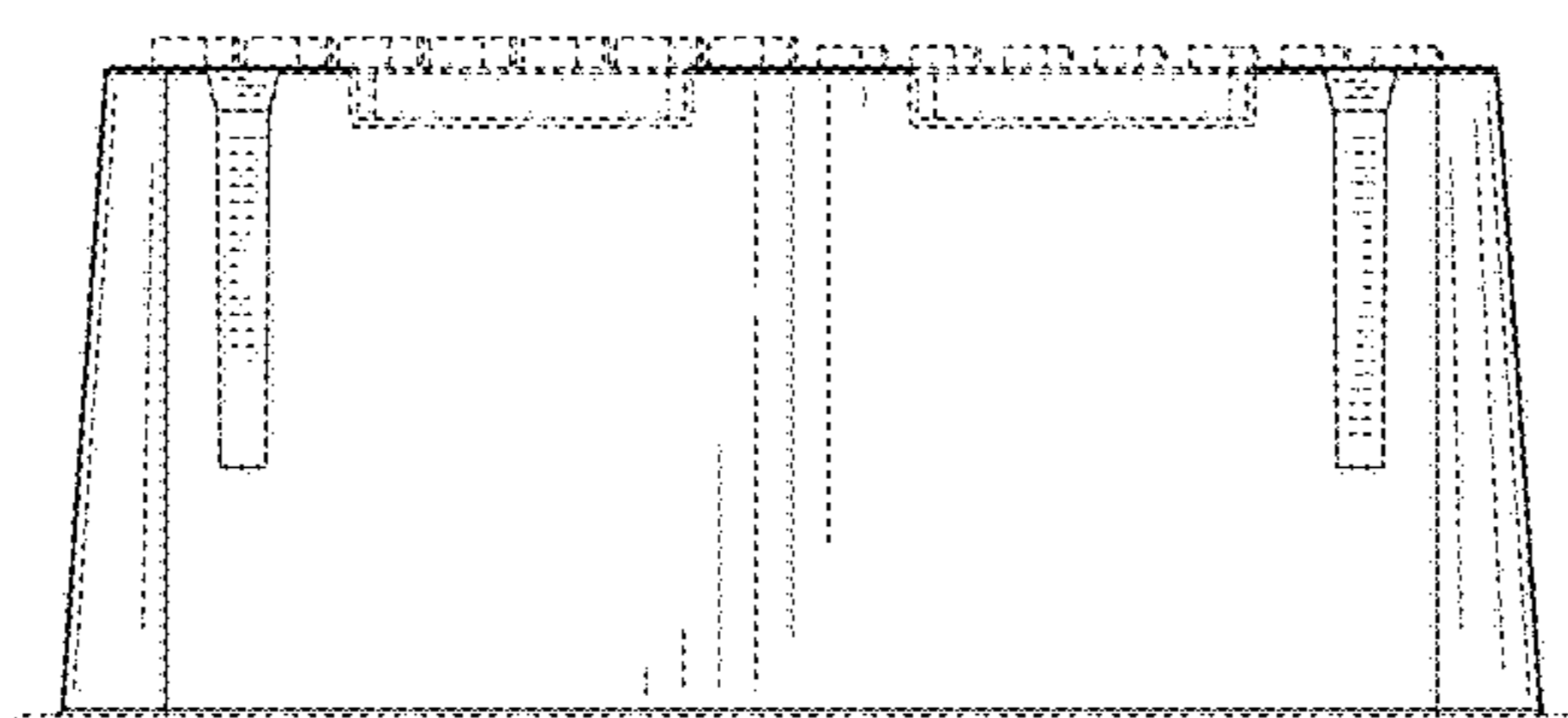


FIG. 4

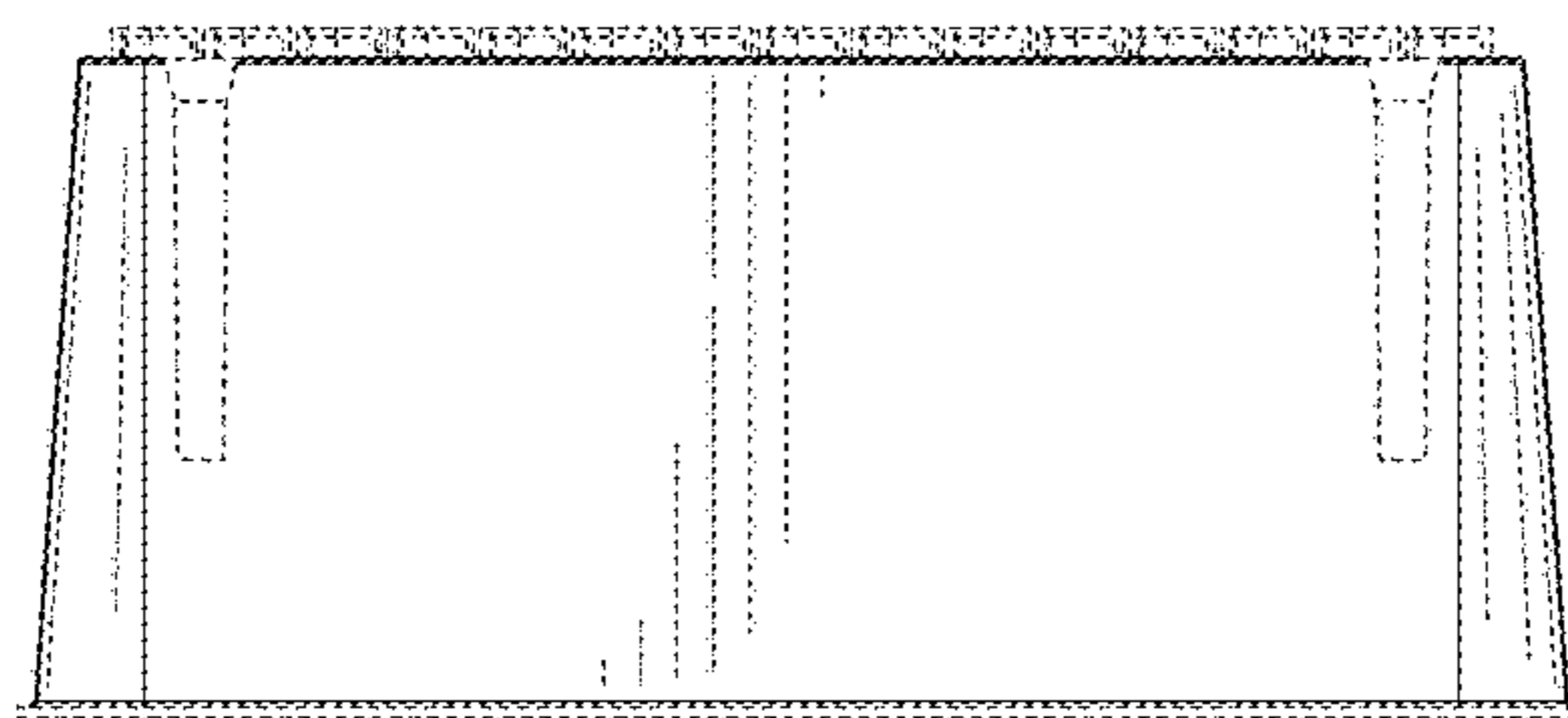


FIG. 5