

US00D842827S

(12) **United States Design Patent**
Lanter, Jr.

(10) **Patent No.:** **US D842,827 S**
(45) **Date of Patent:** **** Mar. 12, 2019**

(54) **EXTERNAL PLUG FOR AN ELECTRICAL APPARATUS ENCLOSURE**

(71) Applicant: **Eaton Intelligent Power Limited,**
Dublin (IE)

(72) Inventor: **Roger Wayne Lanter, Jr.,** Auburn, IL
(US)

(73) Assignee: **Eaton Intelligent Power Limited,**
Dublin (IE)

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

(21) Appl. No.: **29/598,236**

(22) Filed: **Mar. 23, 2017**

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

(52) **U.S. Cl.**
USPC **D13/184**

(58) **Field of Classification Search**
USPC D13/137.1-137.4, 138.1, 138.2,
D13/139.1-139.3, 145, 147, 156, 184
CPC .. H02G 15/18; H02G 15/1826; H01R 13/516;
H01R 13/518; H01R 13/52; H01R 13/46;
H01R 13/50; H01R 13/506; H01R
13/5213; H01R 25/006; H02J 7/025;
H02J 7/0042; H02J 7/0044; H02J 7/0045;
H02J 7/0003; H01H 21/00; H01H 21/04;
H01H 23/00; H01H 71/02; H01B 1/21
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,871,284	A	1/1959	Wills
2,934,660	A	4/1960	Brunner
3,315,556	A	4/1967	Speck
3,767,977	A	10/1973	Bachman
4,024,441	A	5/1977	Coyle et al.
4,166,934	A	9/1979	Marrero
5,072,071	A	12/1991	Cassity et al.

D324,816	S	*	3/1992	LeDuc	D13/177
5,213,518	A		5/1993	Weidler		
5,272,592	A		12/1993	Harris et al.		
5,307,243	A		4/1994	Sharp et al.		
D370,463	S	*	6/1996	Nagele	D13/147
5,696,664	A		12/1997	Rose		
D410,437	S	*	6/1999	Mowery	D13/177
D419,966	S	*	2/2000	Mowery	D13/184

(Continued)

OTHER PUBLICATIONS

“GE loadcenter showing a two direction assembly into the enclosure and then a slide to the final position” (1 page) (date unknown, but prior to filing date of the present application).

(Continued)

Primary Examiner — Jennifer Rivard

Assistant Examiner — Alison M Ofstun

(74) *Attorney, Agent, or Firm* — Myers Bigel, P.A.

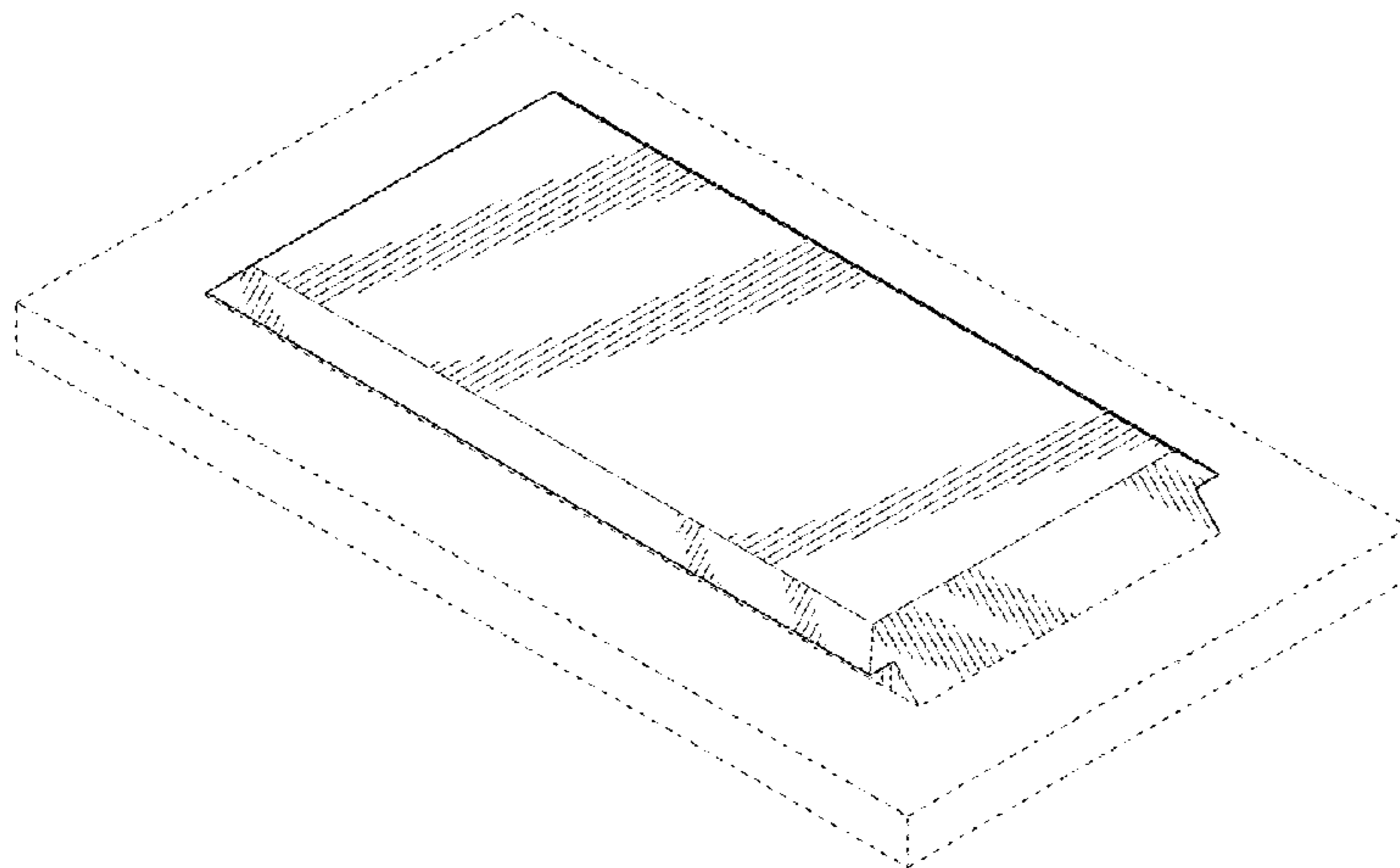
(57) **CLAIM**

The ornamental design for an external plug for an electrical apparatus enclosure, as shown and described.

DESCRIPTION

FIG. 1 is a top, side perspective view of an external plug for an electrical apparatus enclosure showing my design;
FIG. 2 is a bottom perspective view thereof, shown in an environment of use;
FIG. 3 is a long side view thereof;
FIG. 4 is an opposing long side view thereof;
FIG. 5 is an end view thereof;
FIG. 6 is an opposing end view thereof;
FIG. 7 is a top view thereof;
FIG. 8 is a bottom view thereof; and,
FIG. 9 is a bottom perspective view thereof.
The evenly spaced broken lines shown in the figures represent portions of the article and environmental subject matter, none of which form part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,485,817 B2 * 2/2009 Gottschalk H01H 71/02
 200/50.17
 7,968,794 B1 * 6/2011 Baldwin H02G 3/18
 174/66
 8,729,988 B1 5/2014 Maloney
 D742,340 S * 11/2015 Krivonak D13/184
 D760,230 S * 6/2016 Iizuka D13/184
 D767,514 S * 9/2016 Summers D10/106.95
 D767,571 S * 9/2016 Iizuka D13/184
 9,462,731 B2 * 10/2016 Onishi H05K 9/006
 D798,813 S * 10/2017 Marinelli D13/110
 D814,420 S * 4/2018 Chen D13/137.2
 D816,049 S * 4/2018 Kim D13/184
 10,000,956 B2 * 6/2018 Whitaker E05D 3/022
 2002/0182896 A1 12/2002 Welsh et al.
 2009/0302724 A1 12/2009 Allard et al.

2011/0149483 A1 6/2011 Diaz et al.
 2013/0241359 A1 * 9/2013 Naito H01L 41/053
 310/348
 2014/0185195 A1 7/2014 Samuelson
 2015/0155849 A1 * 6/2015 Kikuchi H03H 9/172
 310/348

OTHER PUBLICATIONS

“Siemens loadcenter showing a two direction assembly into the enclosure and then a slide to the final position” (1 page) (date unknown, but prior to filing date of the present application).
 “Square D loadcenter showing a two direction assembly into to the enclosure and then a slide to the final position” (1 page) (date unknown, but prior to filing date of the present application).
 U.S. Appl. No. 29/598,231, Lanter, filed Mar. 23, 2017.
 U.S. Appl. No. 29/598,234, Lanter, filed Mar. 23, 2017.

* cited by examiner

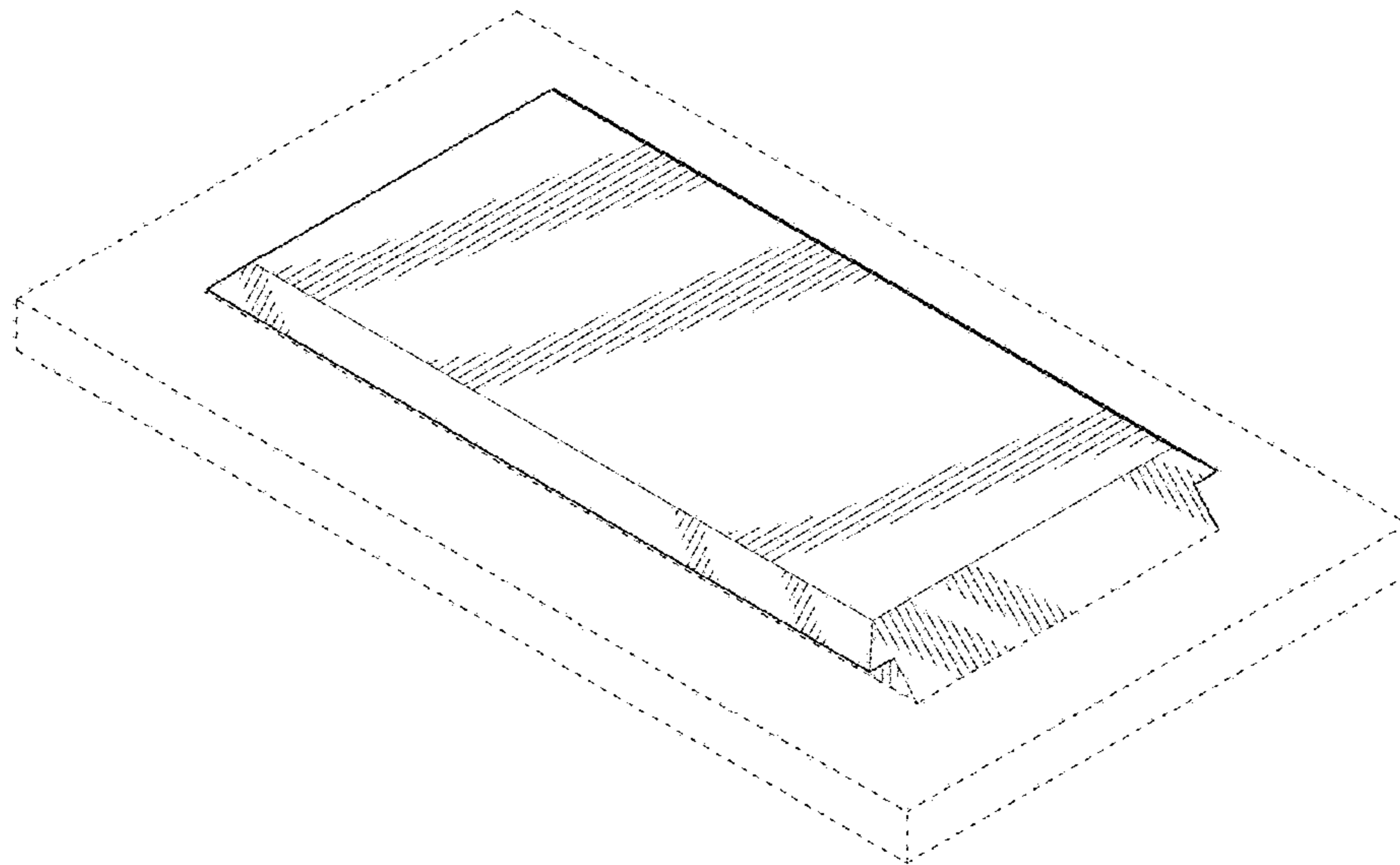


FIG. 1

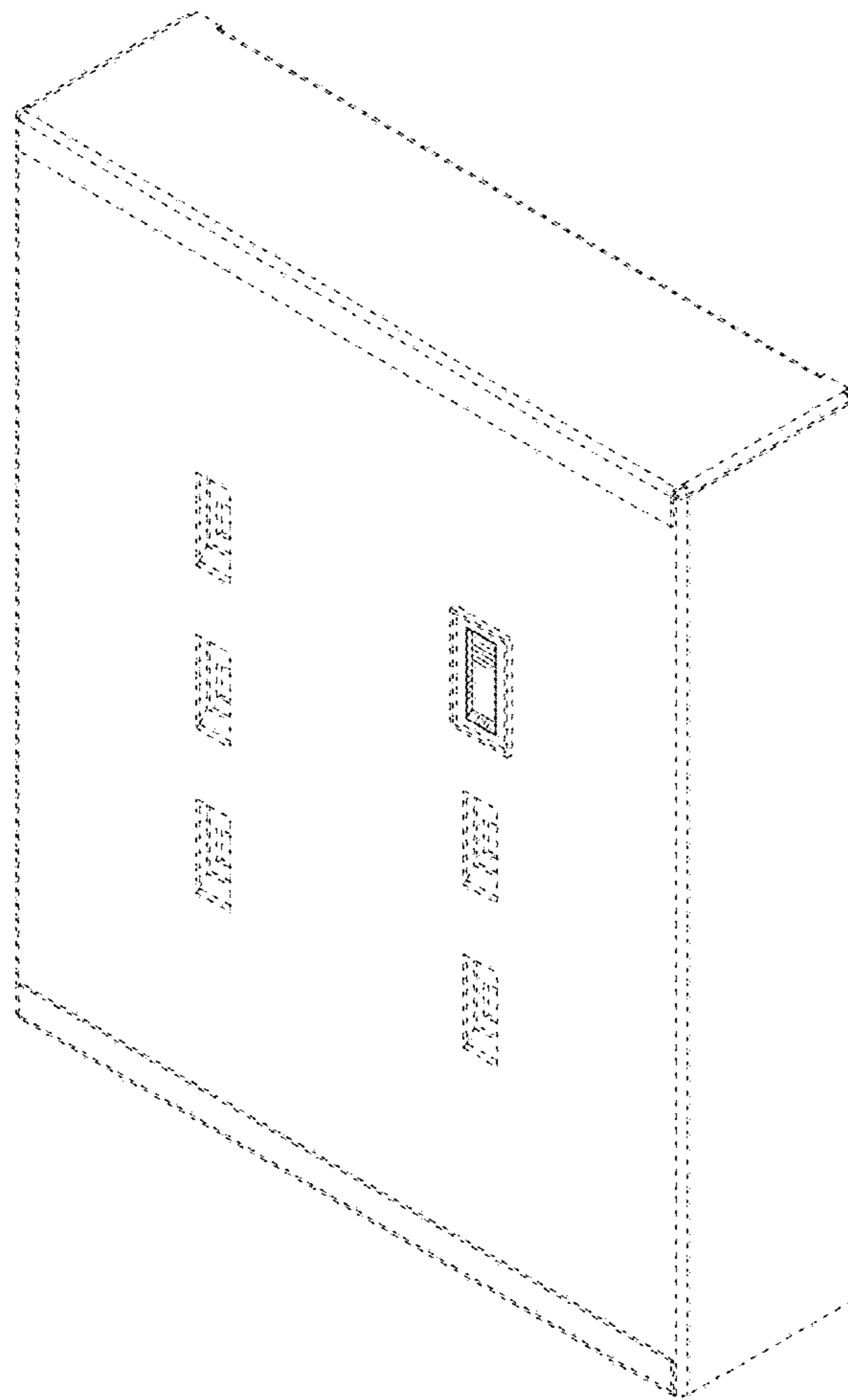


FIG. 2

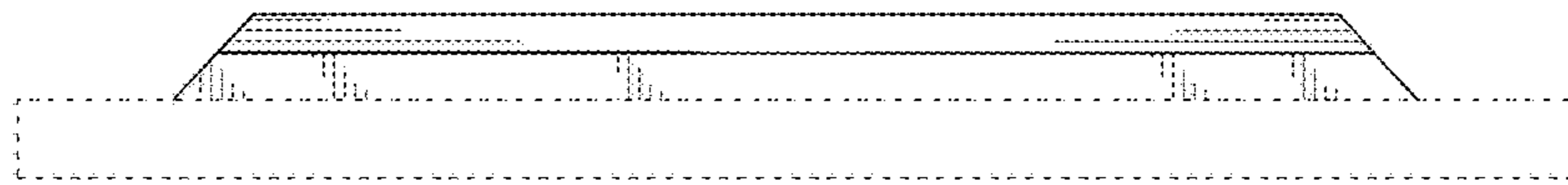


FIG. 3

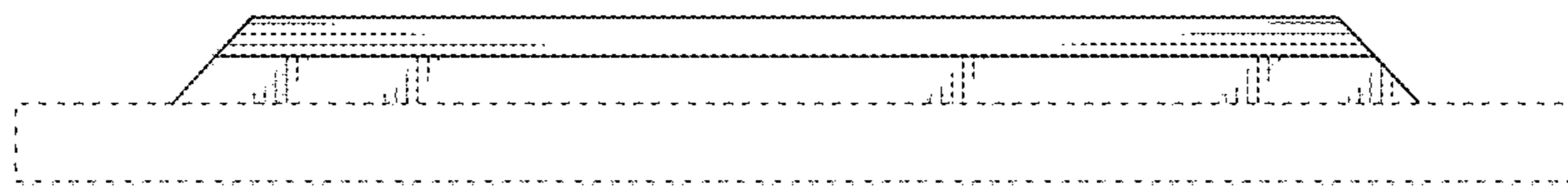


FIG. 4

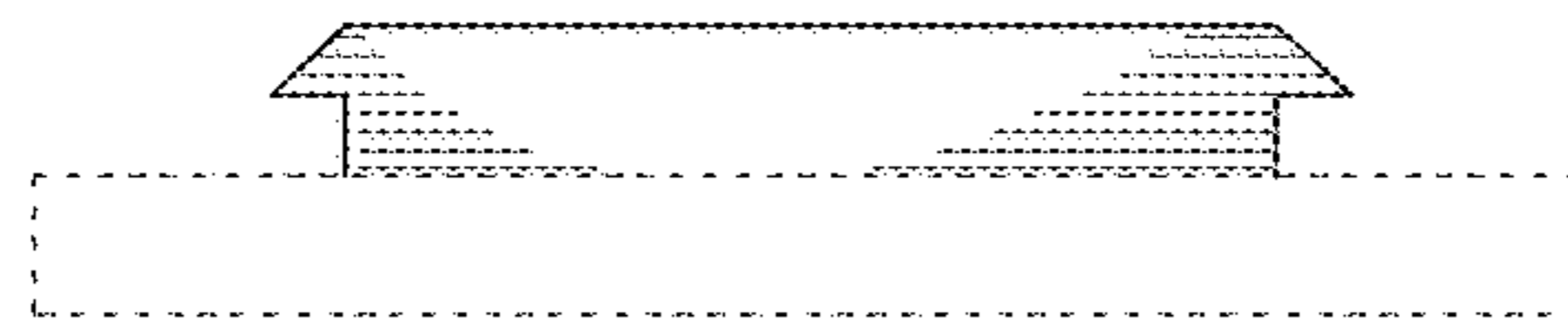


FIG. 5

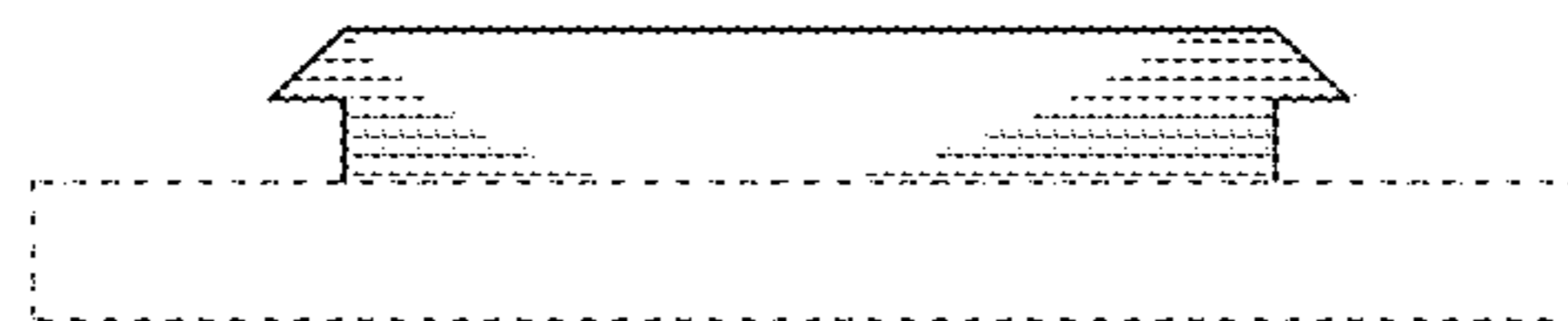


FIG. 6

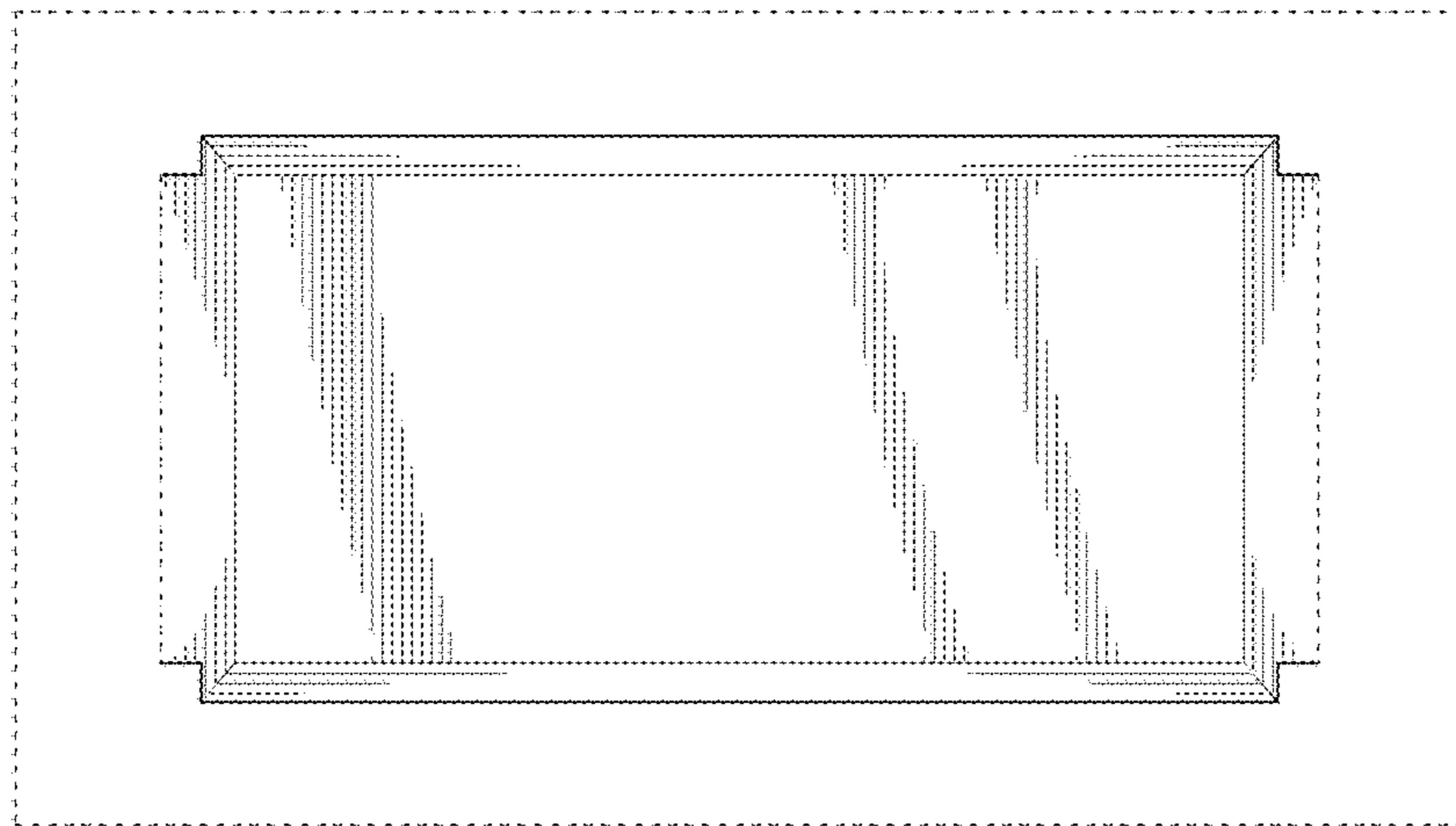


FIG. 7

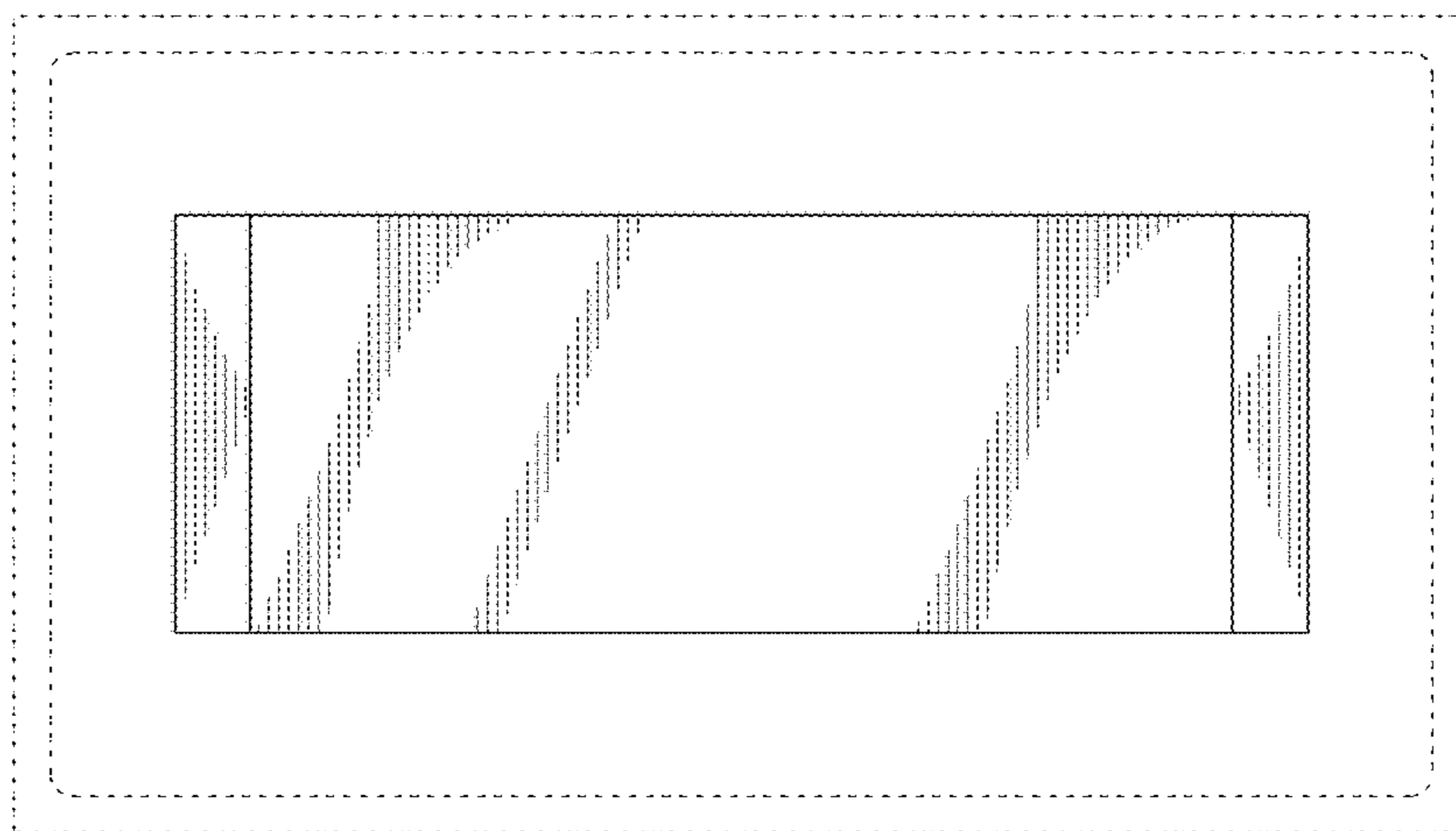


FIG. 8

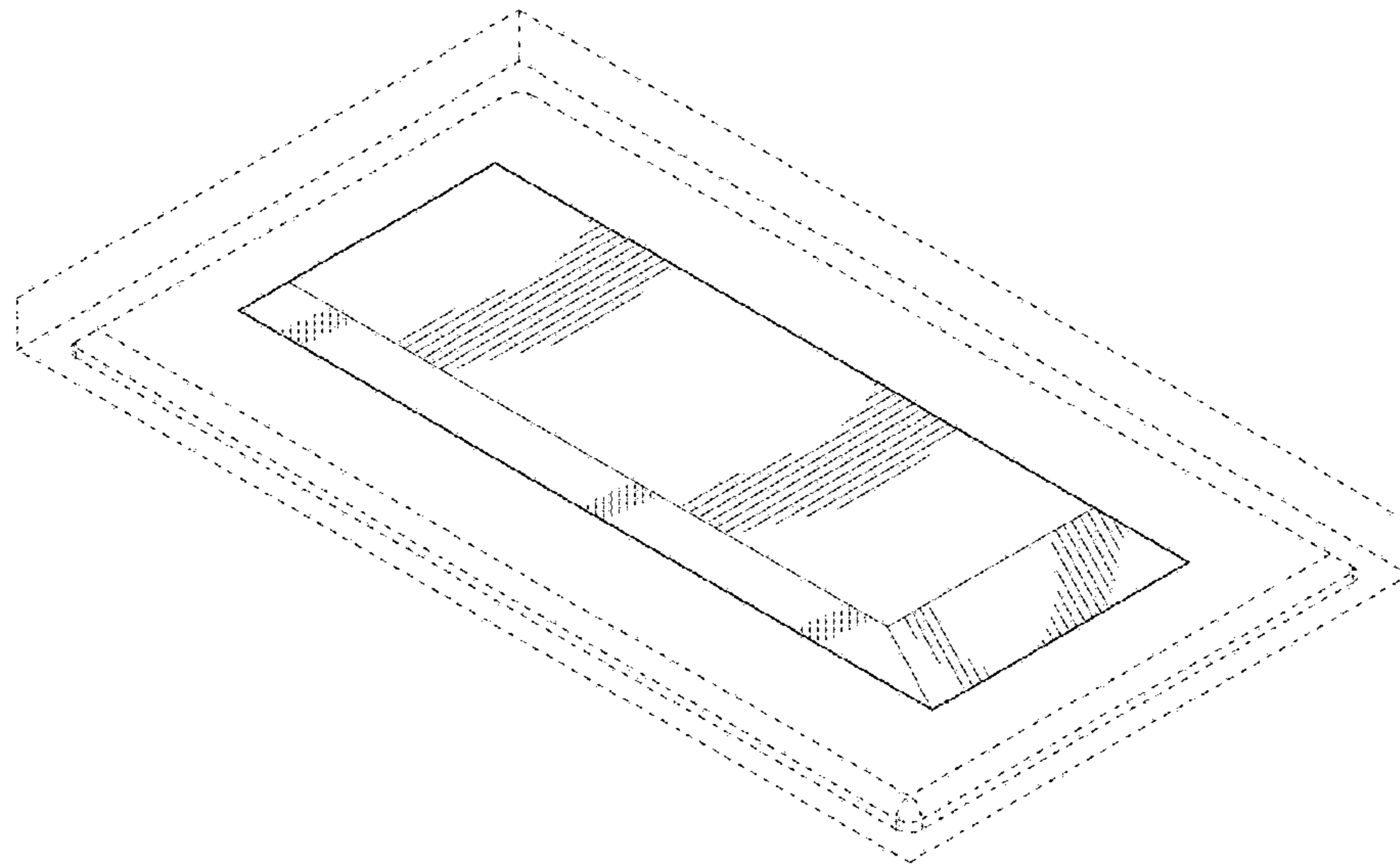


FIG. 9