



US00D815605S

(12) **United States Design Patent** (10) **Patent No.:** **US D815,605 S**
Yoneda (45) **Date of Patent:** **** Apr. 17, 2018**

(54) **SOLID STATE RELAY**

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(73) Assignee: **OMRON Corporation**, Kyoto (JP)

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

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(30) **Foreign Application Priority Data**

Feb. 29, 2016 (JP) 2016-004444

(51) **LOC (11) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/159**

(58) **Field of Classification Search**

USPC D13/100, 103, 110, 112, 118, 123,
D13/158-162, 173, 179, 182, 184, 199

CPC H01H 9/342; H01H 47/00; H01H 50/045;
H01H 50/546; H01H 71/08; H01R 12/24;
H02H 3/00; H02H 3/093; H03K 17/68;
H03K 17/78; H05K 5/02; H05K 5/20

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D211,029 S *	5/1968	Ettinger et al.	D13/118
D329,639 S *	9/1992	Arvanitakis	D13/133
5,742,015 A *	4/1998	Moldovan	H01H 9/34 218/1
D403,666 S *	1/1999	Maack	D13/179
D569,350 S *	5/2008	Konagata	D13/159
D593,961 S *	6/2009	Ball	D13/158
D619,969 S *	7/2010	Apfelbacher	D13/159
D661,253 S *	6/2012	Grunwald	D13/123
D695,681 S *	12/2013	Nam	D13/103
2005/0241388 A1 *	11/2005	Morisawa	G01F 1/6842 73/204.22

2007/0134976 A1 * 6/2007 Fujimoto H01L 23/3677
439/495

2017/0207584 A1 * 7/2017 Abe H01R 13/71
2017/0287657 A1 * 10/2017 Naka H01H 13/14

OTHER PUBLICATIONS

OMRON G3PE, dated Nov. 23, 2014, [online], [site visited Jan. 4, 2018]. Available from Internet, <URL: <http://www.ia.omron.com:80/products/family/2001/dimension.html>>.*

AD-SSR2, dated Mar. 21, 2015, [online], [site visited Jan. 4, 2018]. Available from Internet, <URL: [* cited by examiner](https://www.automationdirect.com/ad/Overview/Catalog/Relays_-z-_Timers/Solid_State_Relays/DIN_Mount_Relays_(AD-SSR8_-z-_Ad-SSR2_-z-_Ad-SSR6_-z-_Ad-HSSR8_Series)/General_Purpose_10A_-_65A,__(AD-SSR8_-z-_AD-SSR2_-z-_AI)>.*>.*</p></div><div data-bbox=)

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(57) **CLAIM**

The ornamental design for a solid state relay, as shown and described.

DESCRIPTION

FIG. 1 is a front, top, and right side perspective view of a solid state relay showing my new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof;

FIG. 8 is a front, top, and right side perspective view wherein the cover thereof is removed; and,

FIG. 9 is a top view wherein the cover thereof is removed. The broken lines shown in the figures illustrate portions of the solid state relay that form no part of the claimed design.

1 Claim, 7 Drawing Sheets

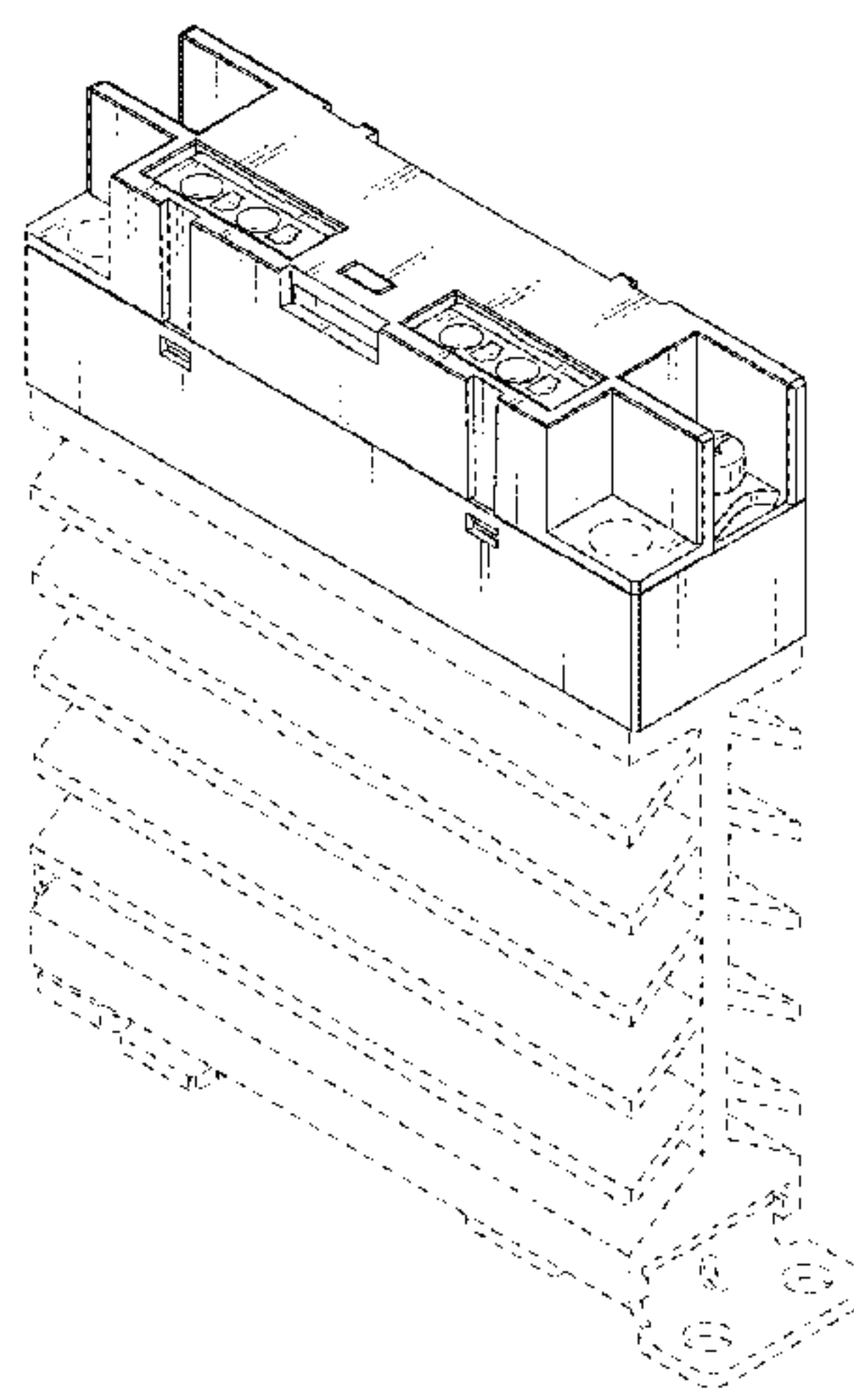
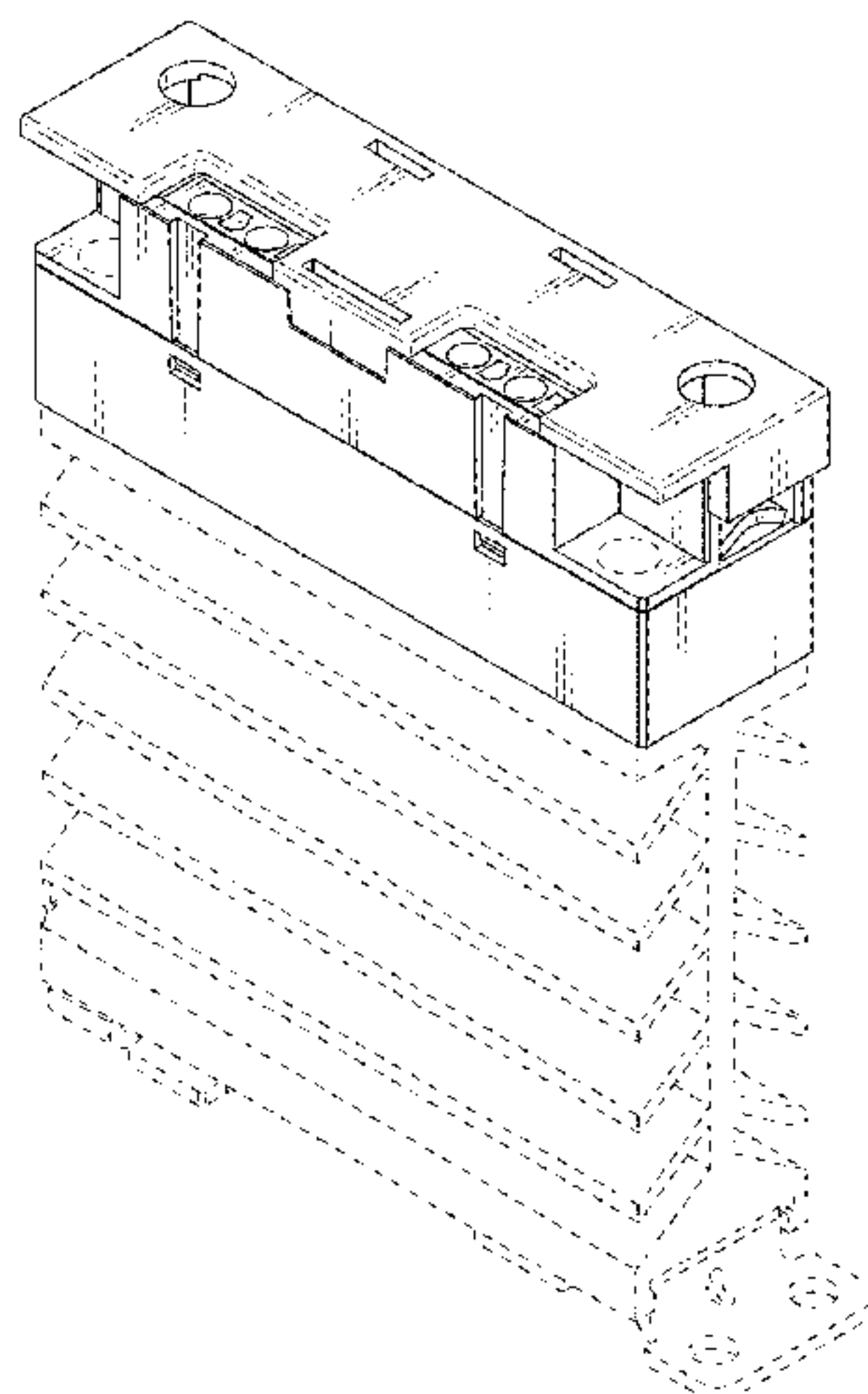


Fig. 1

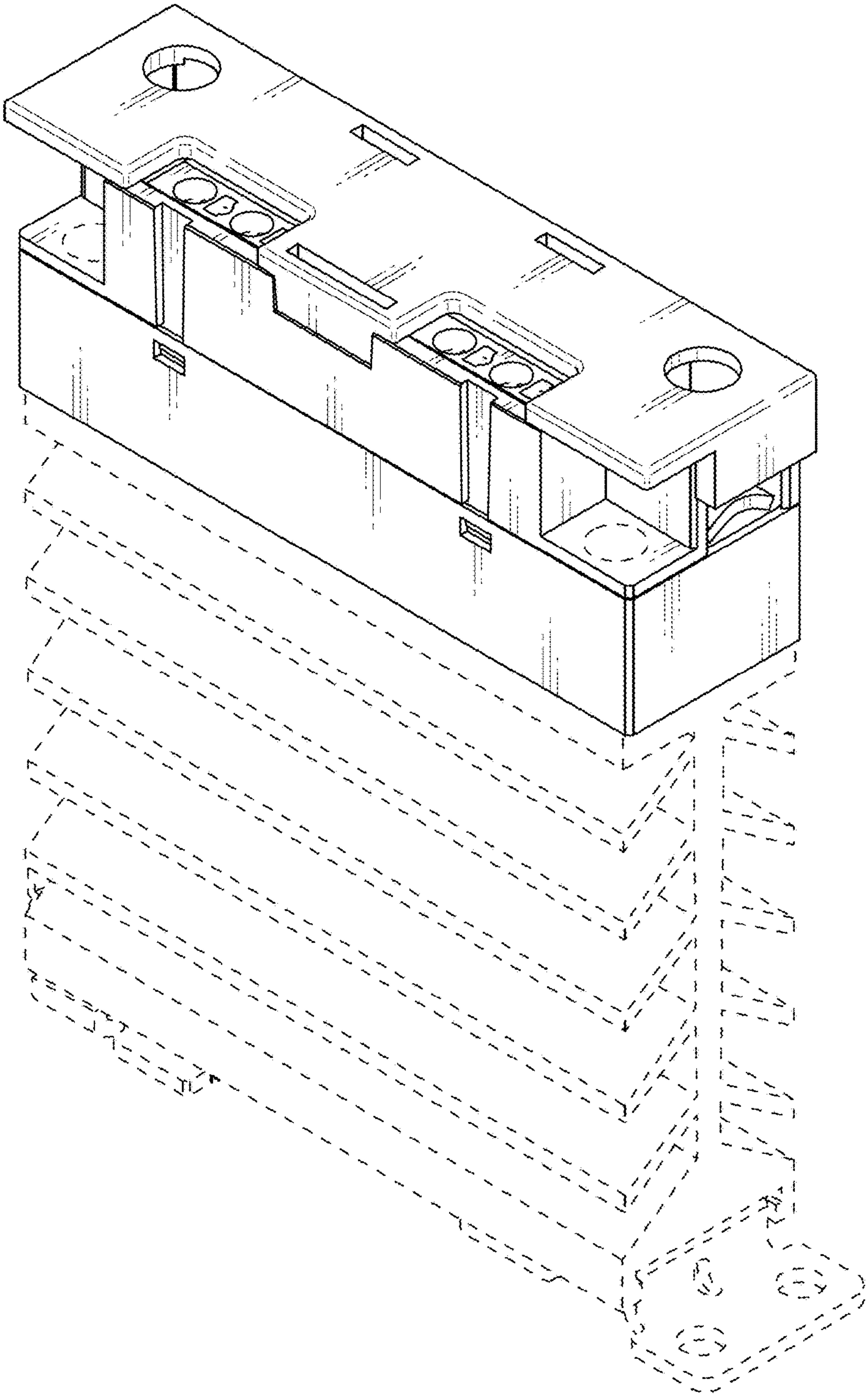


Fig. 2

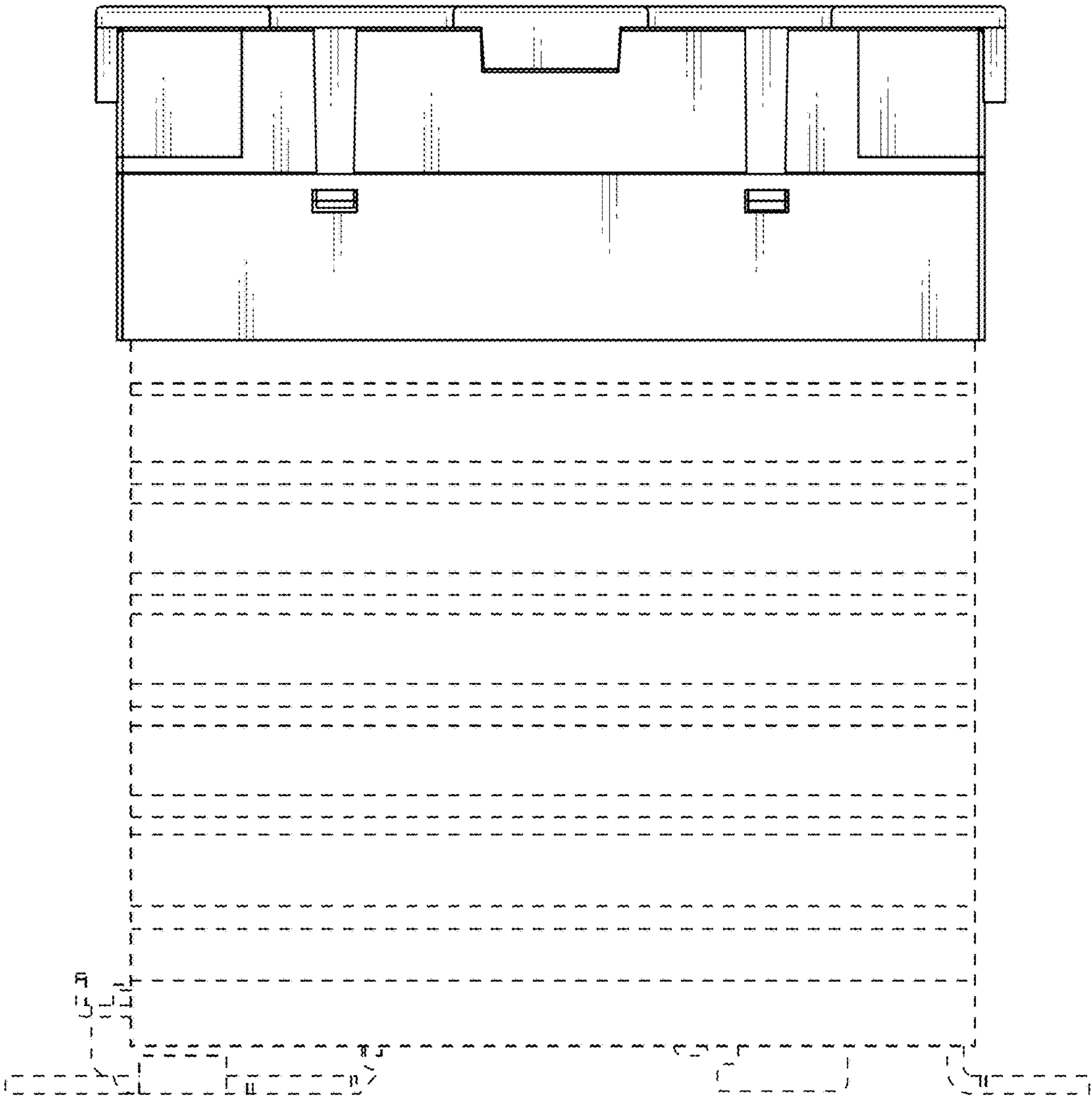


Fig. 3

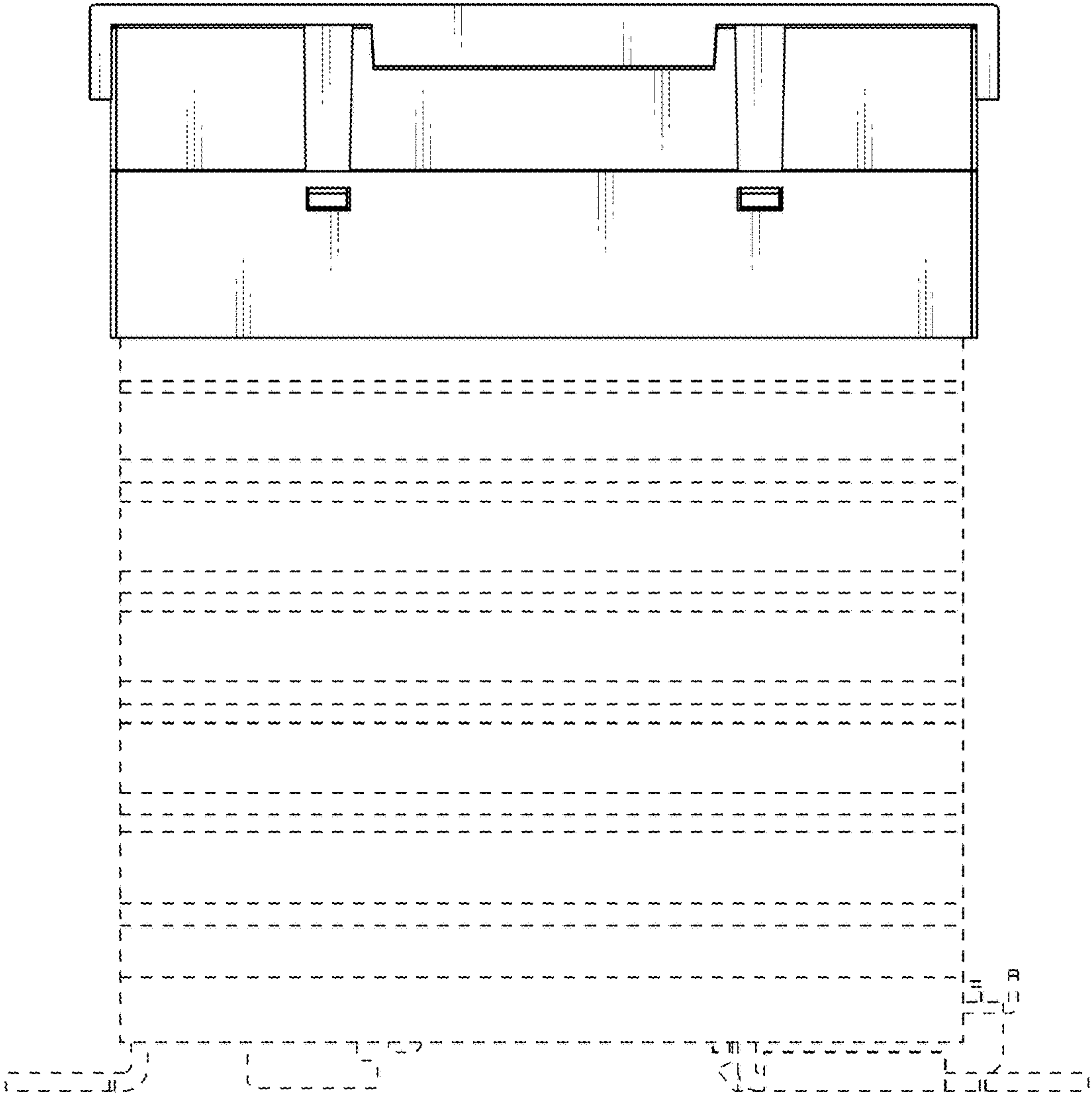


Fig. 4

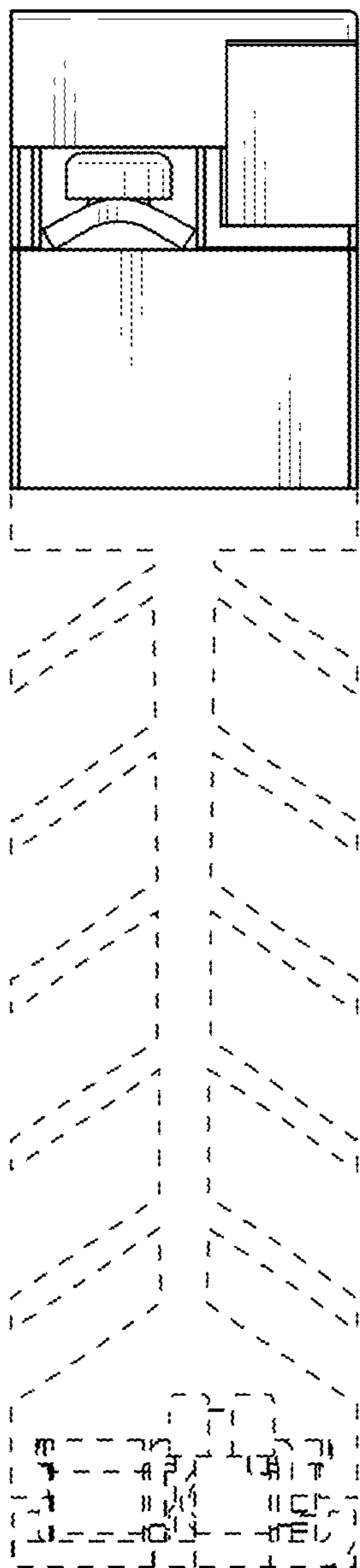


Fig. 5

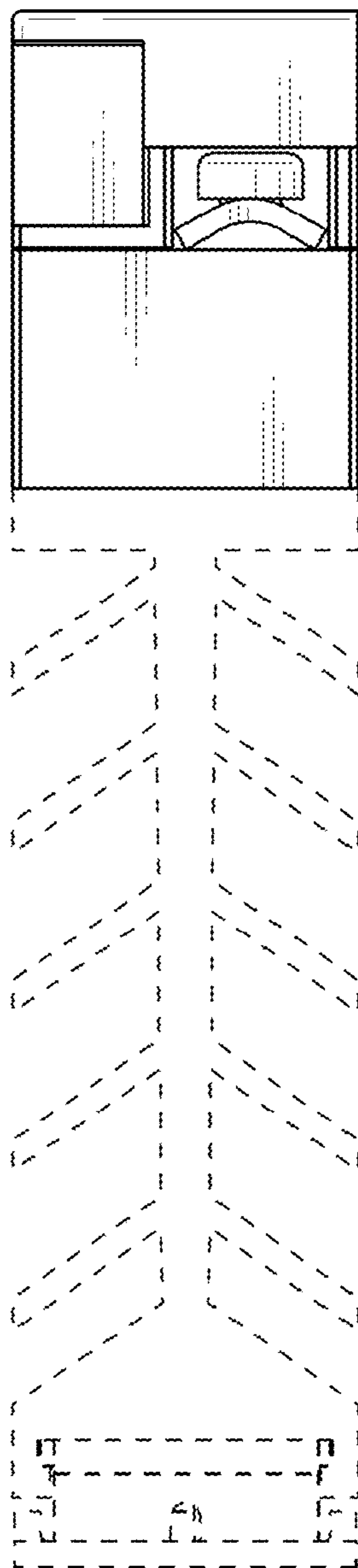


Fig. 6

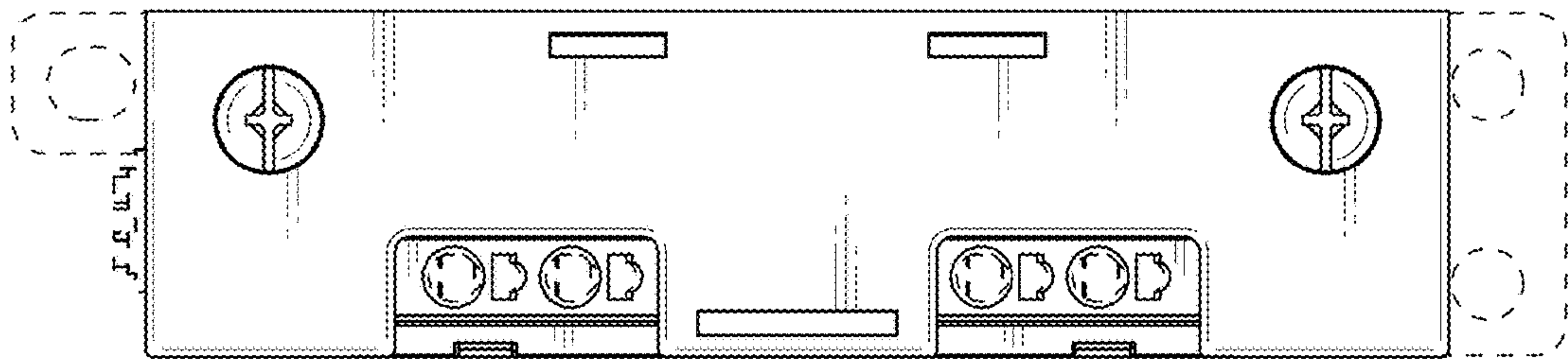


Fig. 7

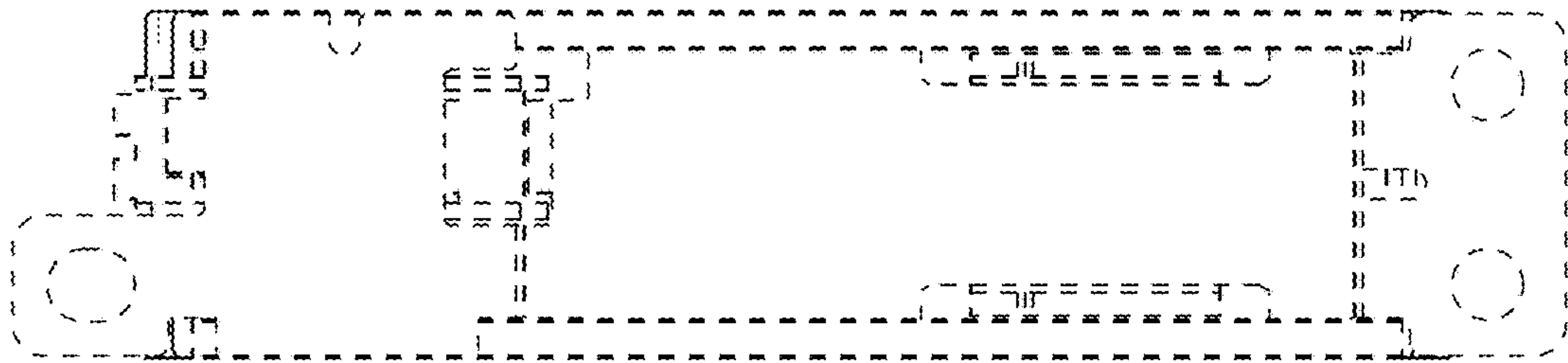


Fig. 8

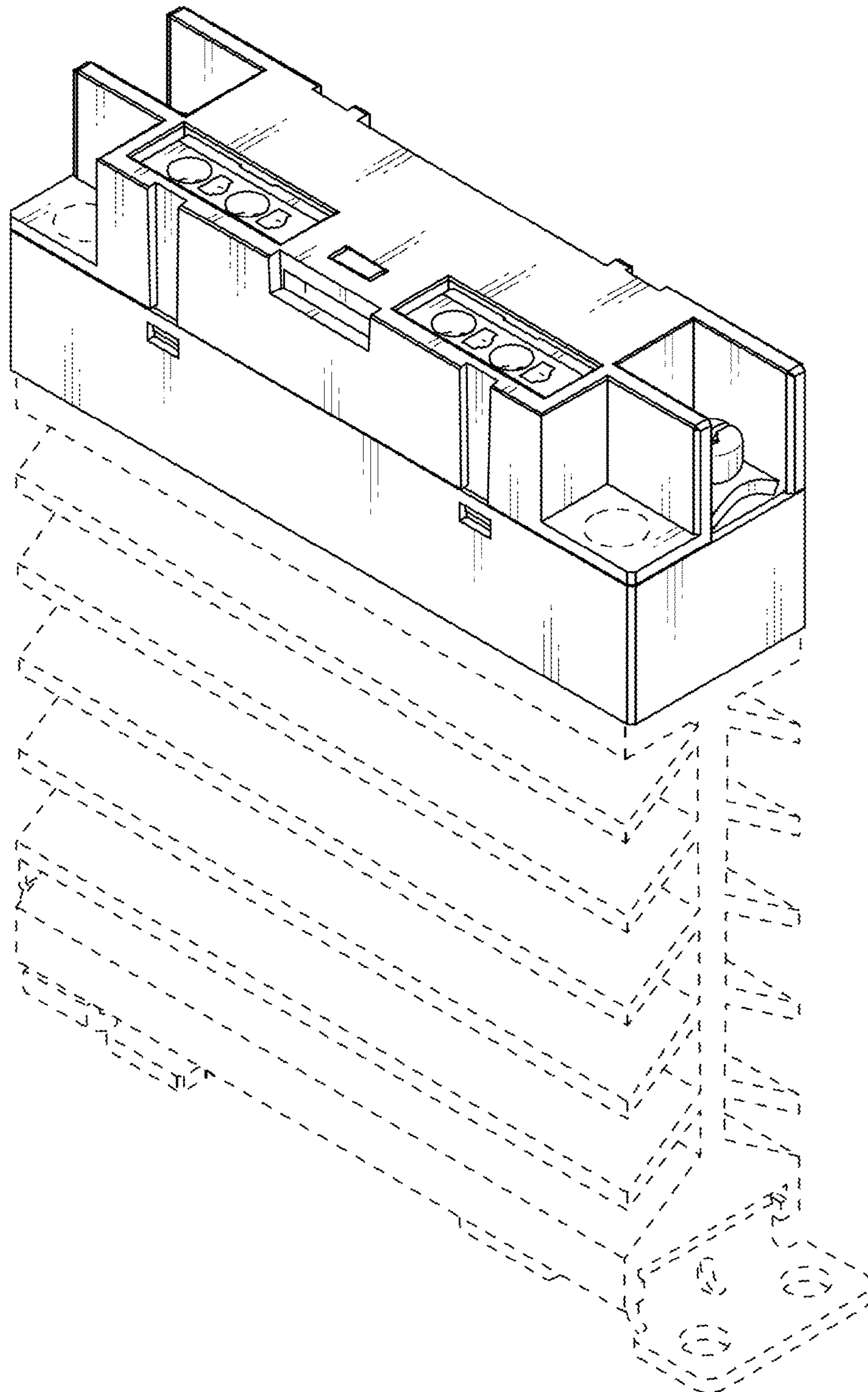


Fig. 9

