



US00D742493S

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

(10) **Patent No.:** **US D742,493 S**

(45) **Date of Patent:** **** *Nov. 3, 2015**

(54) **VAPORIZATION DEVICE FOR A
VAPORIZATION UNIT OF A LIQUID
CONTROL APPARATUS**

(71) Applicant: **CKD CORPORATION**, Aichi (JP)

(72) Inventors: **Masayuki Kouketsu**, Tokyo (JP);
Hiroshi Itafuji, Komaki (JP); **Masayo
Okada**, Kasugai (JP)

(73) Assignee: **CKD Corporation**, Aichi (JP)

(*) Notice: This patent is subject to a terminal dis-
claimer.

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

(21) Appl. No.: **29/441,788**

(22) Filed: **Jan. 9, 2013**

(30) **Foreign Application Priority Data**

Jul. 12, 2012 (JP) 2012-016608

(51) **LOC (10) Cl.** **23-04**

(52) **U.S. Cl.**
USPC **D23/360**

(58) **Field of Classification Search**

USPC D23/355, 359, 360, 364, 365, 386, 392,
D23/393, 401; D6/663, 667, 675; D5/1-3

CPC A61L 9/00; A61L 9/02; A61L 9/03;
A61L 9/032; A61L 9/035; A61L 9/037;
A61L 9/04; A61L 9/12; A61L 9/22

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D402,356 S * 12/1998 Hodge D23/365
6,033,453 A * 3/2000 Weddell, III 55/493

(Continued)

Primary Examiner — Sandra Snapp

(74) *Attorney, Agent, or Firm* — Patterson Thuente
Pedersen, P.A.

(57) **CLAIM**

The ornamental design for a vaporization device for a vapor-
ization unit of a liquid control apparatus, as shown and
described.

DESCRIPTION

FIG. 1 is a perspective view of a vaporization device for a
vaporization unit of a liquid control apparatus showing our
new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a top plan view thereof;

FIG. 5 is a cross-sectional view taken along line 5-5 in FIG. 2;

FIG. 6 is an enlarged view of the portion indicated by line 6-6
in FIG. 2;

FIG. 7 is an enlarged view of the portion indicated by line 7-7
in FIG. 2;

FIG. 8 is an enlarged view of the portion indicated by line 8-8
in FIG. 3;

FIG. 9 is an enlarged view of the portion indicated by line 9-9
in FIG. 3;

FIG. 10 is an enlarged view of the portion indicated by line
10-10 in FIG. 6;

FIG. 11 is an enlarged view of the portion indicated by line
11-11 in FIG. 6;

FIG. 12 is an enlarged view of the portion indicated by line
12-12 in FIG. 7;

FIG. 13 is an enlarged view of the portion indicated by line
13-13 in FIG. 7;

FIG. 14 is an enlarged view of the portion indicated by line
14-14 in FIG. 8;

FIG. 15 is an enlarged view of the portion indicated by line
15-15 in FIG. 8;

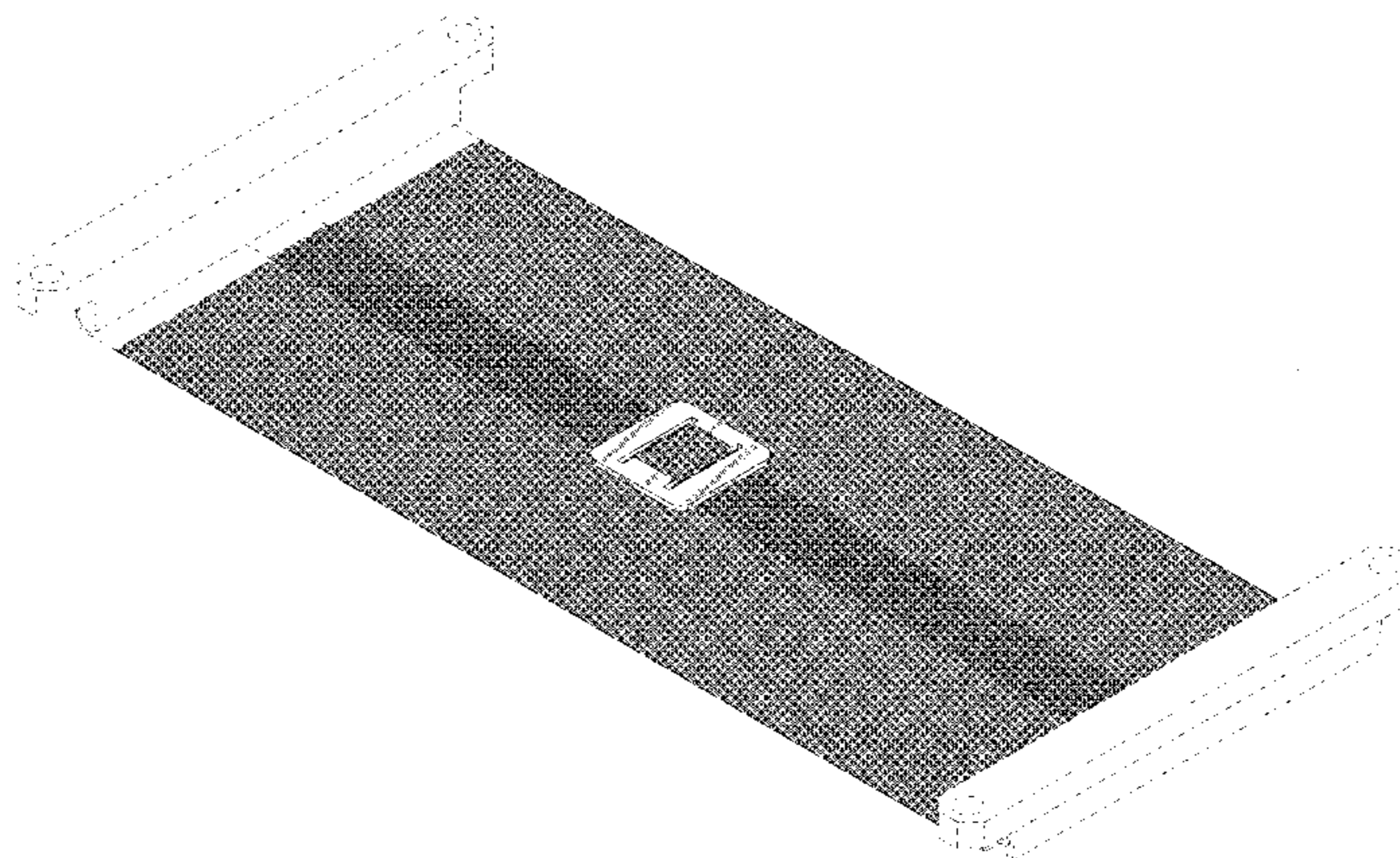
FIG. 16 is an enlarged view of the portion indicated by line
16-16 in FIG. 9;

FIG. 17 is an enlarged view of the portion indicated by line
17-17 in FIG. 9; and,

FIG. 18 is a referential view depicting the article with sur-
rounding environmental structure.

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

1 Claim, 18 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,328,778 B1 * 12/2001 Richerson et al. 55/475
6,740,137 B2 * 5/2004 Kubokawa et al. 55/521
7,169,202 B2 * 1/2007 Kubokawa 55/495
D616,960 S * 6/2010 Konkey D23/209

D675,178 S * 1/2013 Kim D14/138 G
D676,120 S * 2/2013 Komori et al. D23/365
D676,121 S * 2/2013 Komori et al. D23/365
D679,792 S * 4/2013 Hollingsworth D23/365
D705,411 S * 5/2014 Enstrom et al. D23/365
D708,729 S * 7/2014 Platt D23/365
2008/0276805 A1 * 11/2008 Lotgerink-Bruinenberg 96/75

* cited by examiner

FIG. 1

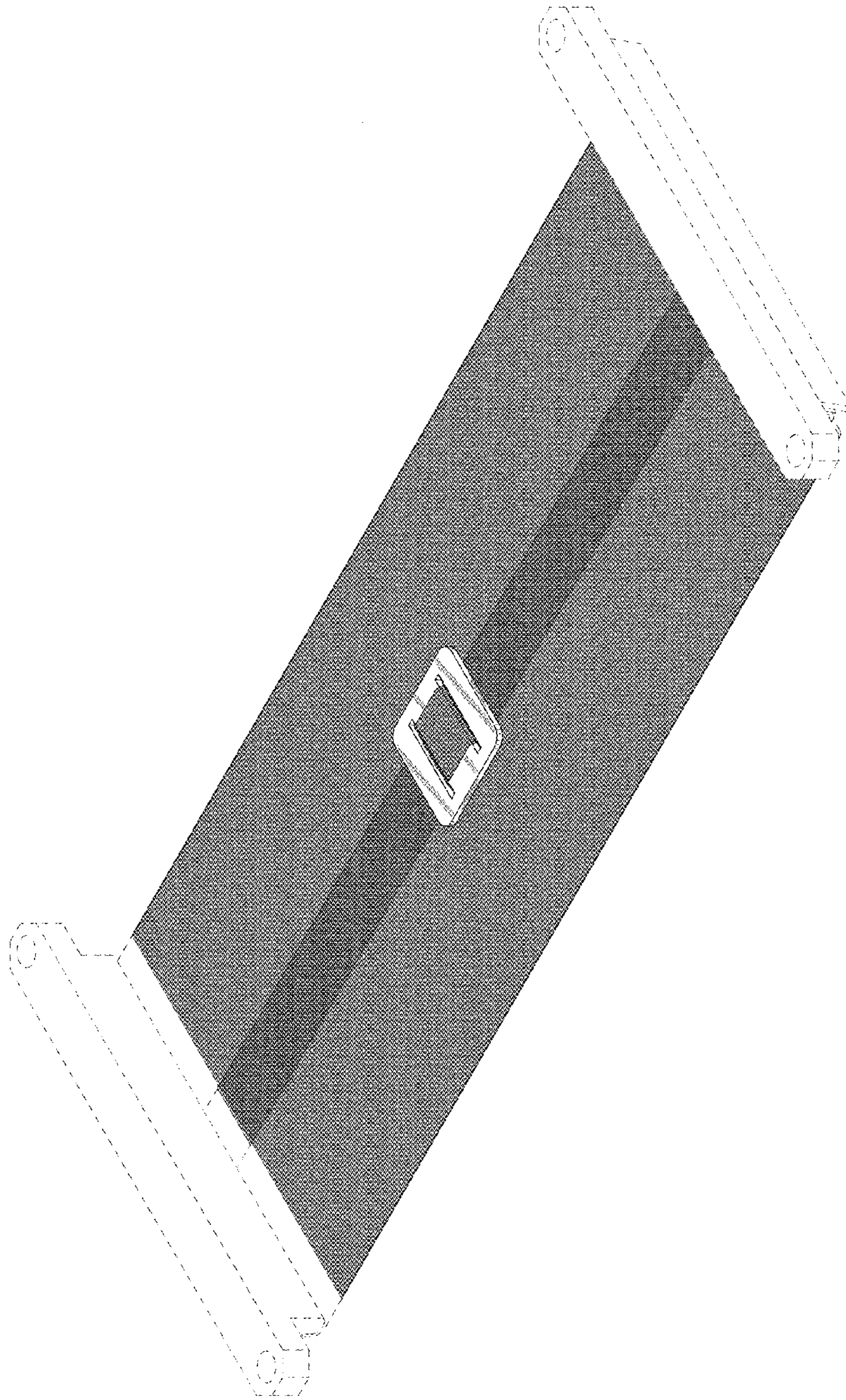


FIG. 2

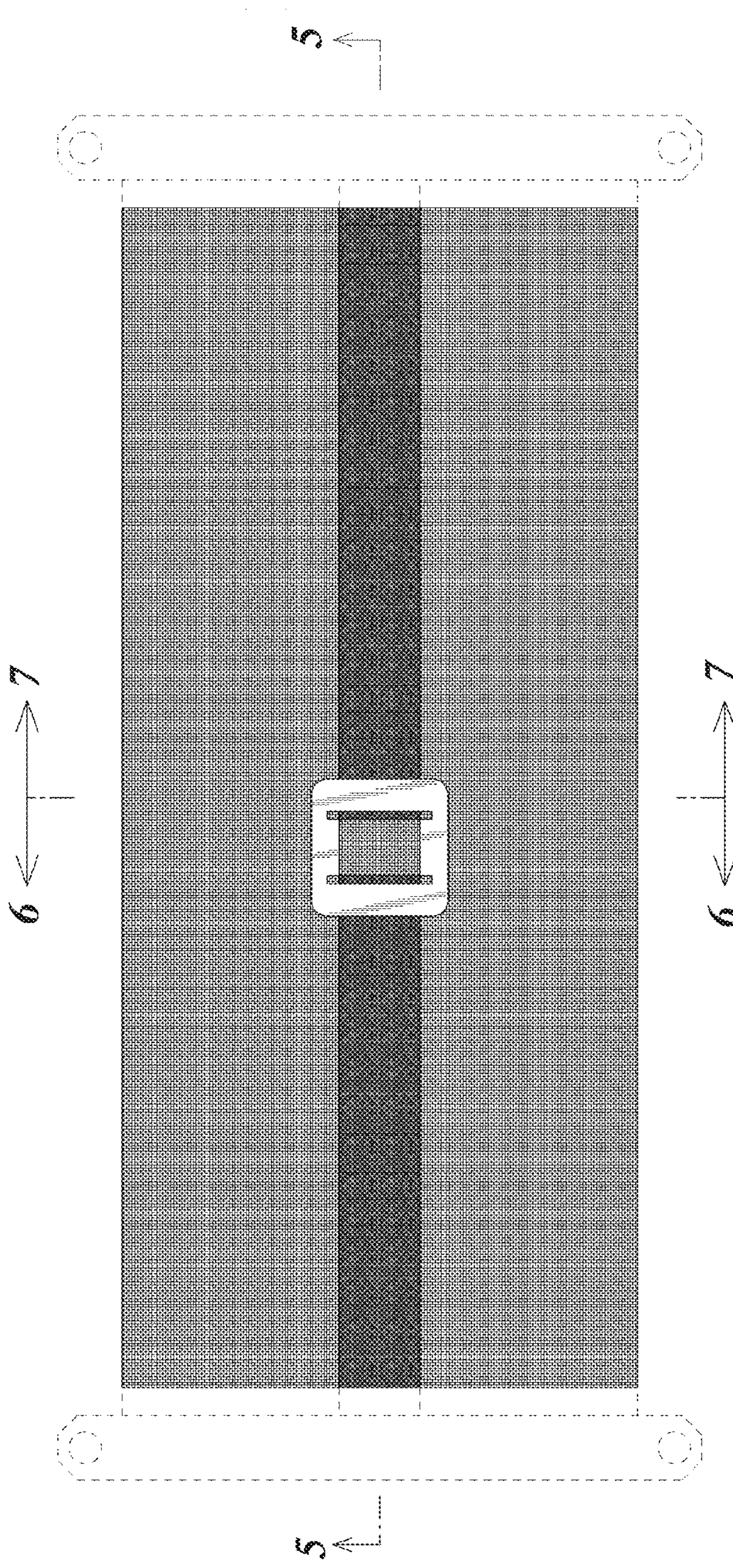


FIG. 3

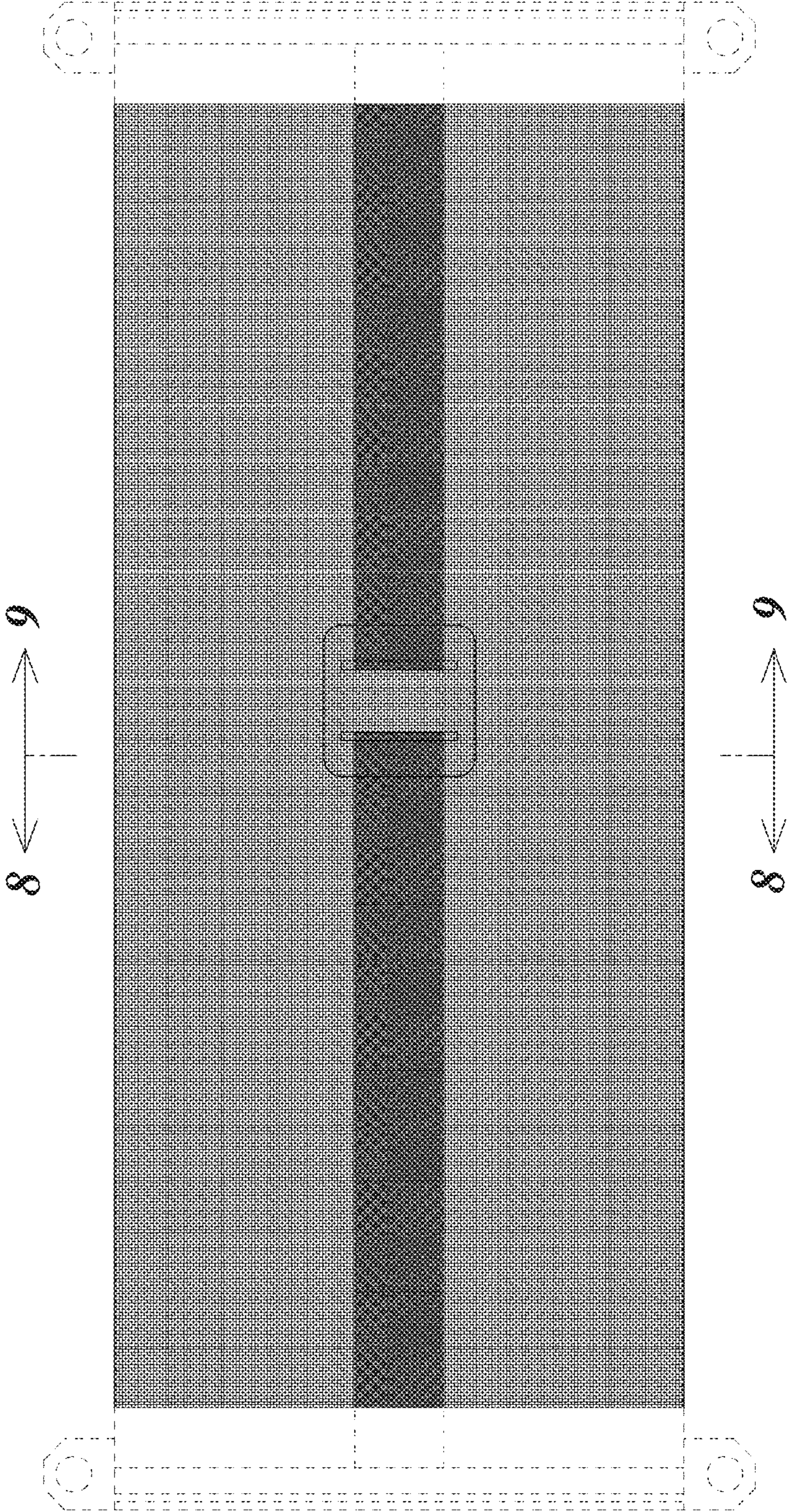


FIG. 4

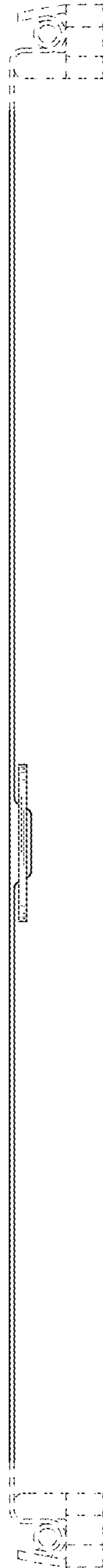


FIG. 5



FIG. 6

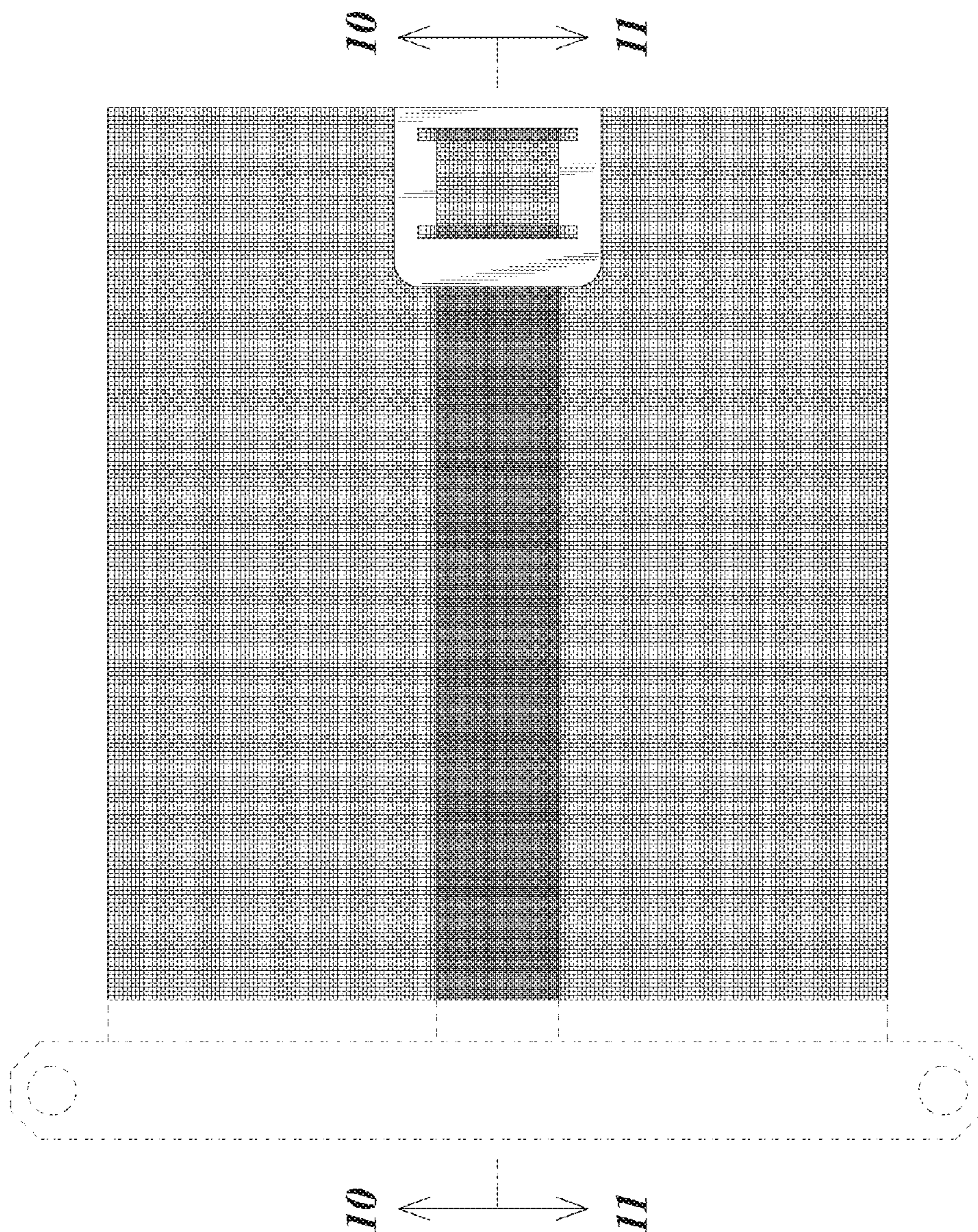


FIG. 7

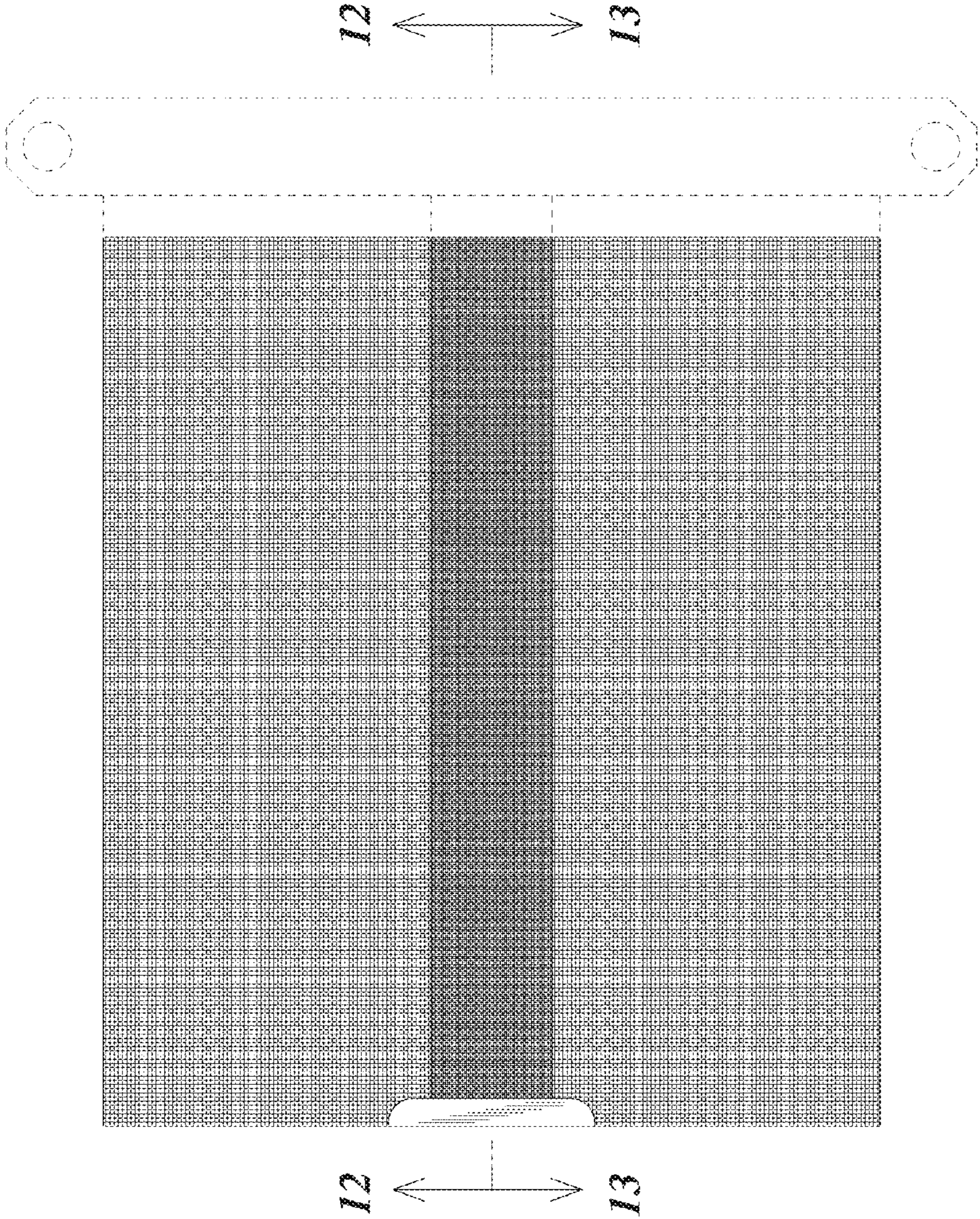


FIG. 8

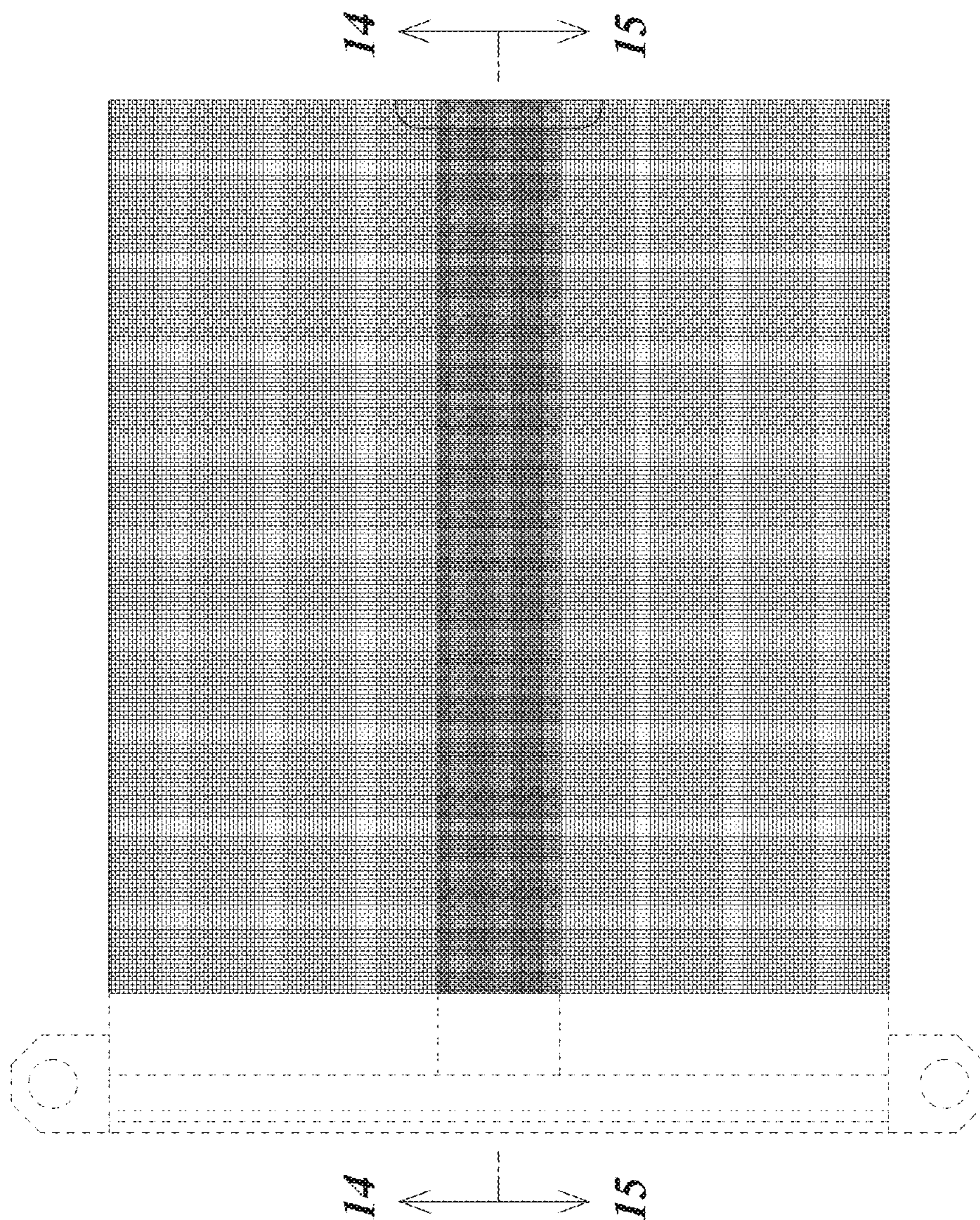


FIG. 9

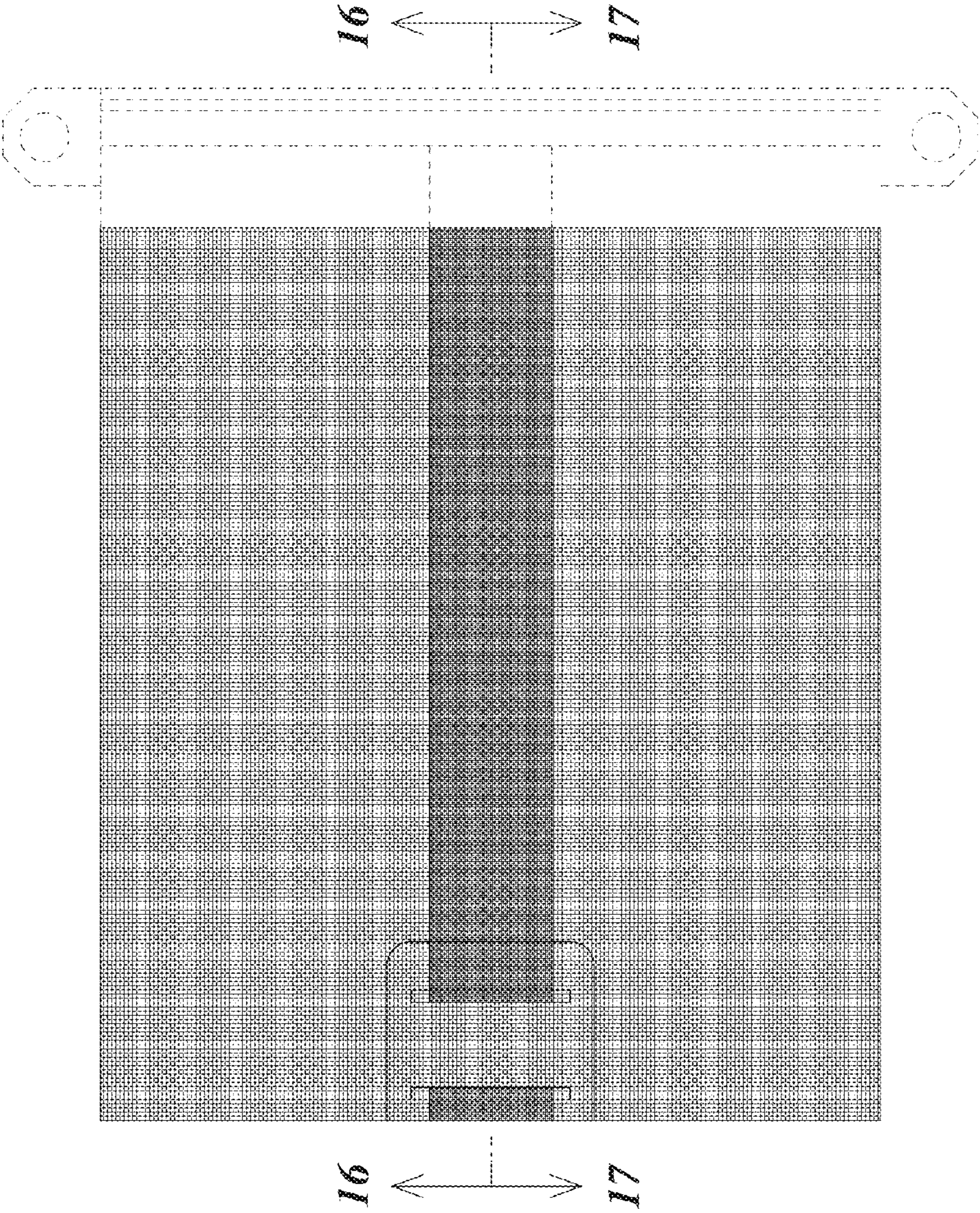


FIG. 10

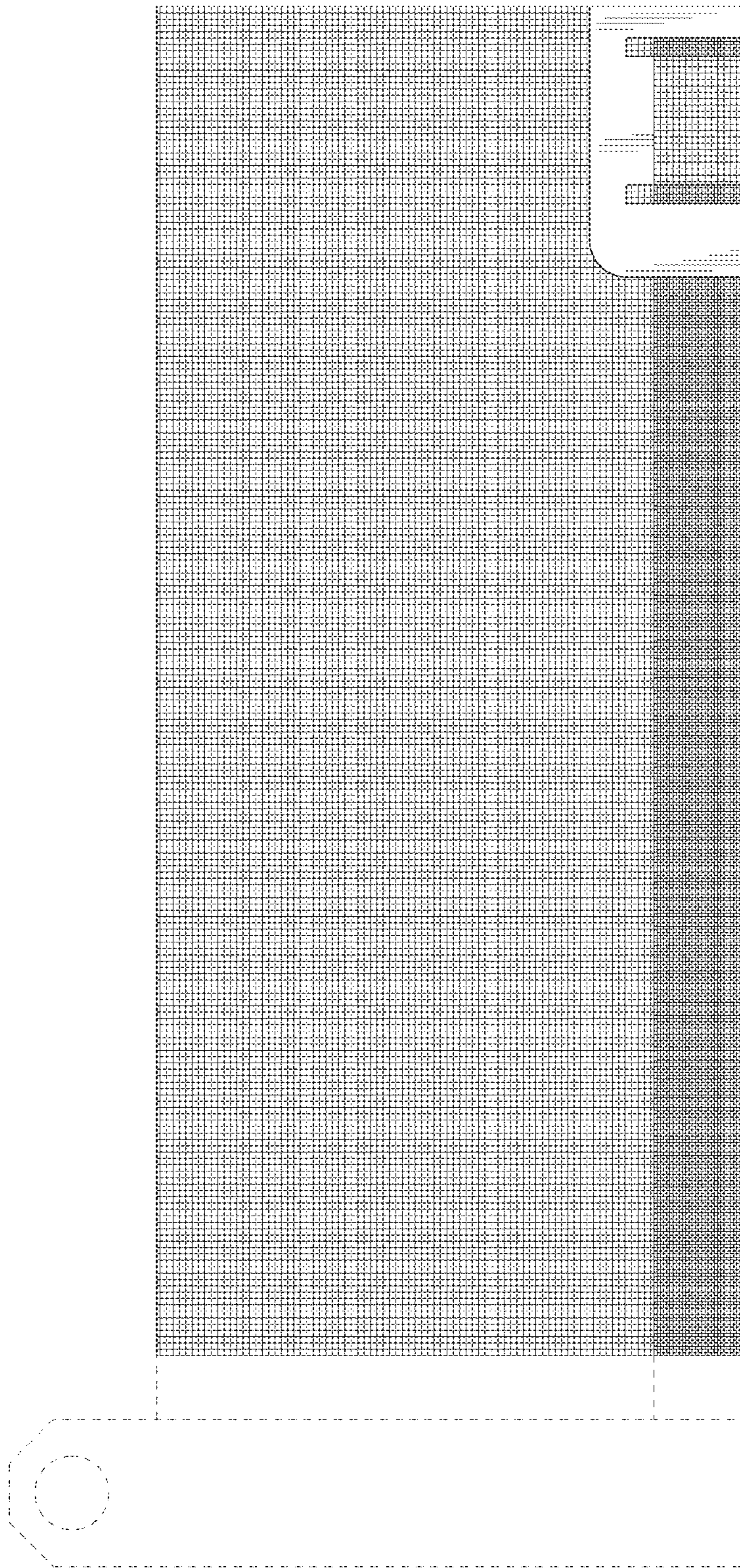


FIG. 11

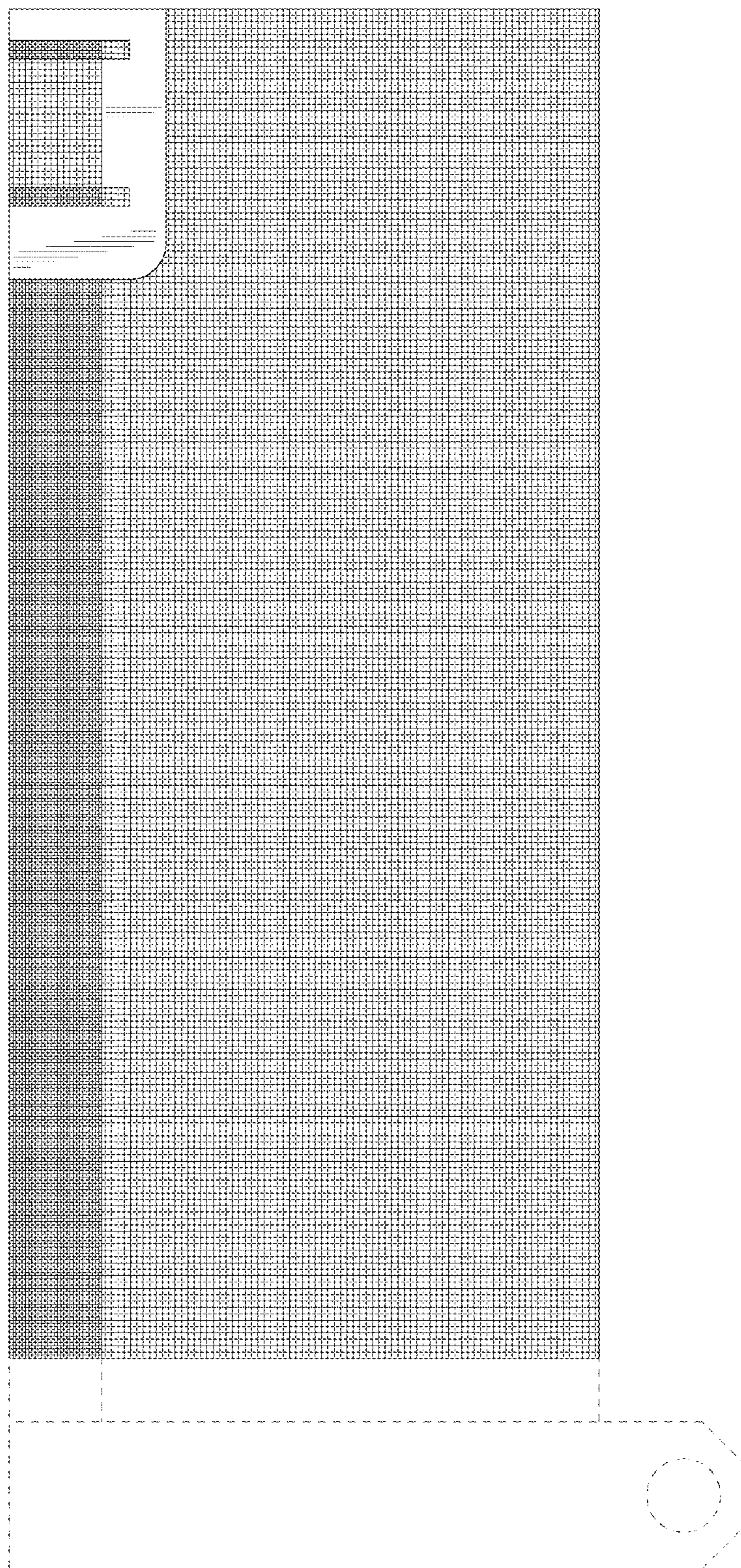


FIG. 12

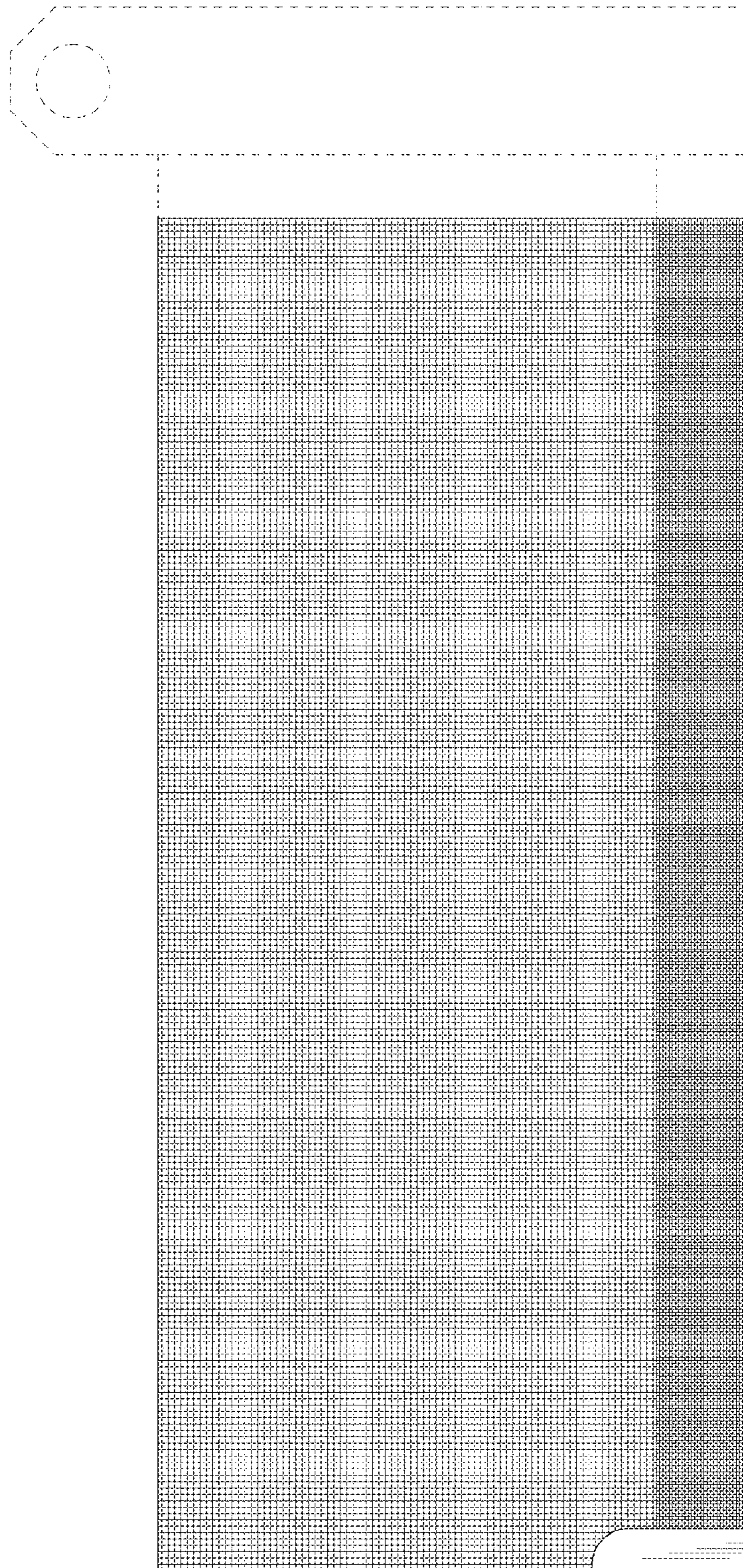


FIG. 13

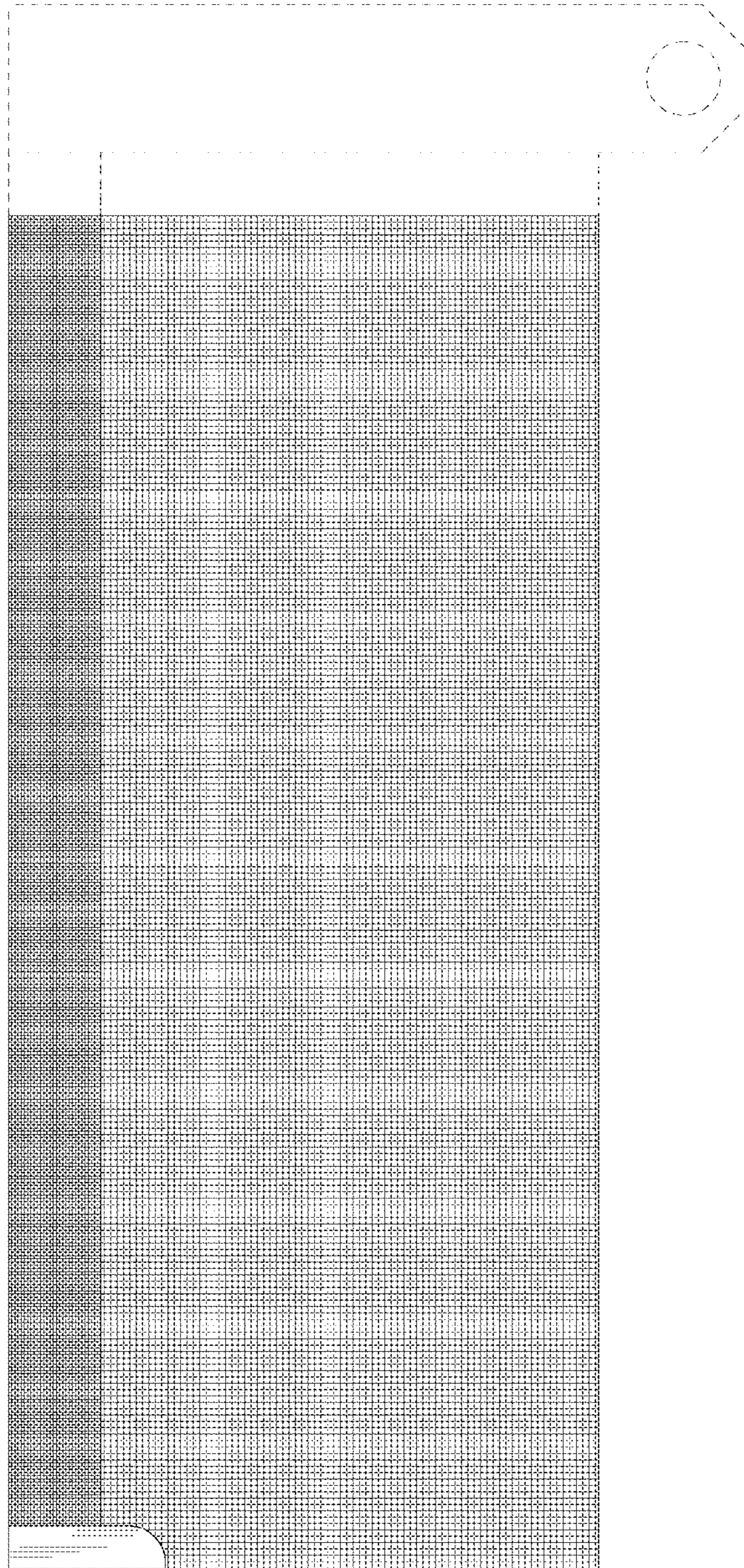


FIG. 14

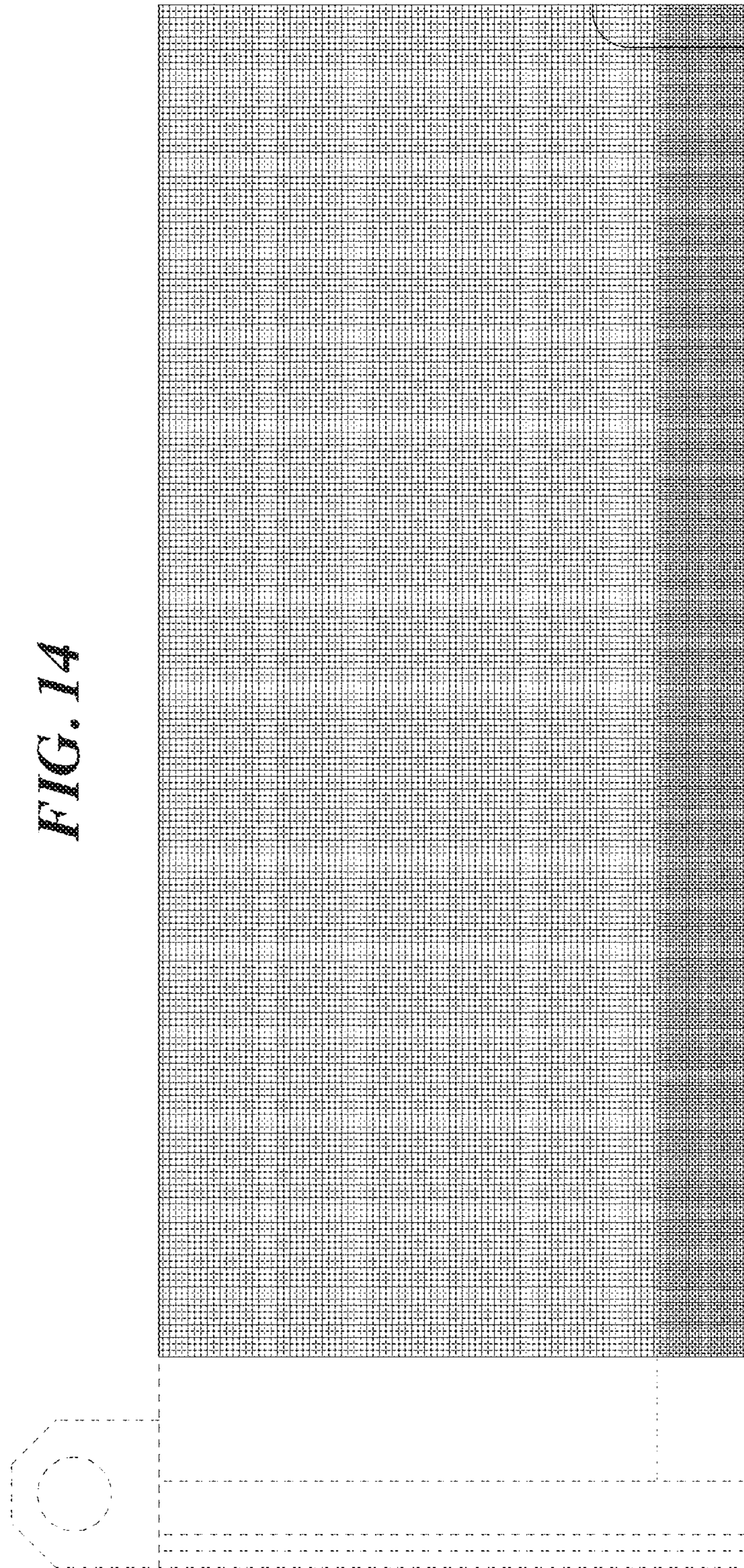


FIG. 15

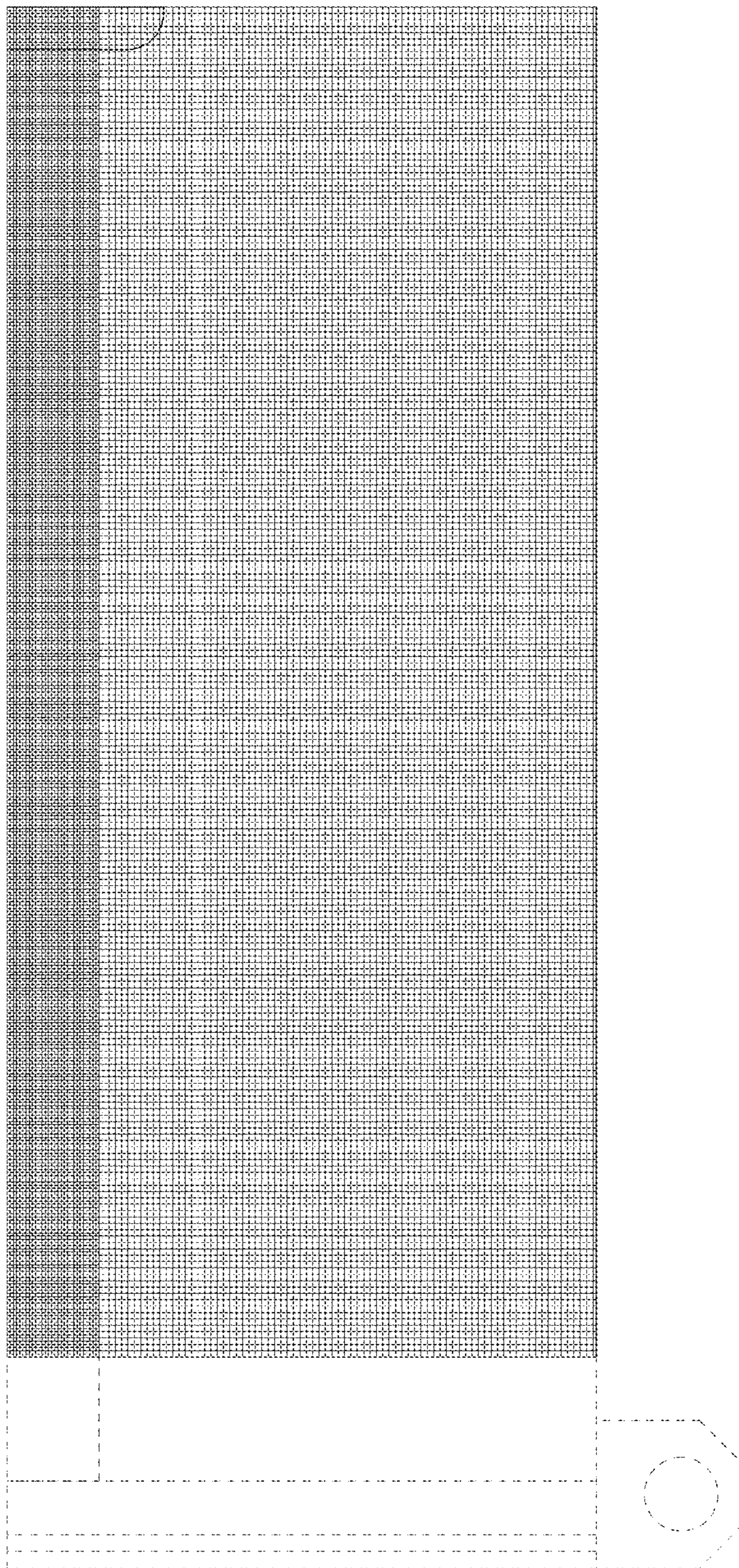


FIG. 16

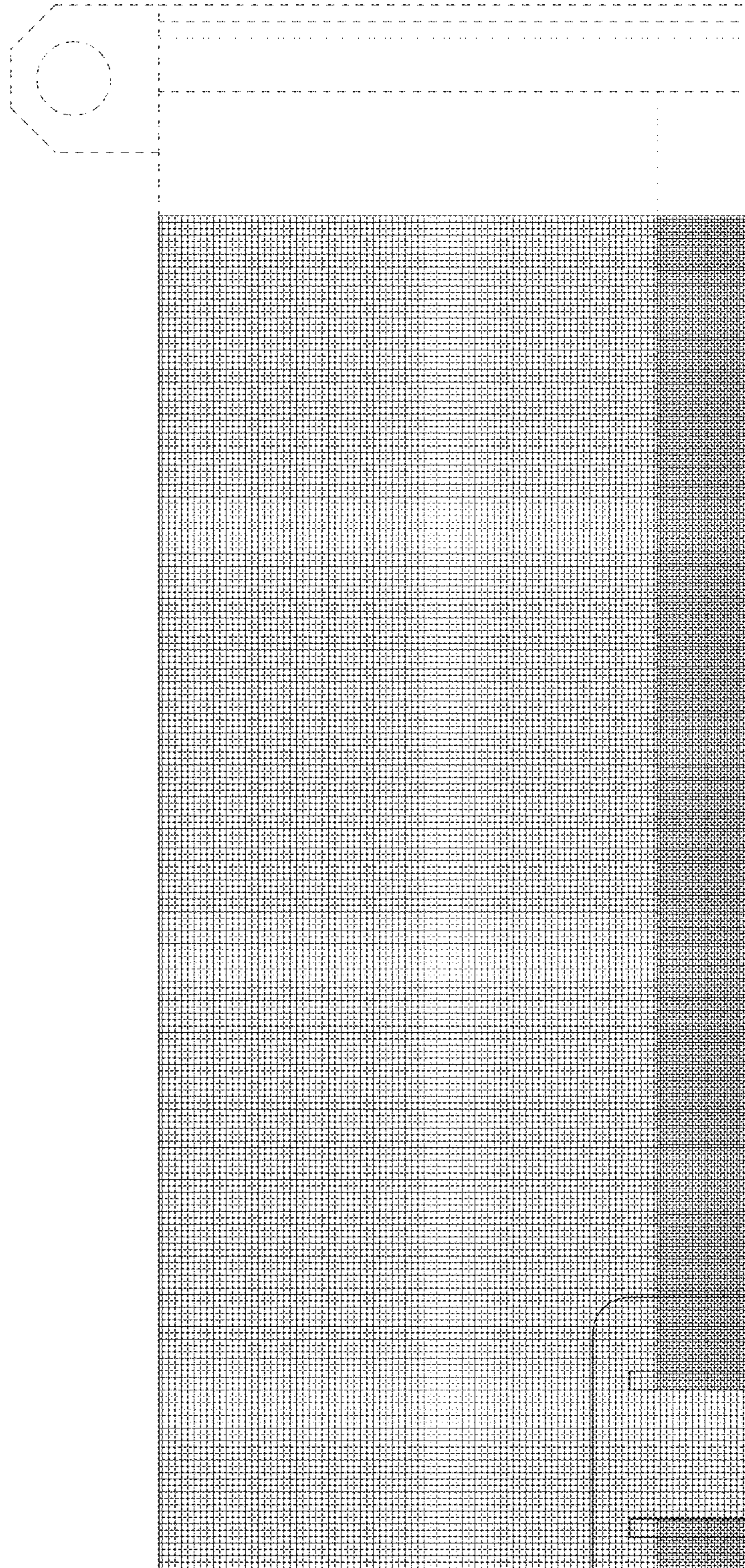


FIG. 17

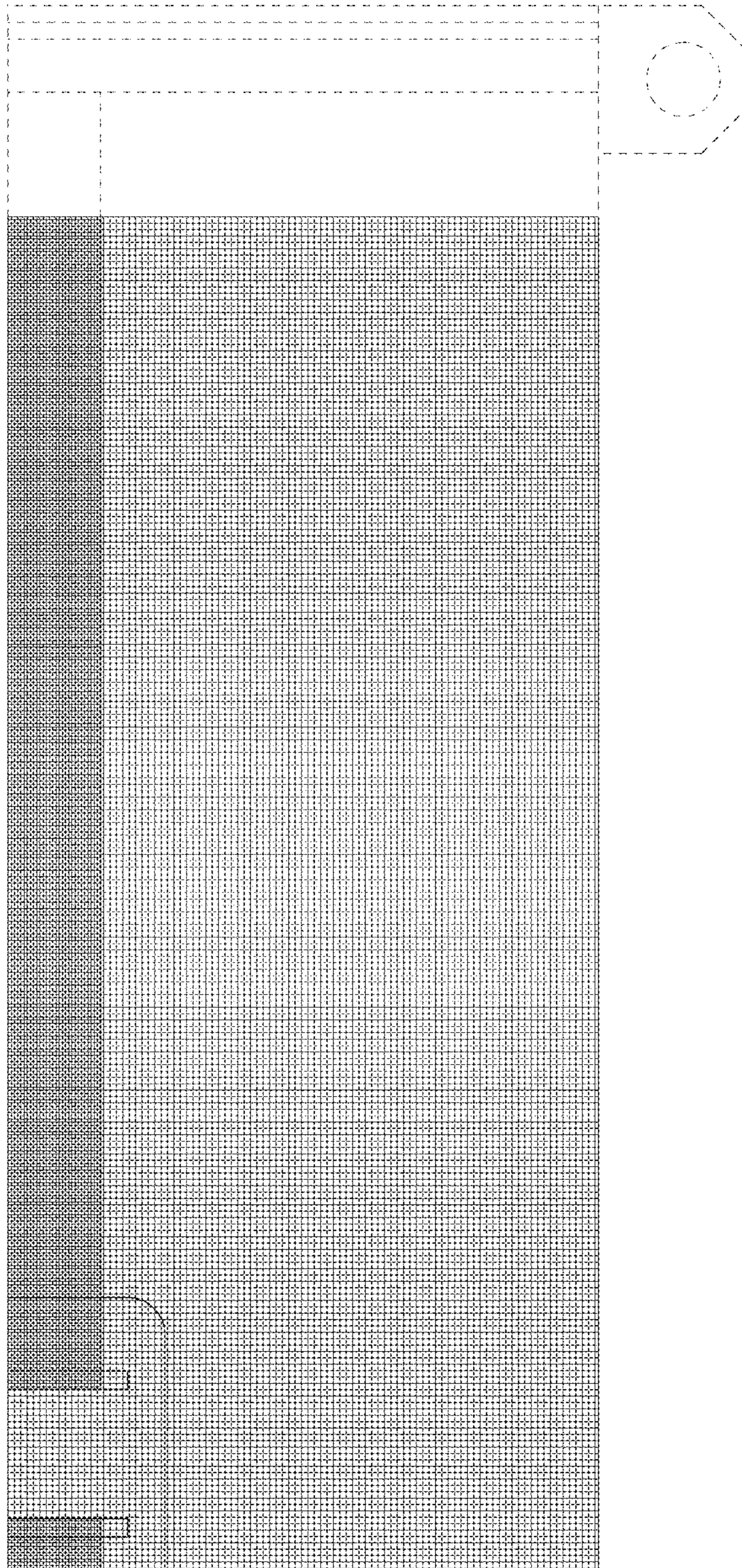


FIG. 18

