



US00D860949S

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

(10) **Patent No.:** **US D860,949 S**

(45) **Date of Patent:** **** Sep. 24, 2019**

(54) **CONTROL DEVICE FOR PLANT LIGHTS**

(71) Applicant: **BABALA (XIAMEN) AGRI-TECH CO., LTD**, Xiamen, Fujian (CN)

(72) Inventors: **Yi Wen Xiao**, Xiamen (CN); **Lankey Lan**, Xiamen (CN)

(73) Assignee: **BABALA (XIAMEN) AGRI-TECH CO., LTD**, Xiamen, Fujian (CN)

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

(21) Appl. No.: **29/641,873**

(22) Filed: **Mar. 26, 2018**

(30) **Foreign Application Priority Data**

Dec. 4, 2017 (CN) 2017 3 0609773

(51) **LOC (12) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/139.6; D13/160**

(58) **Field of Classification Search**
USPC D13/123, 124, 134, 135, 137.1, 137.2, D13/137.3, 138.1, 138.2, 139.1, 139.3,
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D216,887 S * 3/1970 Kahn D13/139.8
D221,552 S * 8/1971 Zecca D13/160
(Continued)

OTHER PUBLICATIONS

Powerbox Hardwired Lighting Controller, Mar. 26, 2018; 1 pg.;
<https://www.plantlightinghydroponics.com/powerbox-hardwired-lighting-controllers.html>.*

(Continued)

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

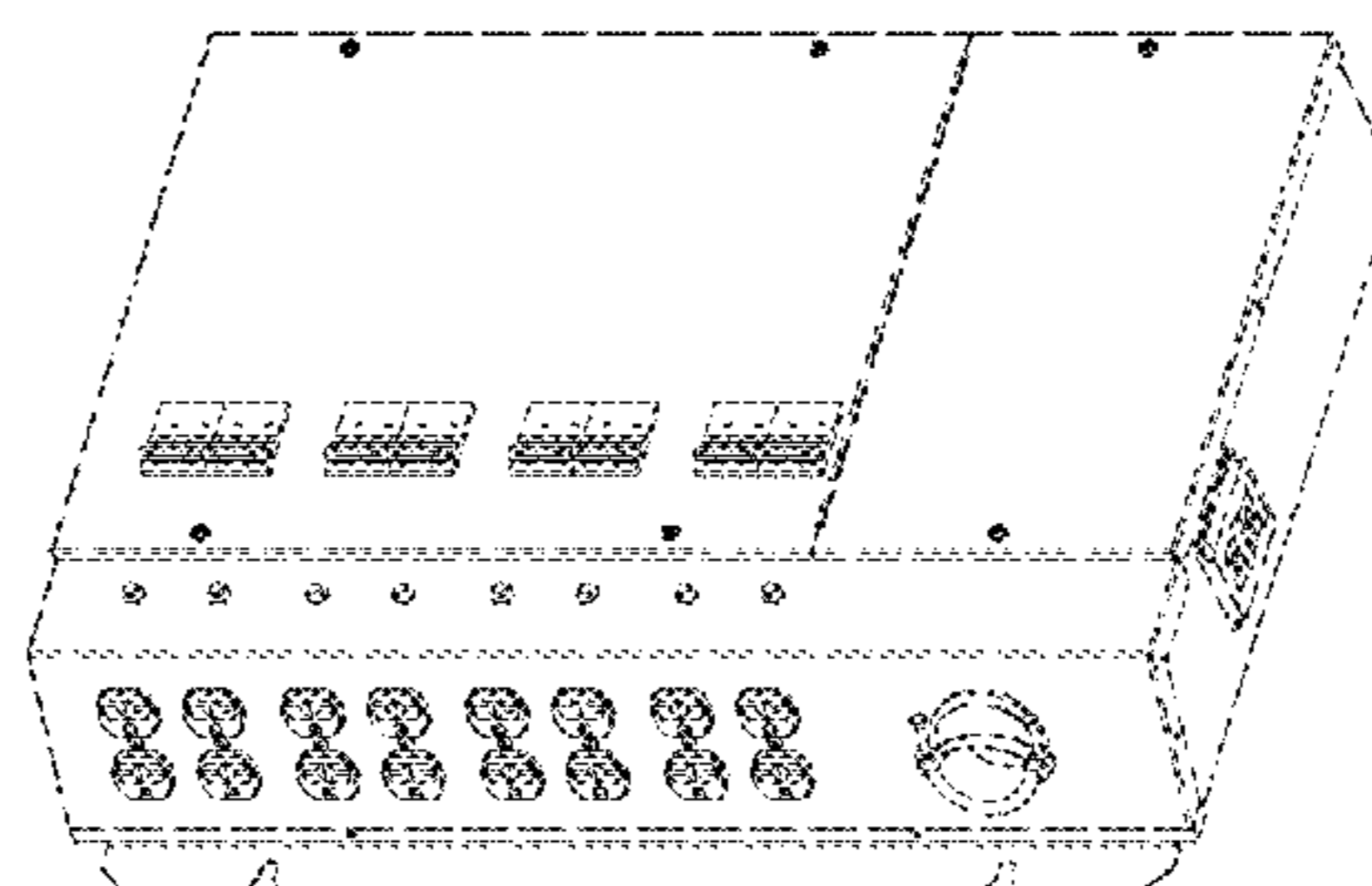
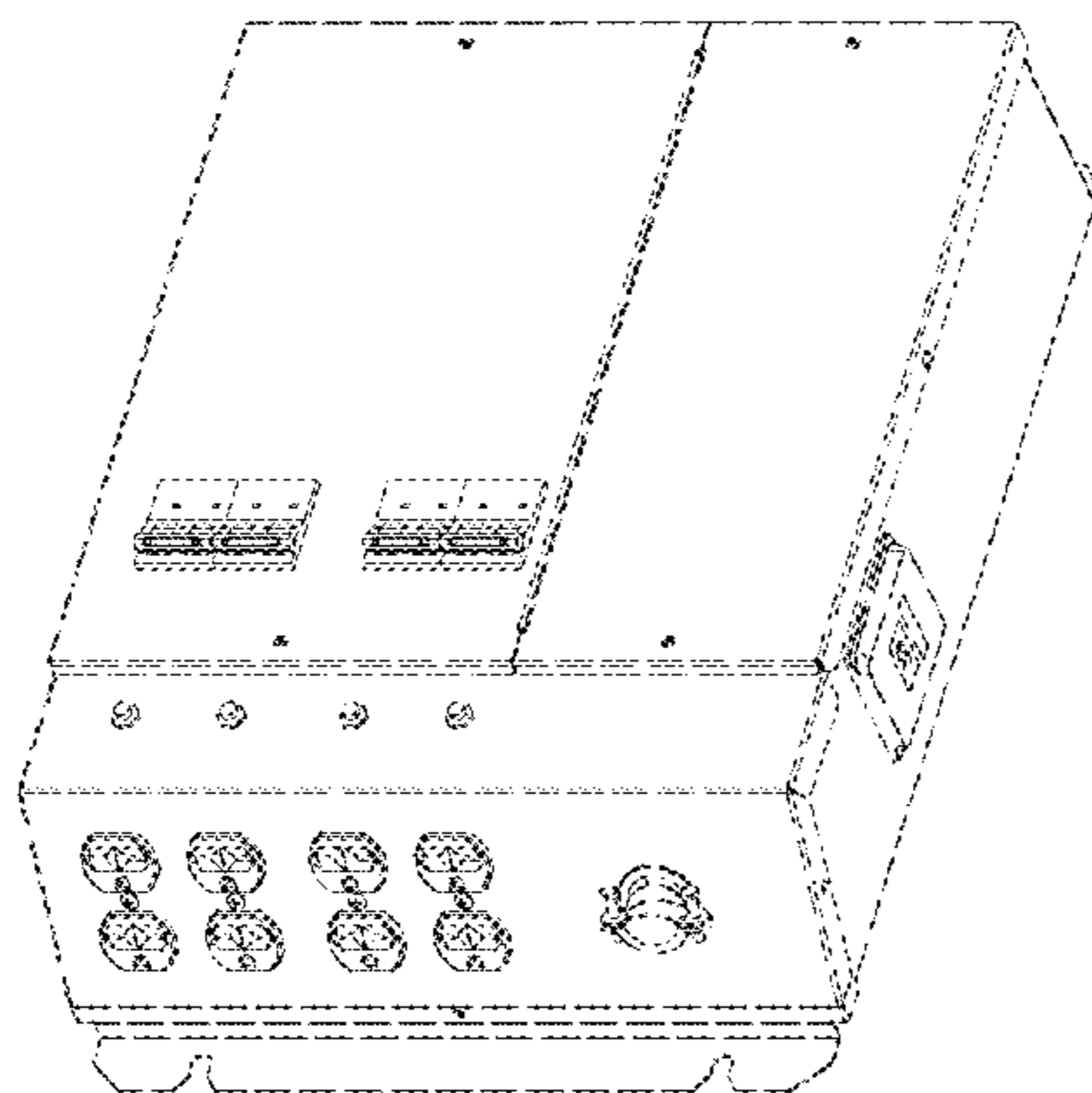
(57) **CLAIM**

The ornamental design for a control device for plant lights, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a control device for plant lights showing our new design;
FIG. 2 is a front elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a left side elevational view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof.
FIG. 8 is a perspective view of a second embodiment of a control device for plant lights showing our new design;
FIG. 9 is a front elevational view thereof;
FIG. 10 is a rear elevational view thereof;
FIG. 11 is a left side elevational view thereof;
FIG. 12 is a right side elevational view thereof;
FIG. 13 is a top plan view thereof;
FIG. 14 is a bottom plan view thereof.
FIG. 15 is a perspective view of a third embodiment of a control device for plant lights showing our new design;
FIG. 16 is a front elevational view thereof;
FIG. 17 is a rear elevational view thereof;
FIG. 18 is a left side elevational view thereof;
FIG. 19 is a right side elevational view thereof;
FIG. 20 is a top plan view thereof;
FIG. 21 is a bottom plan view thereof.
FIG. 22 is a perspective view of a fourth embodiment of a control device for plant lights showing our new design;
FIG. 23 is a front elevational view thereof;
FIG. 24 is a rear elevational view thereof;
FIG. 25 is a left side elevational view thereof;
FIG. 26 is a right side elevational view thereof;
FIG. 27 is a top plan view thereof; and,
FIG. 28 is a bottom plan view thereof.
The broken lines illustrate portions of the control device for plant lights which form no part of the claimed design.

1 Claim, 28 Drawing Sheets



(58) **Field of Classification Search**

USPC D13/139.6, 139.8, 152, 158, 159, 160,
D13/162, 178
CPC H01R 31/00; H01R 31/02; H01R 31/08;
H01R 31/085; H01R 13/6666; H01R
13/70; H02G 3/08; H02G 3/081; H02G
3/086
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D223,365 S * 4/1972 Beckwith D13/159
4,668,034 A * 5/1987 McHattie H01R 13/655
174/51
D313,394 S * 1/1991 Berlin D13/139.1
5,185,499 A * 2/1993 Yahraus H01R 31/02
174/59
D368,893 S * 4/1996 Harwood D13/139.8
D392,615 S * 3/1998 Basile D13/123
5,984,728 A * 11/1999 Chen H01R 13/6666
439/535
6,315,604 B1 * 11/2001 Lee H01R 13/516
439/535
6,816,359 B1 * 11/2004 Hsiao H01R 25/003
174/135
D539,756 S * 4/2007 Sasaki D13/159
D549,656 S * 8/2007 Hsiao D13/139.8
D562,767 S * 2/2008 Grolmes D13/110
D564,973 S * 3/2008 Meng-Suen D13/139.1
D576,553 S * 9/2008 Lee D13/139.6

OTHER PUBLICATIONS

LTL Master 16 Lighting Controller; prior to Sep. 26, 2017, 1 pg. ;
https://www.google.com/search?q=LTL+Master+16+Lighting+Controller&hl=en&biw=960&bih=508&source=Int&tbs=cd%3A1%2Ccd_min%3A%2Ccd_max%3A9%2F26%2F2017&tbm=isch#imgc=uDD93O9J6YpCLM:&spf=1556587848308.*
Aquarius Hydroponics Climate Controller; prior to Sep. 26, 2017/1
pg.; <https://www.google.com/search?hl=en&biw=960&bih=508&tbs=>

cd%3A1%2Ccd_max%3A9%2F26%2F2017&tbm=isch&sa=1&ei=SKXHXMbNG4HL_Qa28ZG4Ag&q=LTL+Master+8+Lighting+Controller&oq=LTL+Master+8+Lighting+Controller&gs_I=img.12...294601.294601..297144...0.*
American DP-DMX-20L-DMX-Dimmer Pack; prior to Sep. 26, 2017, 1 pg.; https://www.google.com/search?hl=en&biw=960&bih=508&tbs=cd%3A1%2Ccd_max%3A9%2F26%2F2017&tbm=isch&sa=1&ei=SKXHXMbNG4HL_Qa28ZG4Ag&q=LTL+Master+8+Lighting+Controller&oq=LTL+Master+8+Lighting+Controller&gs_I=img.12...294601.294601..297144...0.0.0.*
C.A.P. MLC-12P4 Master Light Controller , prior to Sep. 26, 2017, 1 pg. ; https://www.google.com/search?hl=en&biw=960&bih=508&tbs=cd%3A1%2Ccd_max%3A9%2F26%2F2017&tbm=isch&sa=1&ei=I3IXMTIIM2c_QbG16OACw&q=Master+Lighting+Controller&oq=Master+Lighting+Controller&gs_I=img.12..0i24.35653.36138..37591...0.0.0.62.*
Helios 18-12 Light Controller; prior to Sep. 26, 2017, 1 pg.; https://www.google.com/search?hl=en&biw=960&bih=508&tbs=cd%3A1%2Ccd_max%3A9%2F26%2F2017&tbm=isch&sa=1&ei=I3IXMTIIM2c_QbG16OACw&q=Master+Lighting+Controller&oq=Master+Lighting+Controller&gs_I=img.12..0i24.35653.36138..37591...0.0.0.62.164.3.....0.*
MLC 24 Light Master Lighting Controller, prior to Sep. 26, 2017.; https://www.google.com/search?hl=en&biw=960&bih=508&tbs=cd%3A1%2Ccd_max%3A9%2F26%2F2017&tbm=isch&sa=1&ei=I3IXMTIIM2c_QbG16OACw&q=Master+Lighting+Controller&oq=Master+Lighting+Controller&gs_I=img.12..0i24.35653.36138..37591...0.0.0.62.164.3...*.
Lexproducts; prior to Mar. 26, 2018; 1 pg.; https://www.google.com/search?hl=en&biw=1536&bih=813&tbs=cd%3A1%2Ccd_max%3A3%2F26%2F2018&tbm=isch&sa=1&ei=KTzTXJD0PO-2ggeT4J34Aw&q=multi+gang+receptacle+breaker+box&oq=multi+gang+receptacle+breaker+box&gs_I=img.12...114384.114384..115560...0.0.0.49.49.1.....0...1.gw.*
50A Temporary Power Outlet ; prior to Mar. 26, 2018; 1 pg.; https://www.google.com/search?hl=en&biw=1536&bih=813&tbs=cd%3A1%2Ccd_max%3A3%2F26%2F2018&tbm=isch&sa=1&ei=KTzTXJD0PO-2ggeT4J34Aw&q=multi+gang+receptacle+breaker+box&oq=multi+gang+receptacle+breaker+box&gs_I=img.12...114384.114384..115560...0.0.0.49.49.1.*
CN201730608818.6.*

* cited by examiner

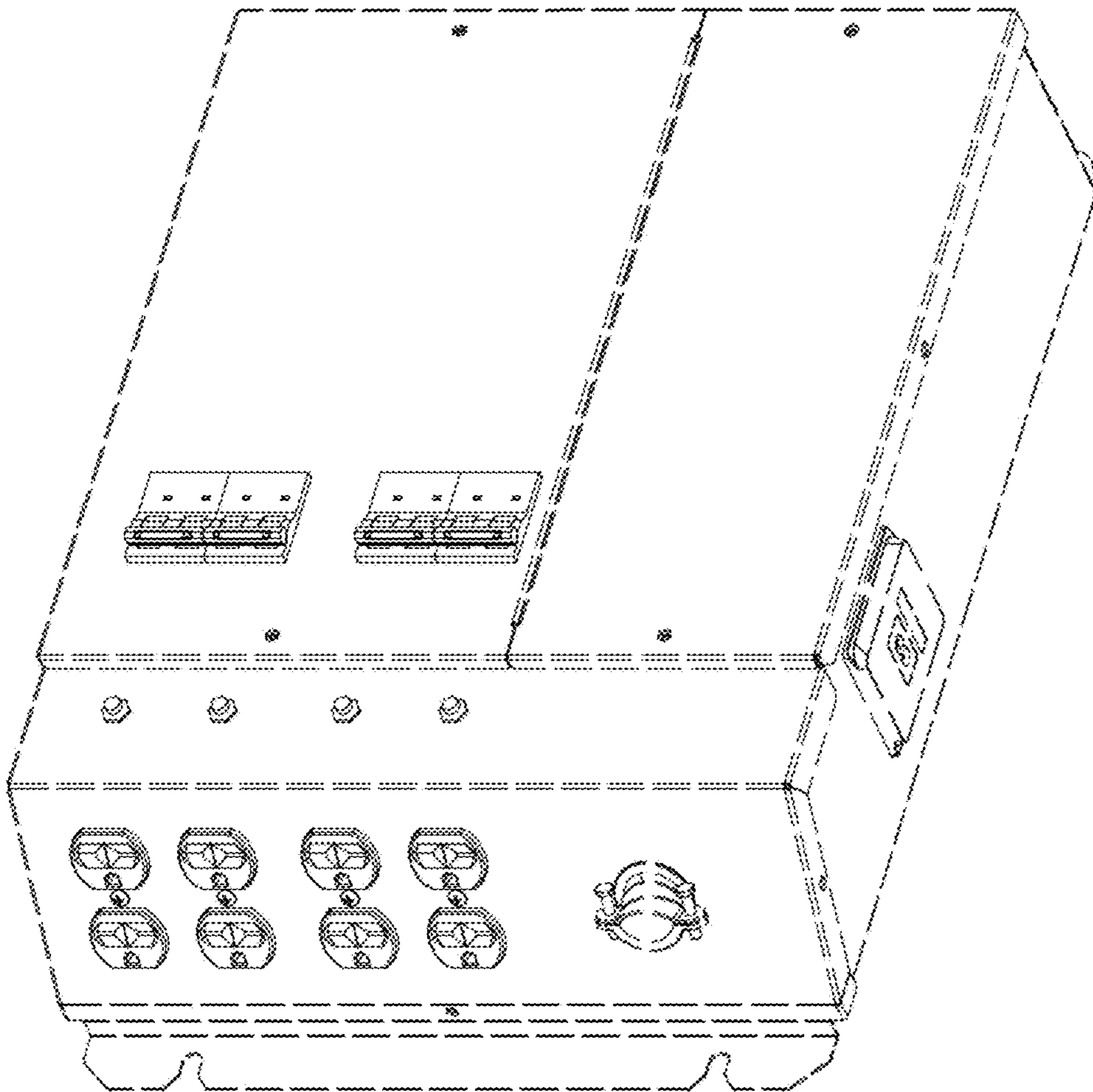


FIG. 1

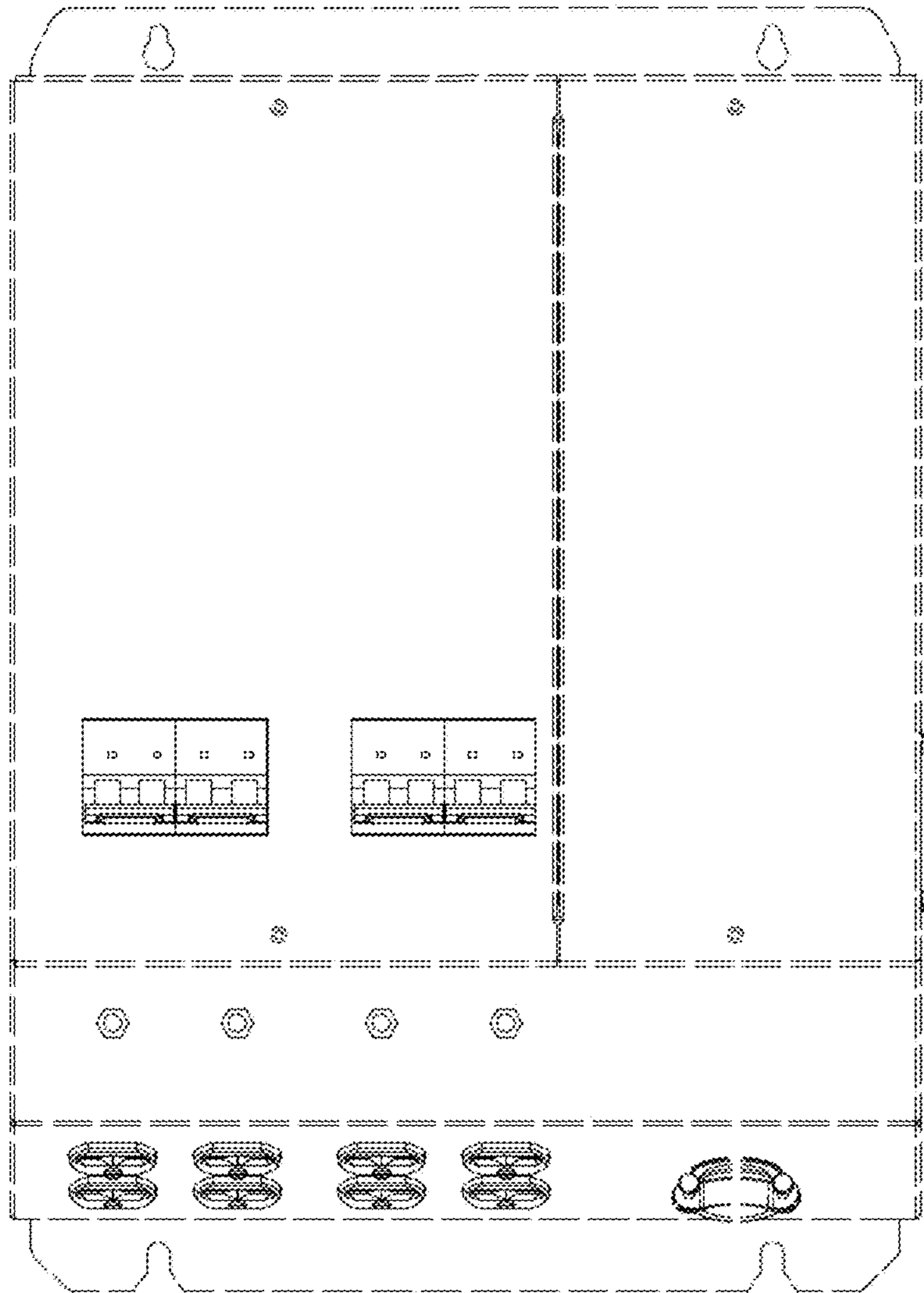


FIG. 2

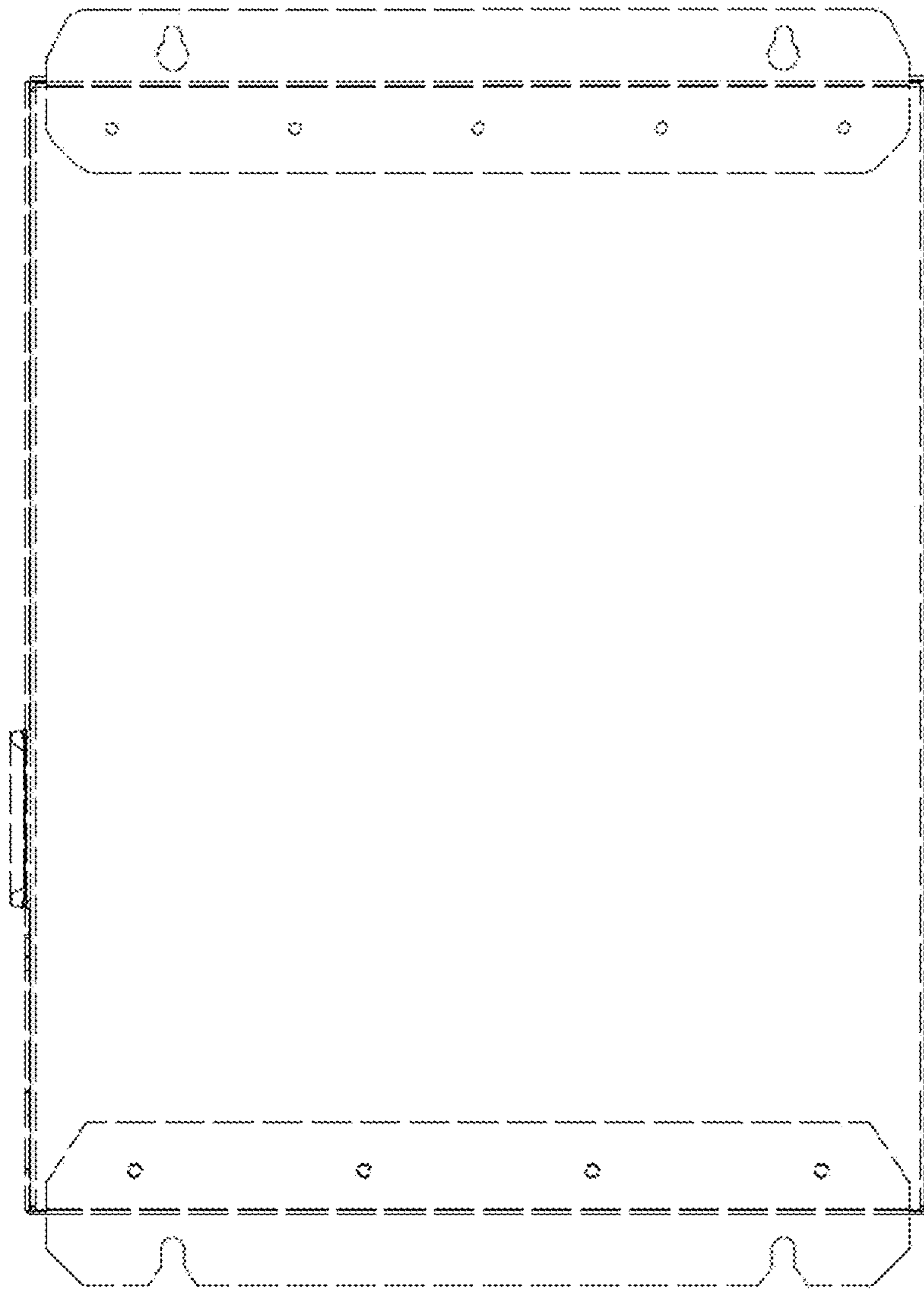


FIG. 3

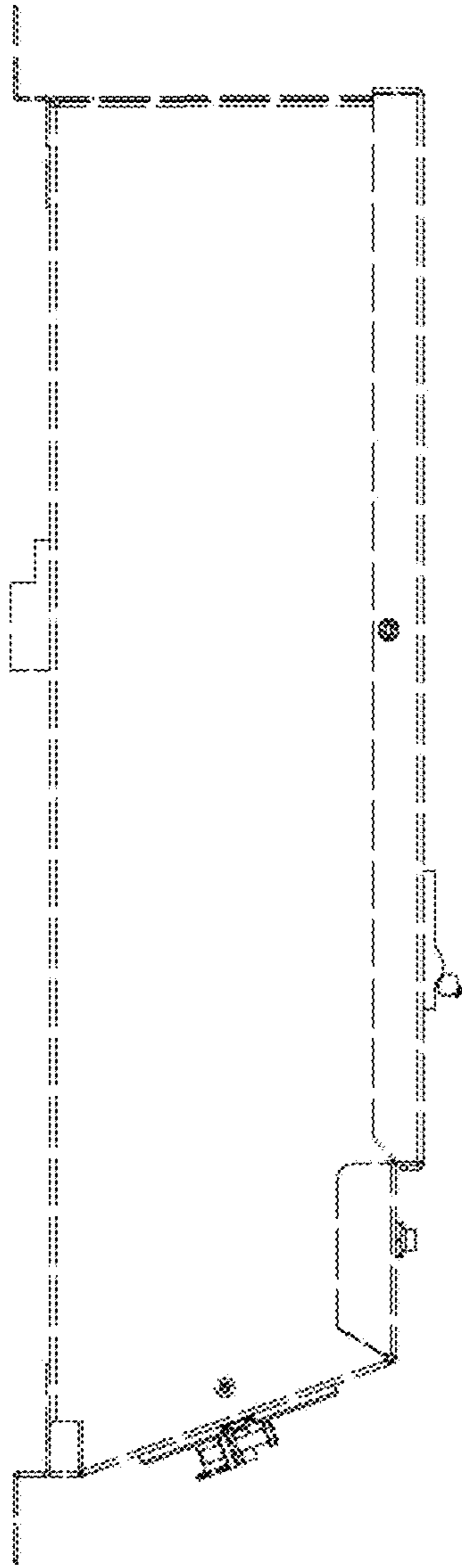


FIG. 4

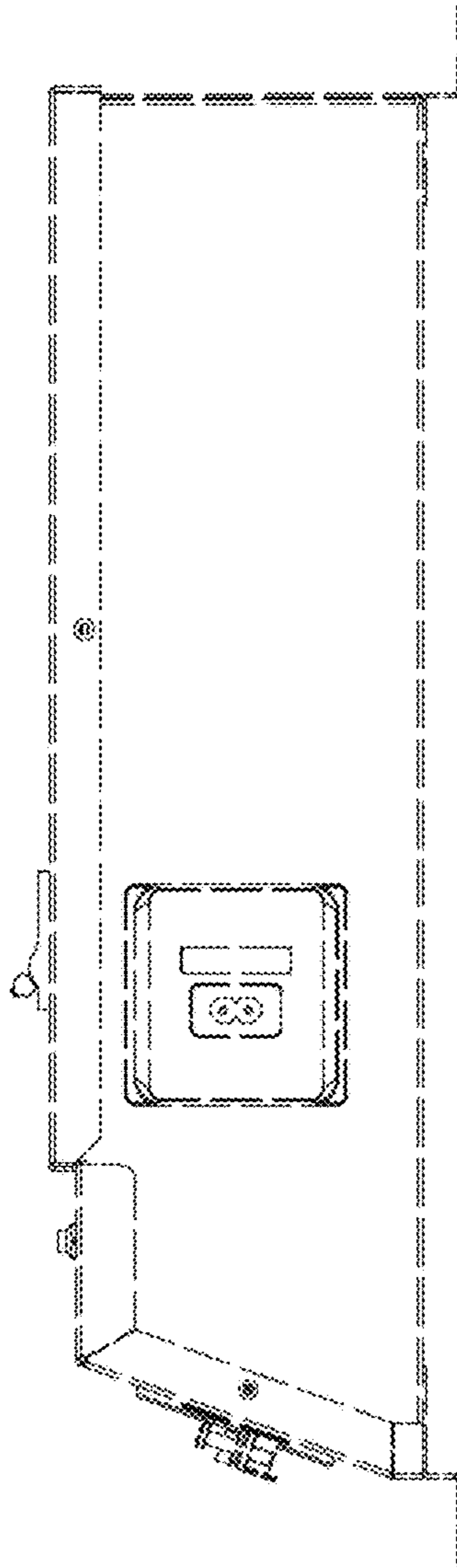


FIG. 5

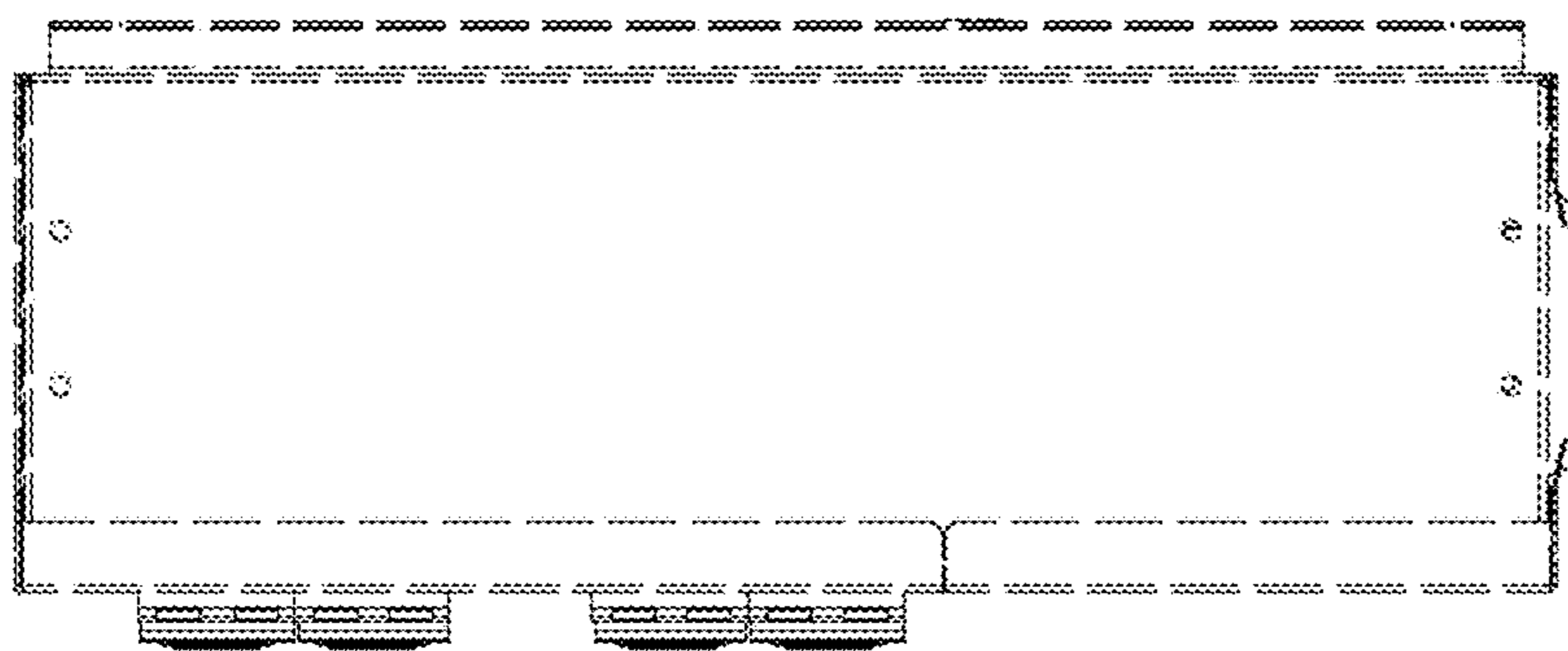


FIG. 6

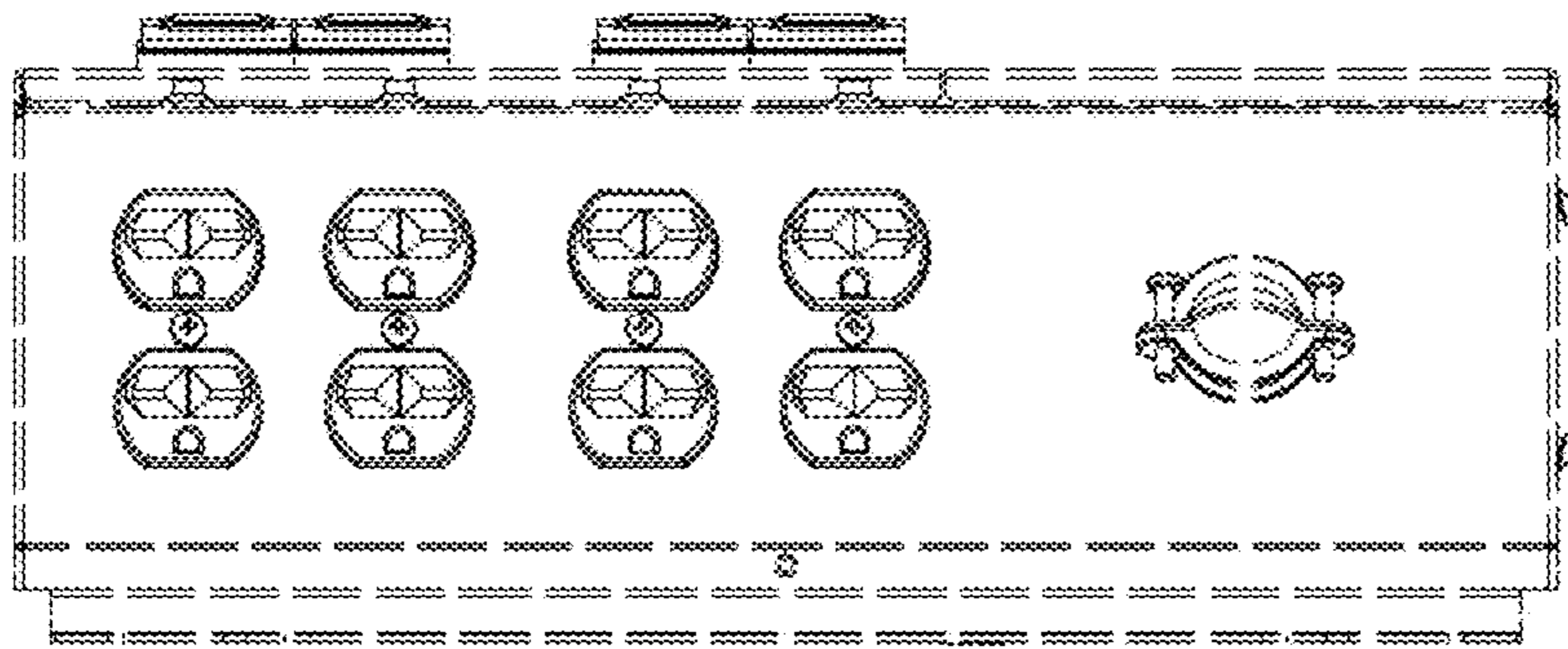


FIG. 7

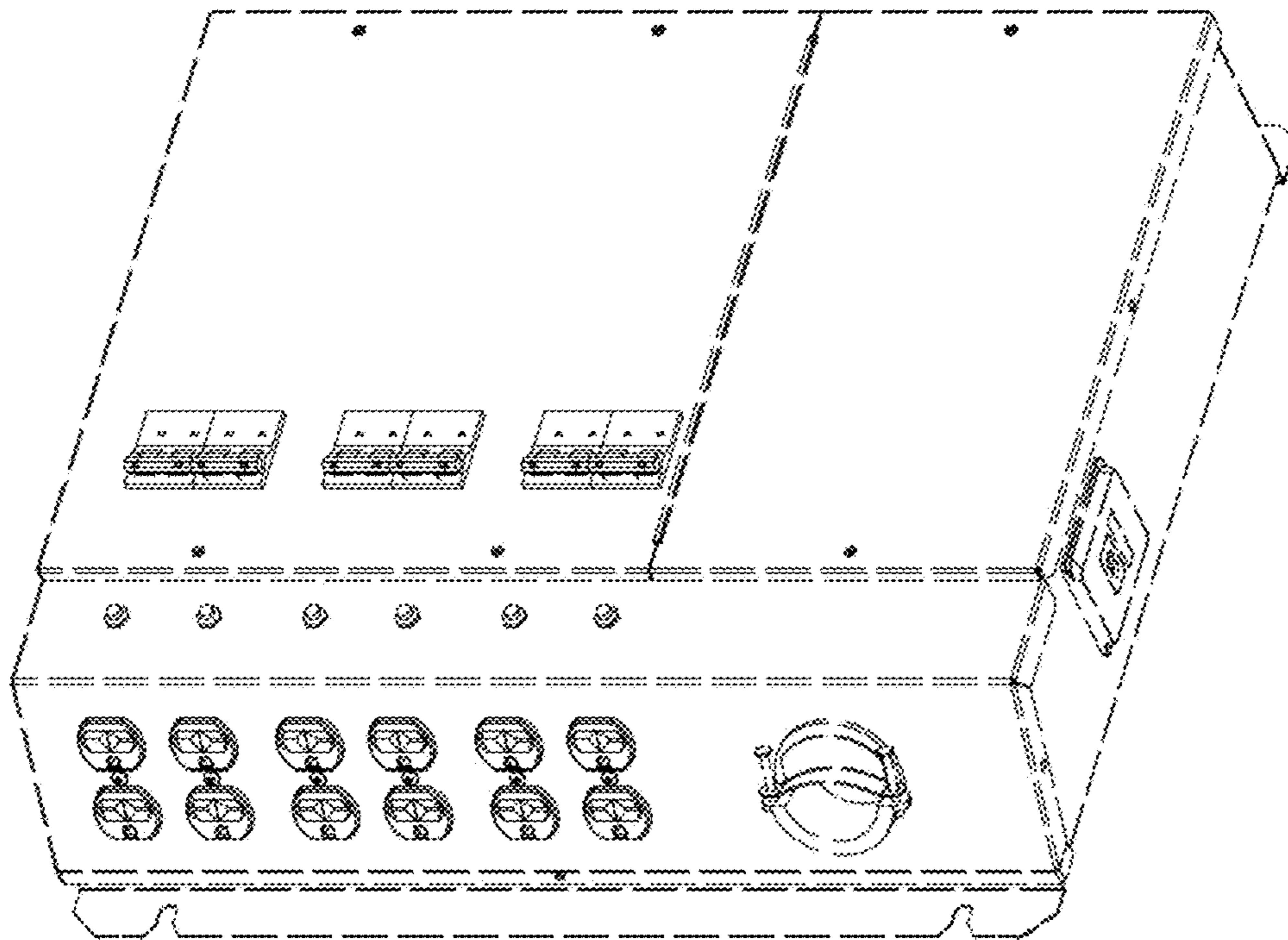


FIG. 8

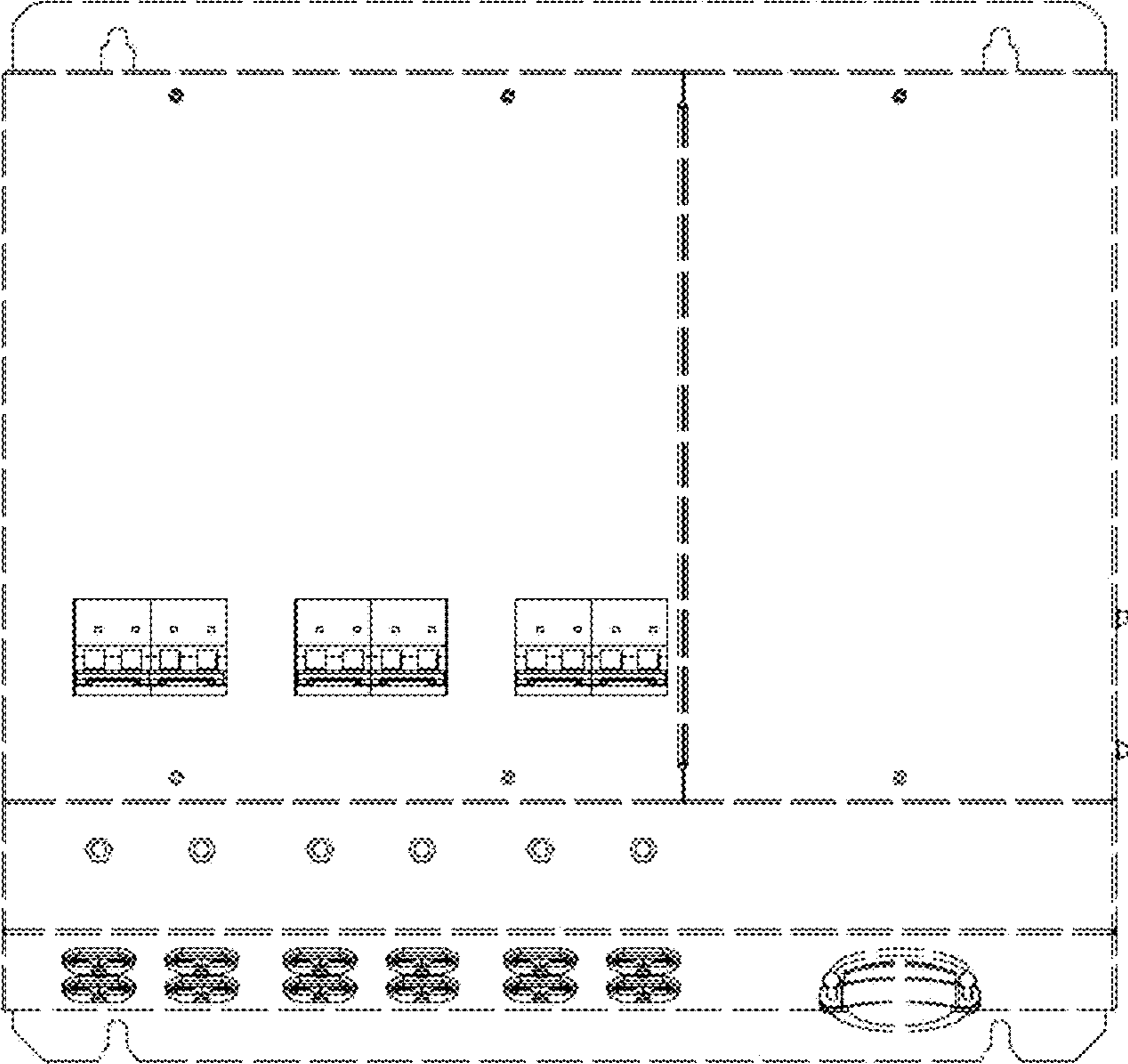


FIG. 9

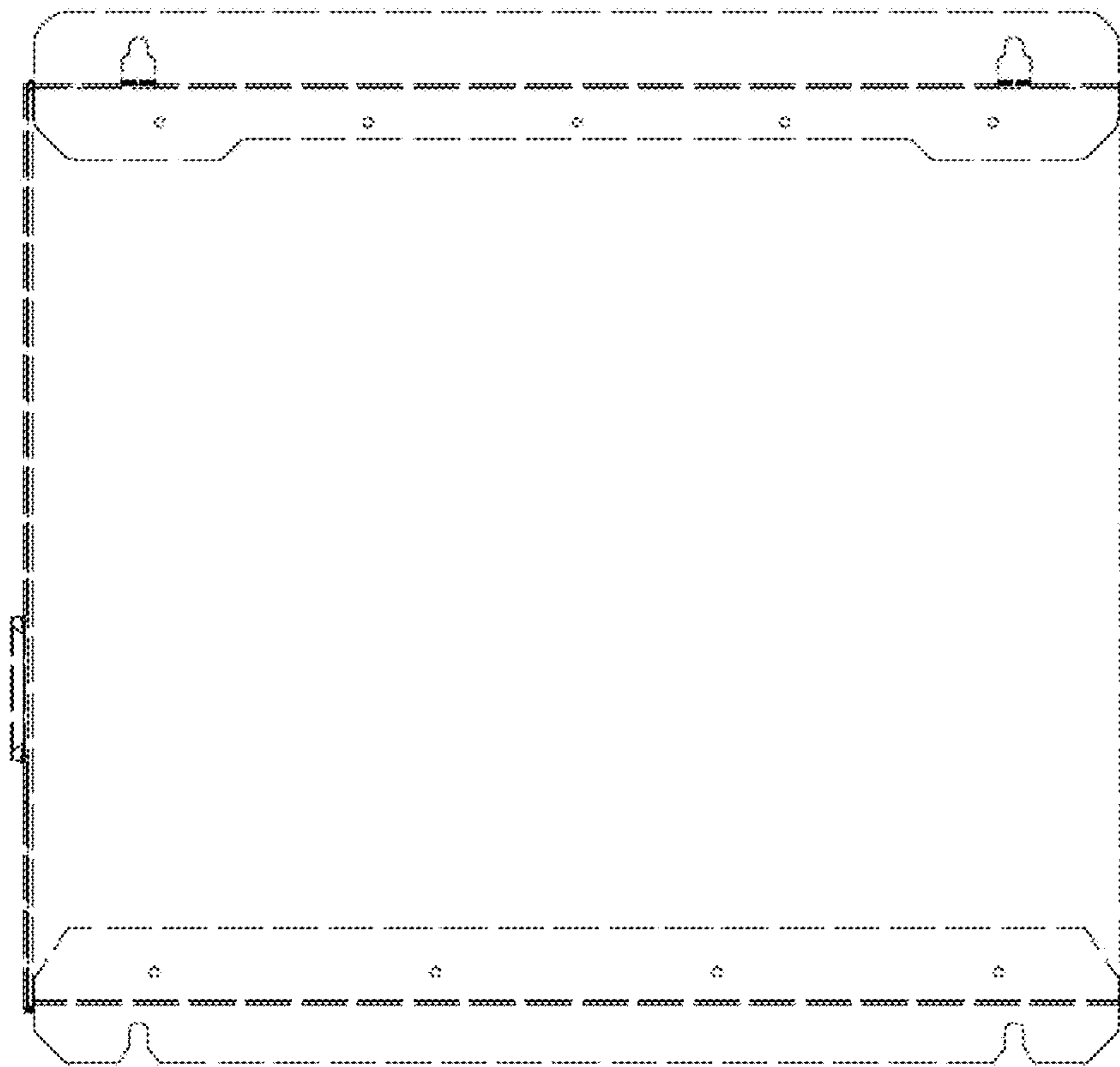


FIG. 10

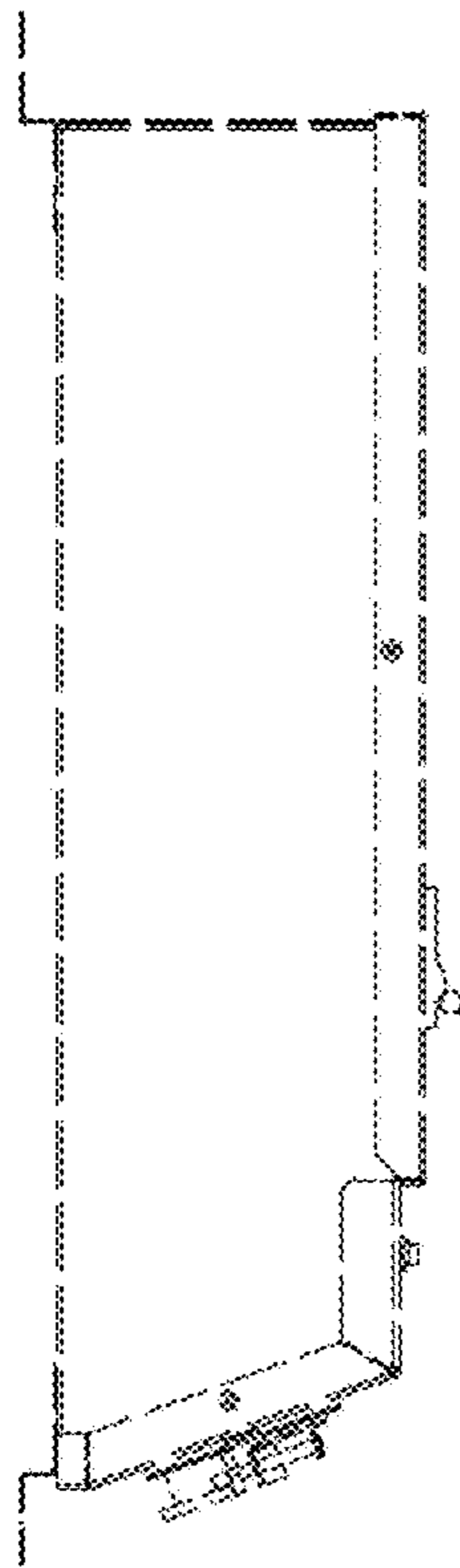


FIG. 11

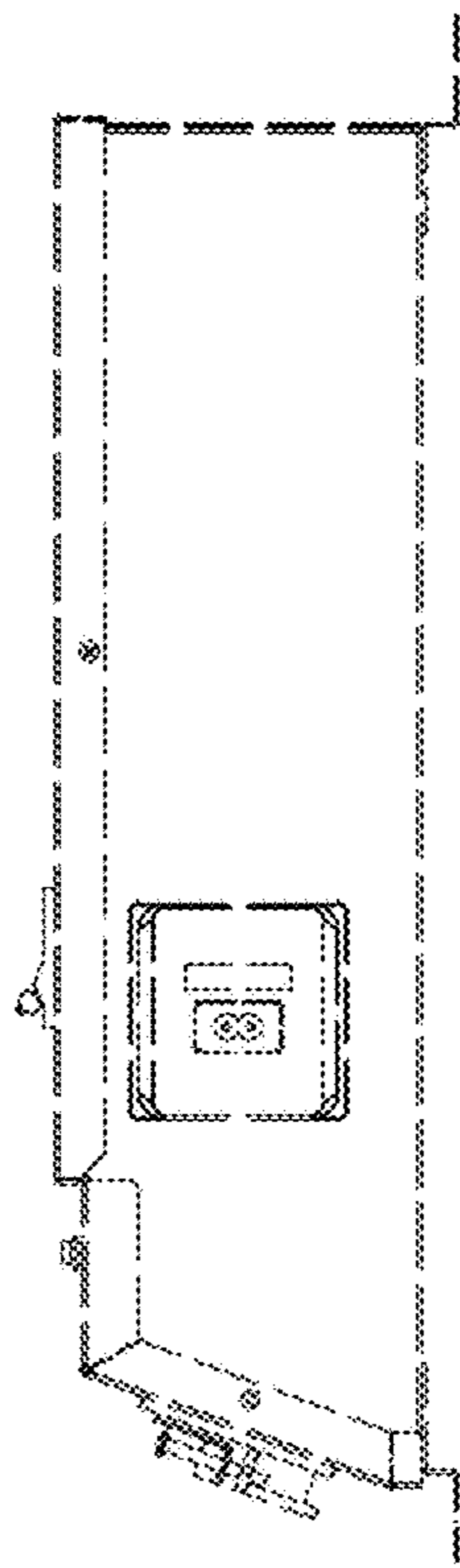


FIG. 12

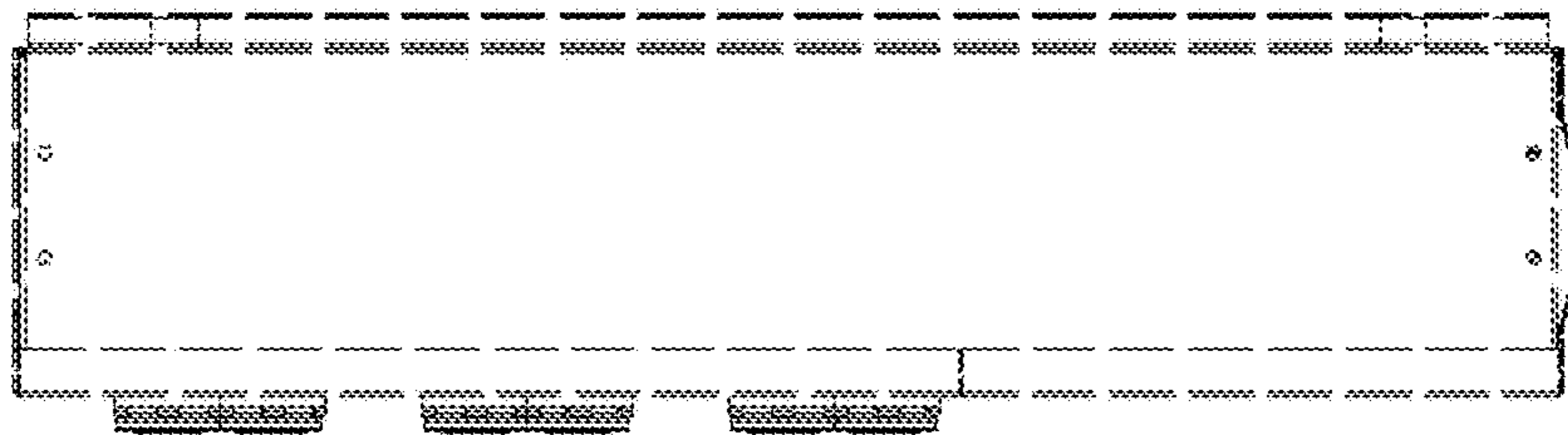


FIG. 13

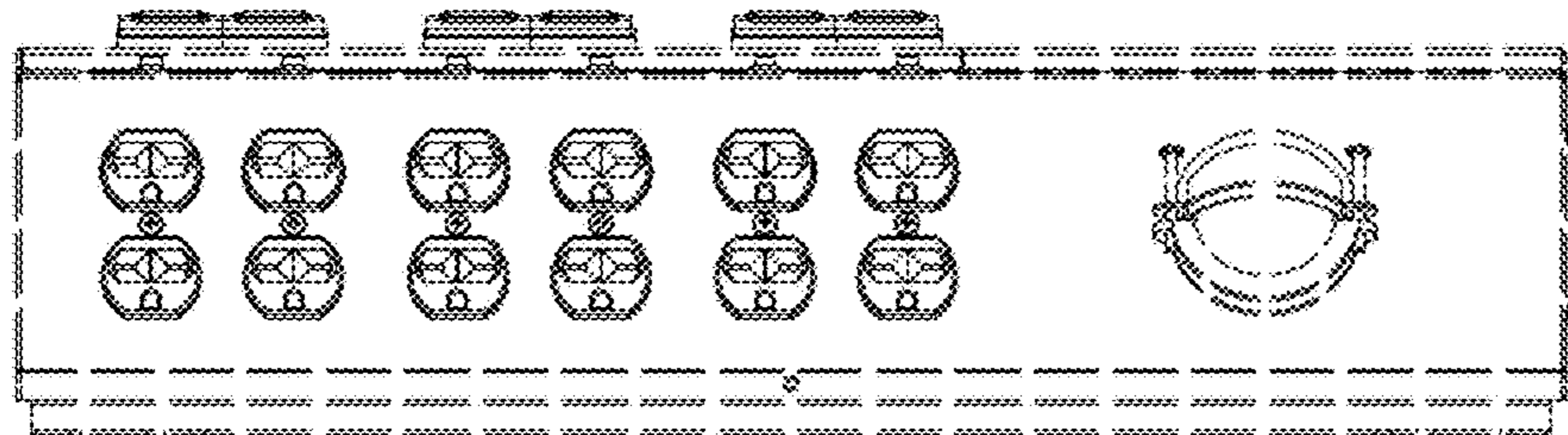


FIG. 14

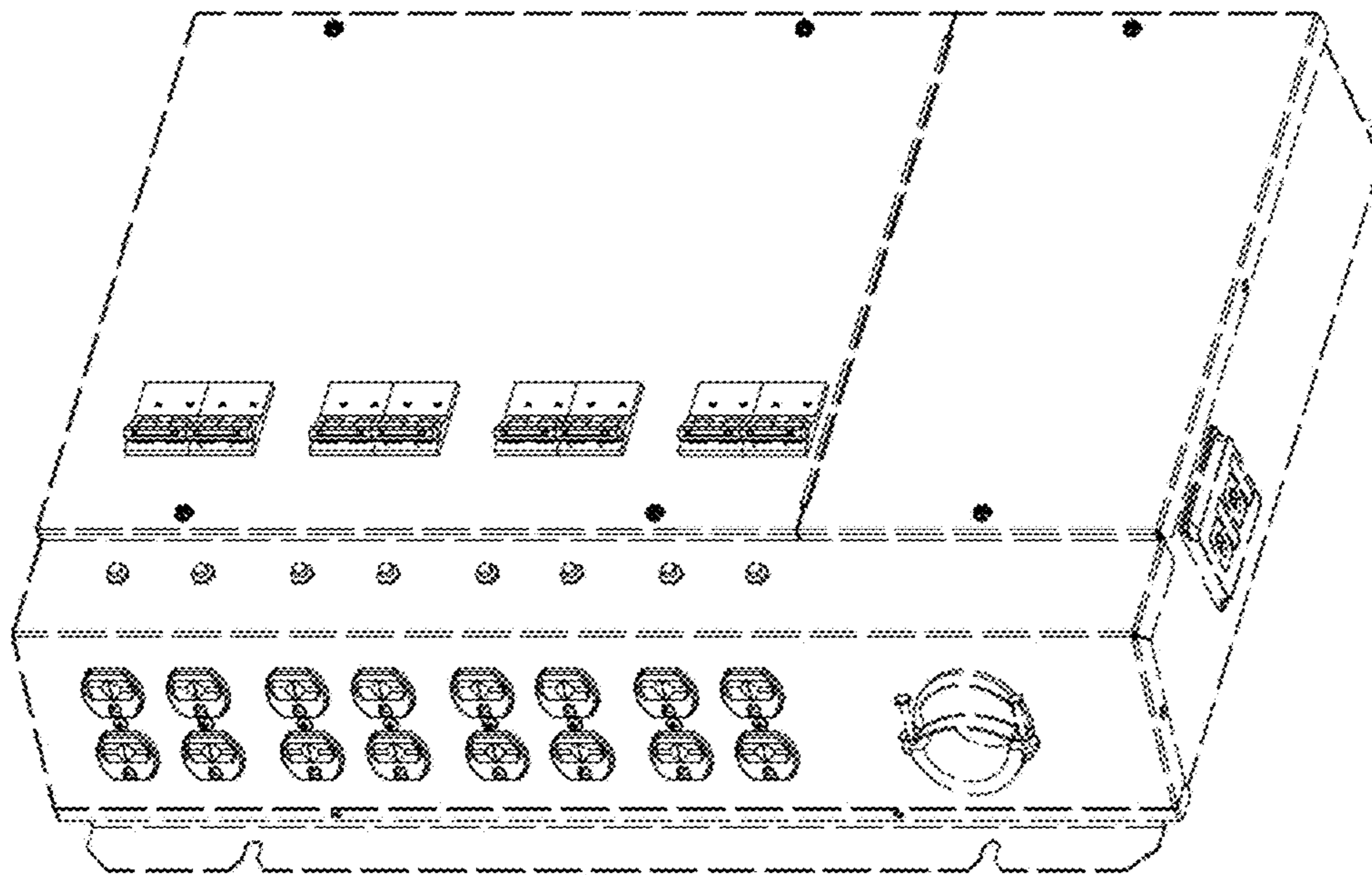


FIG. 15

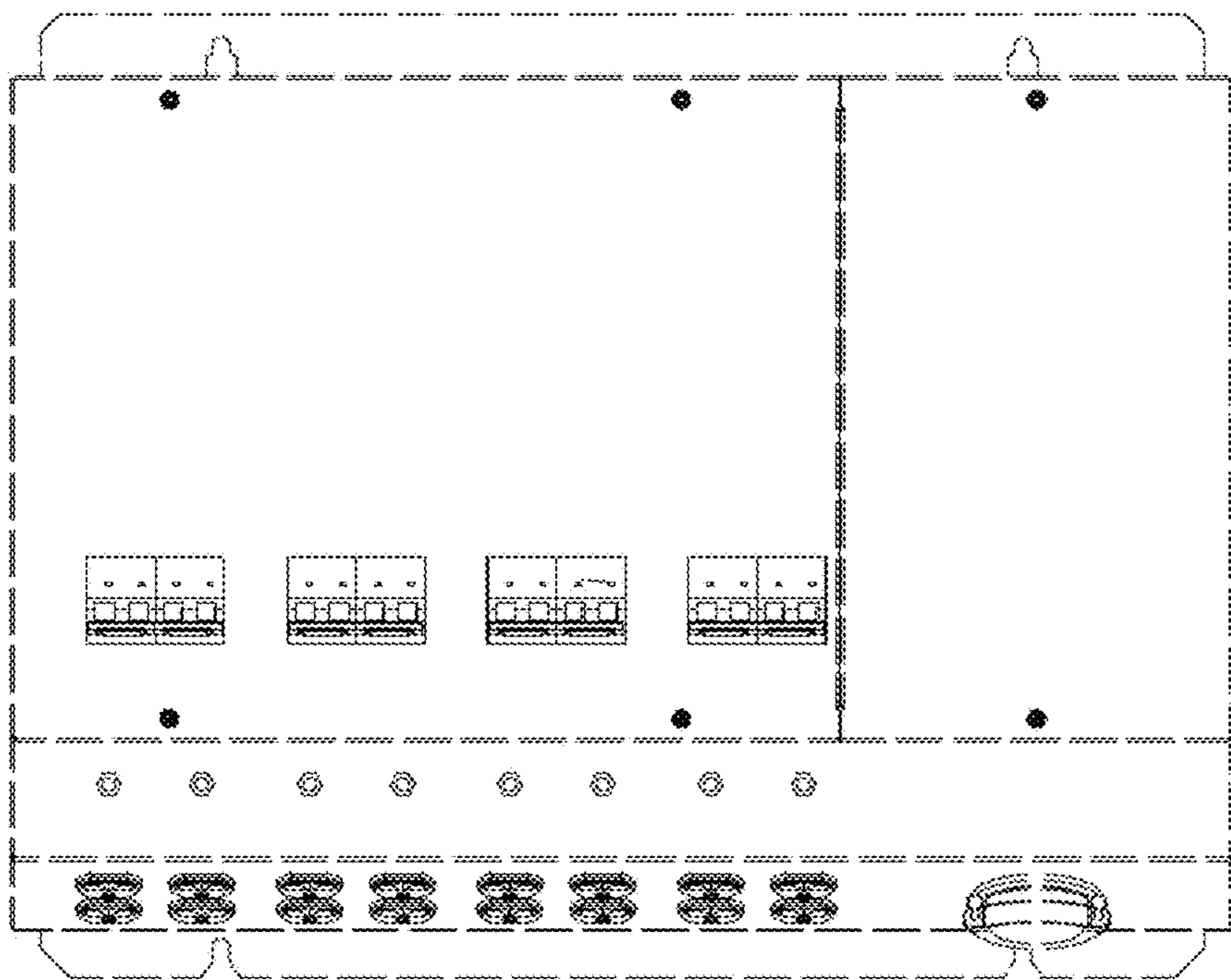


FIG. 16

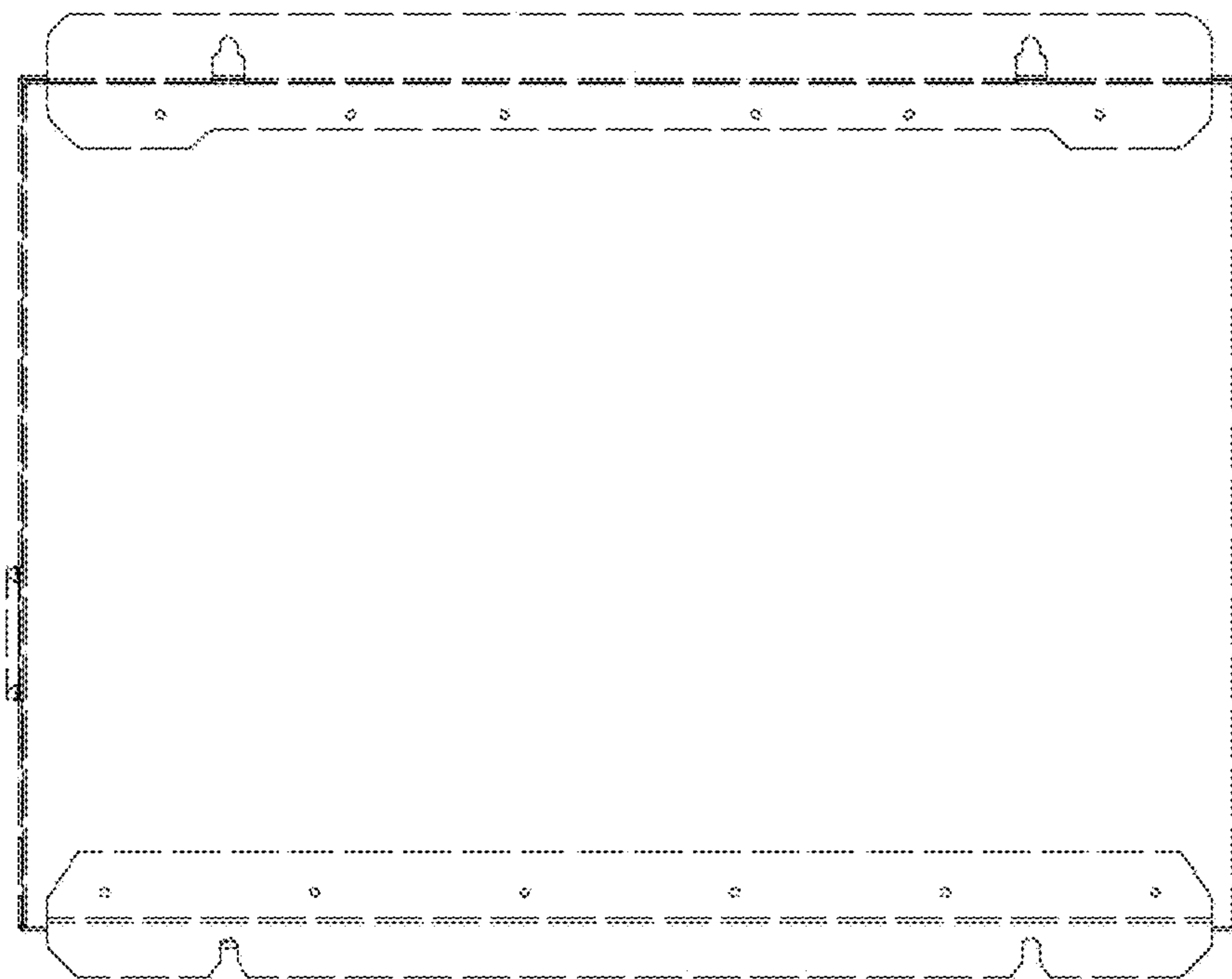


FIG. 17

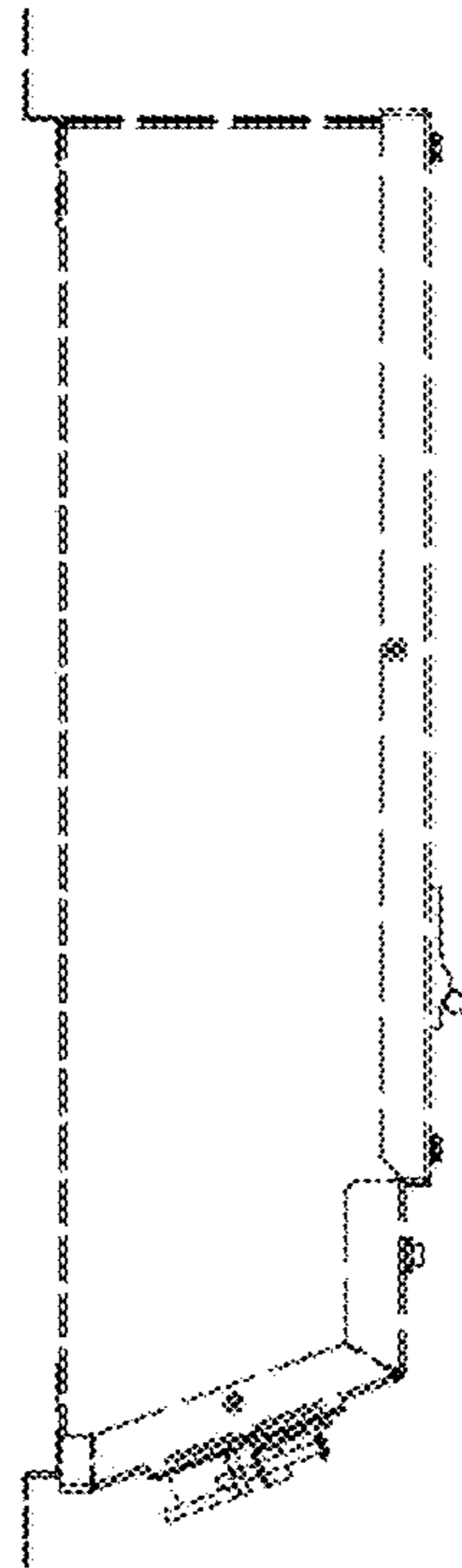


FIG. 18

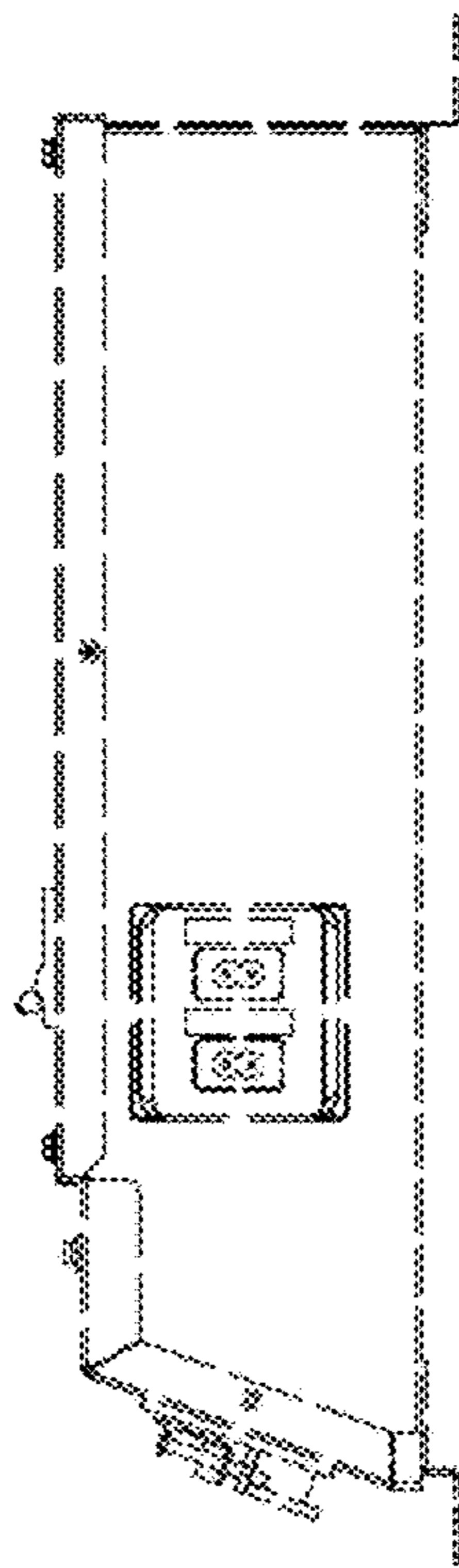


FIG. 19

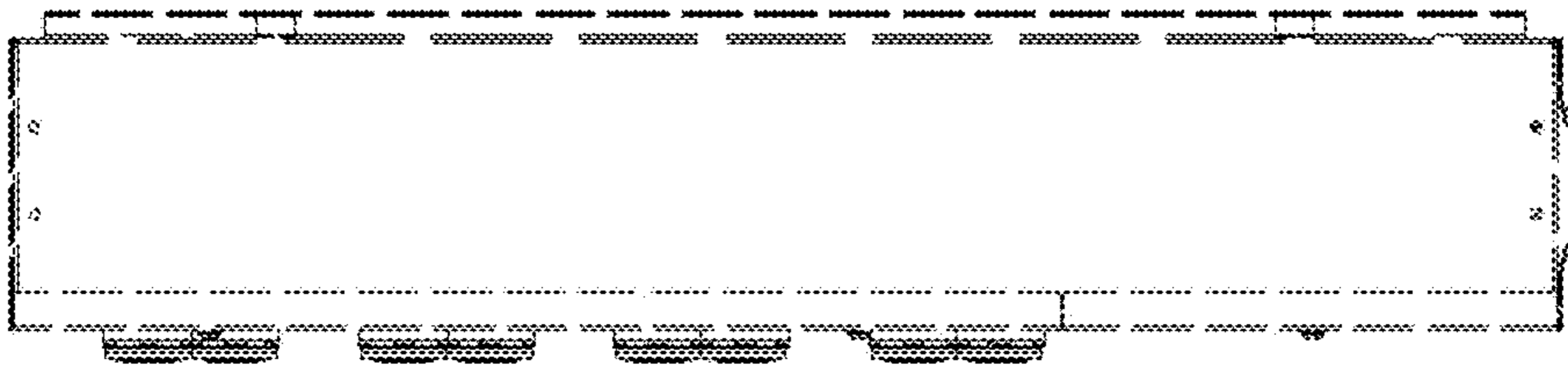


FIG. 20

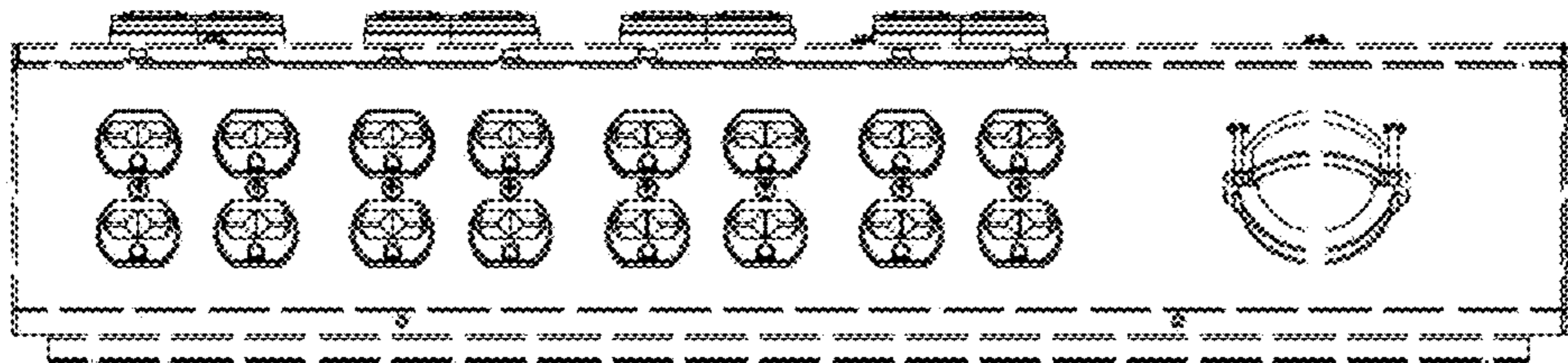


FIG. 21

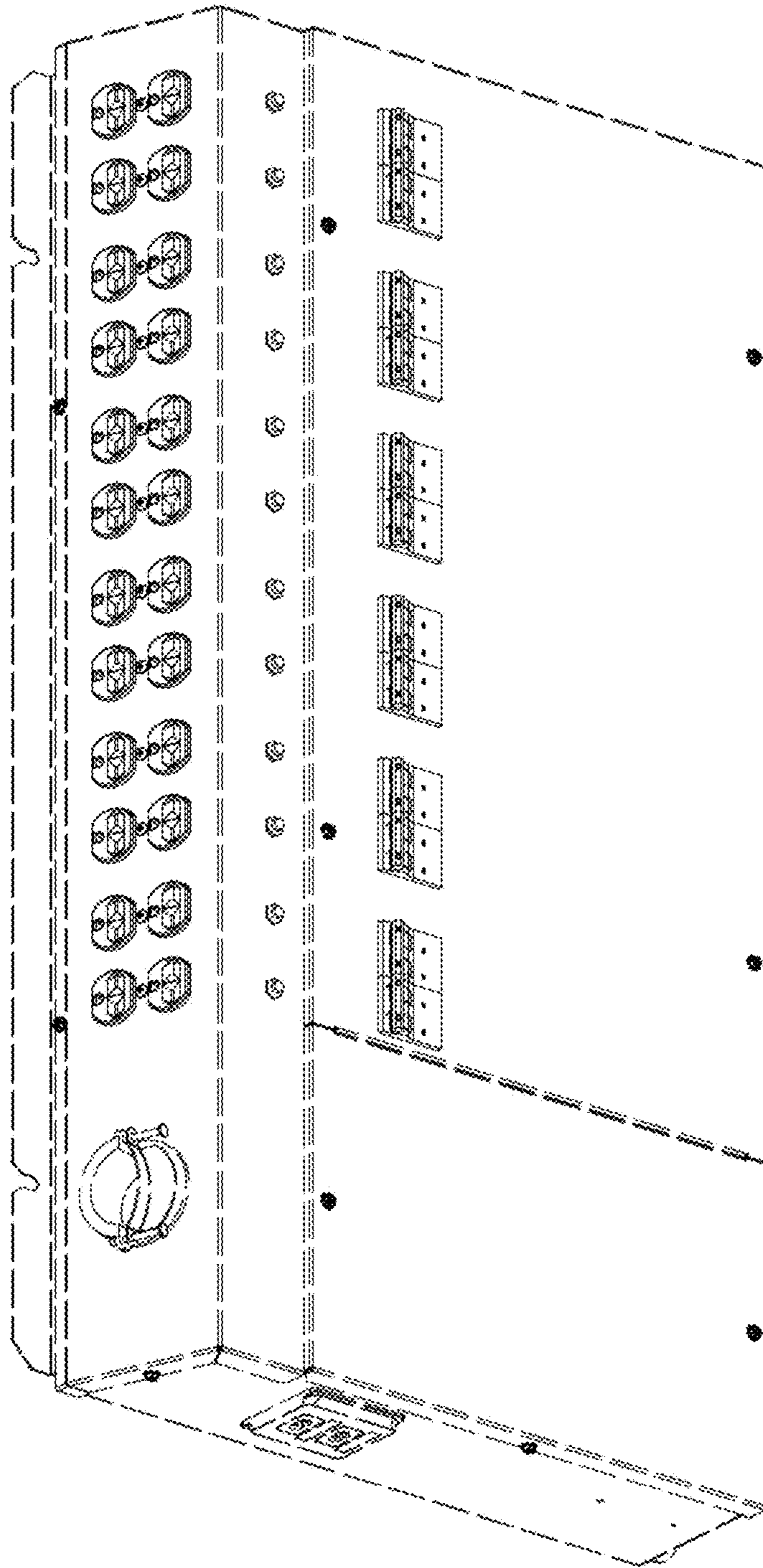


FIG. 22

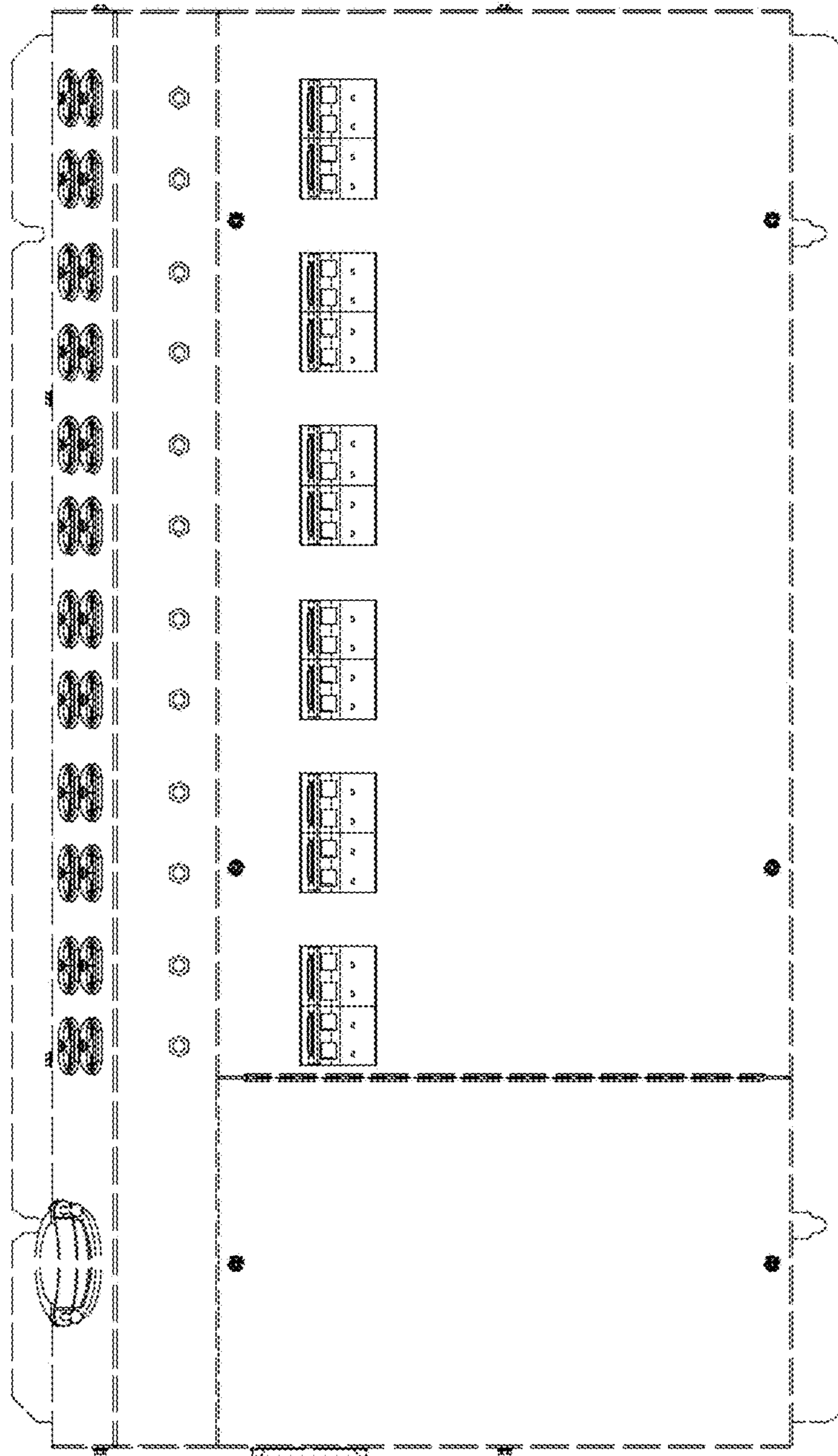


FIG. 23

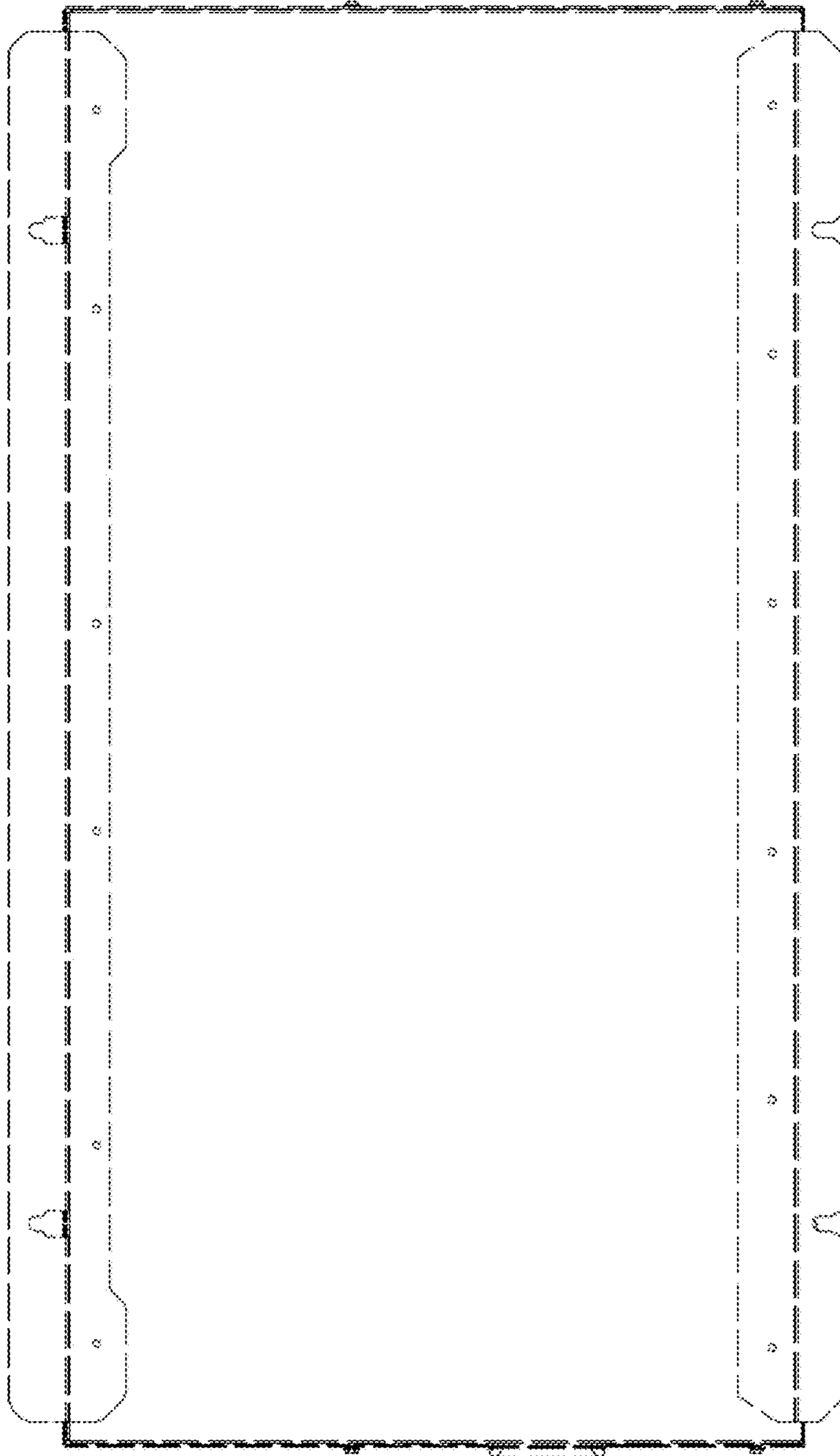


FIG. 24

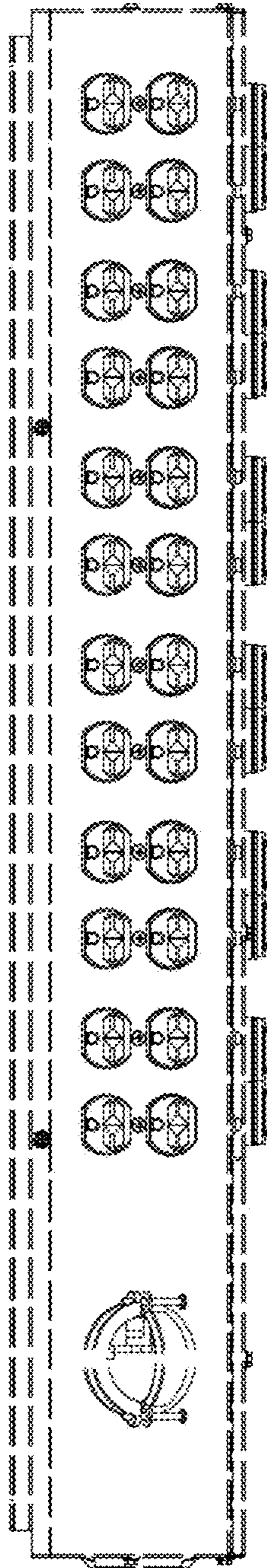


FIG. 25

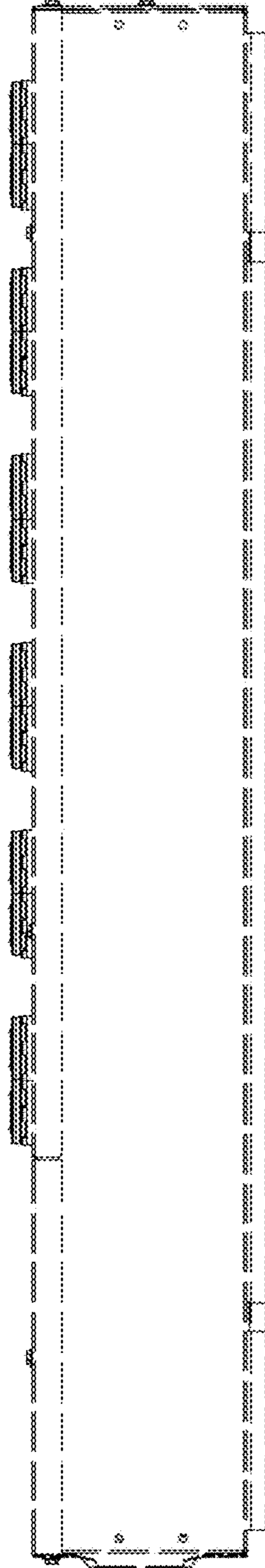


FIG. 26

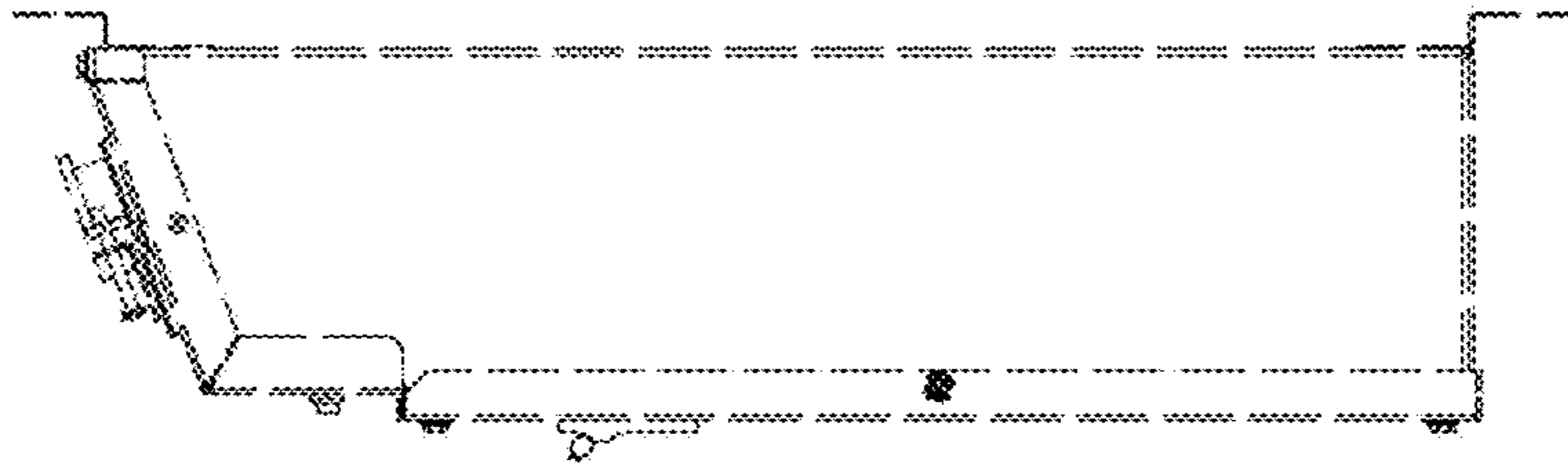


FIG. 27

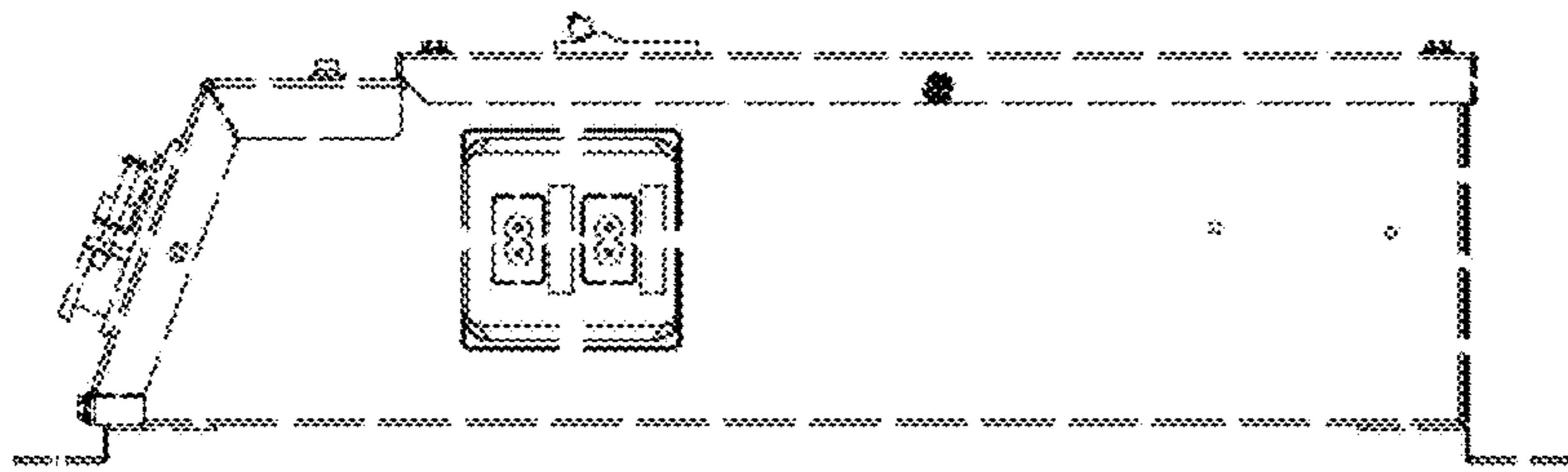


FIG. 28