



US00D708133S

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

(10) **Patent No.:** **US D708,133 S**

(45) **Date of Patent:** **** Jul. 1, 2014**

(54) **FREQUENCY CONVERTER**

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(73) Assignee: **ABB Oy**, Helsinki (FI)

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

(21) Appl. No.: **29/371,781**

(22) Filed: **Sep. 22, 2011**

(30) **Foreign Application Priority Data**

Apr. 8, 2011	(EM)	001271134-0001
Apr. 8, 2011	(EM)	001271134-0002
Apr. 8, 2011	(EM)	001271134-0003
Apr. 8, 2011	(EM)	001271134-0004

(51) **LOC (10) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/110**

(58) **Field of Classification Search**
USPC D13/101, 110, 123, 184, 199;
307/150-152; 261/600, 601, 622, 702,
261/703, 730, 796, 809; 363/141, 142
See application file for complete search history.

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Assistant Examiner — Lauren Calve

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(57) **CLAIM**

The ornamental design for a frequency converter, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a frequency converter showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a right side view thereof;

FIG. 5 is a left side view thereof;

FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof;

FIG. 8 is a second perspective view thereof; and

FIG. 9 is a third perspective view thereof;

FIG. 10 is a perspective view of a frequency converter of a second embodiment showing our new design;

FIG. 11 is a front view thereof;

FIG. 12 is a rear view thereof;

FIG. 13 is a right side view thereof;

FIG. 14 is a left side view thereof;

FIG. 15 is a top view thereof;

FIG. 16 is a bottom view thereof;

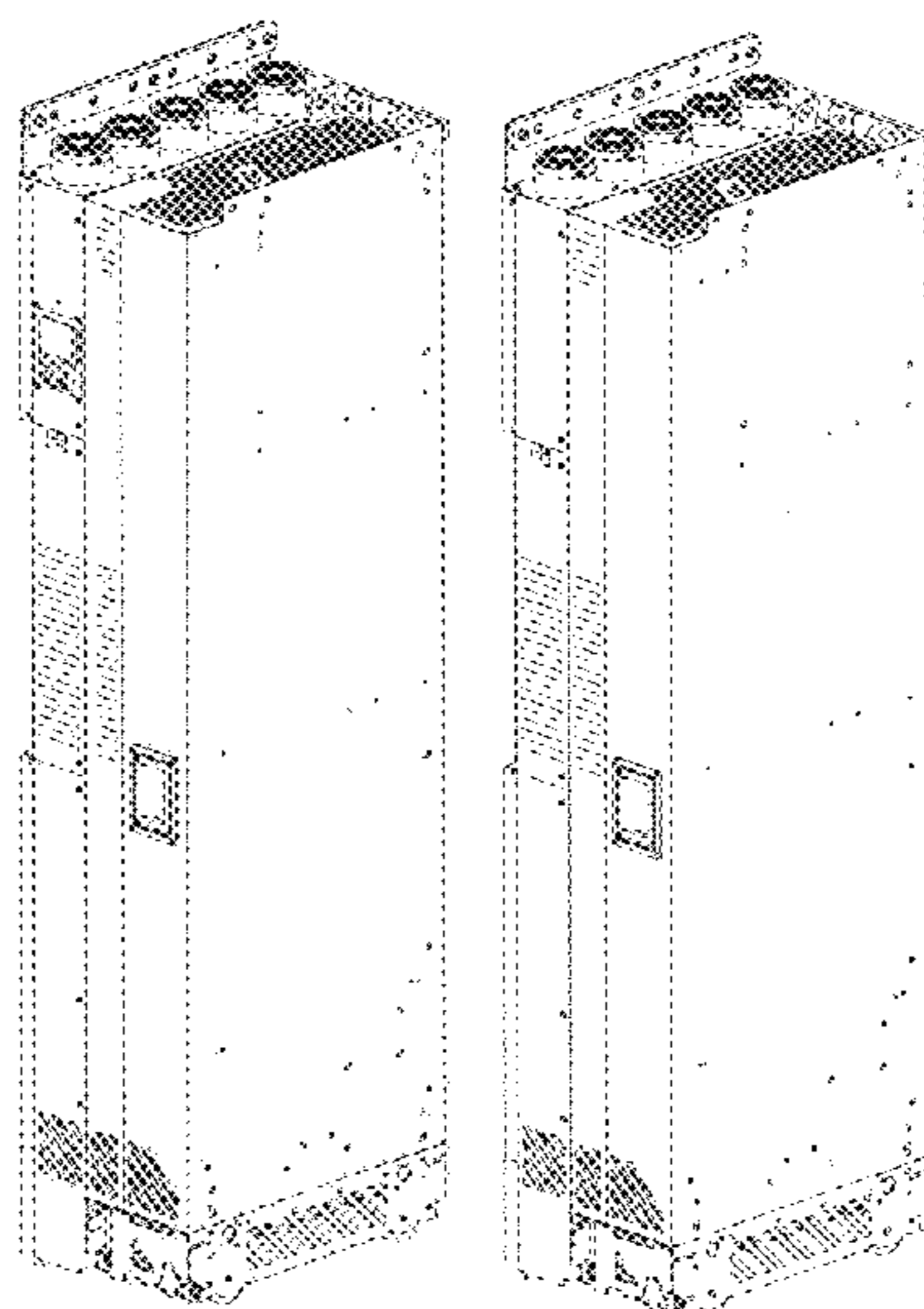
FIG. 17 is a second perspective view thereof;

FIG. 18 is a third perspective view thereof; and,

FIG. 19 is a fourth perspective view thereof.

The broken line showing of the frequency converter represents unclaimed subject matter and forms no part of the claimed design.

1 Claim, 19 Drawing Sheets



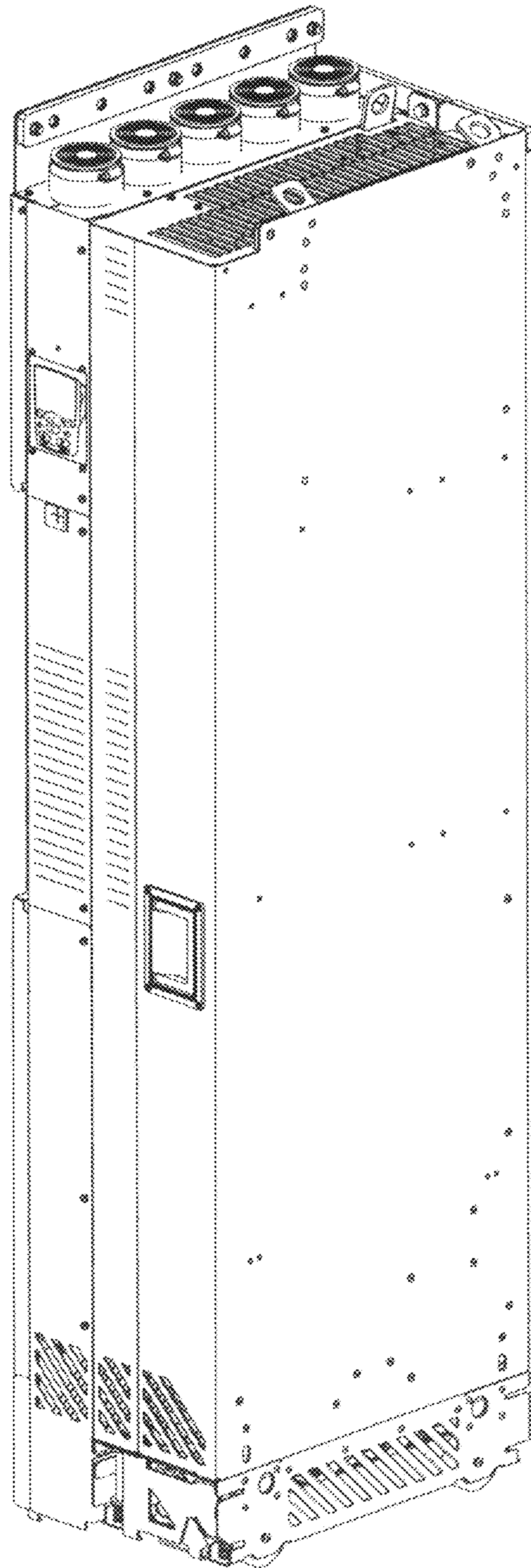


FIG. 1

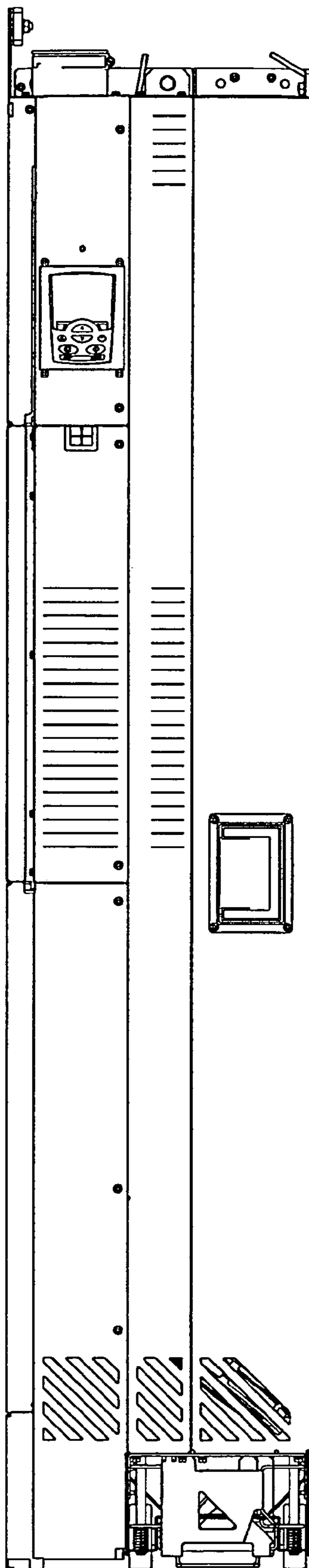


FIG. 2

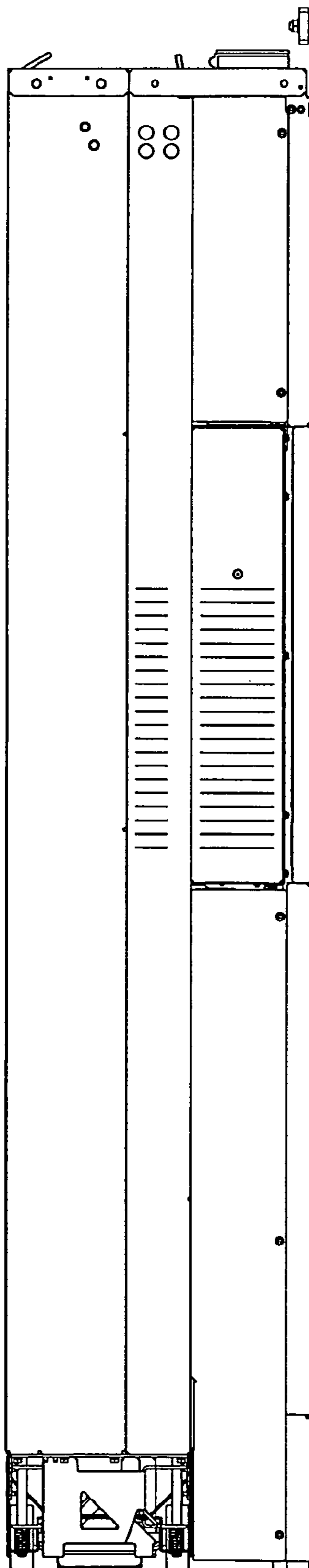


FIG. 3

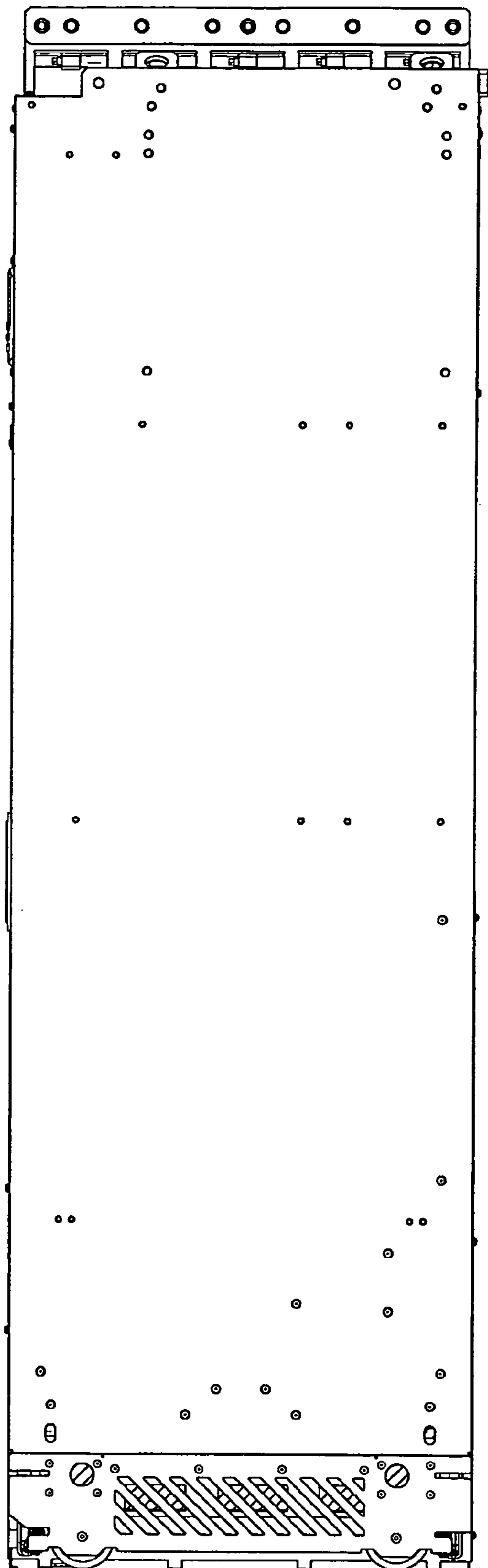


FIG. 4

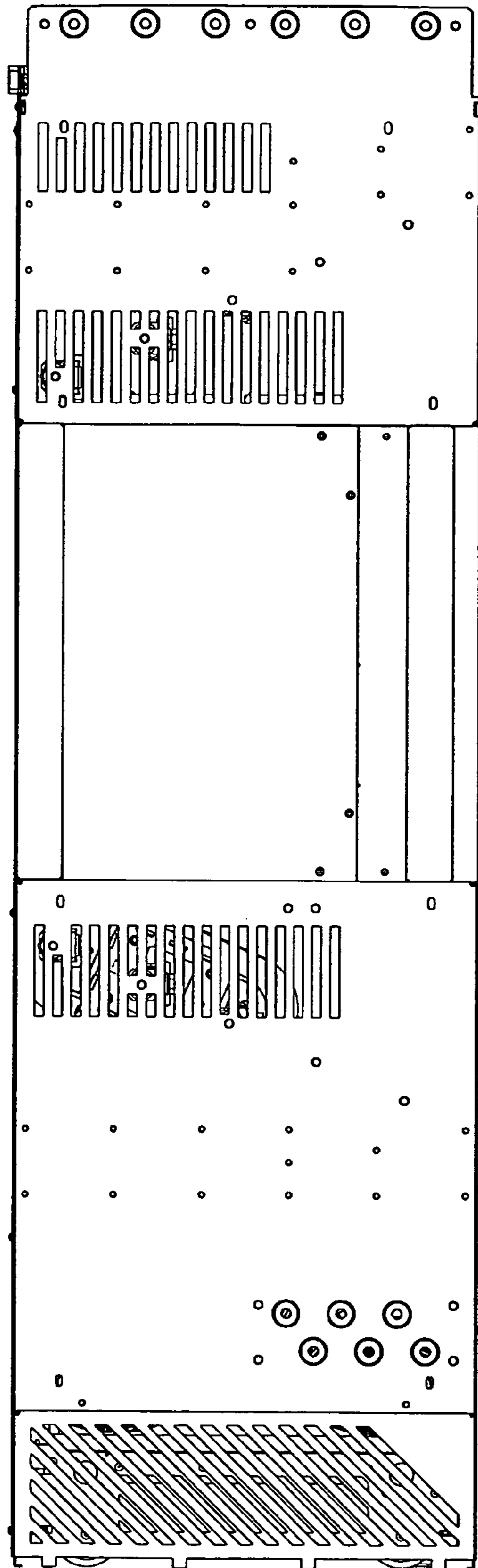


FIG. 5

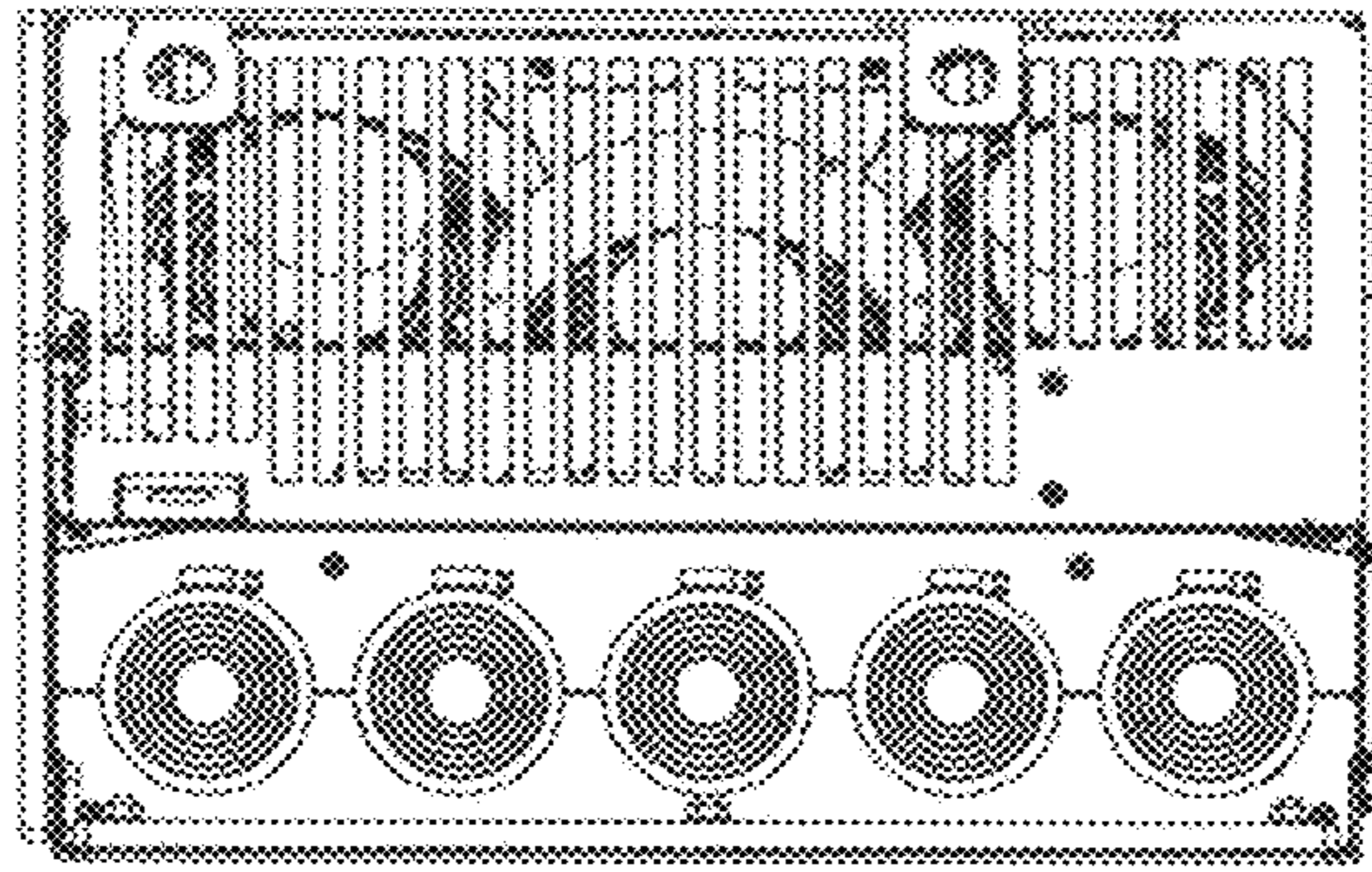


Fig. 6

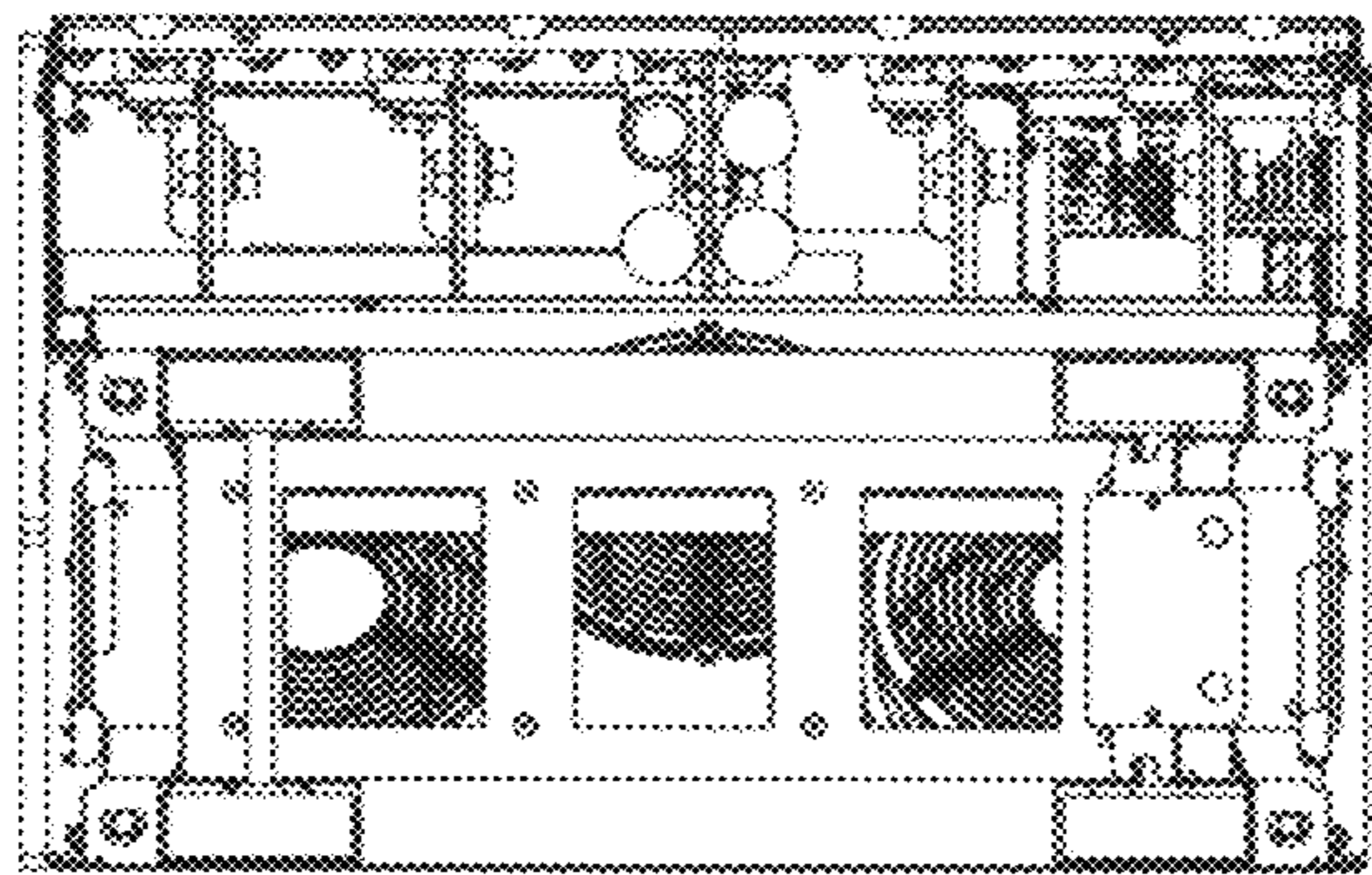


FIG. 7

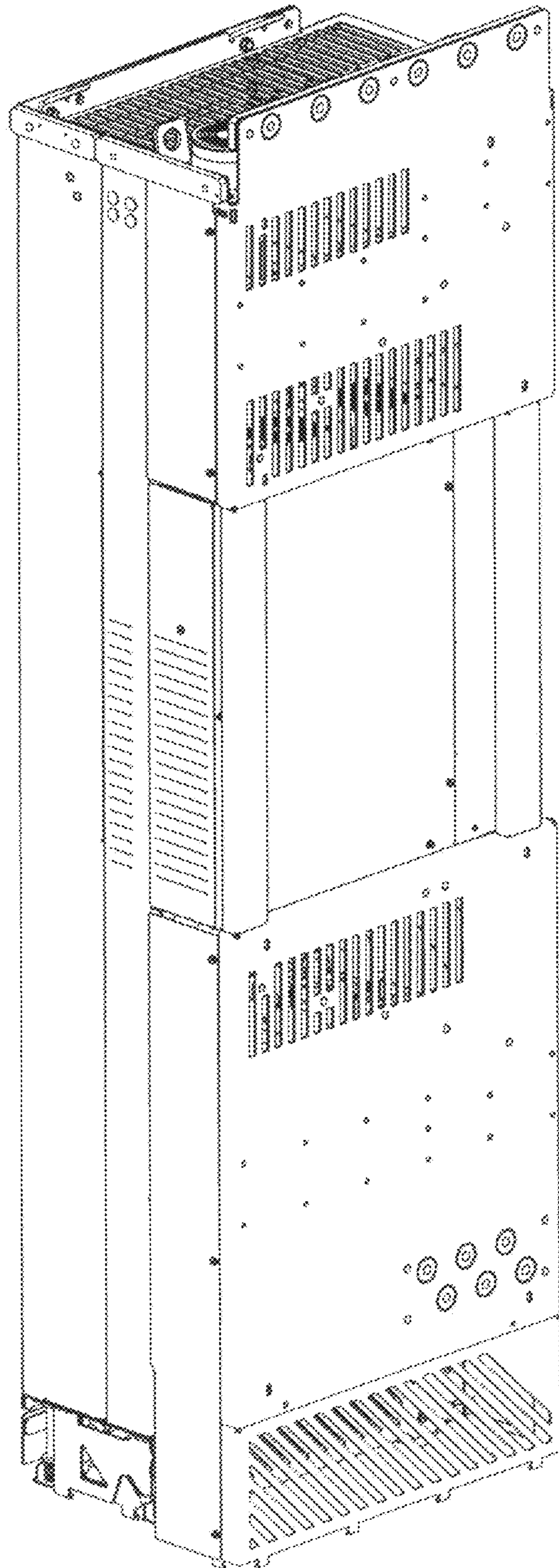


FIG. 8

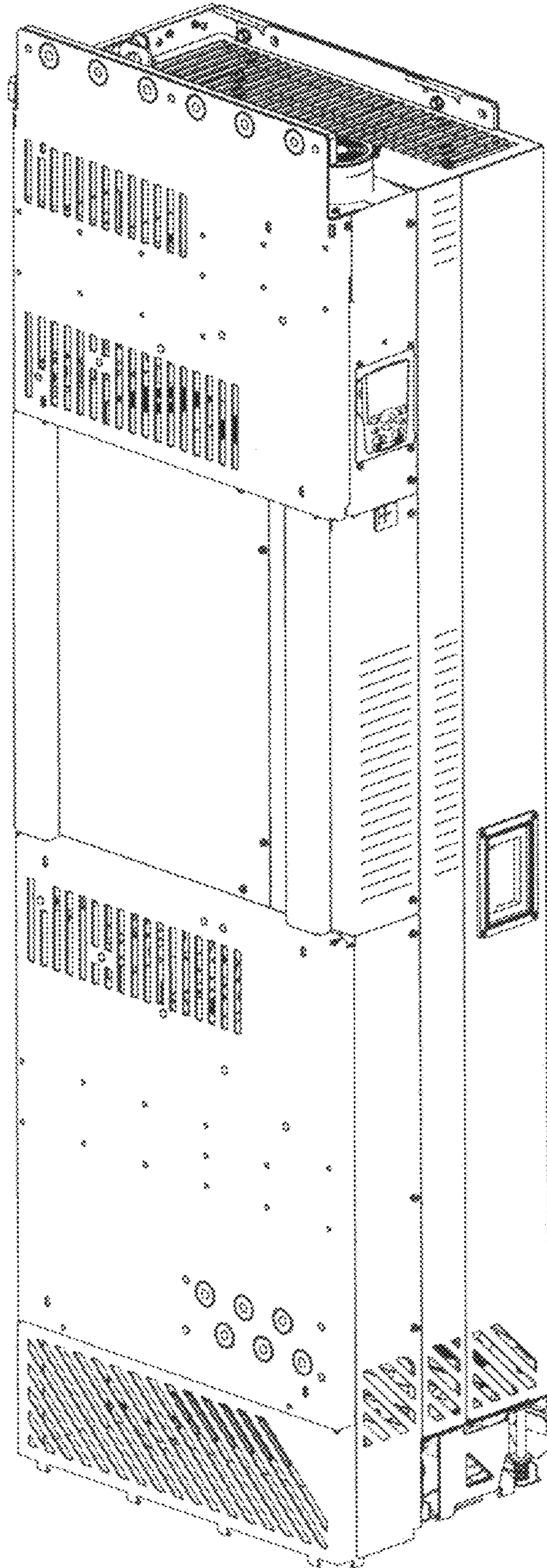


FIG. 9

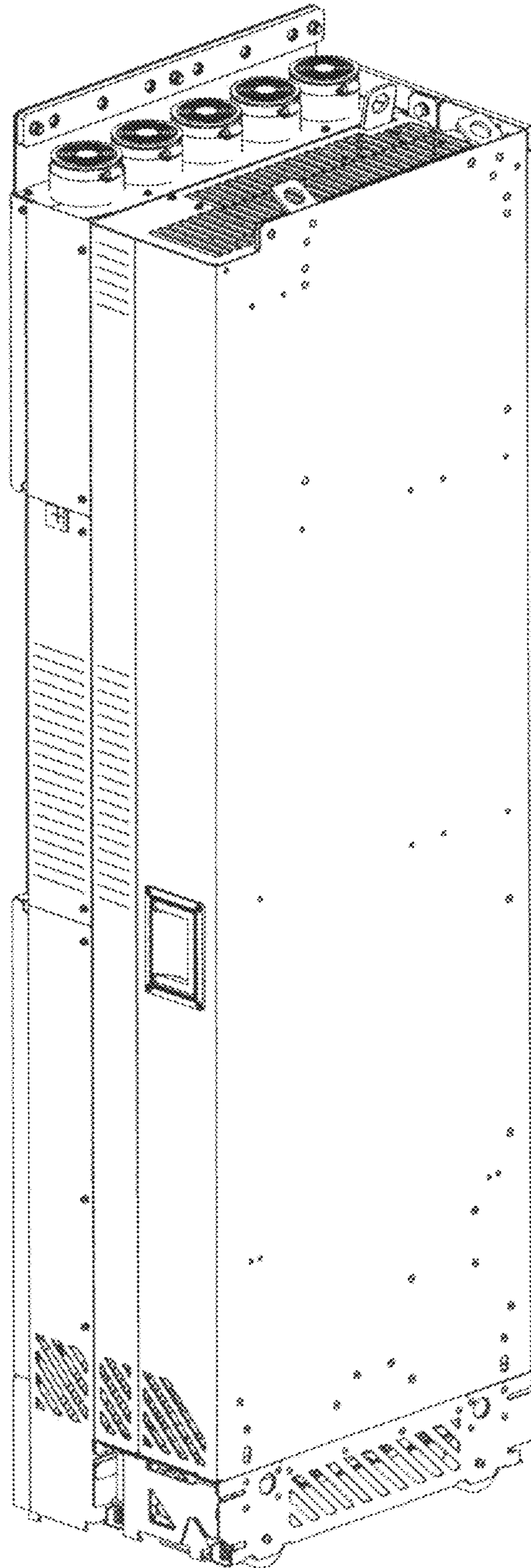


FIG. 10

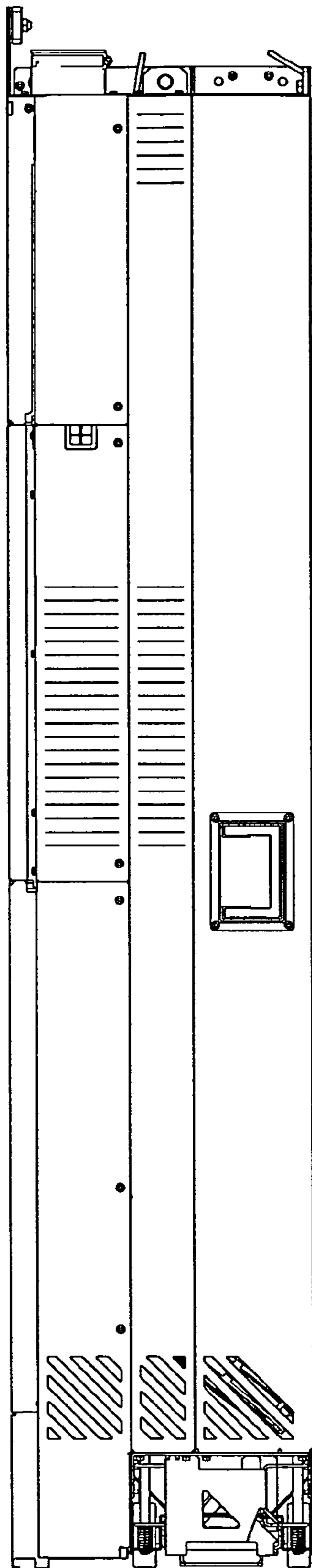


FIG. 11

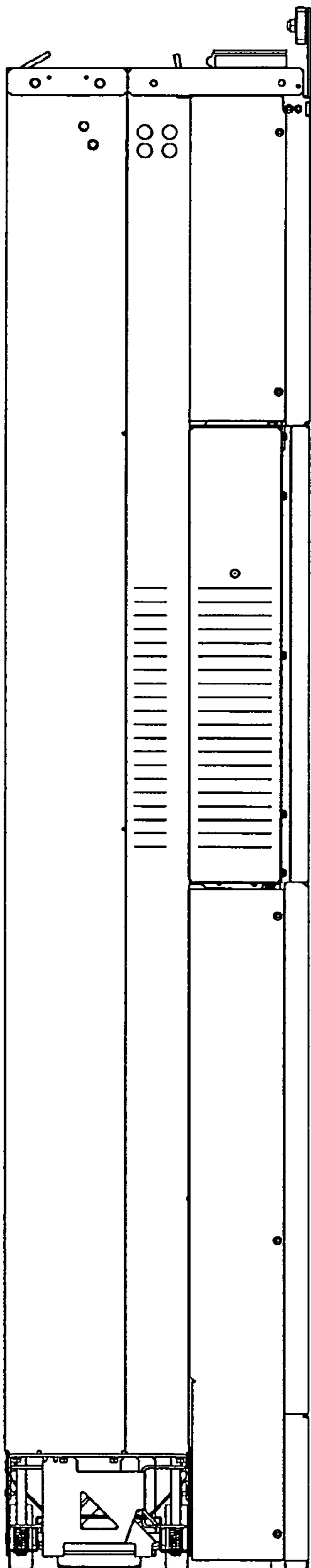


FIG. 12

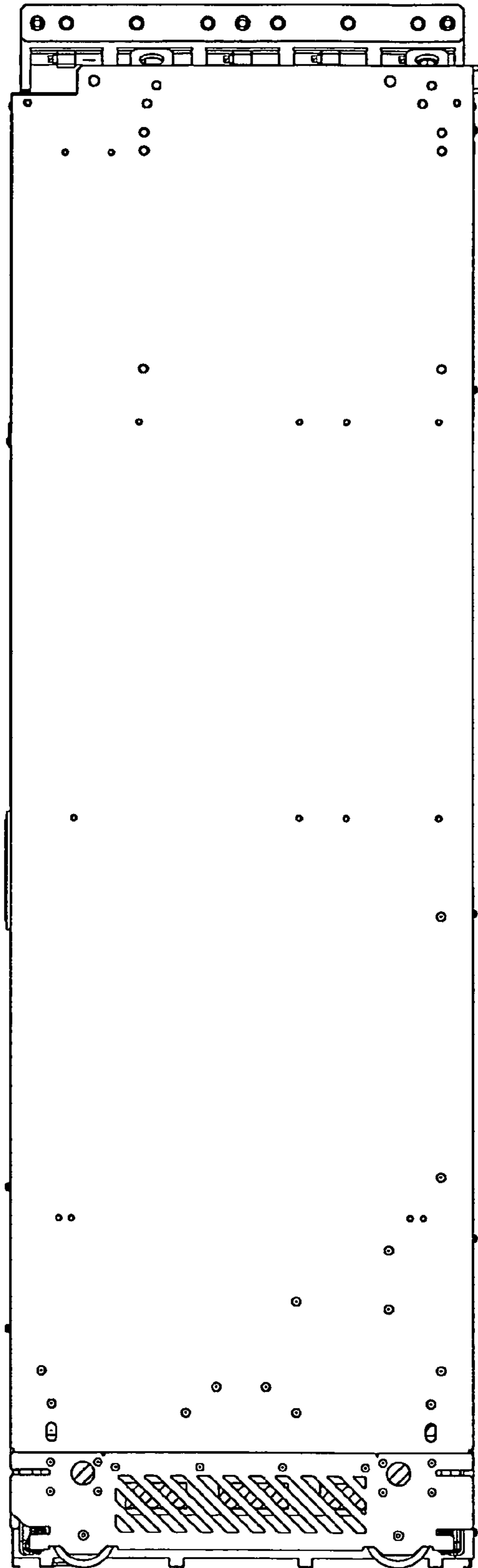


FIG. 13

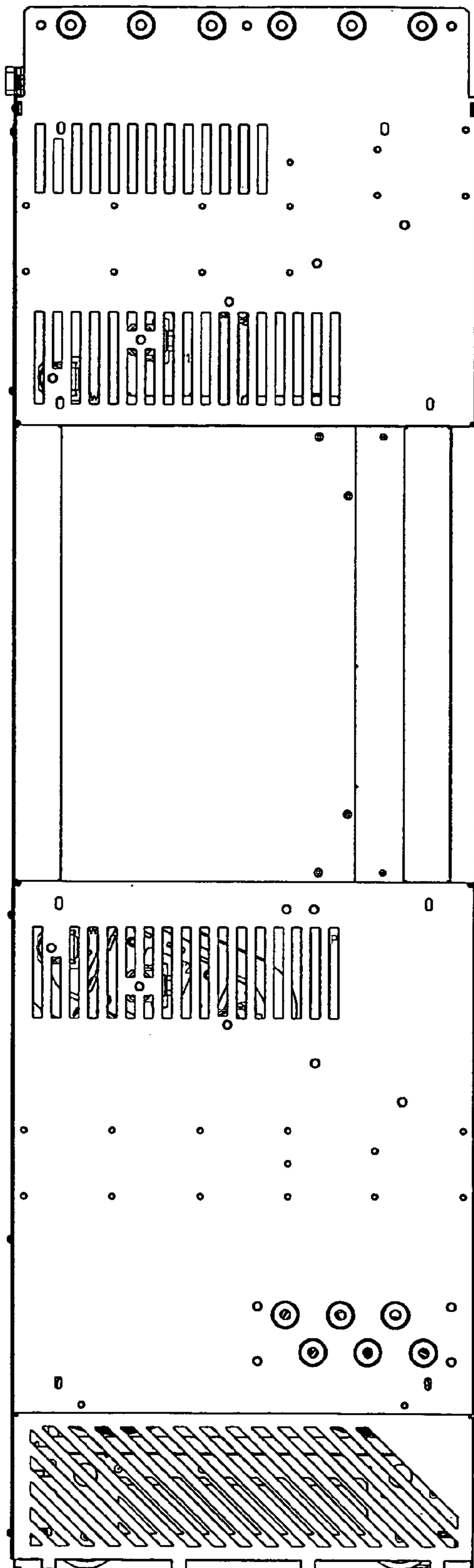


FIG. 14

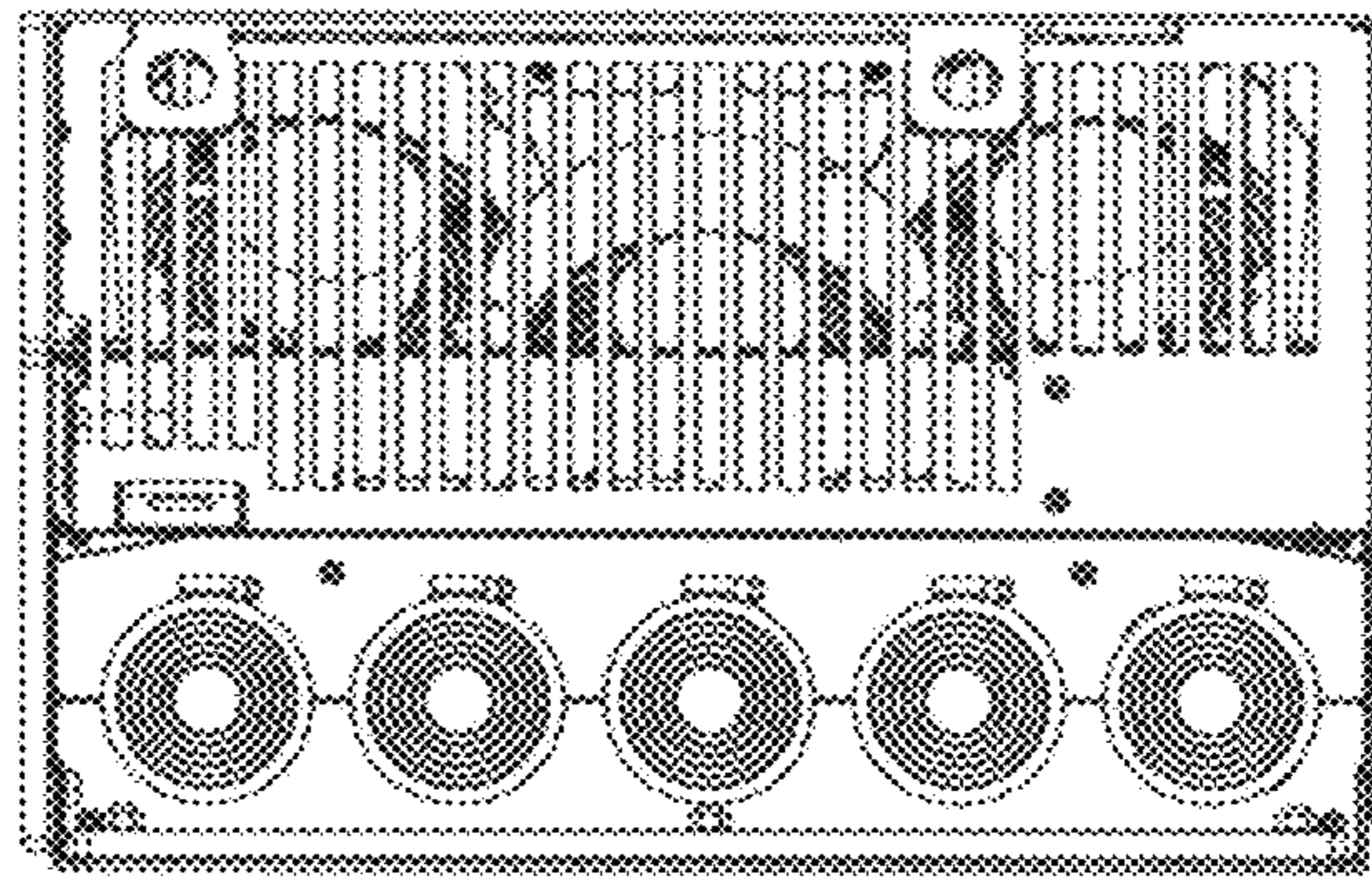


FIG. 15

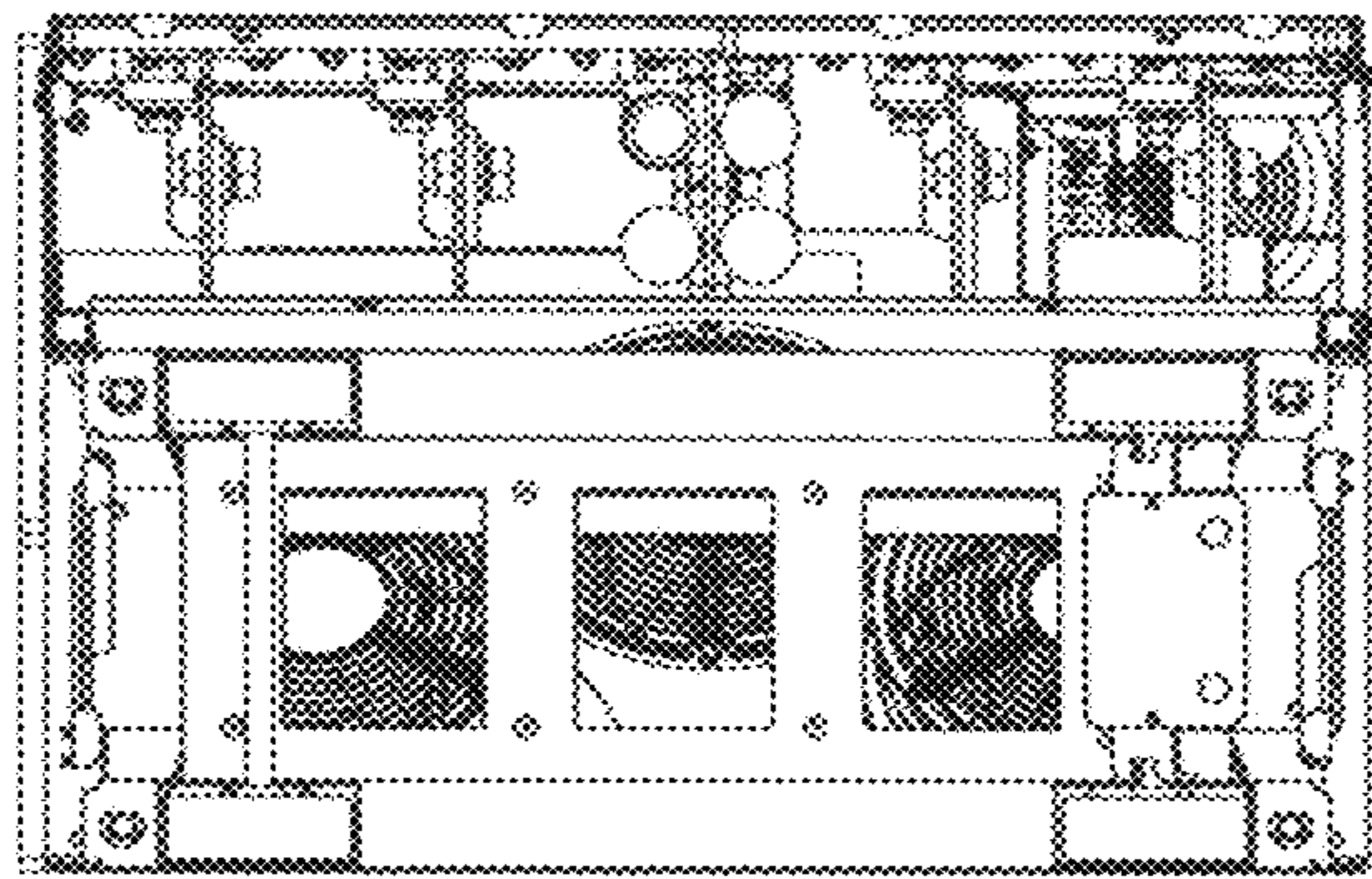


FIG. 16

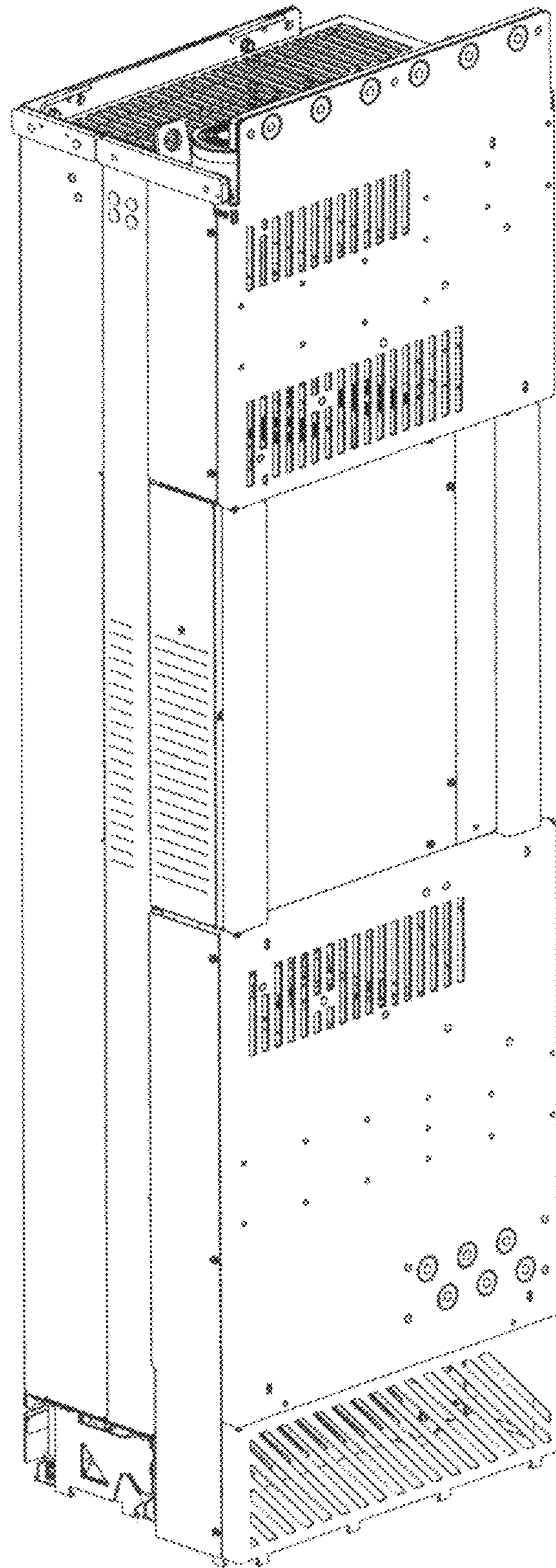


FIG. 17

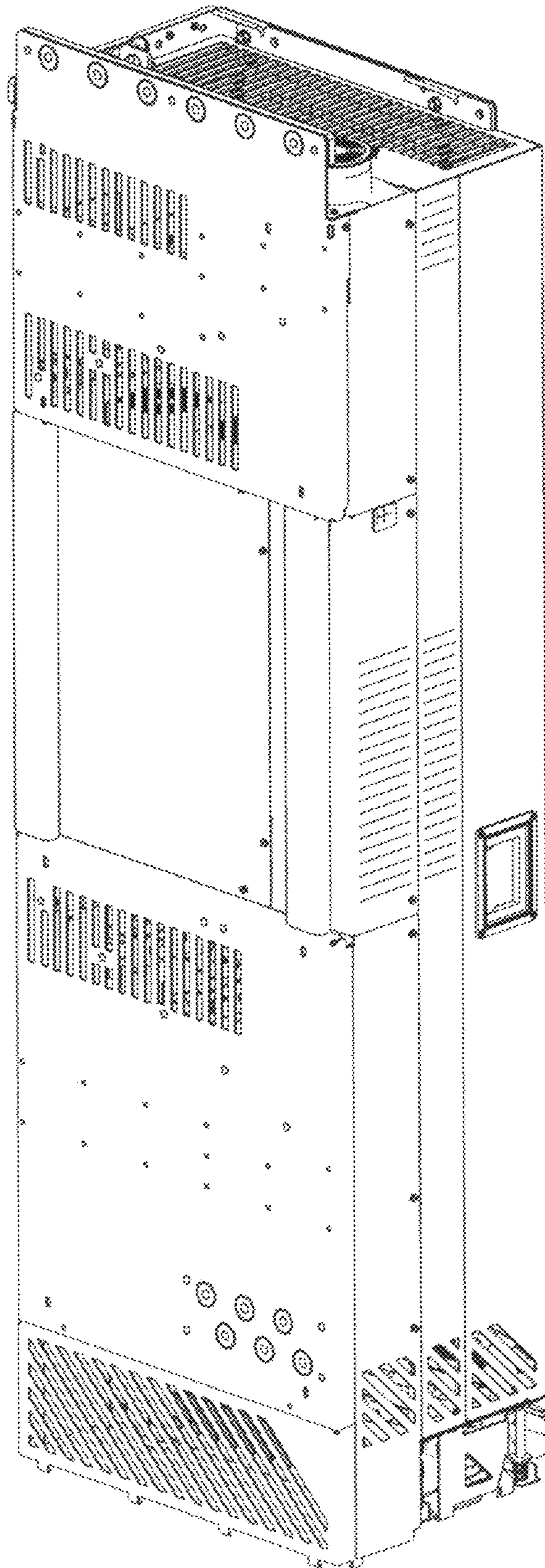


FIG. 18

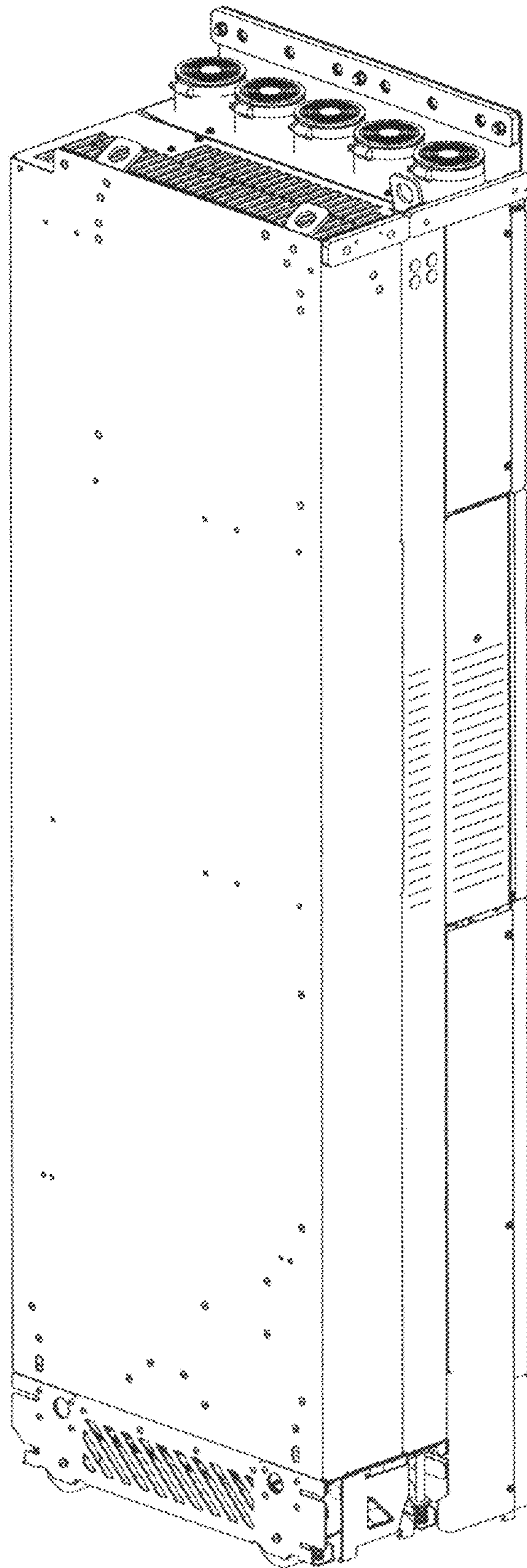


FIG. 19