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

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(54) **BATTERY MODULE**

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

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Mar. 10, 2011 (JP) 2011-005543

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

(52) **U.S. Cl.**
USPC **D13/119**

(58) **Field of Classification Search**
USPC D13/102–104, 110, 118–121, 184, 199;
429/96–100, 163, 176
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D188,421 S * 7/1960 Slutterback D13/104
4,107,402 A * 8/1978 Dougherty et al. 429/120
4,346,150 A * 8/1982 Bellows et al. 429/453
5,663,007 A * 9/1997 Ikoma et al. 429/53
5,766,801 A * 6/1998 Inoue et al. 429/99
5,798,906 A * 8/1998 Ando et al. 361/520
D400,513 S * 11/1998 Seirio D13/184
D409,140 S * 5/1999 Endo D13/119
D413,859 S * 9/1999 Ido et al. D13/103
6,130,003 A * 10/2000 Etoh et al. 429/99
6,312,851 B1 * 11/2001 Fukuda et al. 429/176
D466,076 S * 11/2002 Nagashima et al. D13/110
D567,759 S * 4/2008 Grad et al. D13/110

D584,251 S * 1/2009 Lewis et al. D13/184
D584,252 S * 1/2009 Lewis et al. D13/184
7,686,853 B2 * 3/2010 Seman et al. 29/623.1
7,820,319 B2 * 10/2010 Mehta et al. 429/99
D657,739 S * 4/2012 Miyawaki et al. D13/104
D658,579 S * 5/2012 Miyawaki et al. D13/104

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(57) **CLAIM**

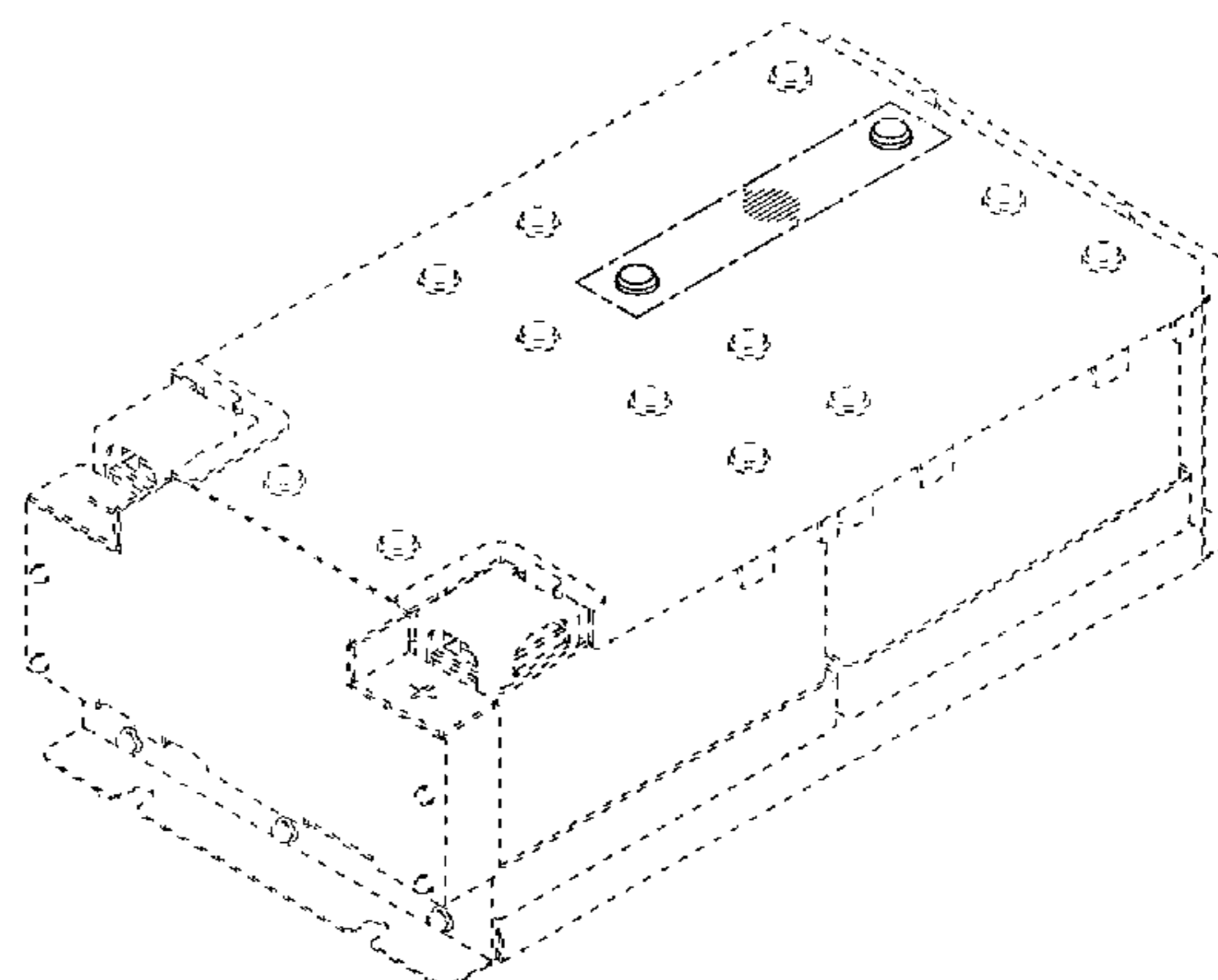
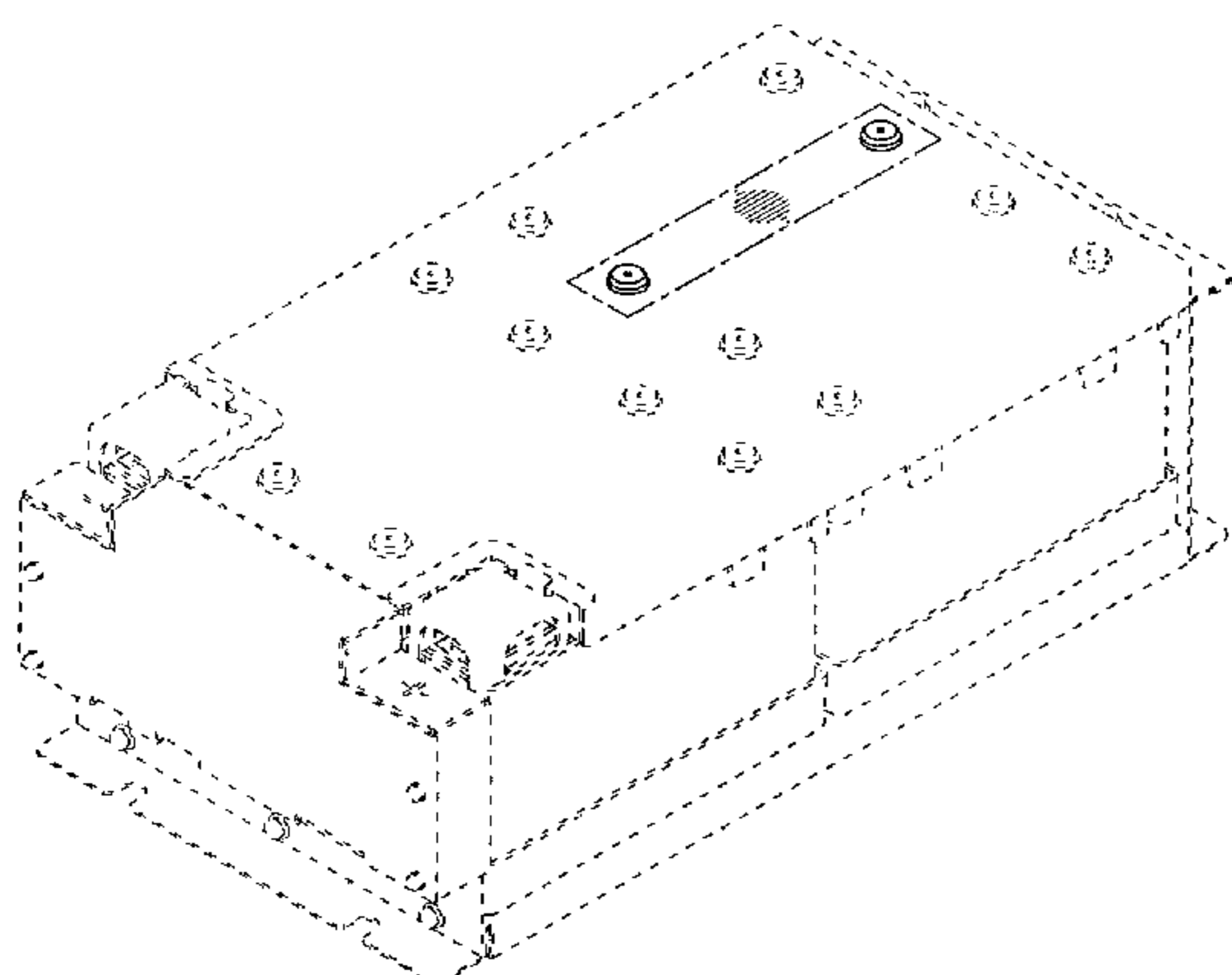
The ornamental design for a battery module, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a battery module 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 view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom plan view thereof;
FIG. 8 is an exploded top perspective view thereof;
FIG. 9 is a perspective view of a battery module showing a second embodiment of our new design;
FIG. 10 is a front elevational view thereof;
FIG. 11 is a rear elevational view thereof;
FIG. 12 is a left side view thereof;
FIG. 13 is a right side view thereof;
FIG. 14 is a top plan view thereof; and,
FIG. 15 is a bottom plan view thereof; and,
FIG. 16 is an exploded top perspective view thereof.

In the drawings, the broken lines defining portions of the battery module depict environmental subject matter that forms no part of the claimed design. The dash-dot lines represent the boundary between the claimed portions of the battery module and the unclaimed portions of the battery module.

1 Claim, 12 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

8,168,316 B2 * 5/2012 Wu 429/99
D669,850 S * 10/2012 Morisawa D13/103
D670,240 S * 11/2012 Morisawa D13/103
D673,905 S * 1/2013 Sano et al. D13/103

D673,906 S * 1/2013 Sano et al. D13/103
D673,907 S * 1/2013 Sano et al. D13/103
8,377,584 B2 * 2/2013 Suzuki 429/158
D678,185 S * 3/2013 Horiuchi et al. D13/103
D678,186 S * 3/2013 Horiuchi et al. D13/103
2012/0094162 A1 * 4/2012 Gyenes 429/97

* cited by examiner

Fig. 1

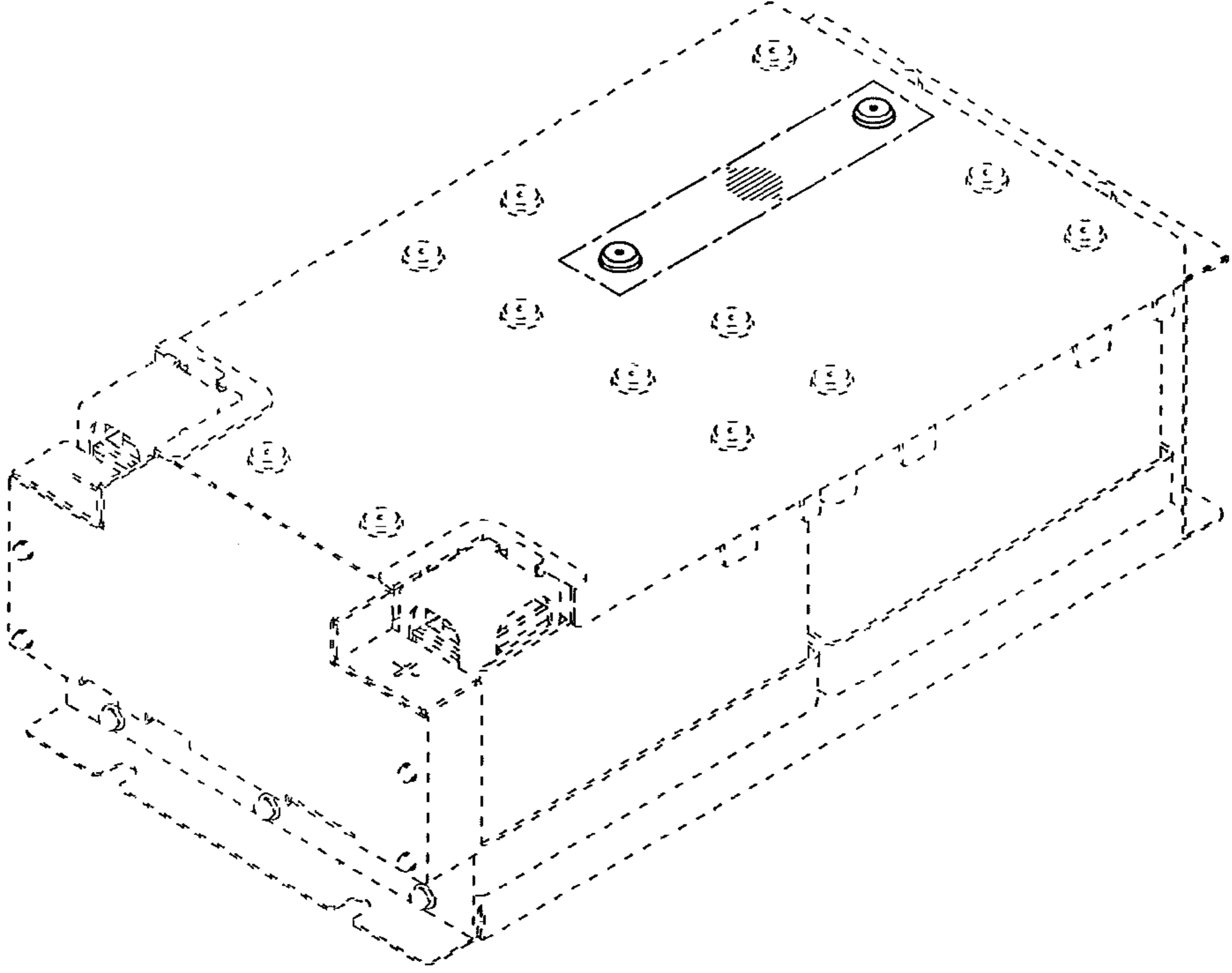


Fig. 2

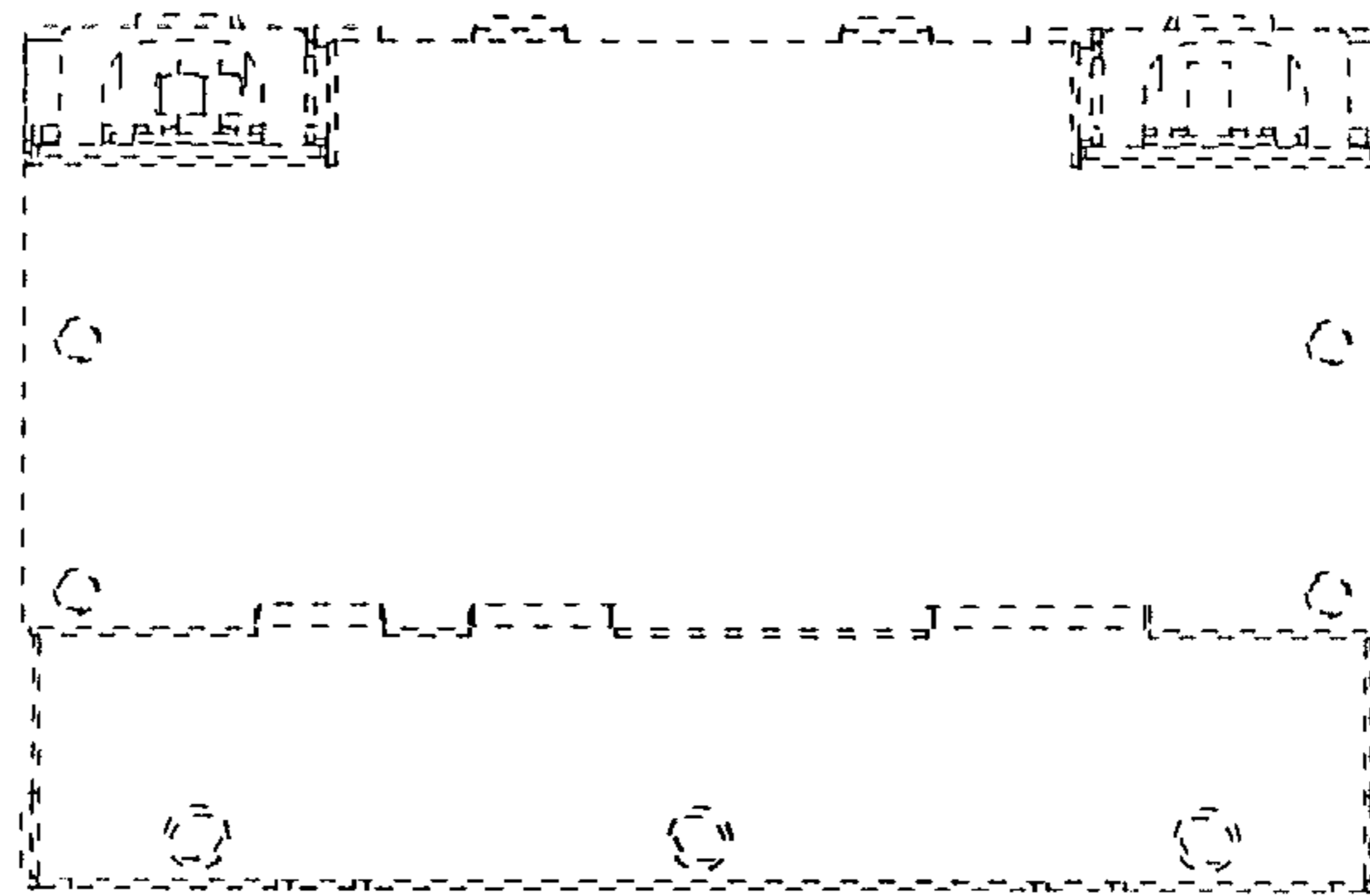


Fig. 3

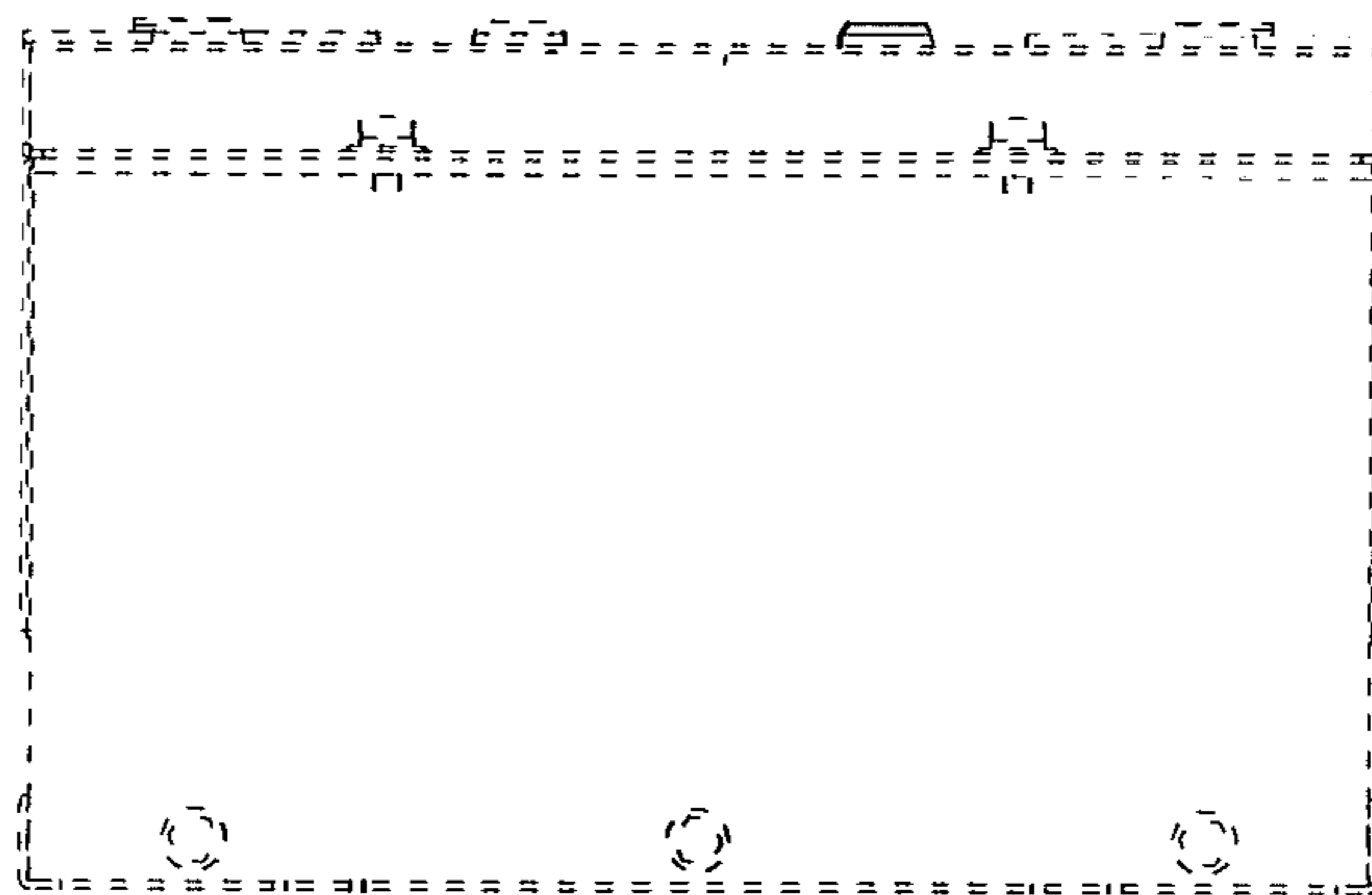


Fig. 4

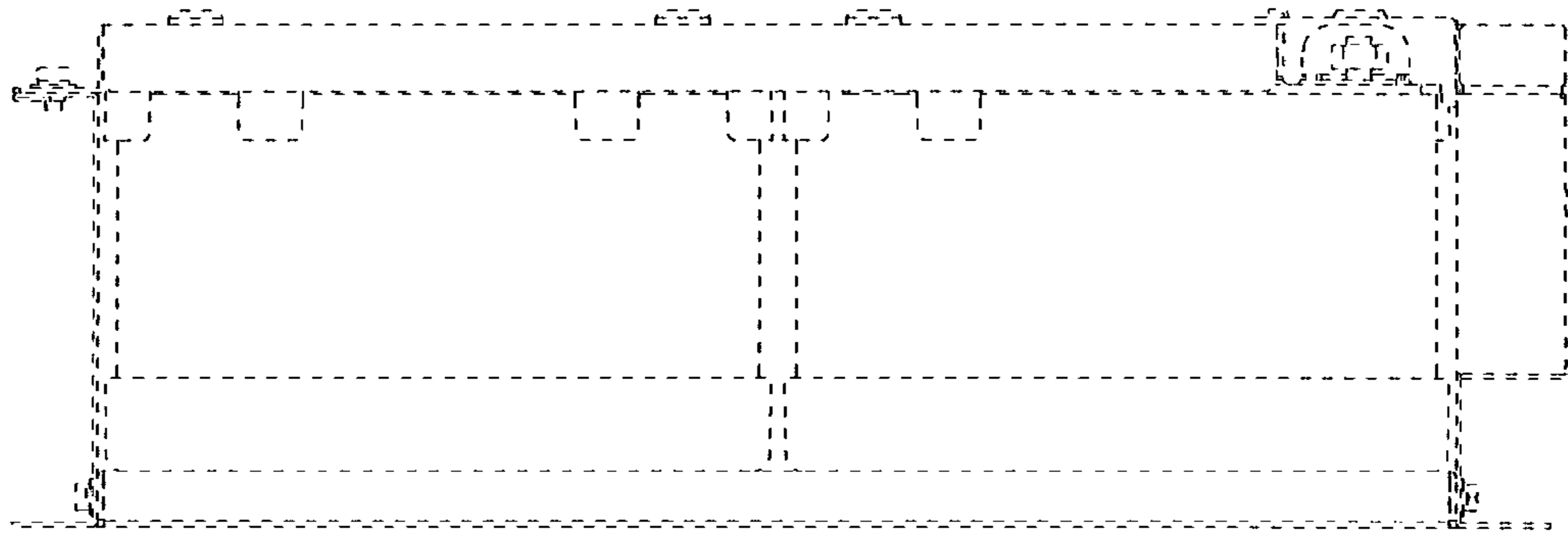


Fig. 5

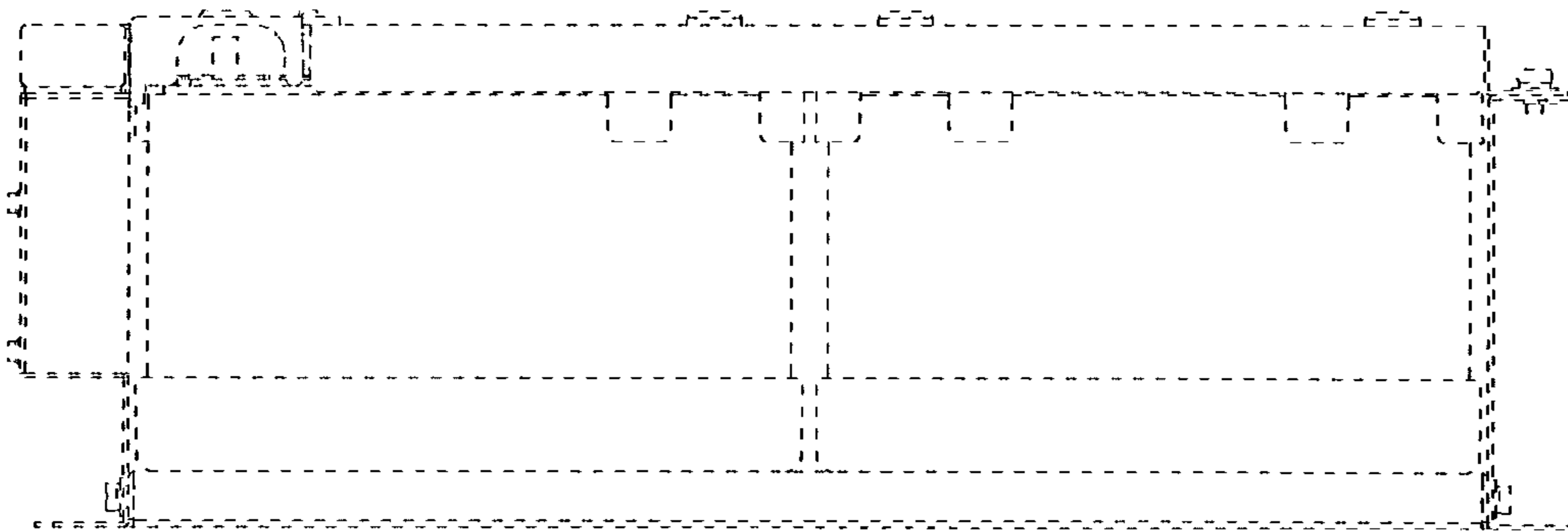


Fig. 6

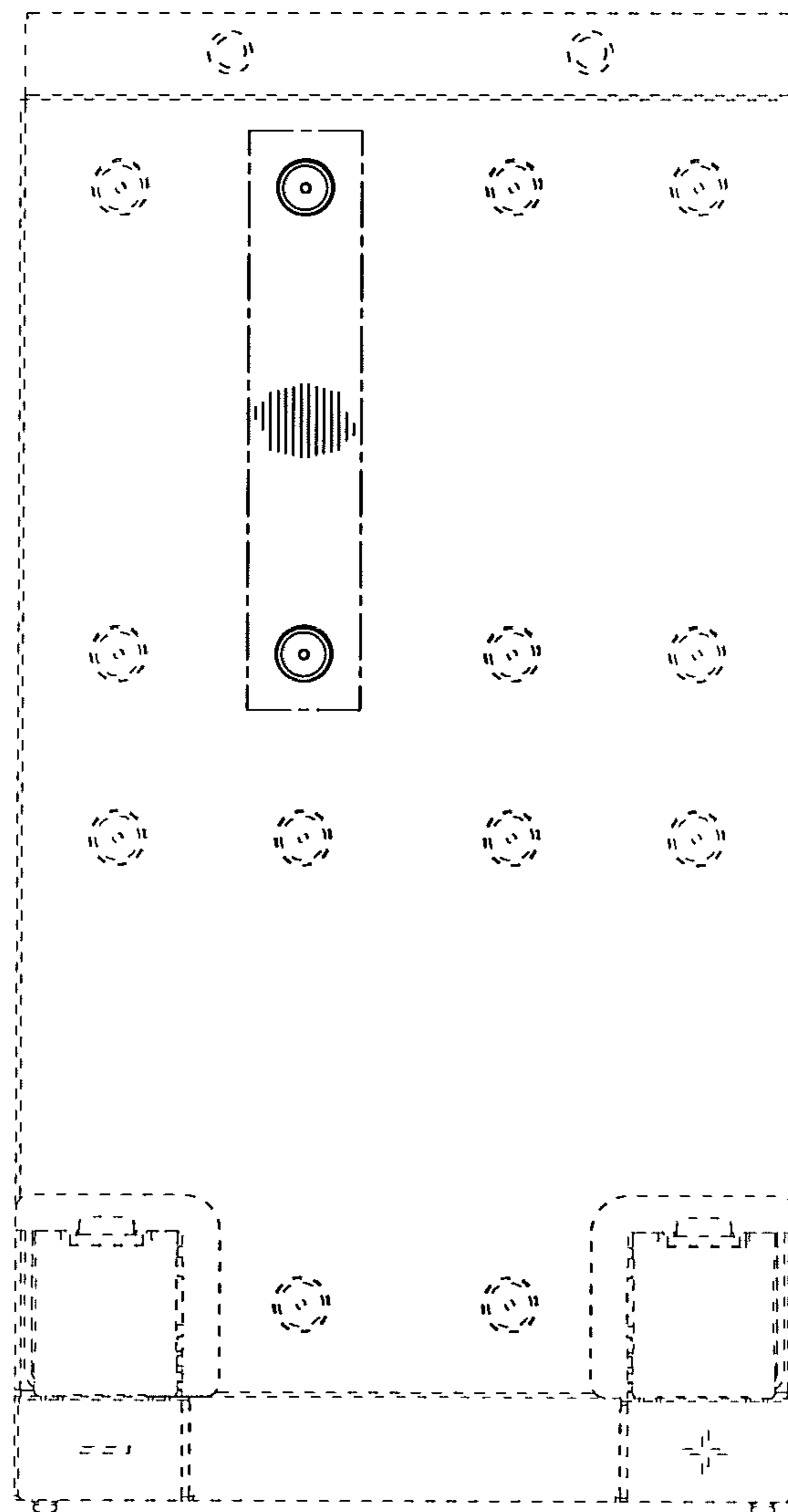


Fig. 7

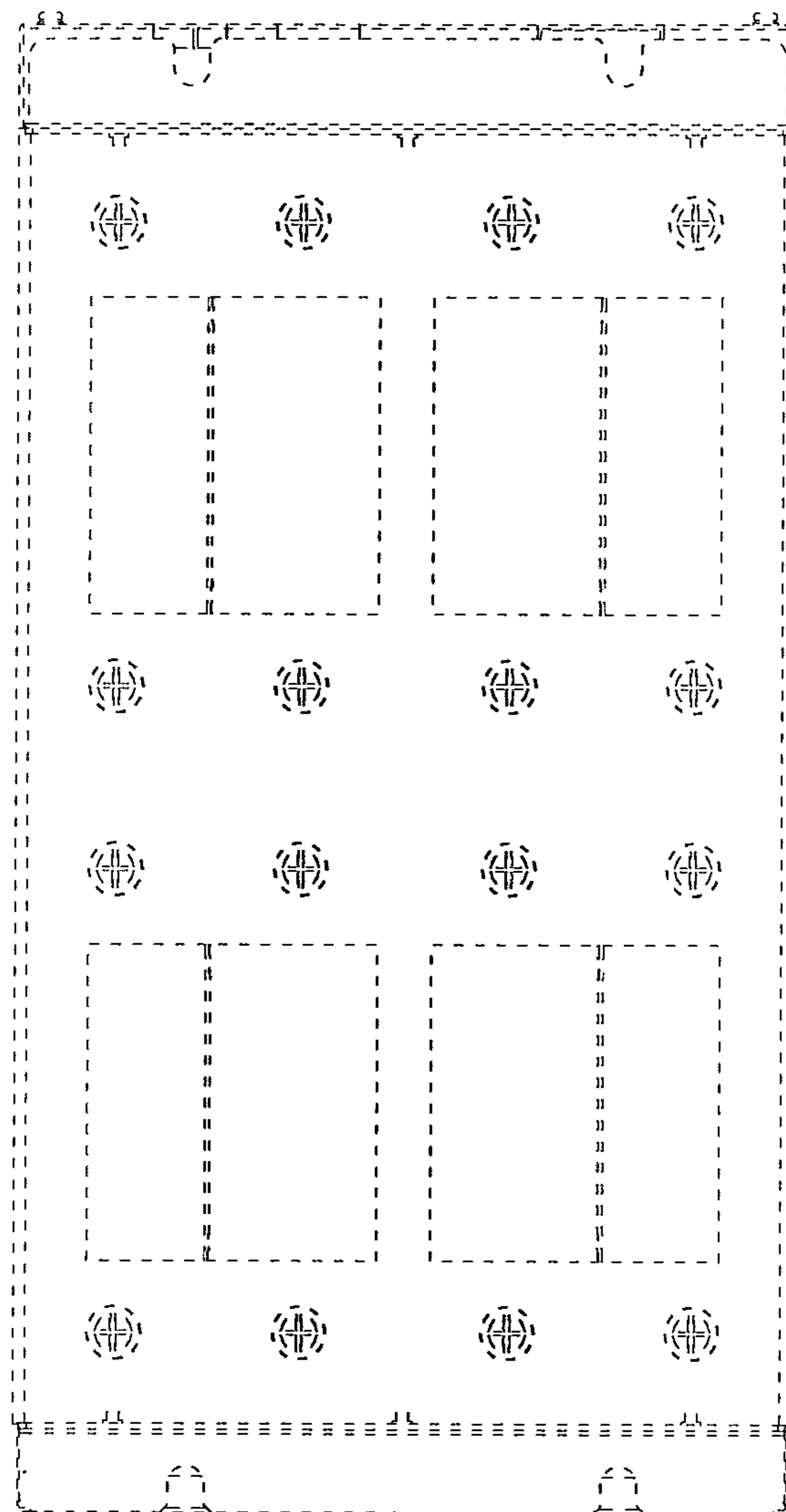


Fig. 8

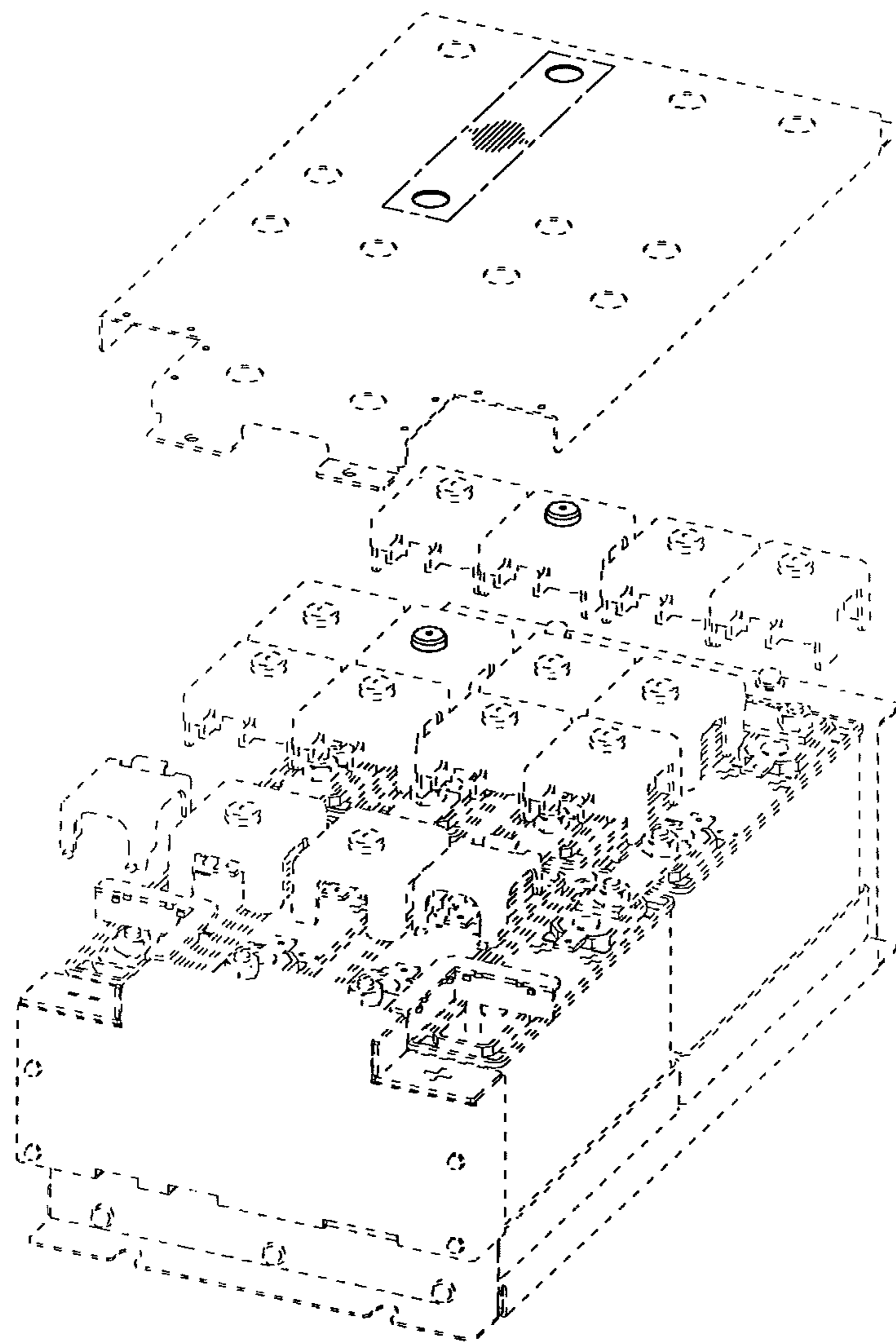


Fig. 9

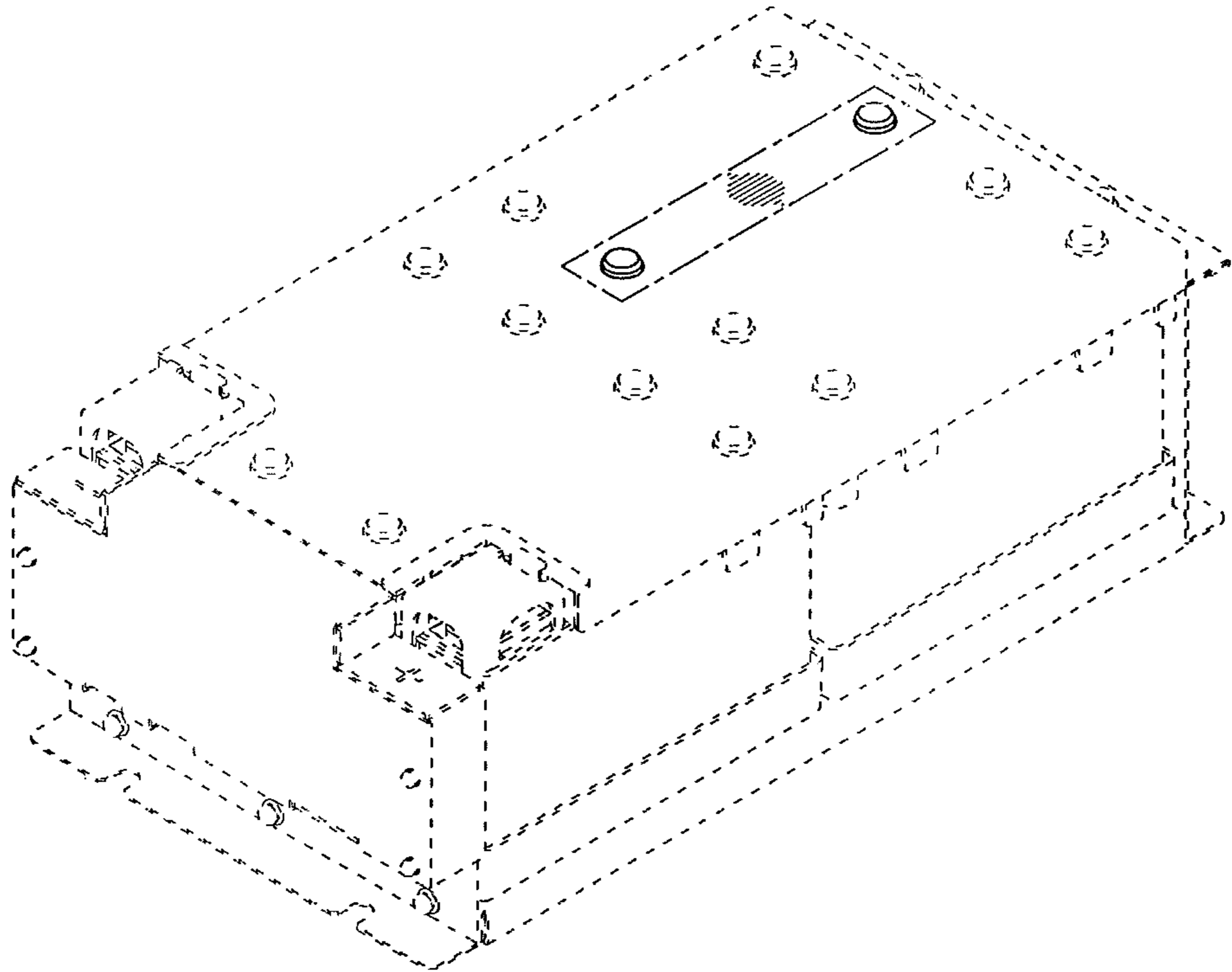


Fig. 10

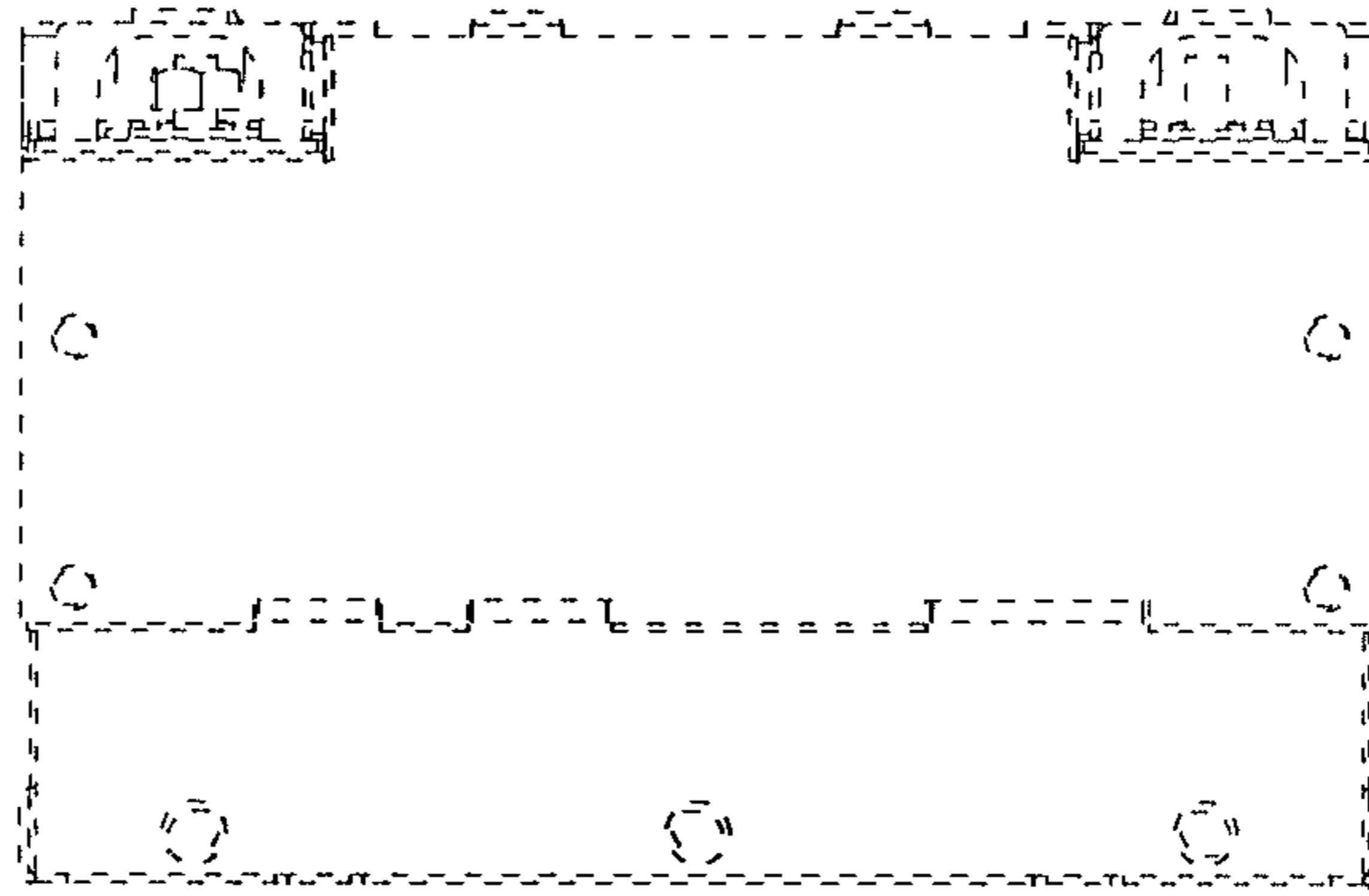


Fig. 11

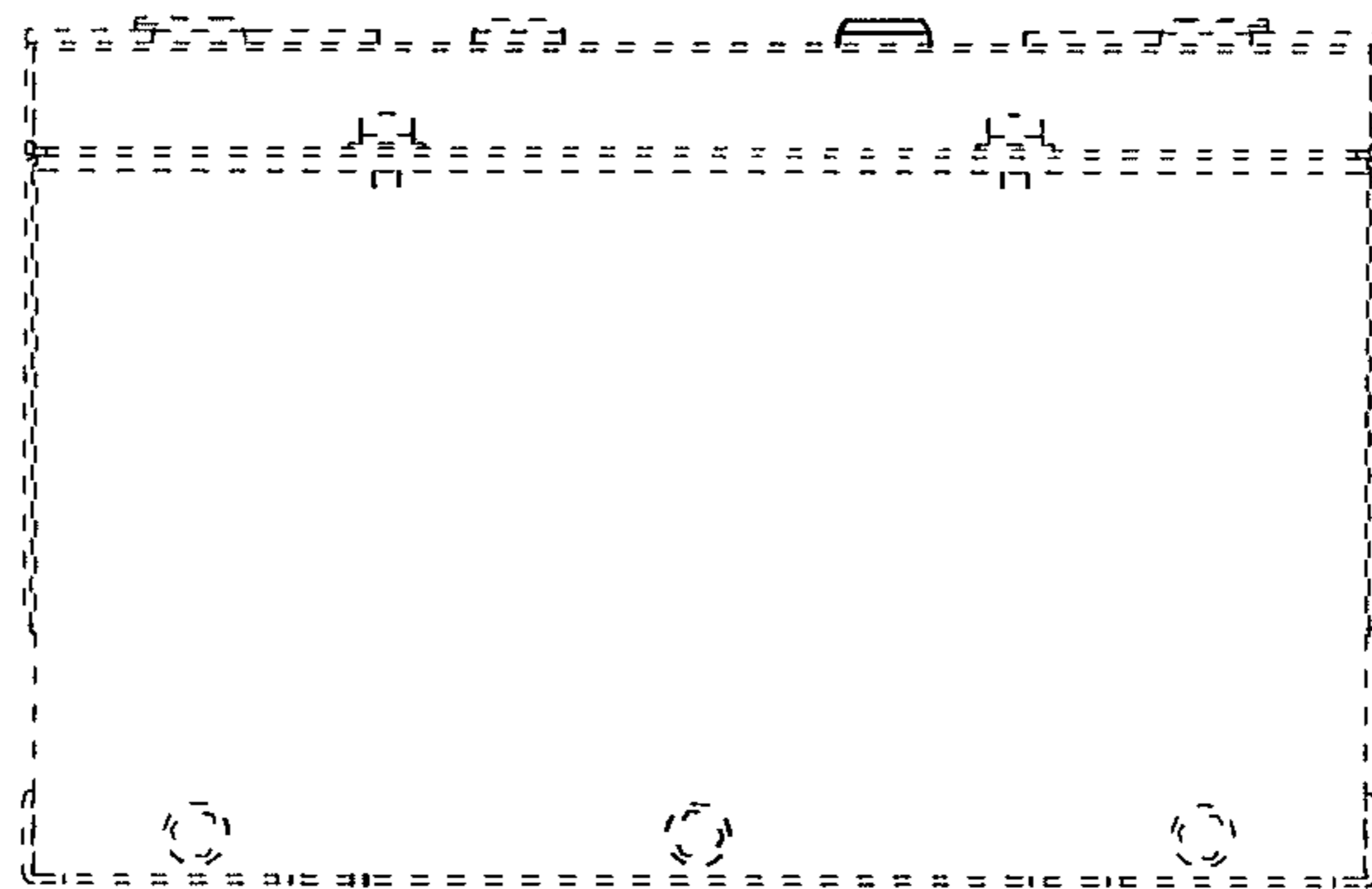


Fig. 12

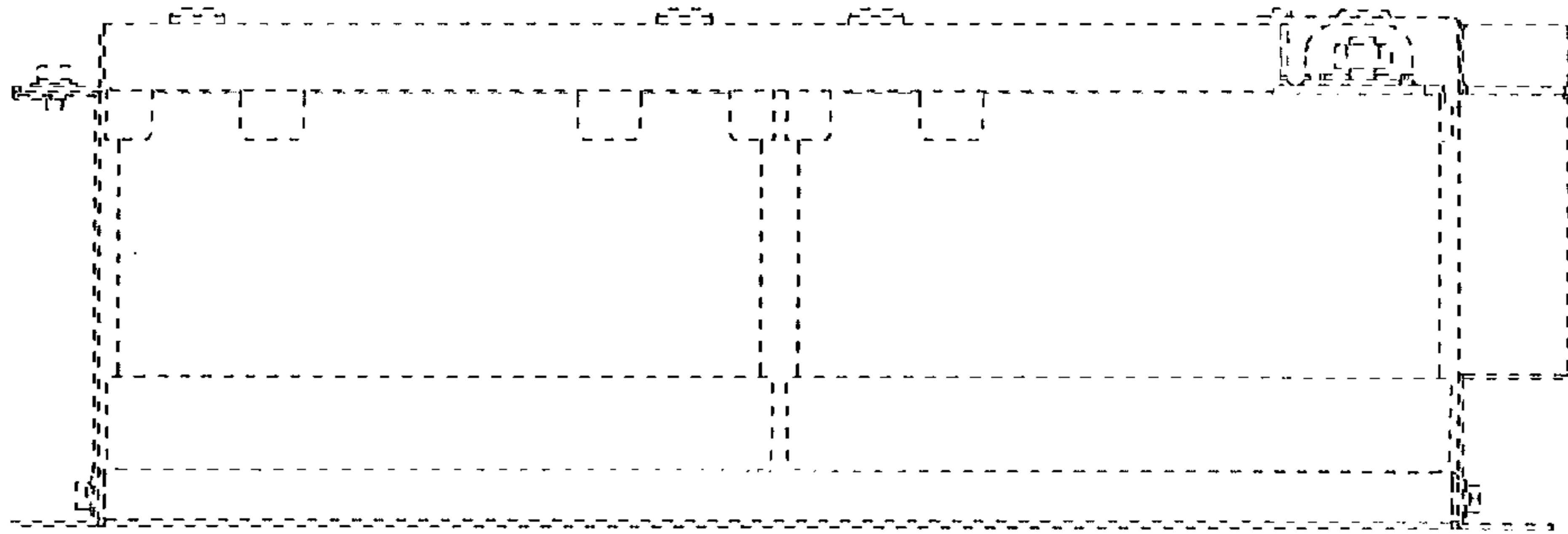


Fig. 13

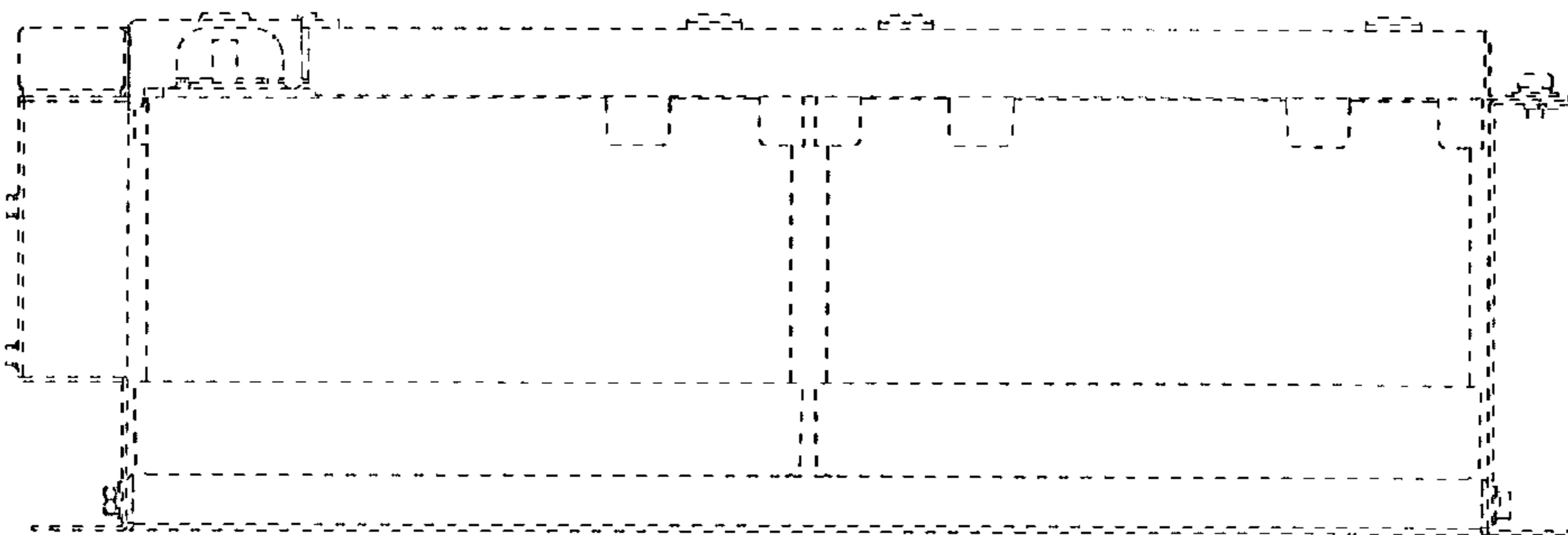


Fig. 14

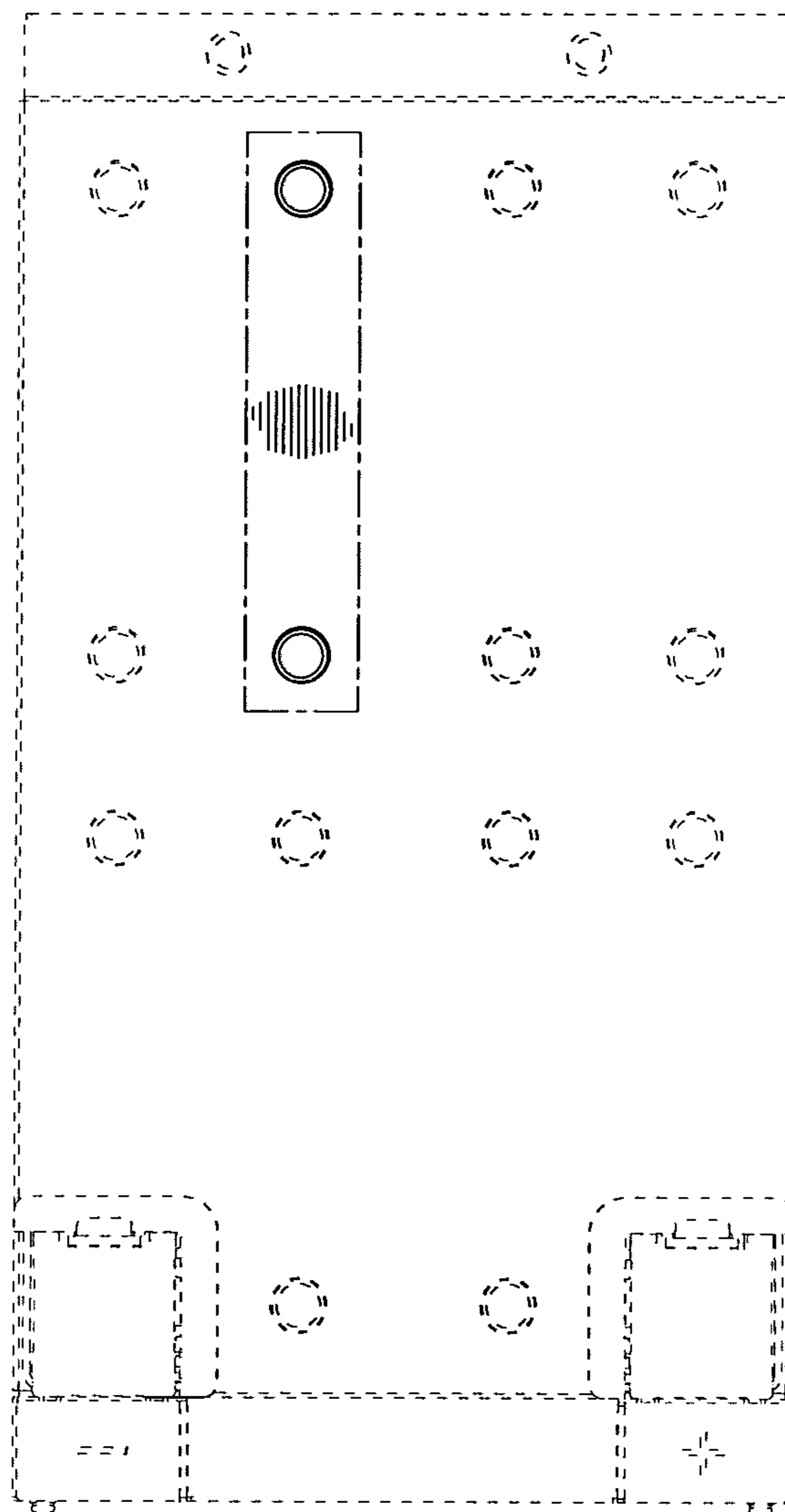


Fig. 15

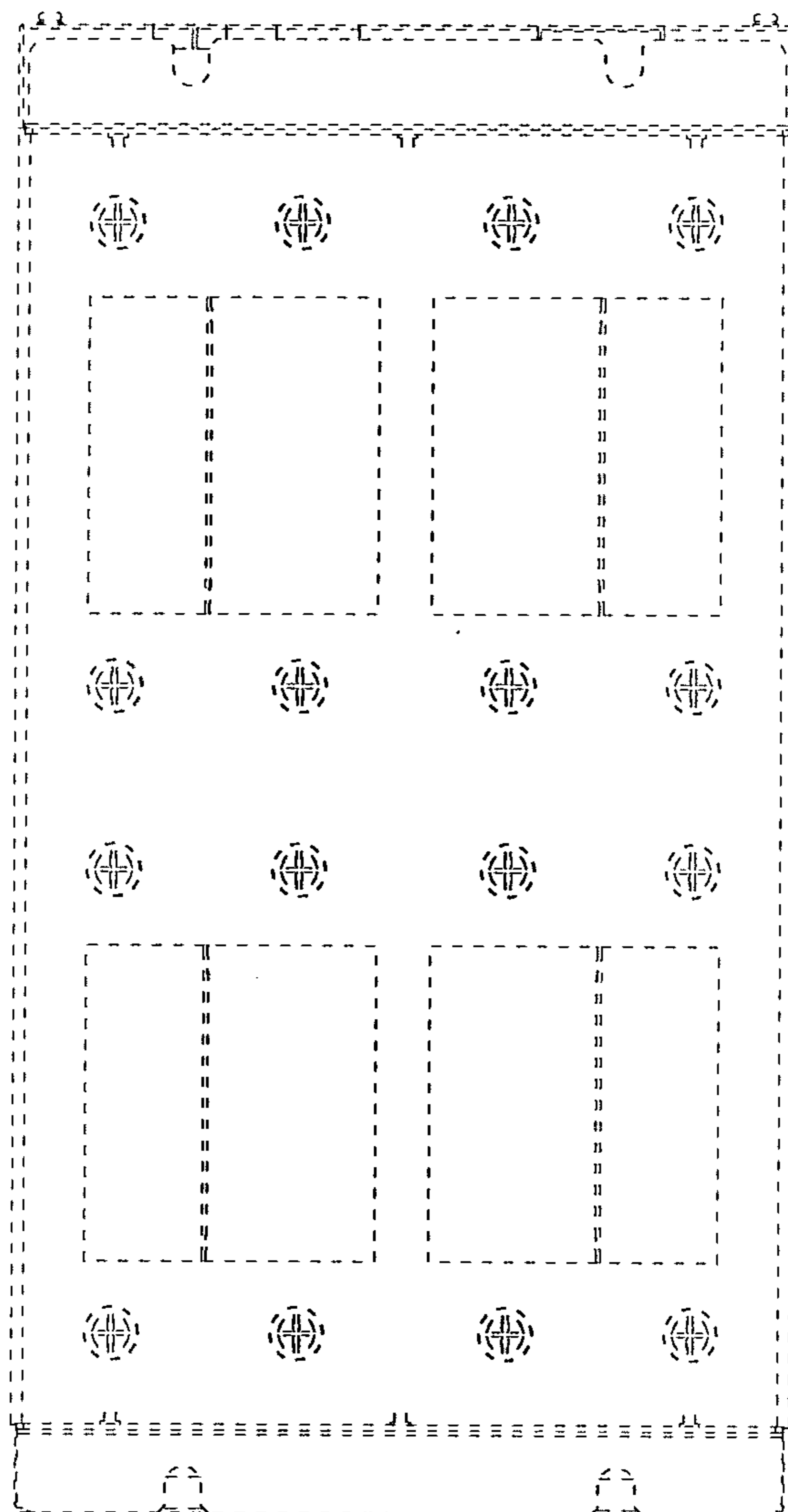


Fig. 16

