



US00D812114S

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

(10) **Patent No.:** **US D812,114 S**
(45) **Date of Patent:** **** Mar. 6, 2018**

(54) **SQUEEZE PLATE WITH MOLDING SAND INLET PART FOR FLASK-LESS MOLDING MACHINE**

Primary Examiner — Ian Simmons
Assistant Examiner — Khawaja Anwar
(74) *Attorney, Agent, or Firm* — Leydig Voit & Mayer

(71) Applicant: **SINTOKOGIO, LTD.**, Nagoya-shi, Aichi (JP)

(72) Inventors: **Koichi Sakaguchi**, Toyokawa (JP); **Katsuhito Sato**, Toyokawa (JP)

(73) Assignee: **SINTOKOGIO, LTD.**, Nagoya-shi, Aichi (JP)

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

(21) Appl. No.: **29/583,630**

(22) Filed: **Nov. 8, 2016**

(30) **Foreign Application Priority Data**

May 17, 2016 (JP) 2016-010430

(51) **LOC (11) Cl.** **15-03**

(52) **U.S. Cl.**
USPC **D15/135**

(58) **Field of Classification Search**
USPC D15/122, 135, 136, 137, 138, 141, 142, D15/199; D12/1, 2, 8; D8/313;
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D332,955 S 2/1993 Hull
D371,444 S * 7/1996 Madjar D24/217
(Continued)

FOREIGN PATENT DOCUMENTS

CN 201692710 U 1/2011
CN 201791089 U 4/2011
TW 151847 2/2013

OTHER PUBLICATIONS

Taiwan Patent Office, Notice of Allowance in Taiwan Counterpart Application No. 105306741, dated Jun. 15, 2017.

(Continued)

(57) **CLAIM**

The ornamental design for a squeeze plate with molding sand inlet part for flask-less molding machine, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a squeeze plate with molding sand inlet part for flask-less molding machine of the present invention.

FIG. 2 is a rear perspective view of a squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 1.

FIG. 3 is a front view of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 1.

FIG. 4 is a rear view of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 1.

FIG. 5 is a top plan view of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 1.

FIG. 6 is a bottom view of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 1.

FIG. 7 is a right side view of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 1.

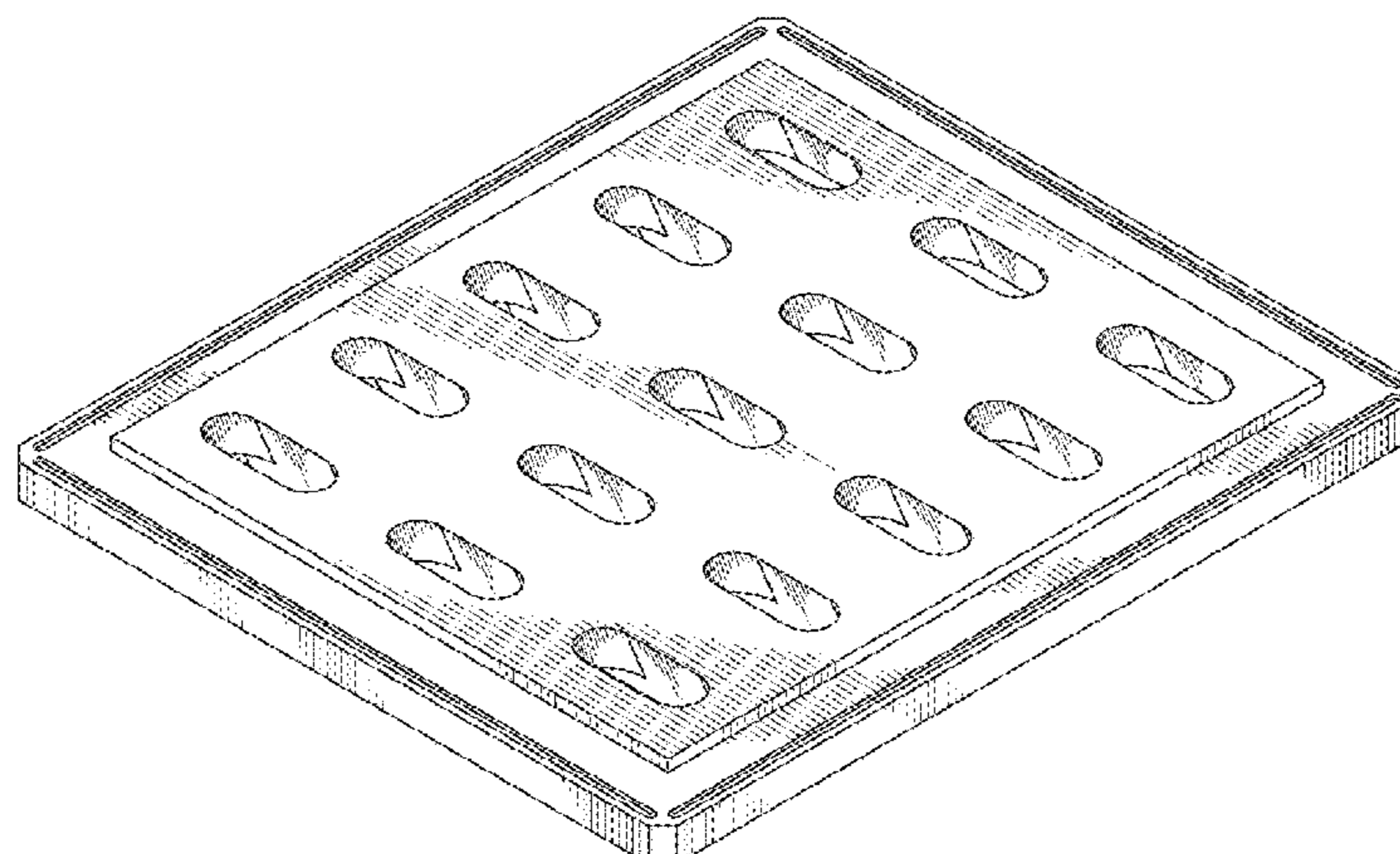
FIG. 8 is a left side view of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 1.

FIG. 9 is a sectional view taken along the line 9-9 of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 3.

FIG. 10 is a sectional view taken along the line 10-10 of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 3; and,

FIG. 11 is a reference perspective view of the squeeze plate with molding sand inlet part for flask-less molding machine of FIG. 1 in use, wherein molding sand introducing nozzles and closure plates are attached to the squeeze plate, which is for illustrative purpose only and form no part of the claimed design.

(Continued)



The features shown in broken lines depict environmental subject matter only and form no part of the claimed design.

1 Claim, 11 Drawing Sheets

(58) Field of Classification Search

USPC D7/339–341, 348–349, 402–404;
 D9/456, 434, 499; D24/227, 229, 230
 CPC B29C 45/0001; B29C 2043/3427; B29C
 2043/3494; B29C 2045/0006; B29C
 2045/0043; B29C 2045/0049; B29C
 2045/14803; B29C 2945/76444; B29C
 43/24; B29C 45/0005; B29C 45/0025;
 B29C 45/006; B29C 45/14311; B29C
 45/14778; B29C 45/14811; B29C
 45/14819; B29C 45/1657; B29C 45/1671;
 B29C 45/1761; B29C 45/2708; B29C
 45/40; B29C 45/401; B29C 45/42; B29C
 45/84; B29C 47/0004; B29C 47/0021

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D373,226 S 8/1996 Bloom et al.
 D392,743 S * 3/1998 Stoufer D24/230
 D520,567 S 5/2006 Iannello et al.

D533,948 S * 12/2006 Schaub D24/229
 D547,336 S 7/2007 Kai
 D617,356 S 6/2010 Wang
 D620,605 S * 7/2010 Reitze D24/227
 D654,186 S * 2/2012 Park D24/227
 D655,608 S * 3/2012 Taljaard D9/456
 D656,821 S * 4/2012 Marcoux D9/456
 D665,682 S 8/2012 Nagai
 D665,683 S 8/2012 Nagai
 D690,331 S 9/2013 Kitamura
 D707,273 S 6/2014 Maringer
 D710,912 S 8/2014 Wehmeier
 D725,163 S * 3/2015 Ackley D15/138
 D752,437 S * 3/2016 Heintzelman D24/227
 D754,226 S 4/2016 Caylor et al.
 D761,654 S * 7/2016 Puig D9/456
 D768,216 S * 10/2016 Funakoshi D15/135
 D768,741 S * 10/2016 Funakoshi D15/135
 D769,339 S * 10/2016 Funakoshi D15/135
 D786,073 S * 5/2017 Hutcheson, Jr. D22/134
 2008/0303183 A1 12/2008 Rote et al.

OTHER PUBLICATIONS

United States Patent and Trademark Office, Notice of Allowance in U.S. Appl. No. 29/583,631, dated Oct. 5, 2017.
 United States Patent and Trademark Office, Office Action in U.S. Appl. No. 29/583,632, dated Nov. 29, 2017.
 United States Patent and Trademark Office, Office Action in U.S. Appl. No. 29/583,625, dated Dec. 13, 2017.

* cited by examiner

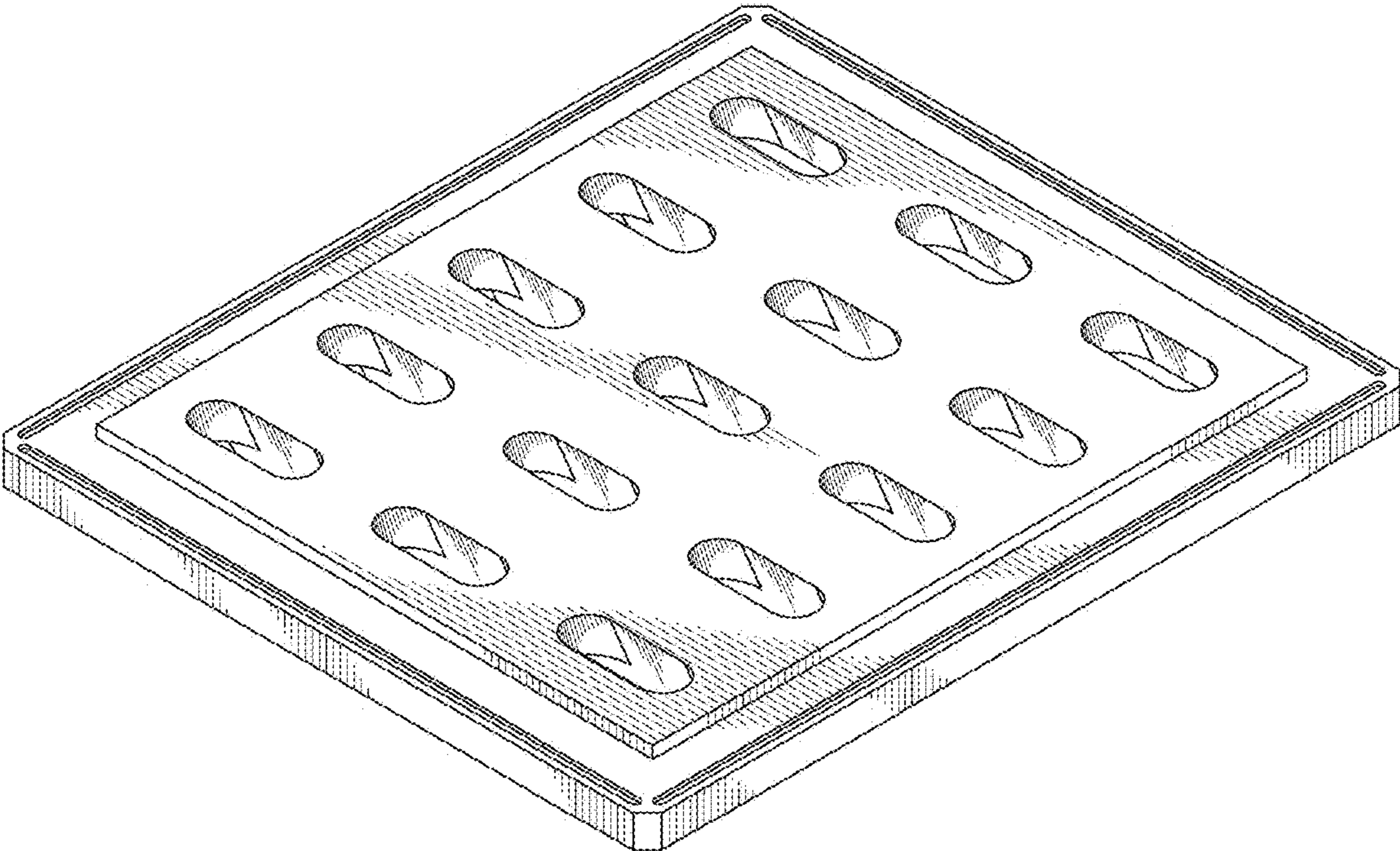


FIG. 1

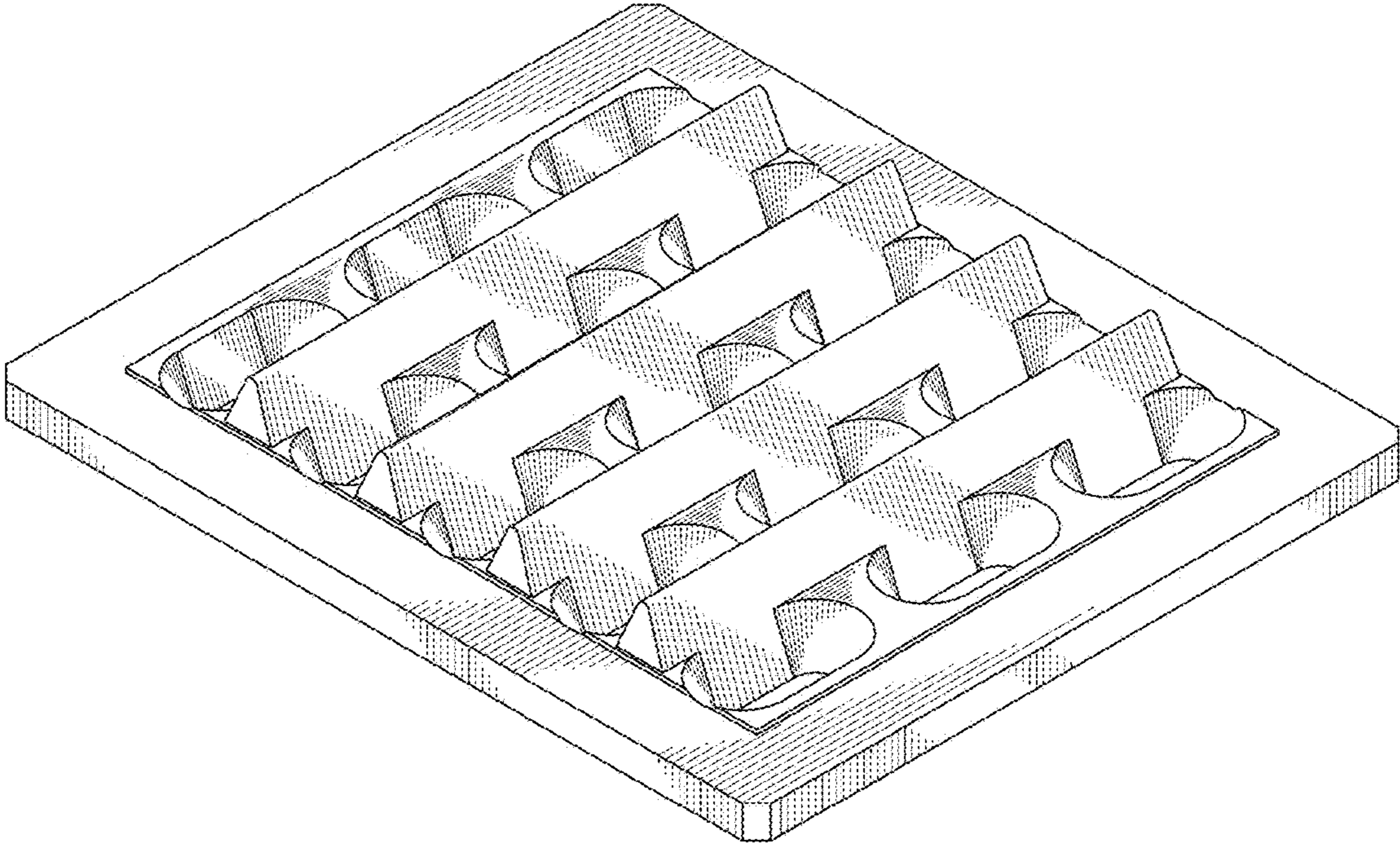


FIG. 2

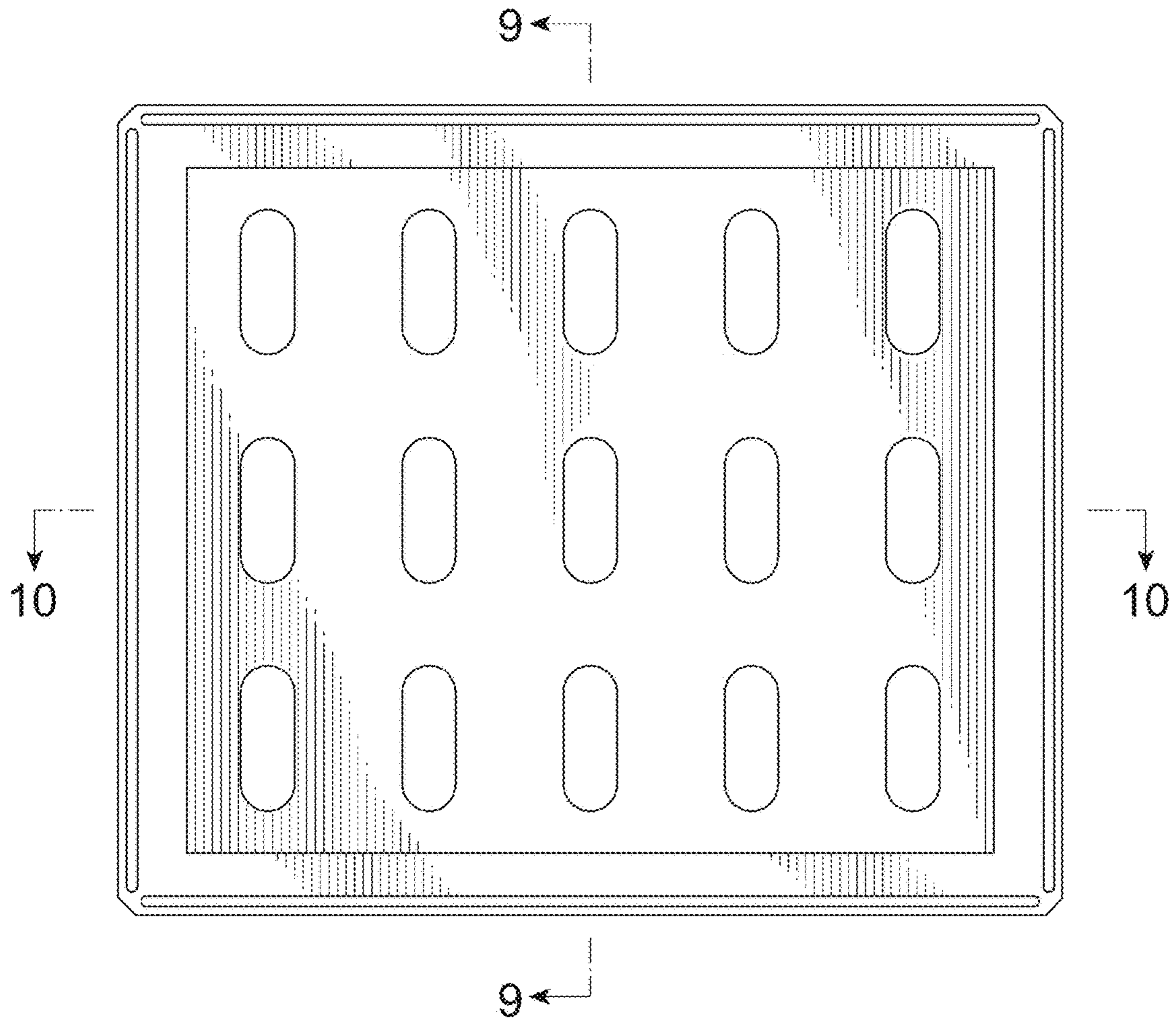


FIG. 3

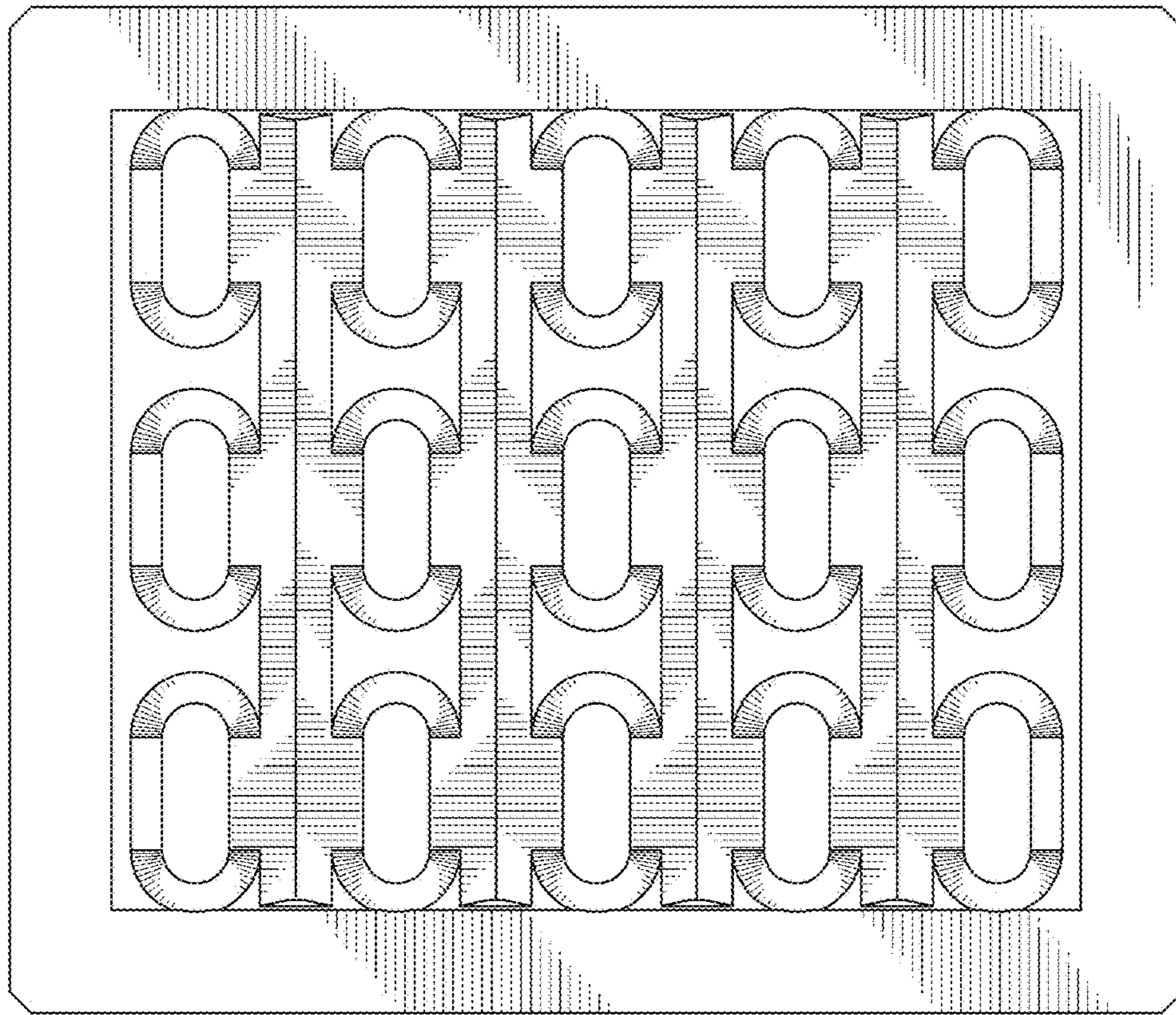


FIG. 4

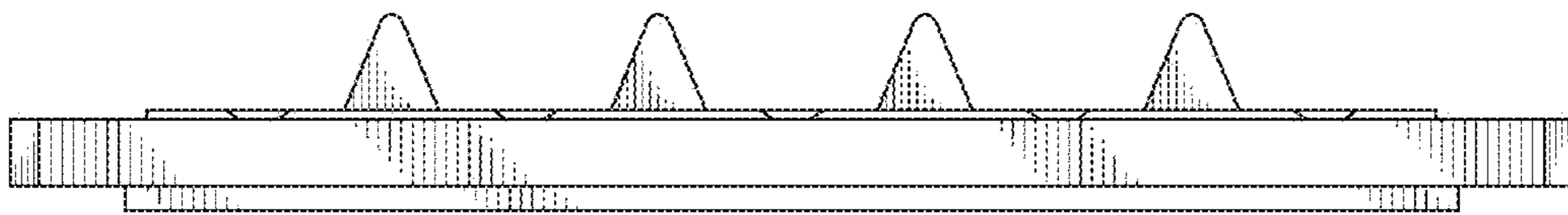


FIG. 5

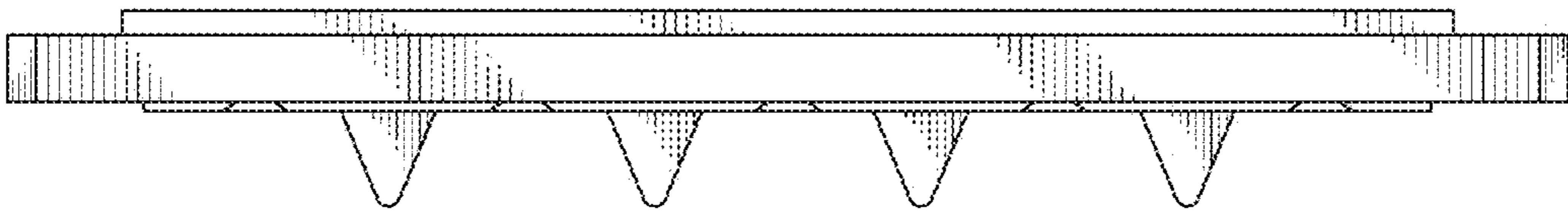


FIG. 6

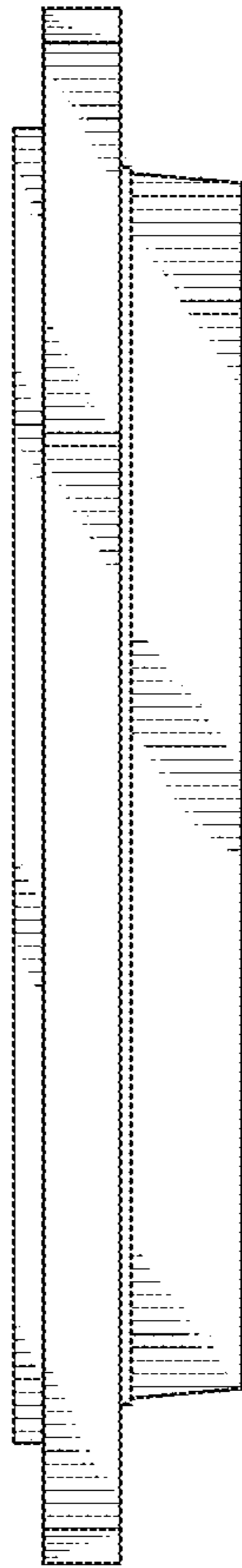


FIG. 7

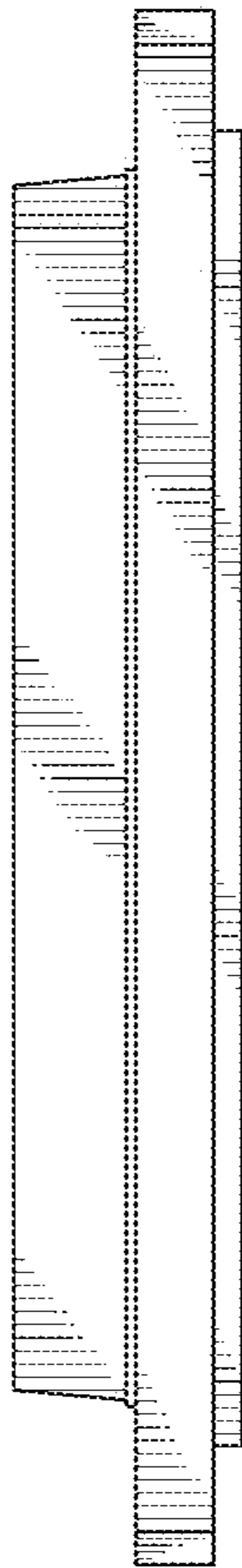


FIG. 8

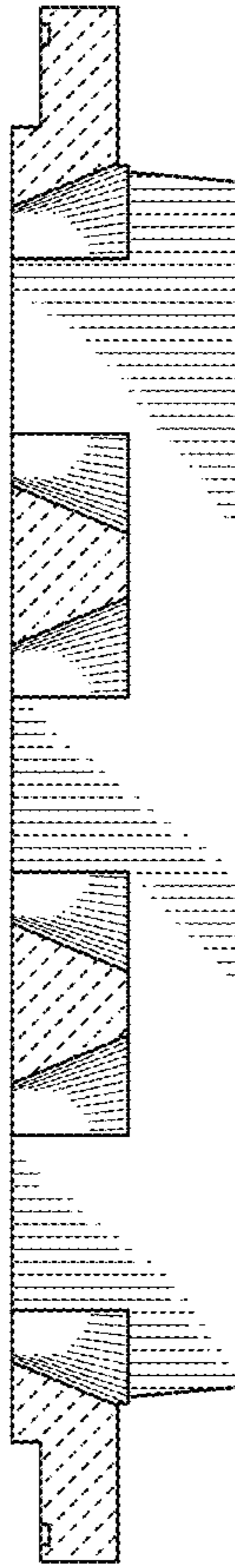


FIG. 9

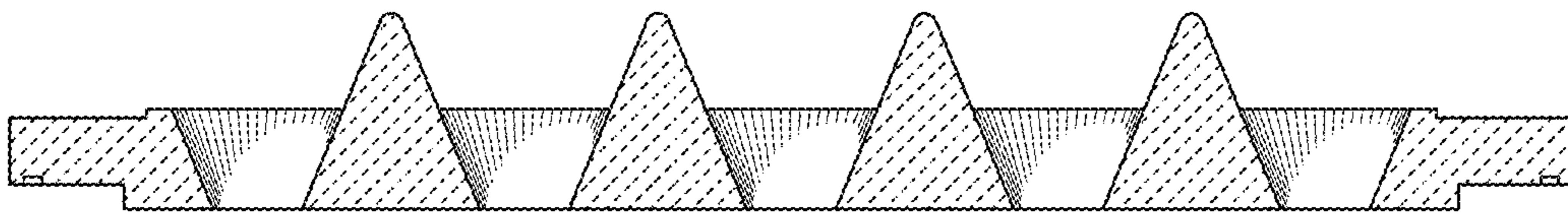


FIG. 10

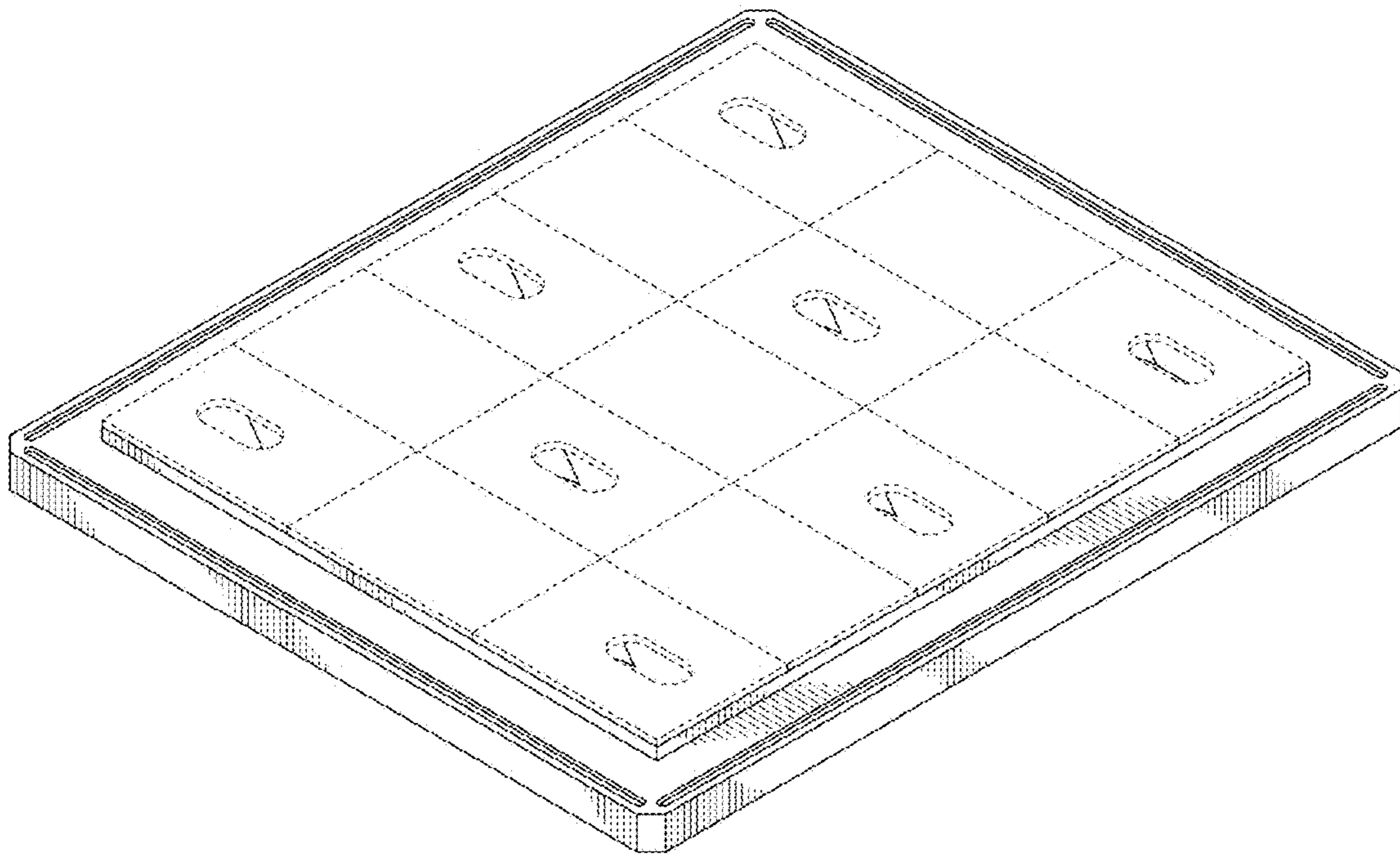


FIG. 11