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(12) **United States Design Patent**
Nomi

(10) **Patent No.:** **US D743,333 S**
(45) **Date of Patent:** **** Nov. 17, 2015**

(54) **ELECTRIC CHARGER WITH AC-DC POWER CONVERTER**

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(JP)

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

(21) Appl. No.: **29/500,671**

(22) Filed: **Aug. 27, 2014**

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

(52) **U.S. Cl.**
USPC **D13/108**

(58) **Field of Classification Search**

USPC D13/102-110, 118-119, 184, 199, 133,
D13/144; D14/251, 253, 432, 434, 356,
D14/155; D15/9; 439/300, 620.01, 638,
439/668-669, 675, 825; 320/107-115

CPC Y02E 60/12; Y02E 60/10; Y02E 60/122;
Y02E 60/124; Y02E 60/50; Y02T 90/14;
Y02T 90/122; Y02T 90/128; Y02T 90/163;
H02J 7/025; H02J 7/0042; H02J 7/0044;
H02J 7/0045; H02J 7/0003; H02J 7/00;
H02J 7/0011; H02J 7/0013; H02J 7/0054;
H02J 7/0055; H02J 7/0057; H02J 2007/0062;
H01F 38/14; H01R 13/6675; H01M 2/02;
H01M 2/022; H01M 2/0202; H01M 2/0207;
H01M 2/0212; H01M 2/1061; H01M 2/1022;
H01M 2/1055; H01M 2/1066; H01M 2/105;
H01M 2/204; H01M 10/44; H01M 10/46;
H01M 10/425; H01M 10/465; H01M 10/482;
H01M 10/4257; H01M 10/0436; H01M 10/48;
H01M 2200/30; H01M 2250/30; H01M
2250/40; B60L 11/182

See application file for complete search history.

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Assistant Examiner — Sanjeev Paul

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(57) **CLAIM**

I claim the ornamental design for an electric charger with AC-DC power converter, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a first embodiment of an electric charger with AC-DC power converter of the present invention;

FIG. 2 is a rear perspective view thereof;

FIG. 3 is a front view thereof;

FIG. 4 is a rear view thereof;

FIG. 5 is a first side view thereof;

FIG. 6 is a second side view thereof;

FIG. 7 is a top view thereof;

FIG. 8 is a bottom view thereof;

FIG. 9 is a cross-section view with the internal parts omitted taken along the line 9-9 of FIG. 3;

FIG. 10 is a cross-section view with the internal parts omitted taken along the line of 10-10 of FIG. 3;

FIG. 11 is a rear perspective view thereof shown in an alternate position in which an AC plug is rotated and exposed;

FIG. 12 is a front perspective view of a second embodiment of an electric charger with AC-DC power converter of the present invention;

FIG. 13 is a rear perspective view thereof;

FIG. 14 is a front view thereof;

FIG. 15 is a rear view thereof;

FIG. 16 is a first side view thereof;

FIG. 17 is a second side view thereof;

FIG. 18 is a top view thereof;

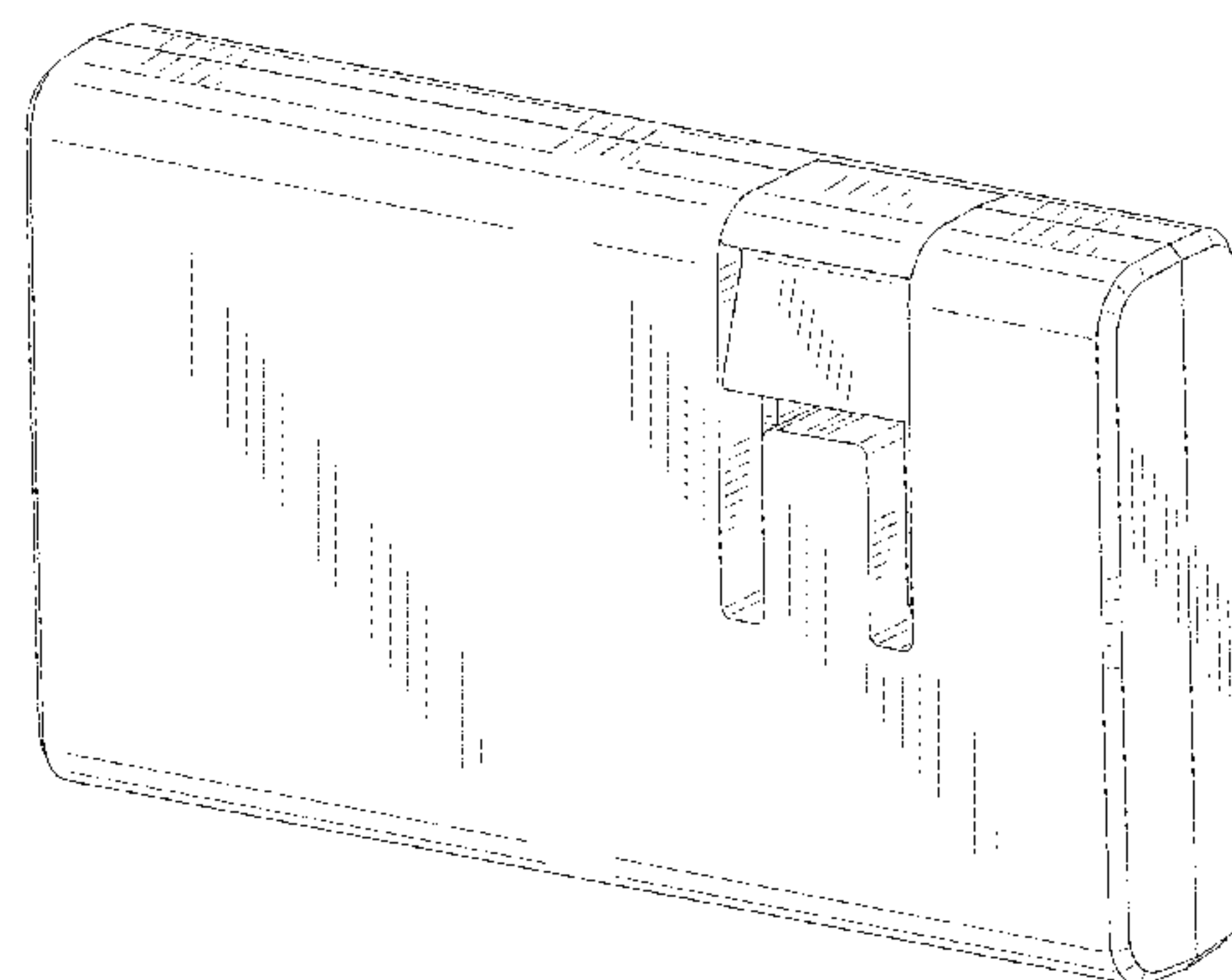
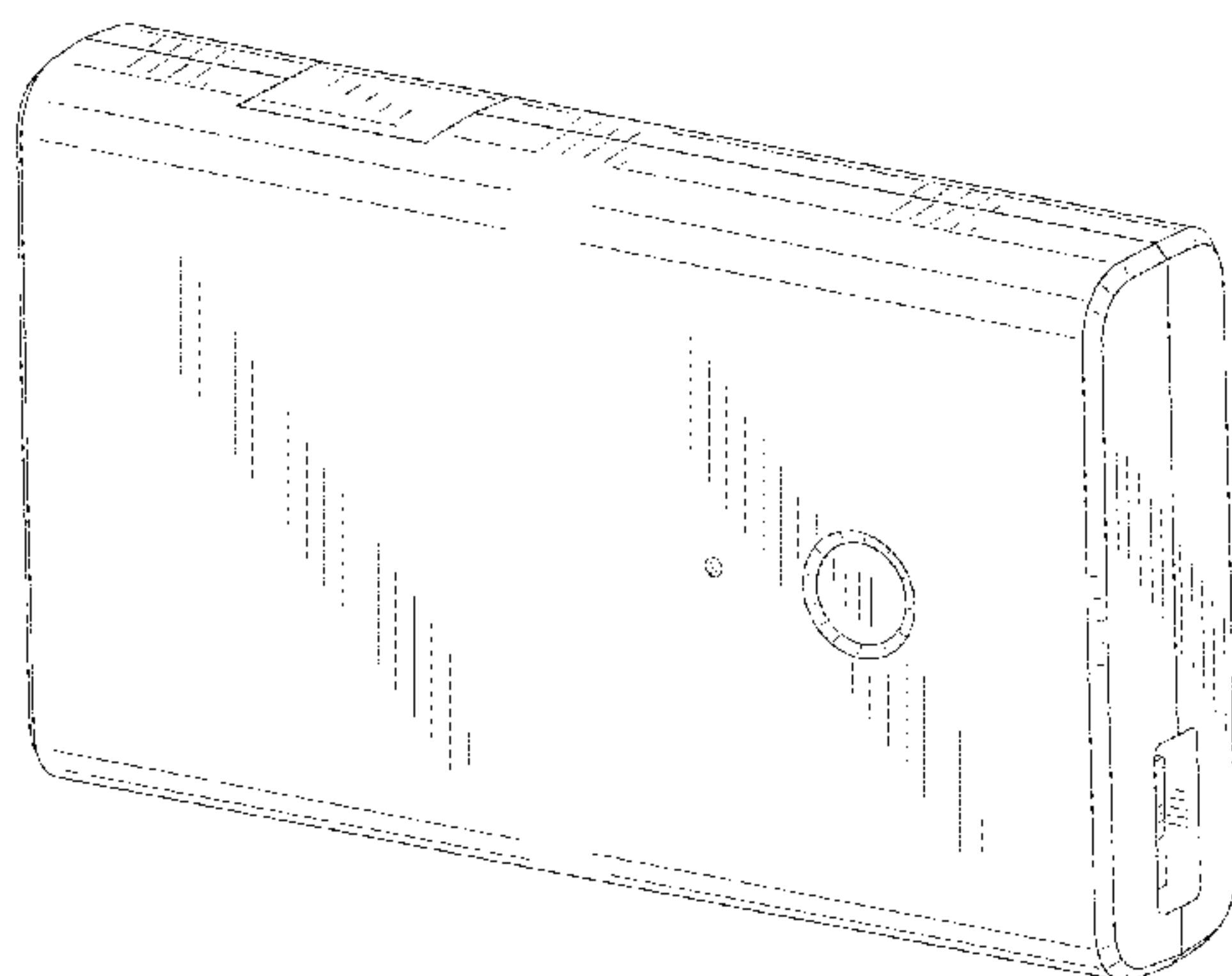
FIG. 19 is a bottom view thereof;

FIG. 20 is a cross-section view with the internal parts omitted taken along the line 20-20 of FIG. 14;

FIG. 21 is a cross-section view with the internal parts omitted taken along the line of 21-21 of FIG. 14; and,

FIG. 22 is a rear perspective view thereof shown in an alternate position in which an AC plug is rotated and exposed.

1 Claim, 22 Drawing Sheets



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2015/0171386 A1 * 6/2015 Yang H01M 2/1022
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FIG. 1

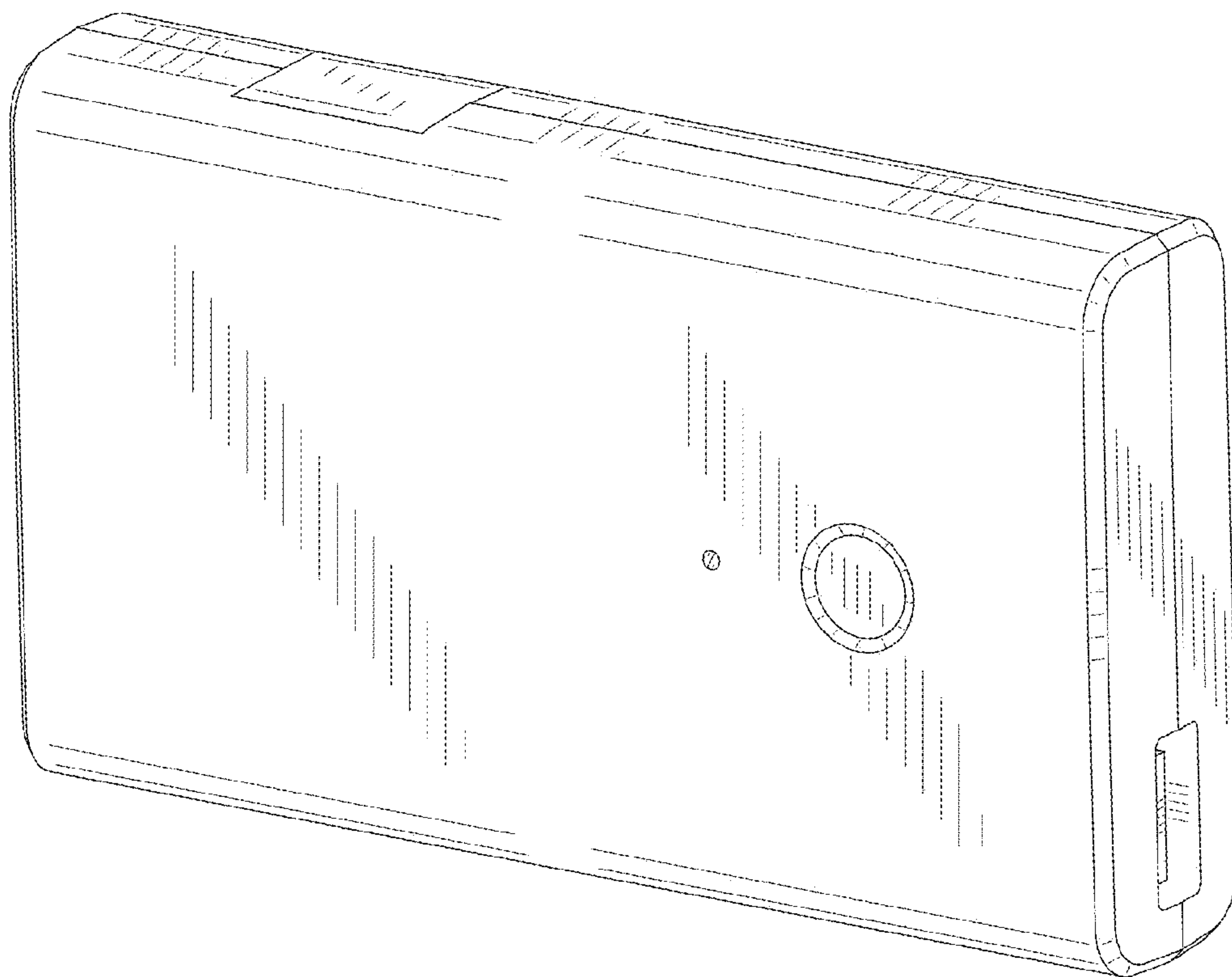


FIG.2

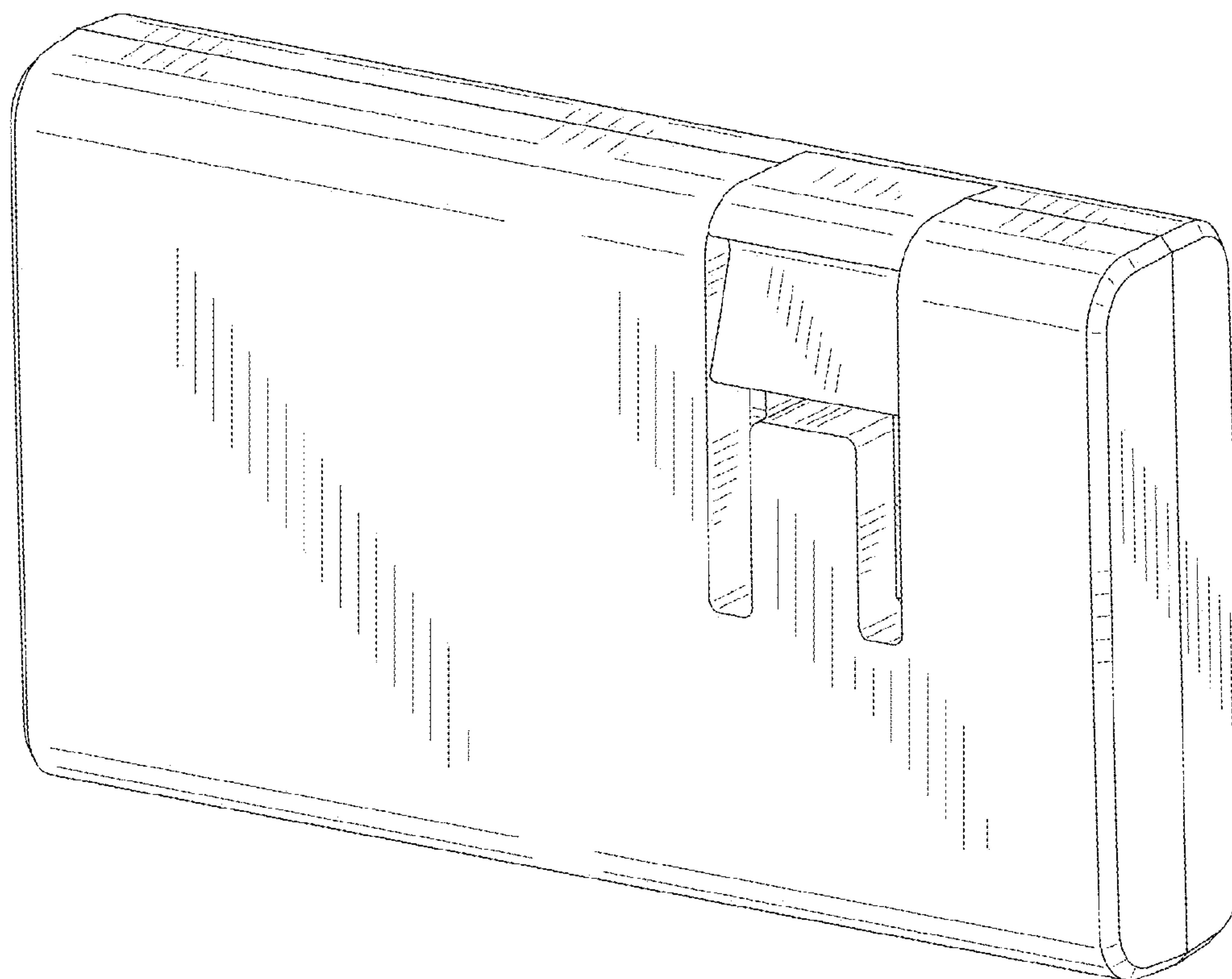


FIG.3

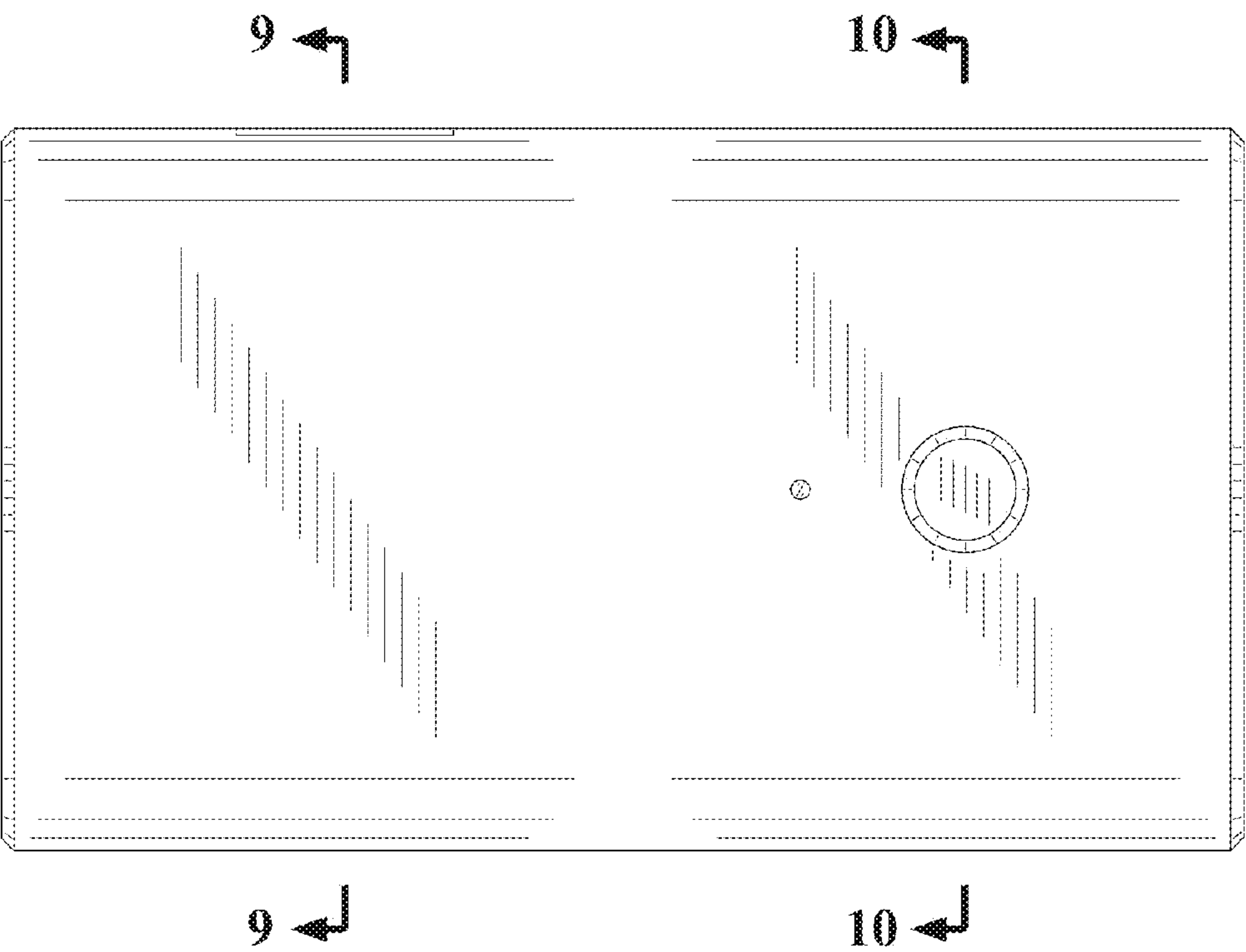


FIG.4

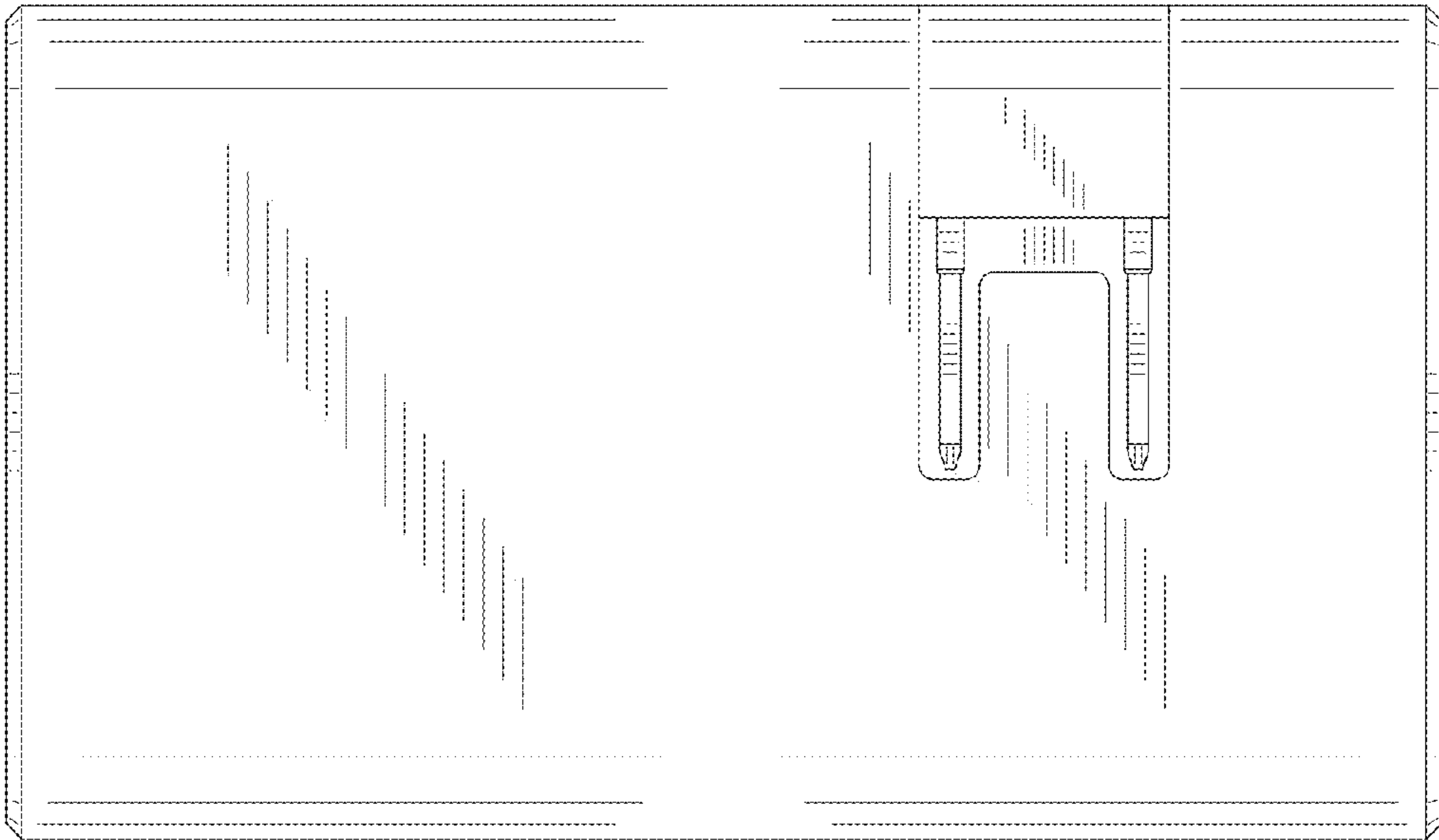


FIG.5

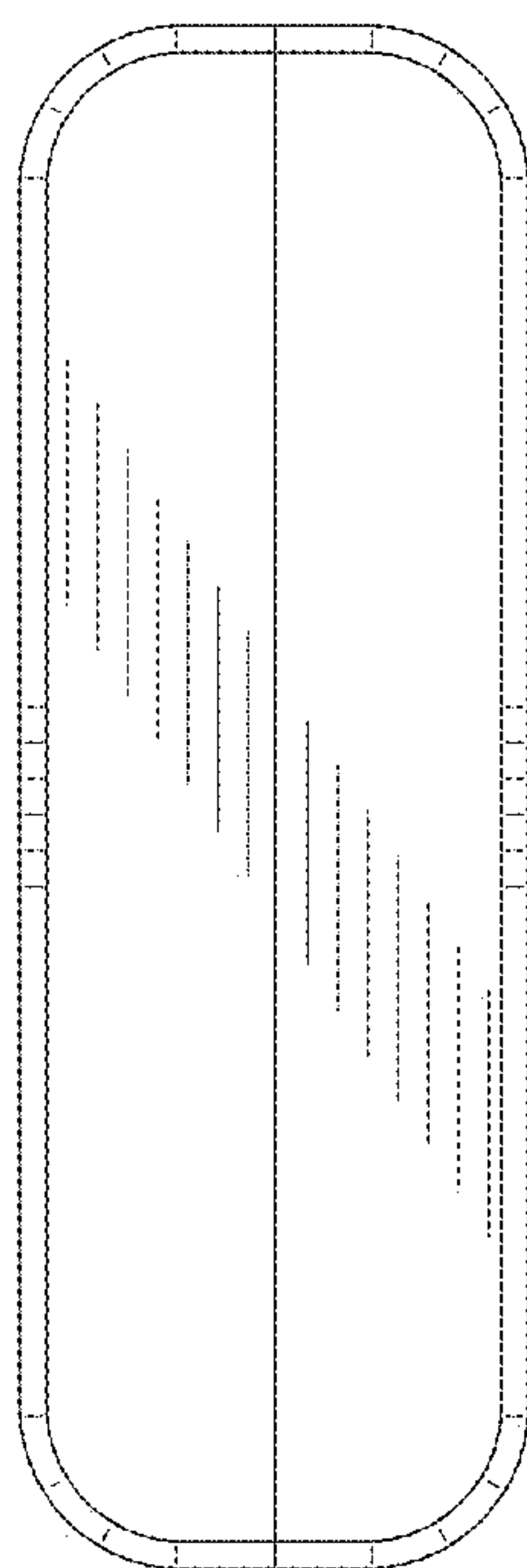


FIG.6

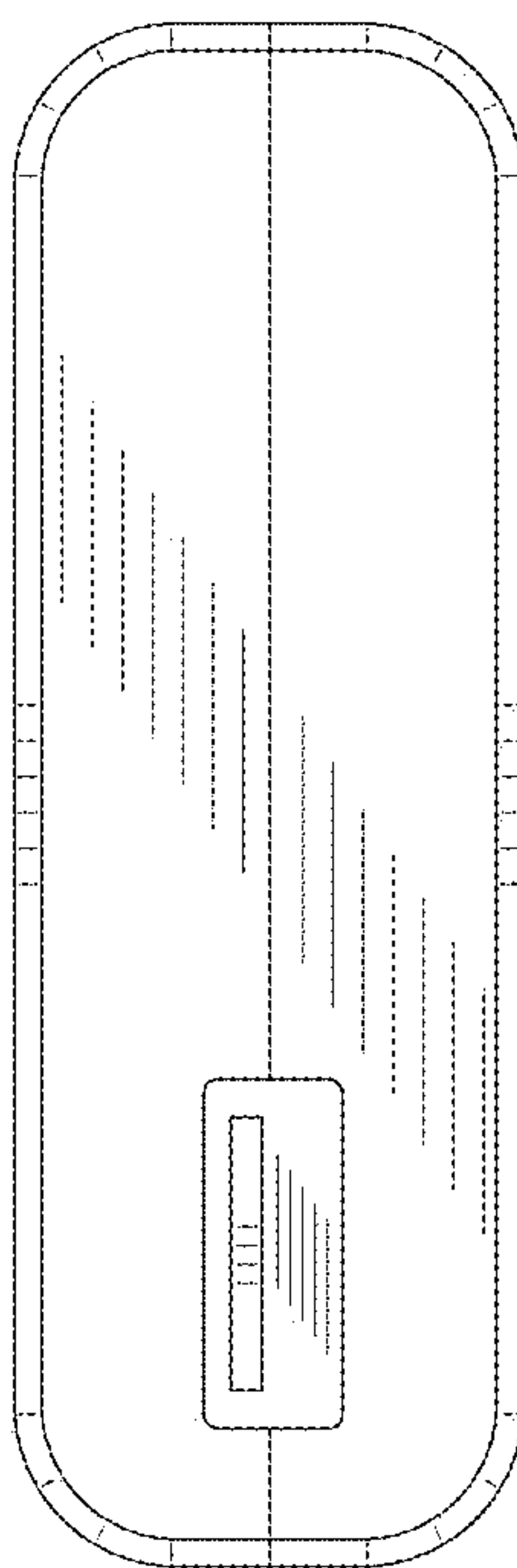


FIG.7

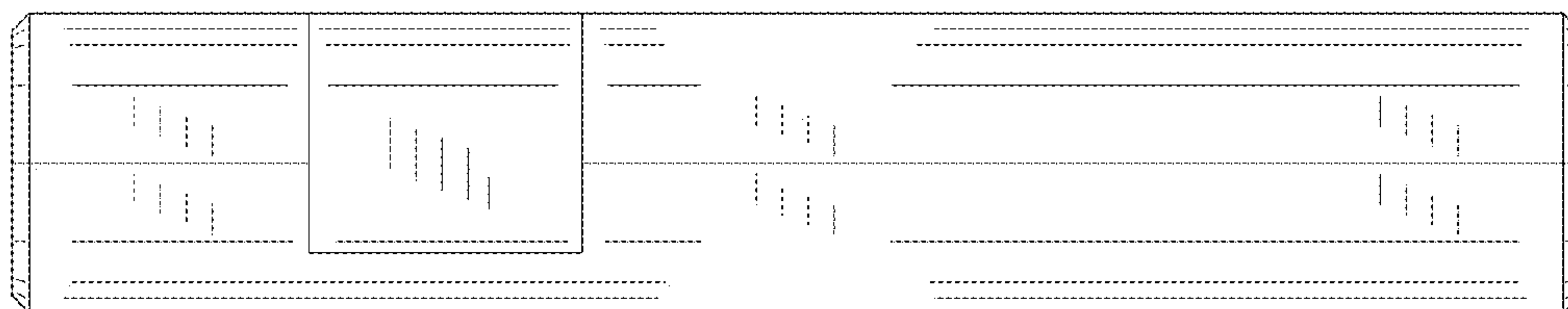


FIG.8

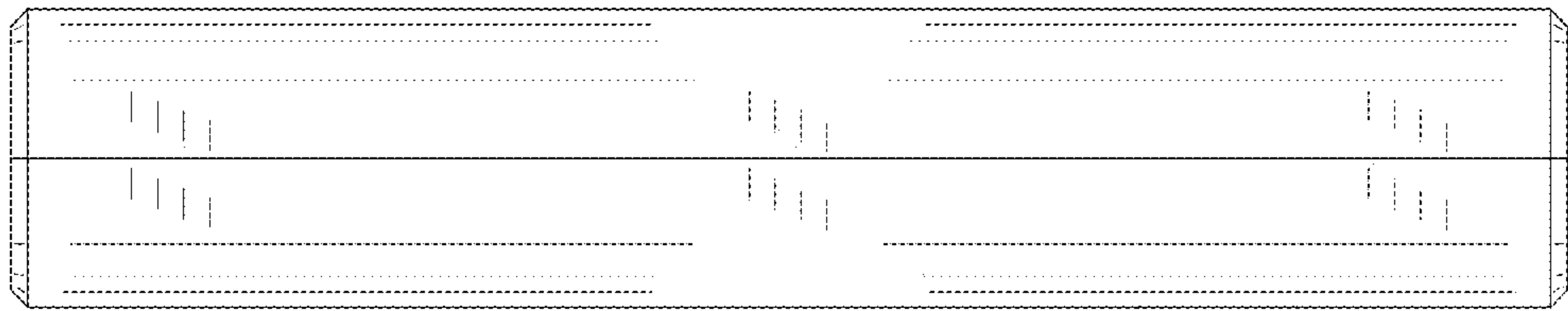


FIG.9

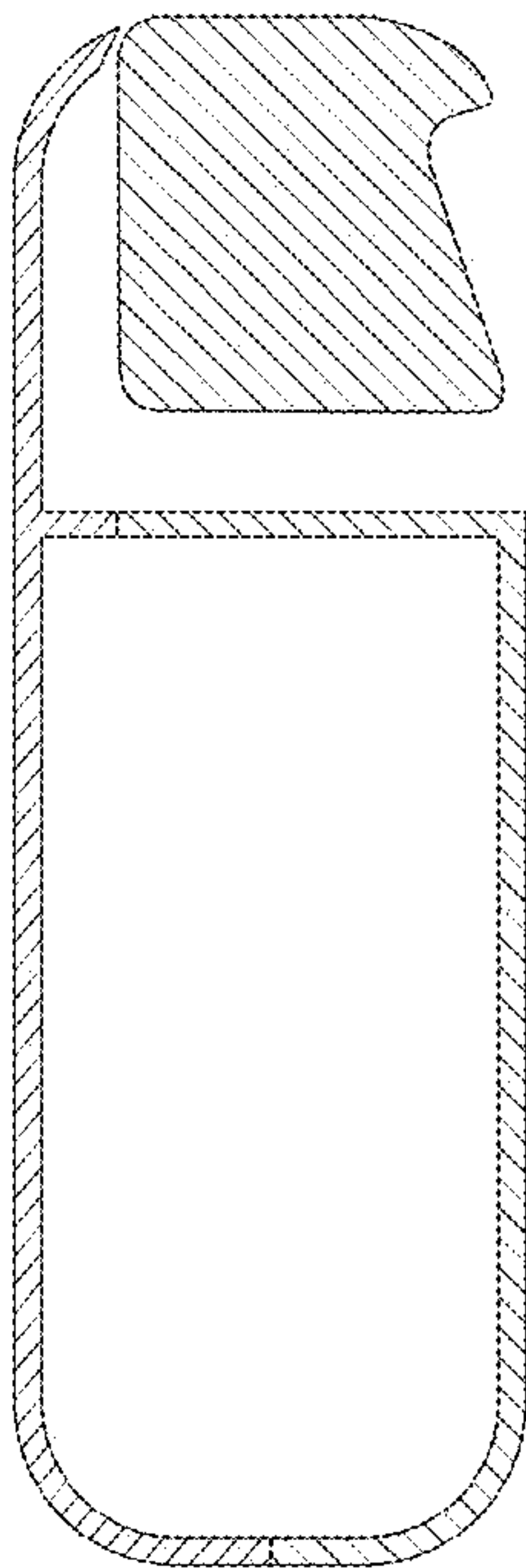


FIG.10

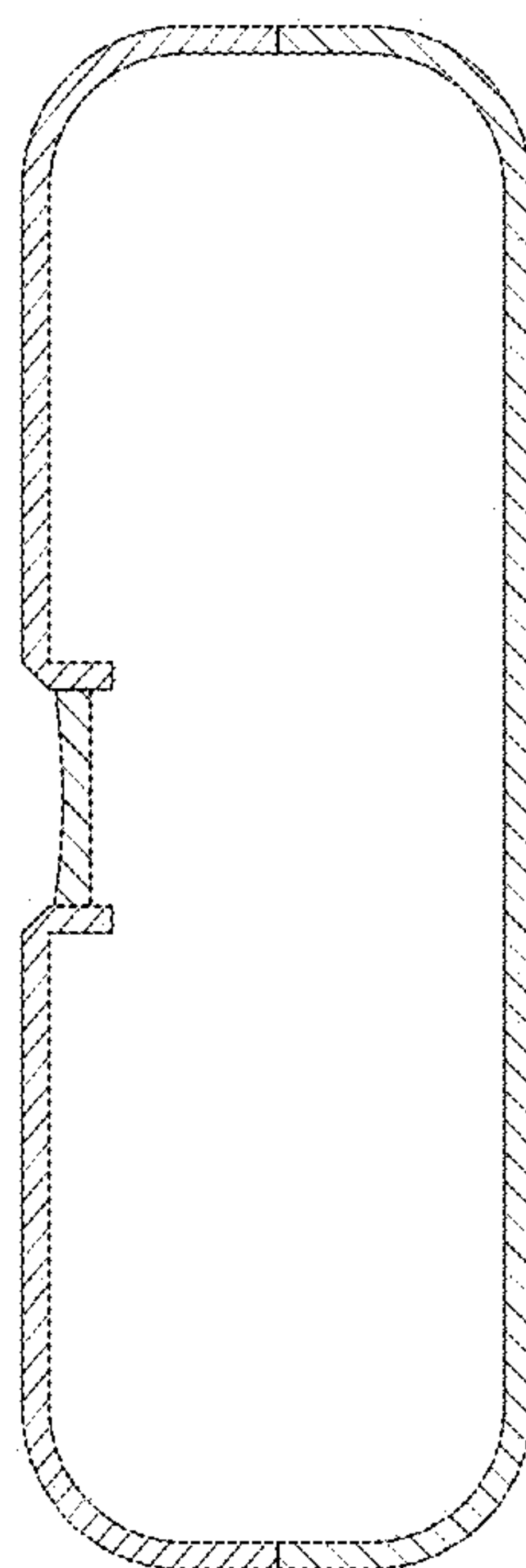


FIG.11

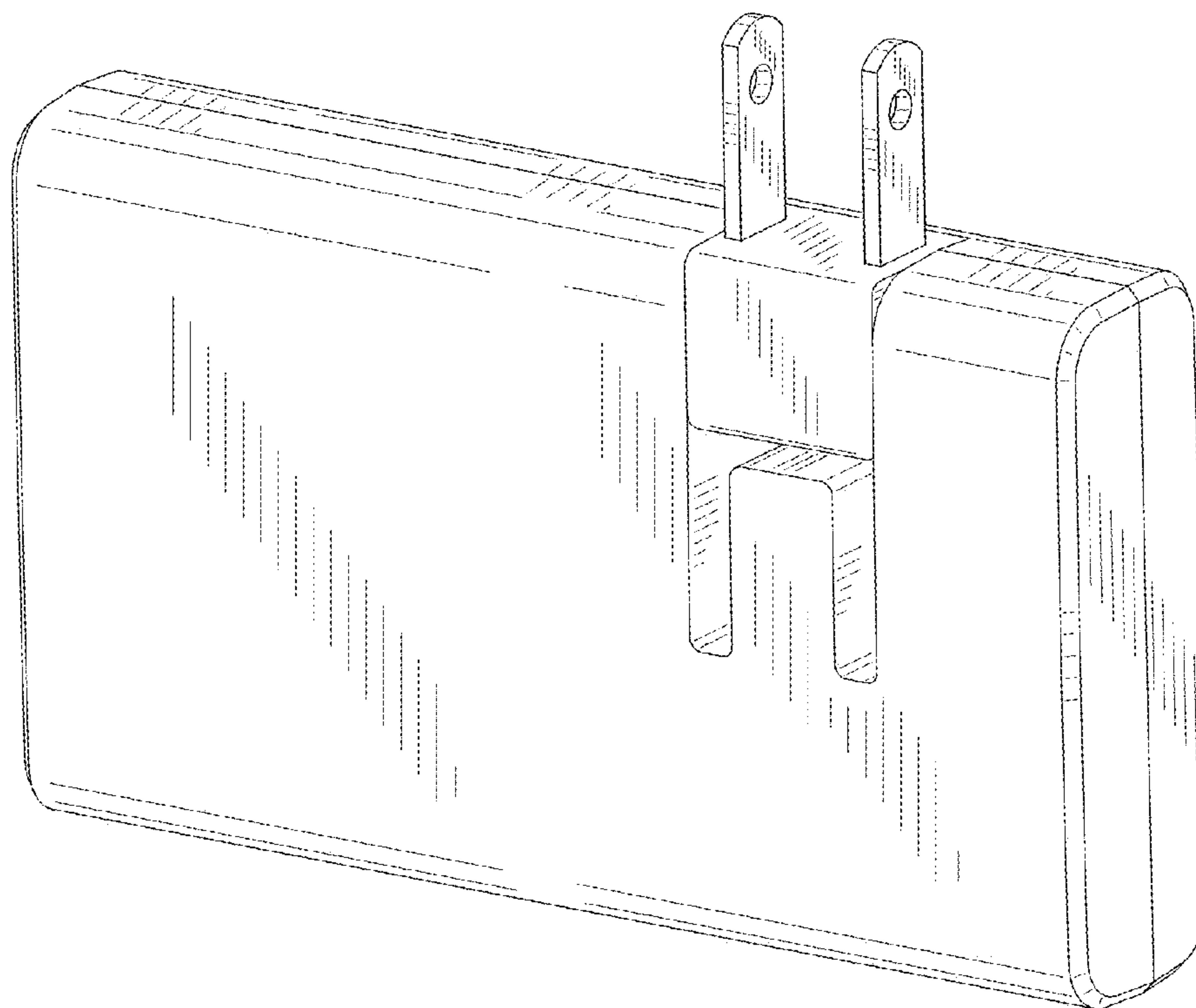


FIG.12

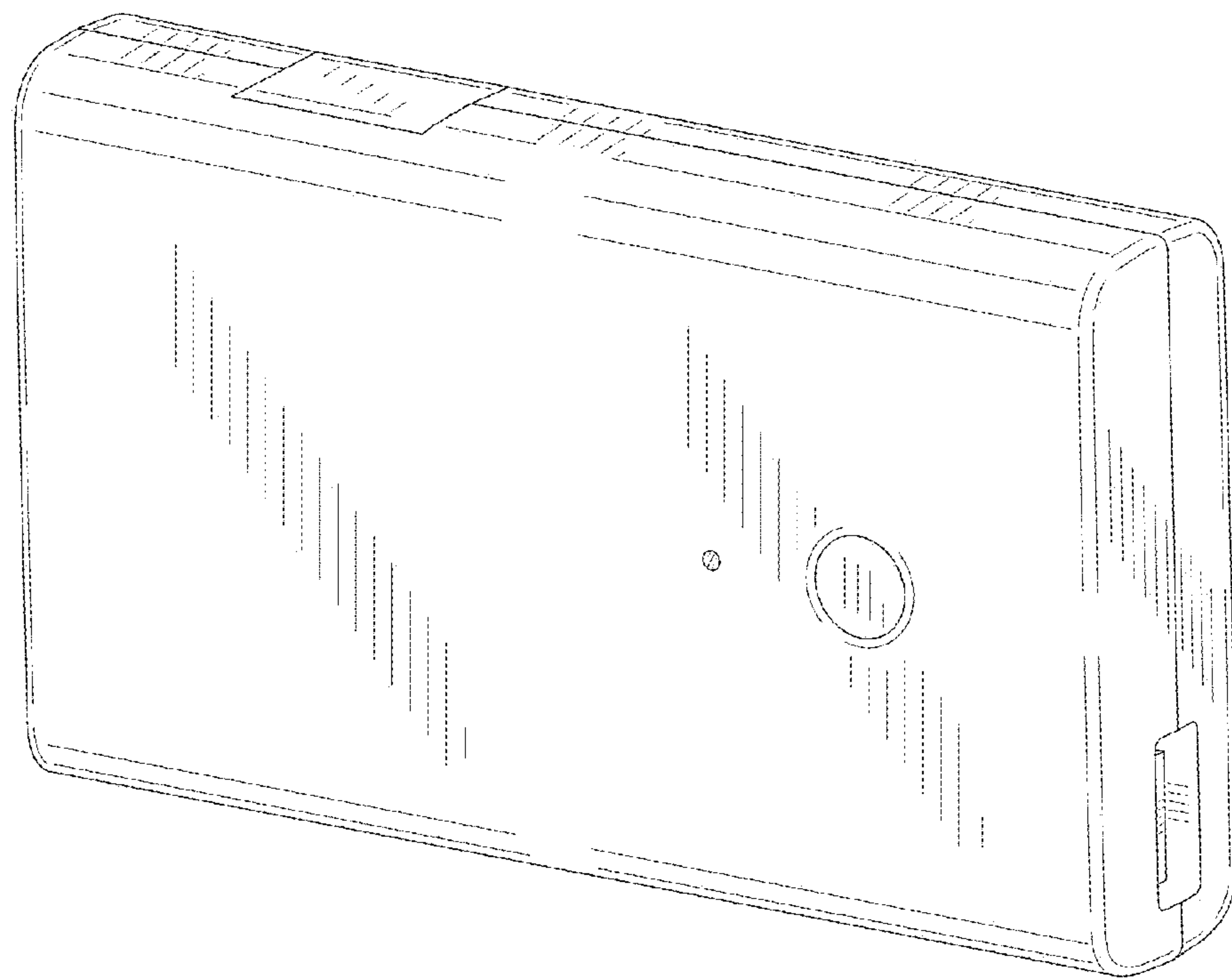


FIG.13

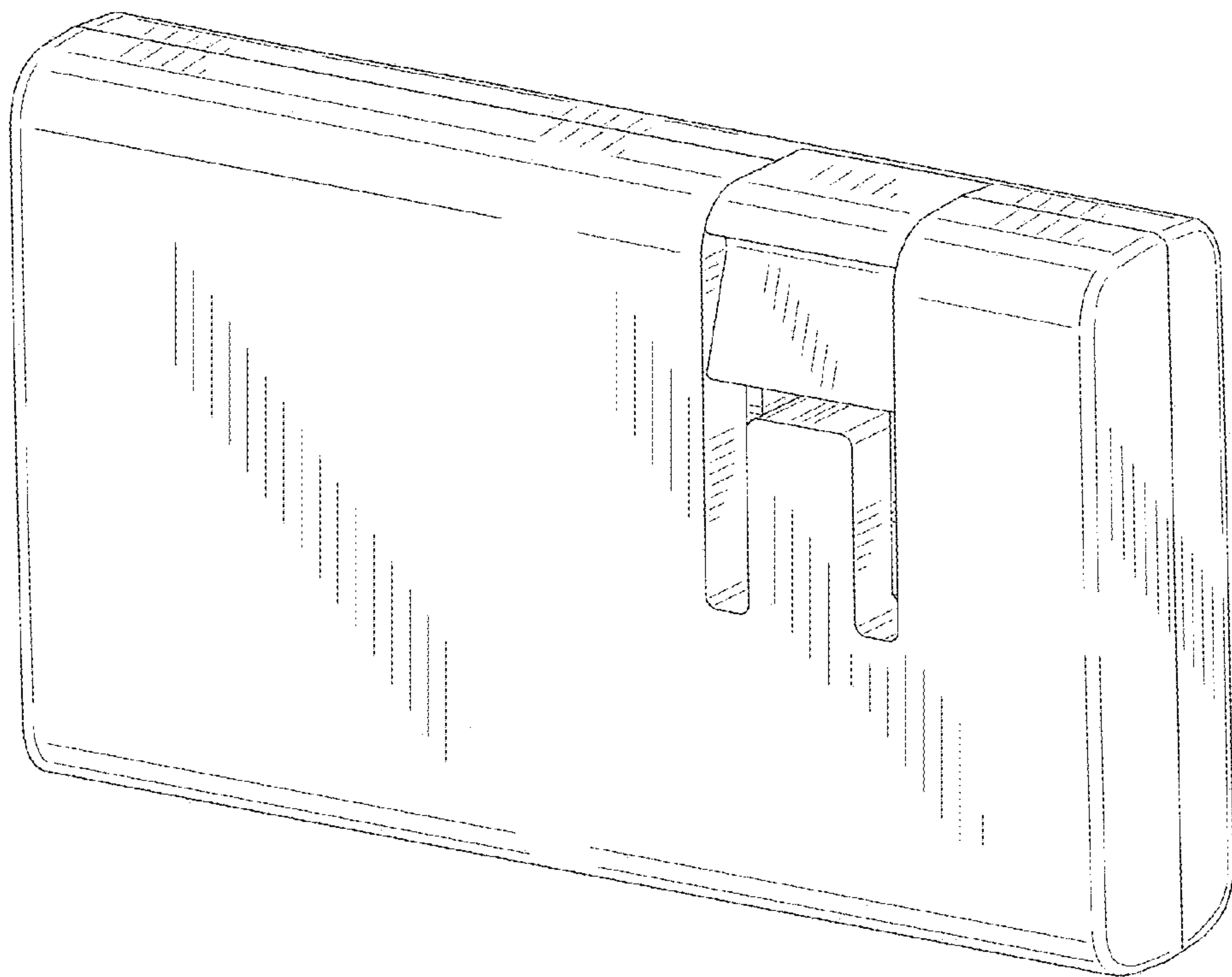


FIG.14

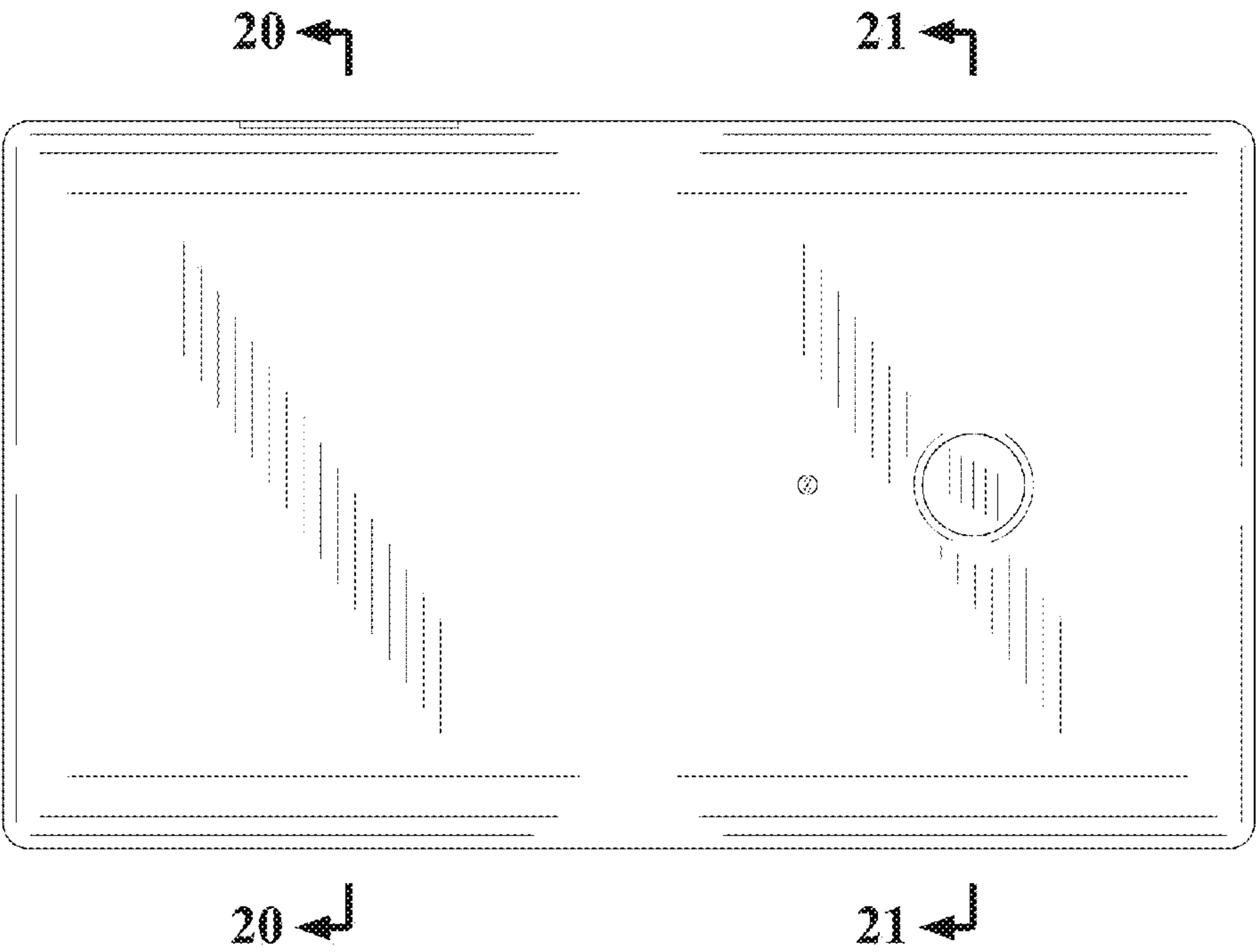


FIG.15

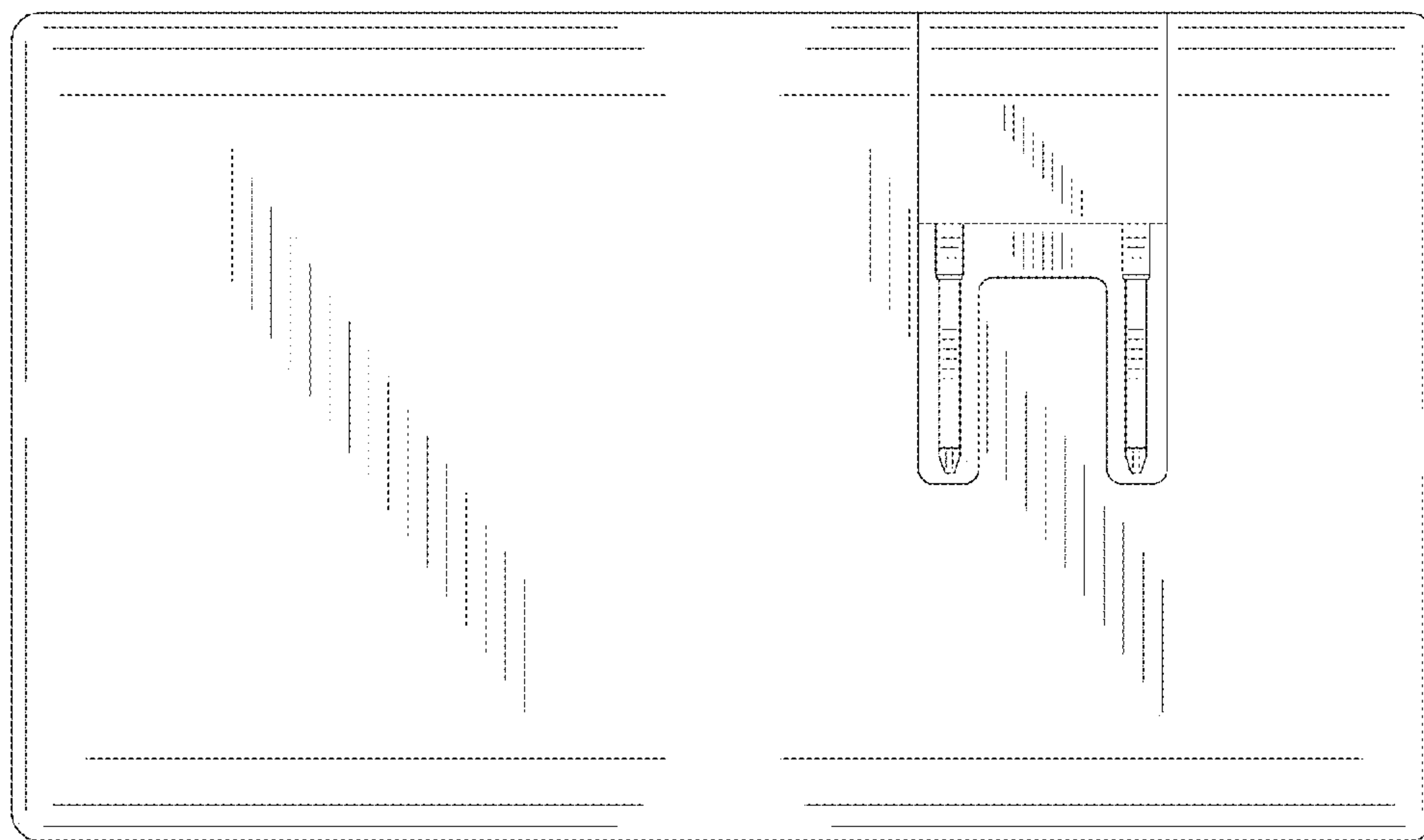


FIG.16

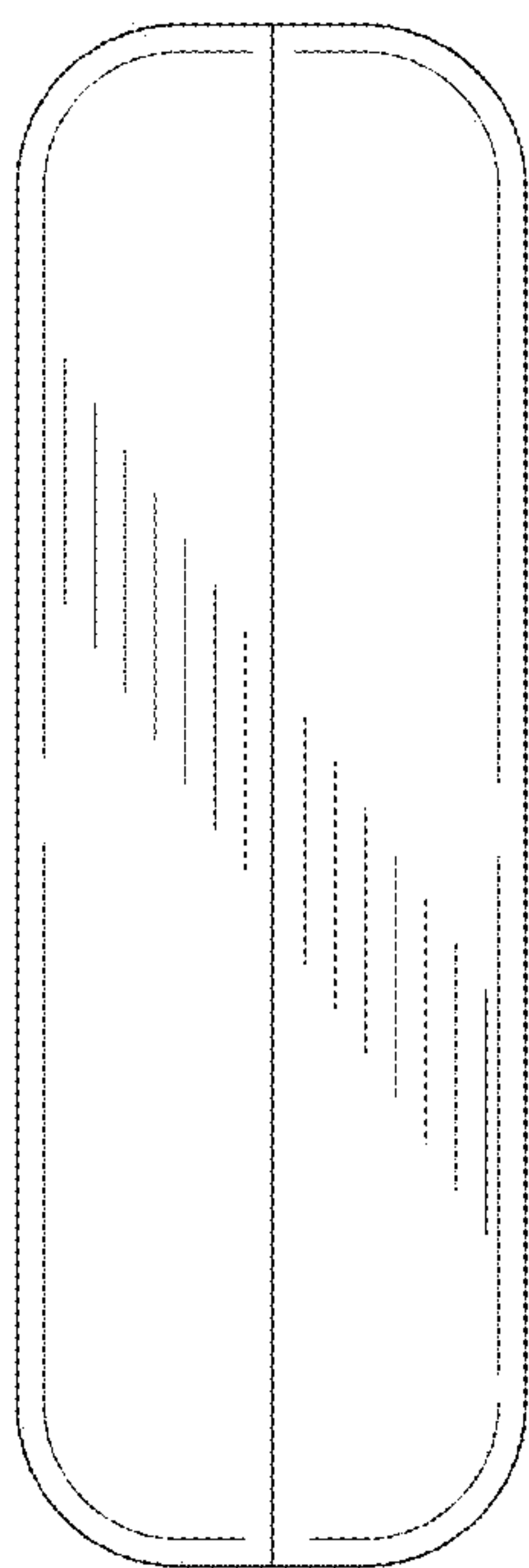


FIG.17

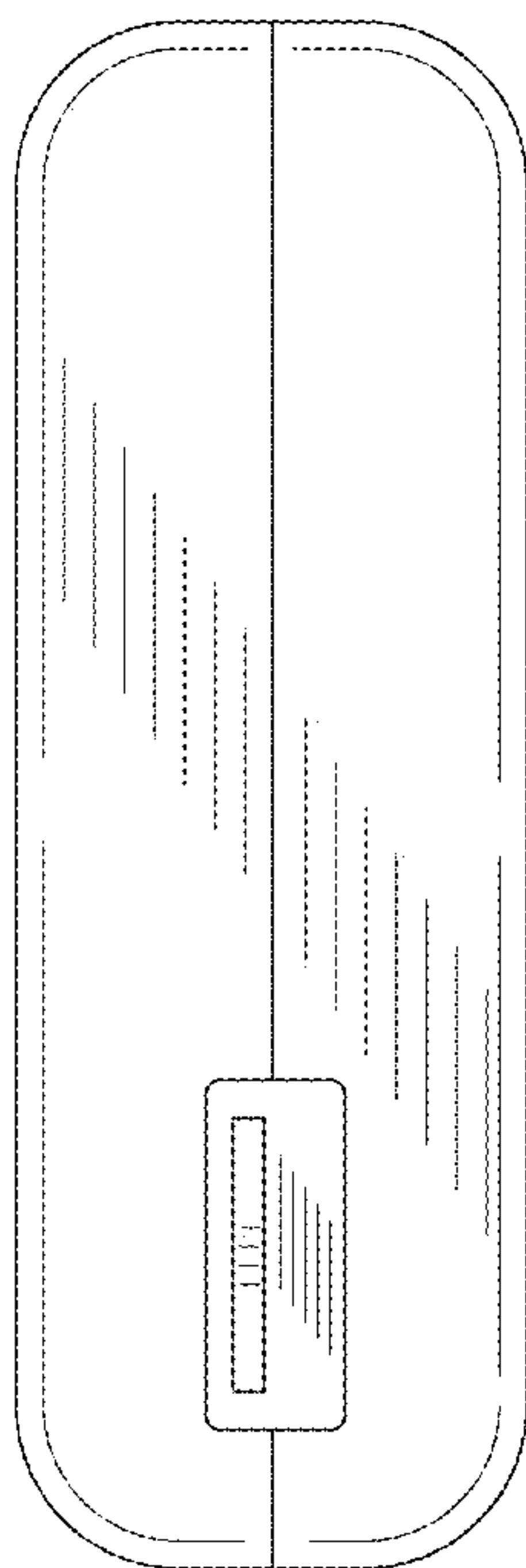


FIG.18

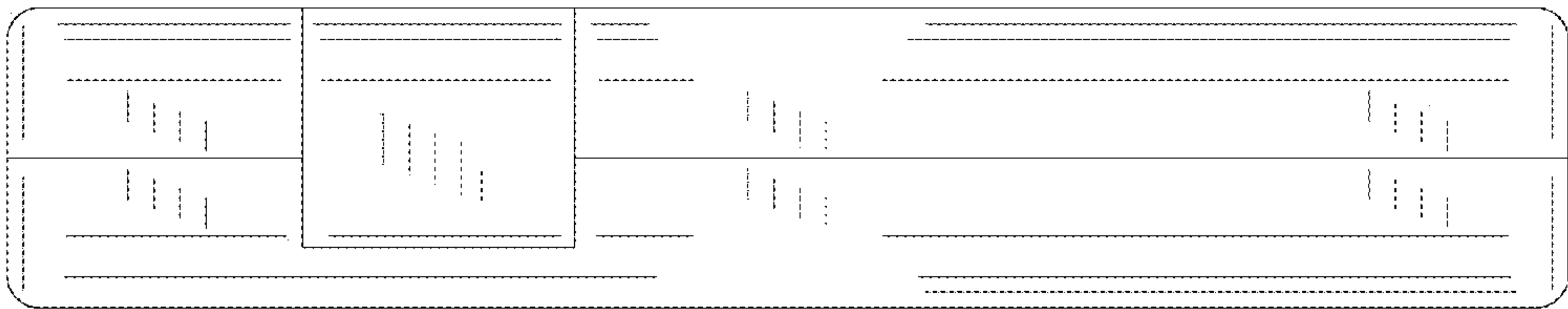


FIG.19

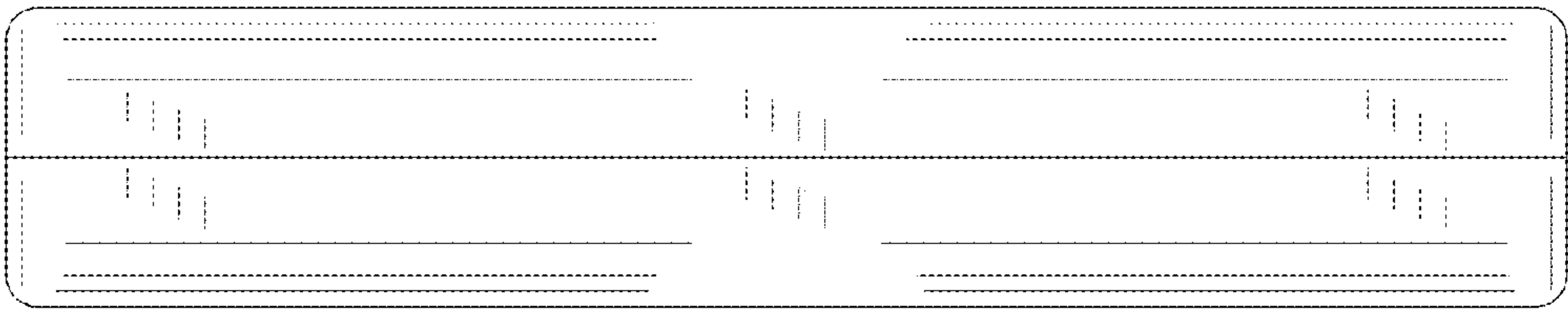


FIG.20

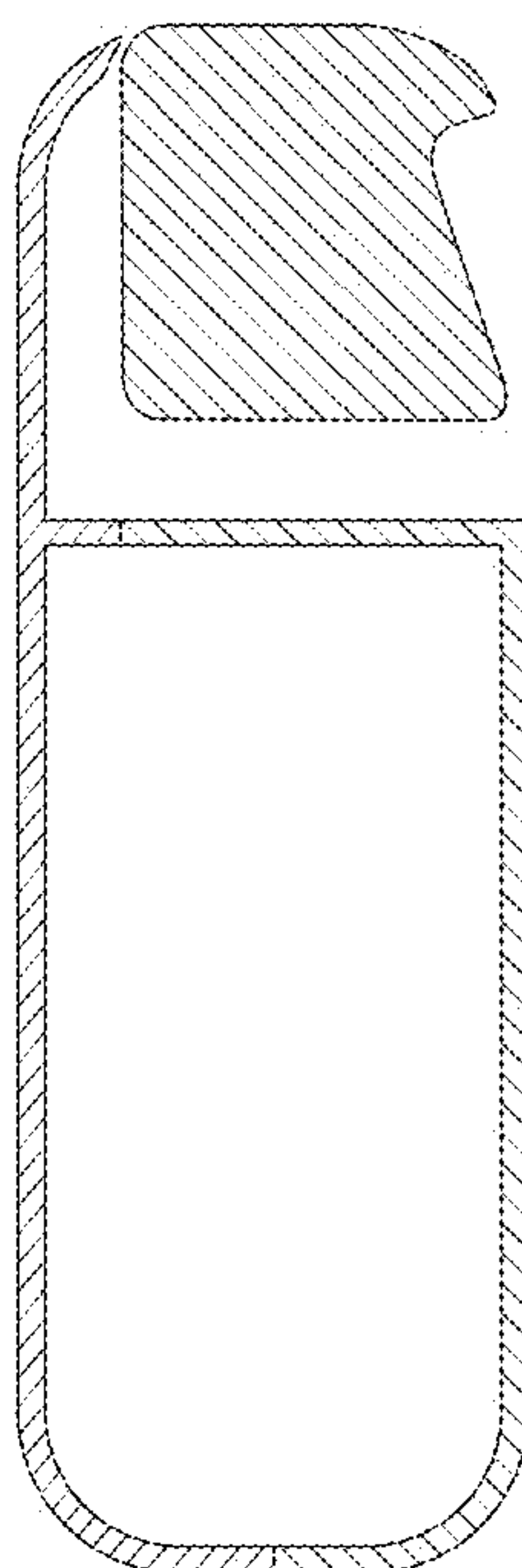


FIG.21

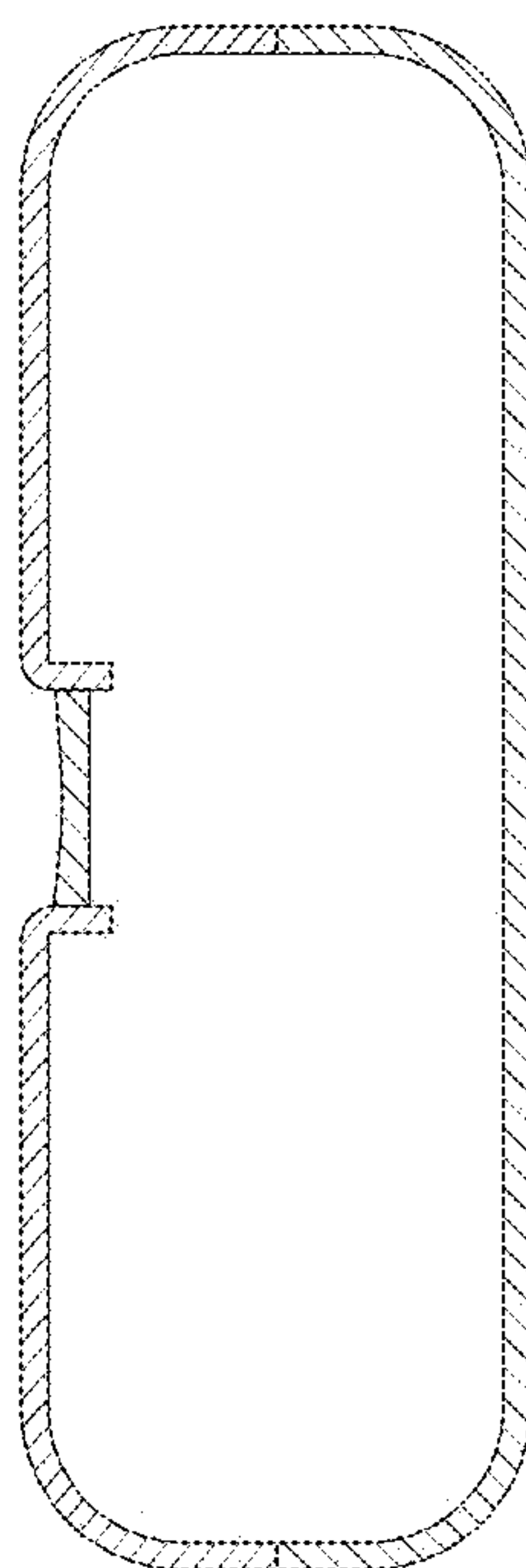


FIG.22

