

US00D909605S

(12) **United States Design Patent** (10) **Patent No.:** **US D909,605 S**
Mathers et al. (45) **Date of Patent:** **** Feb. 2, 2021**

(54) **POLYMERASE CHAIN REACTION INSTRUMENT**

(71) Applicant: **LIFE TECHNOLOGIES CORPORATION**, Carlsbad, CA (US)

(72) Inventors: **Xin Mathers**, Poway, CA (US); **Beng Heng Lim**, Singapore (SG); **Sandro Klein**, Irvine, CA (US)

(73) Assignee: **LIFE TECHNOLOGIES CORPORATION**, Carlsbad, CA (US)

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

(21) Appl. No.: **29/677,464**

(22) Filed: **Jan. 21, 2019**

(51) **LOC (13) Cl.** **24-01**

(52) **U.S. Cl.**
USPC **D24/232**

(58) **Field of Classification Search**
USPC D24/107, 186, 216, 219, 220, 221,
D24/223–227, 231, 232; D10/81
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D687,968 S 8/2013 Trigg et al.
D775,365 S 12/2016 Mathers et al.
(Continued)

Primary Examiner — Anhdao Doan

(74) *Attorney, Agent, or Firm* — Life Technologies Corporation

(57) **CLAIM**

The ornamental design for a polymerase chain reaction instrument, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a first embodiment of a polymerase chain reaction instrument;

FIG. 2 is a back perspective view thereof;

FIG. 3 is a front view thereof;

FIG. 4 is a back view thereof;

FIG. 5 is a side view thereof;

FIG. 6 is a side view thereof;

FIG. 7 is a top view thereof;

FIG. 8 is a bottom view thereof;

FIG. 9 is a front perspective view of a second embodiment of a polymerase chain reaction instrument;

FIG. 10 is a front view thereof;

FIG. 11 is a back view thereof;

FIG. 12 is a side view thereof;

FIG. 13 is a side view thereof;

FIG. 14 is a top view thereof;

FIG. 15 is a bottom view thereof;

FIG. 16 is a front perspective view of a third embodiment of a polymerase chain reaction instrument;

FIG. 17 is a front view thereof;

FIG. 18 is a back view thereof;

FIG. 19 is a side view thereof;

FIG. 20 is a side view thereof;

FIG. 21 is a top view thereof;

FIG. 22 is a bottom view thereof;

FIG. 23 is a front perspective view of the third embodiment of the polymerase chain reaction instrument with the door in an open position;

FIG. 24 is a front view thereof;

FIG. 25 is a back view thereof;

FIG. 26 is a side view thereof;

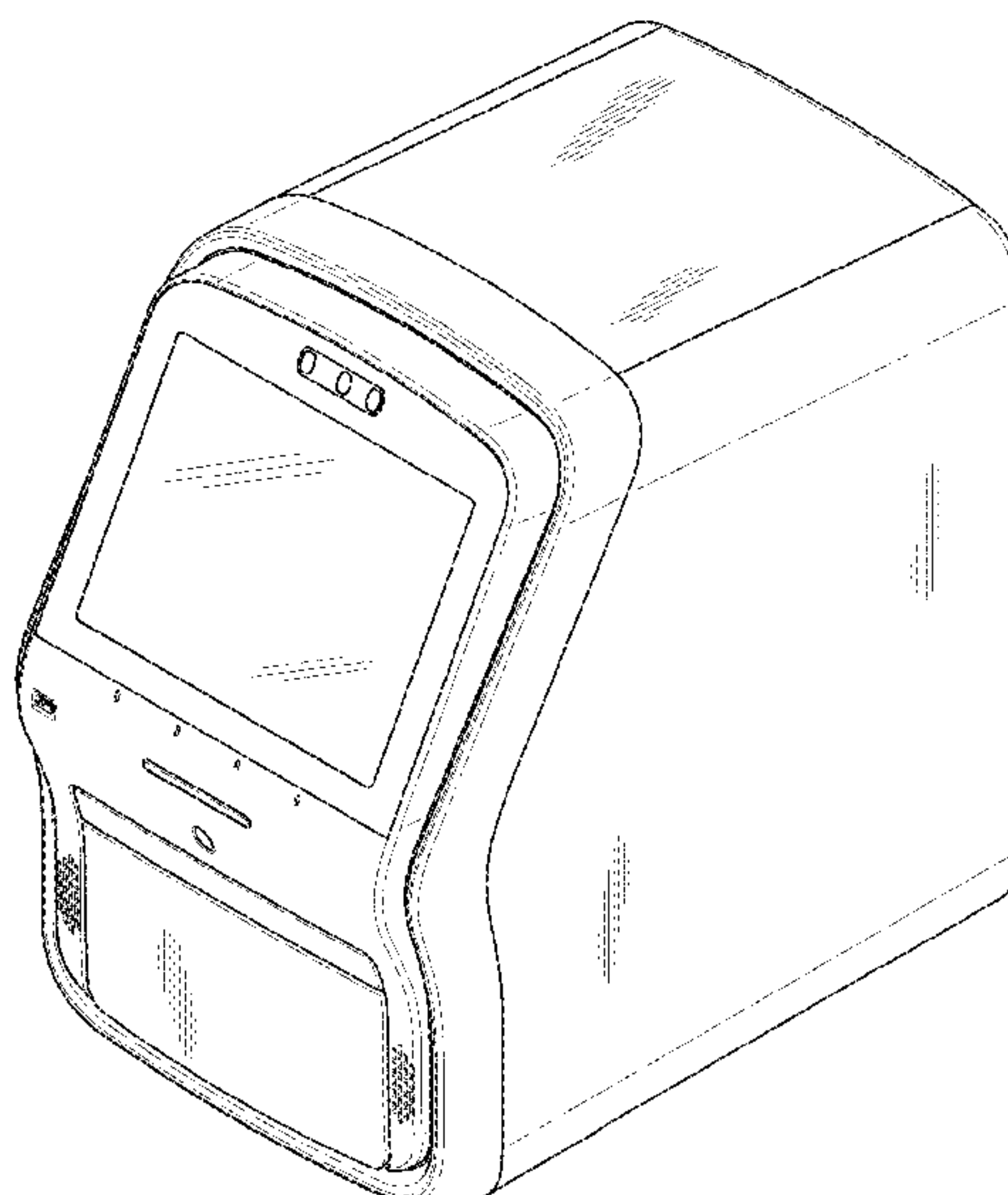
FIG. 27 is a side view thereof;

FIG. 28 is a top view thereof; and,

FIG. 29 is a bottom view thereof.

The broken lines immediately adjacent the shaded areas represent the bounds of the claim, while all other broken lines are directed to environment and are for illustrative purposes only; the broken lines form no part of the claimed design.

1 Claim, 29 Drawing Sheets



(58) **Field of Classification Search**

CPC G01N 2035/00306; G01N 2035/00326;
G01N 2035/00336; G01N 2035/00366;
G01N 21/6428; G01N 21/645; G01N
2201/068; C12Q 1/686; B01L 7/52

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D819,225	S	5/2018	Mead et al.	
D834,724	S *	11/2018	Mathers	D24/232
D854,188	S *	7/2019	Schaeken	D24/232
D865,220	S *	10/2019	Davidson	D24/232
2016/0228876	A1 *	8/2016	Chu	C12Q 1/6806

* cited by examiner

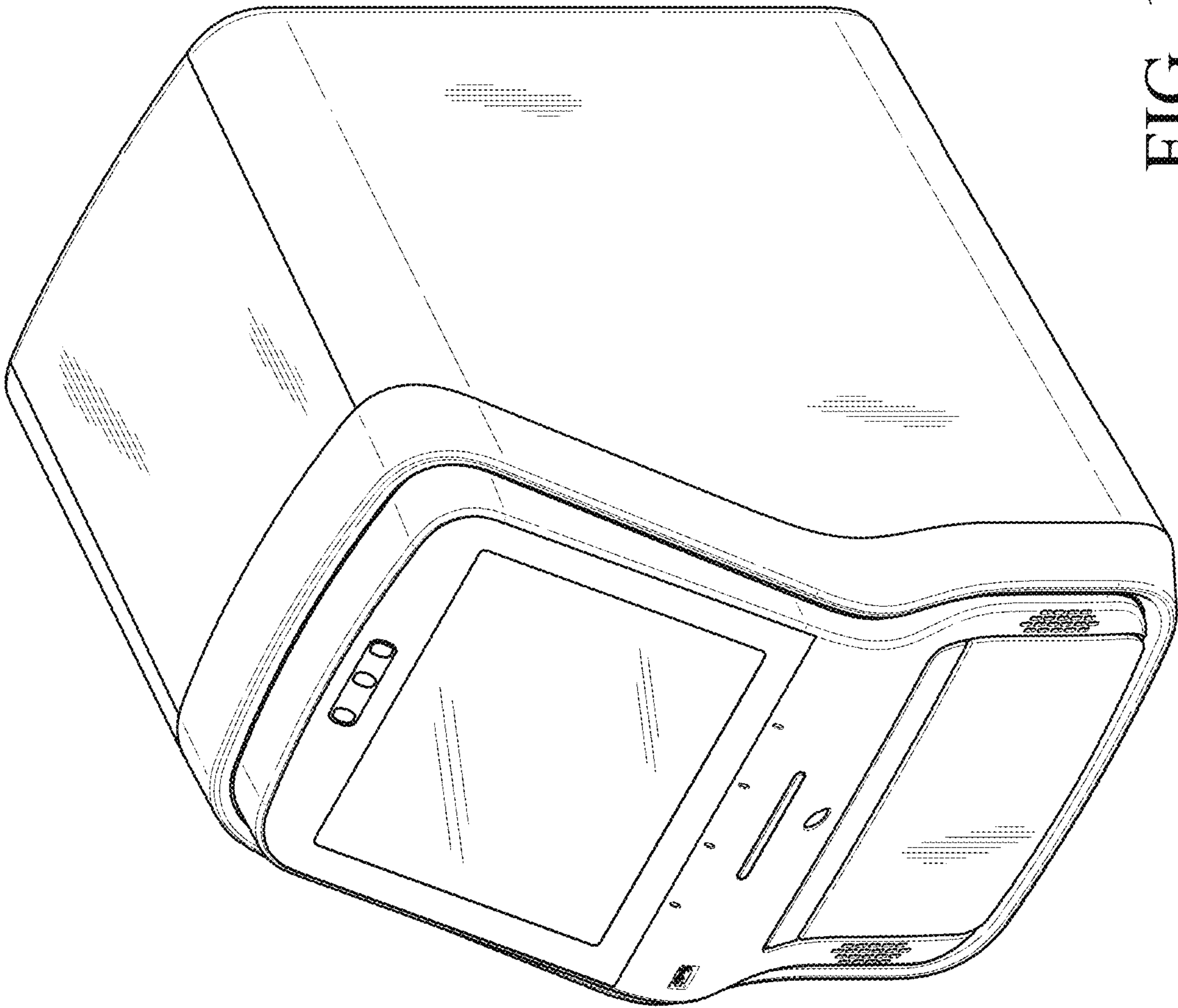


FIG. 1

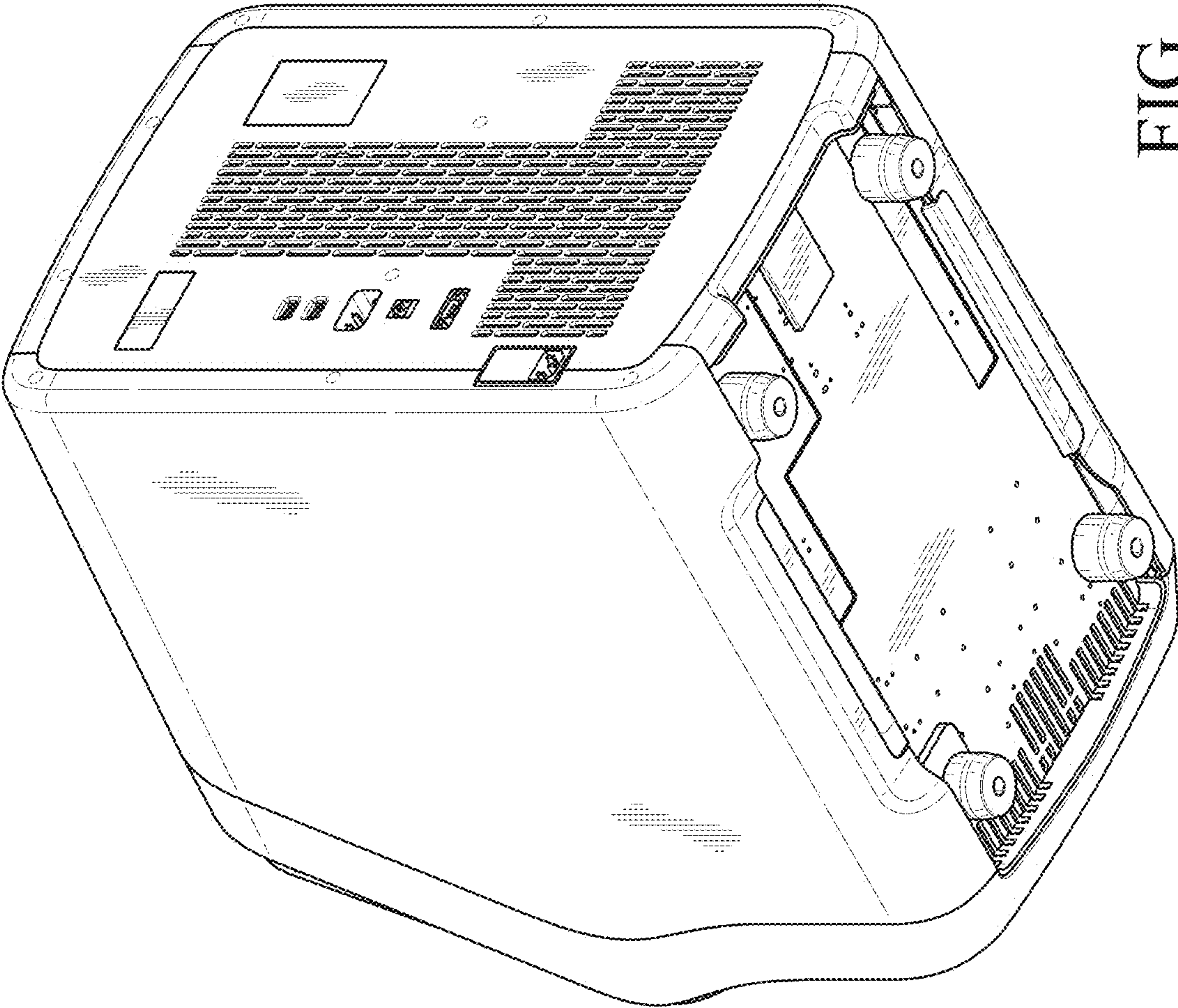


FIG. 2

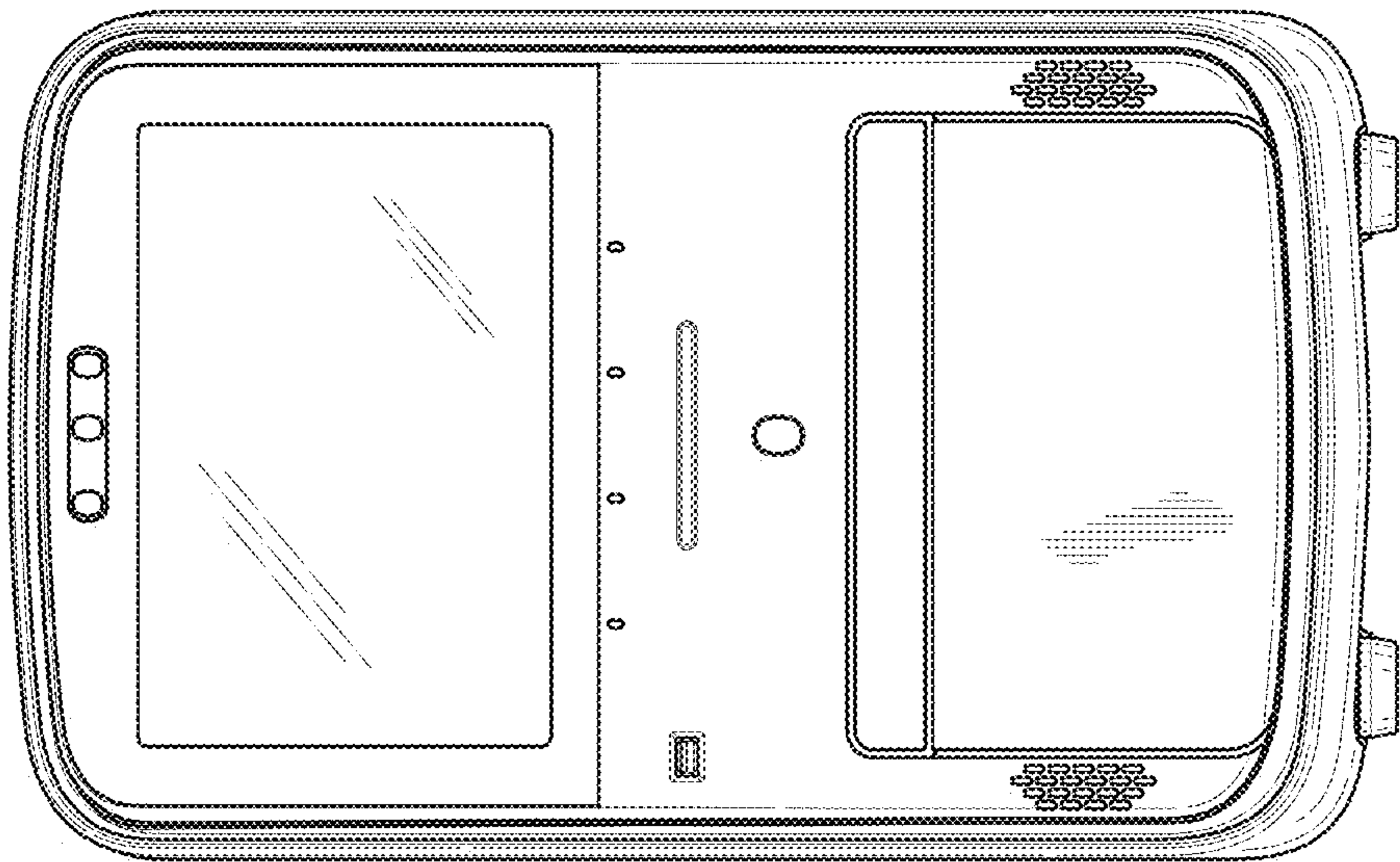


FIG. 3

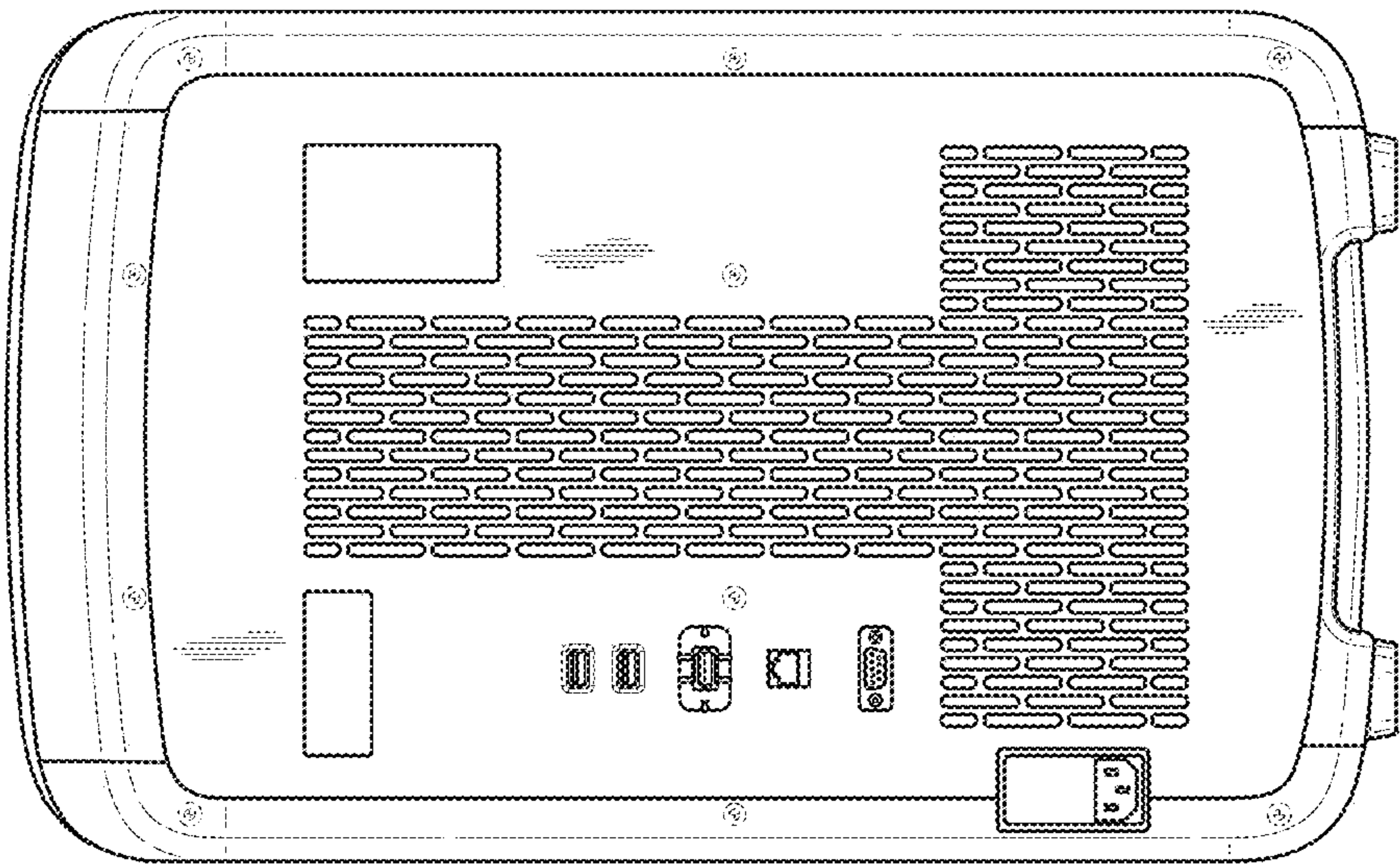


FIG. 4

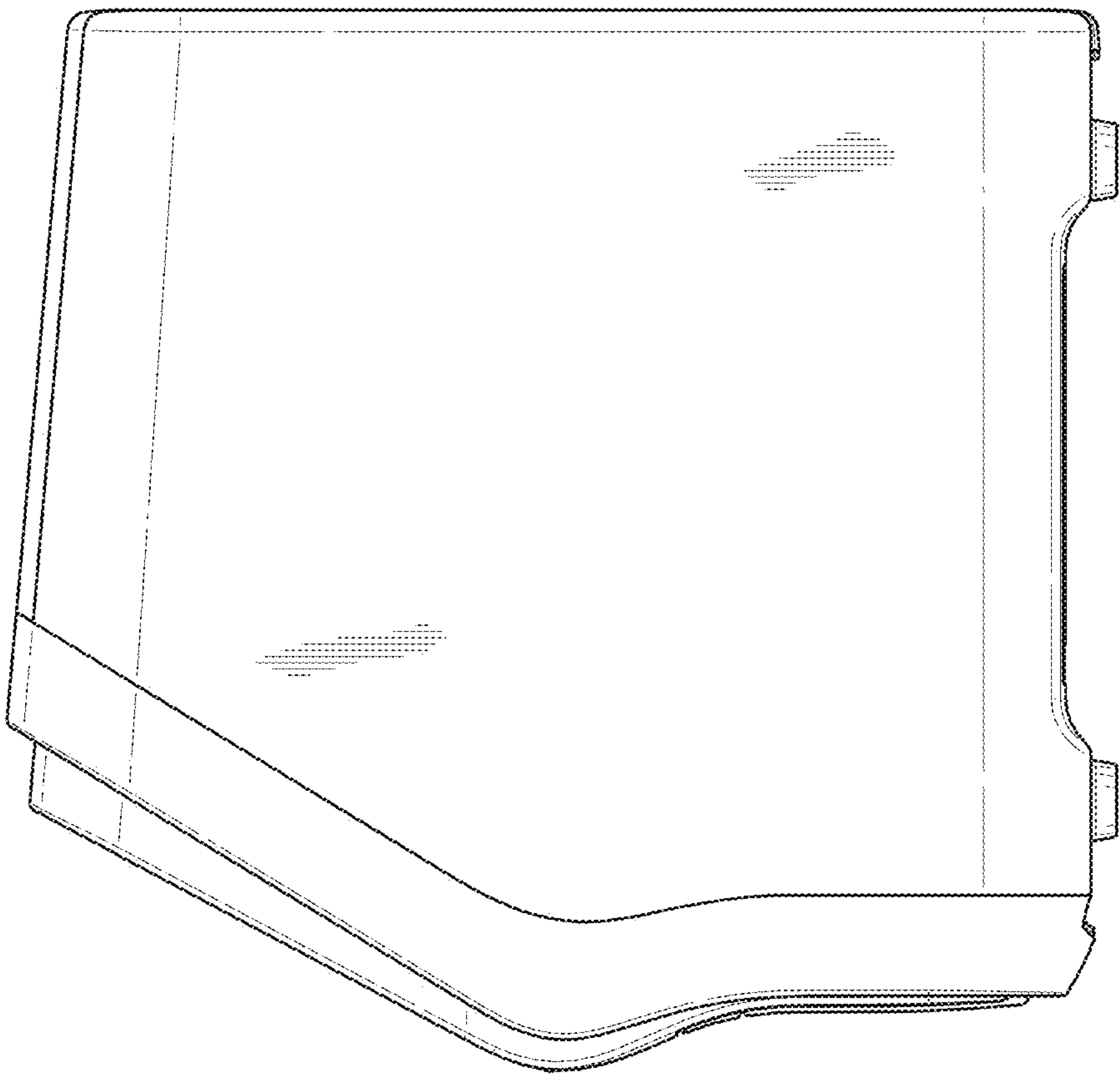


FIG. 5

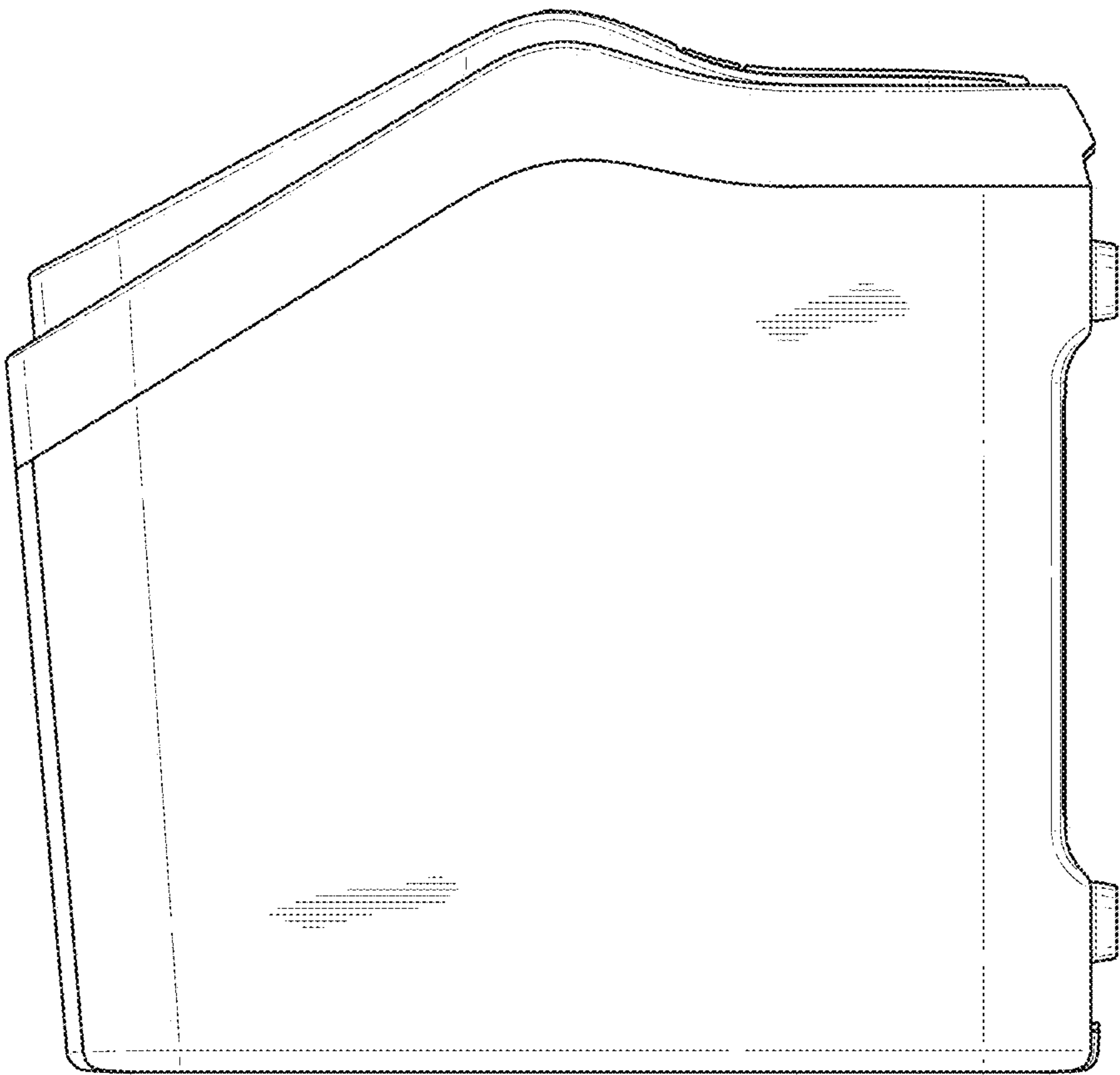


FIG. 6

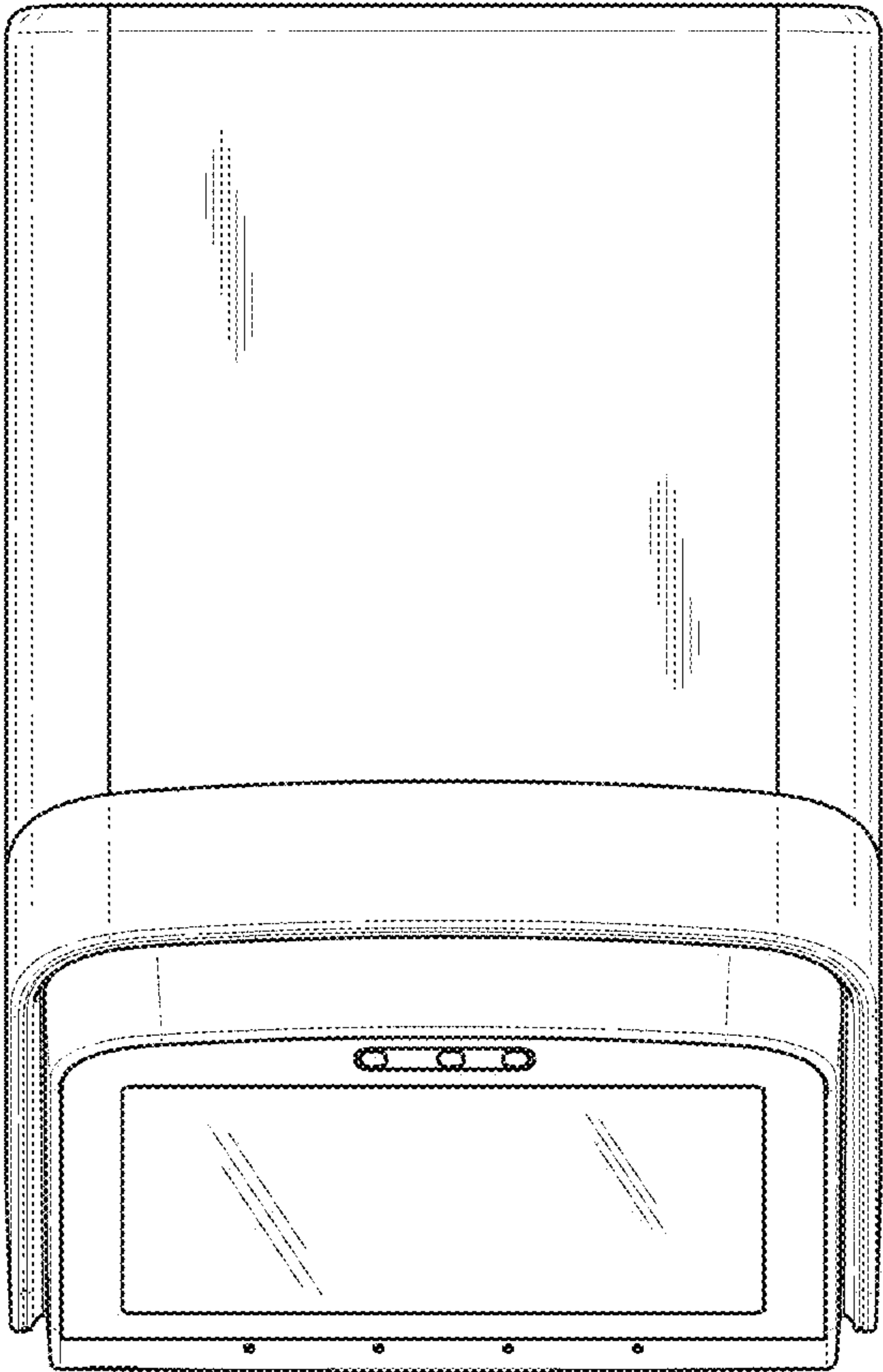


FIG. 7

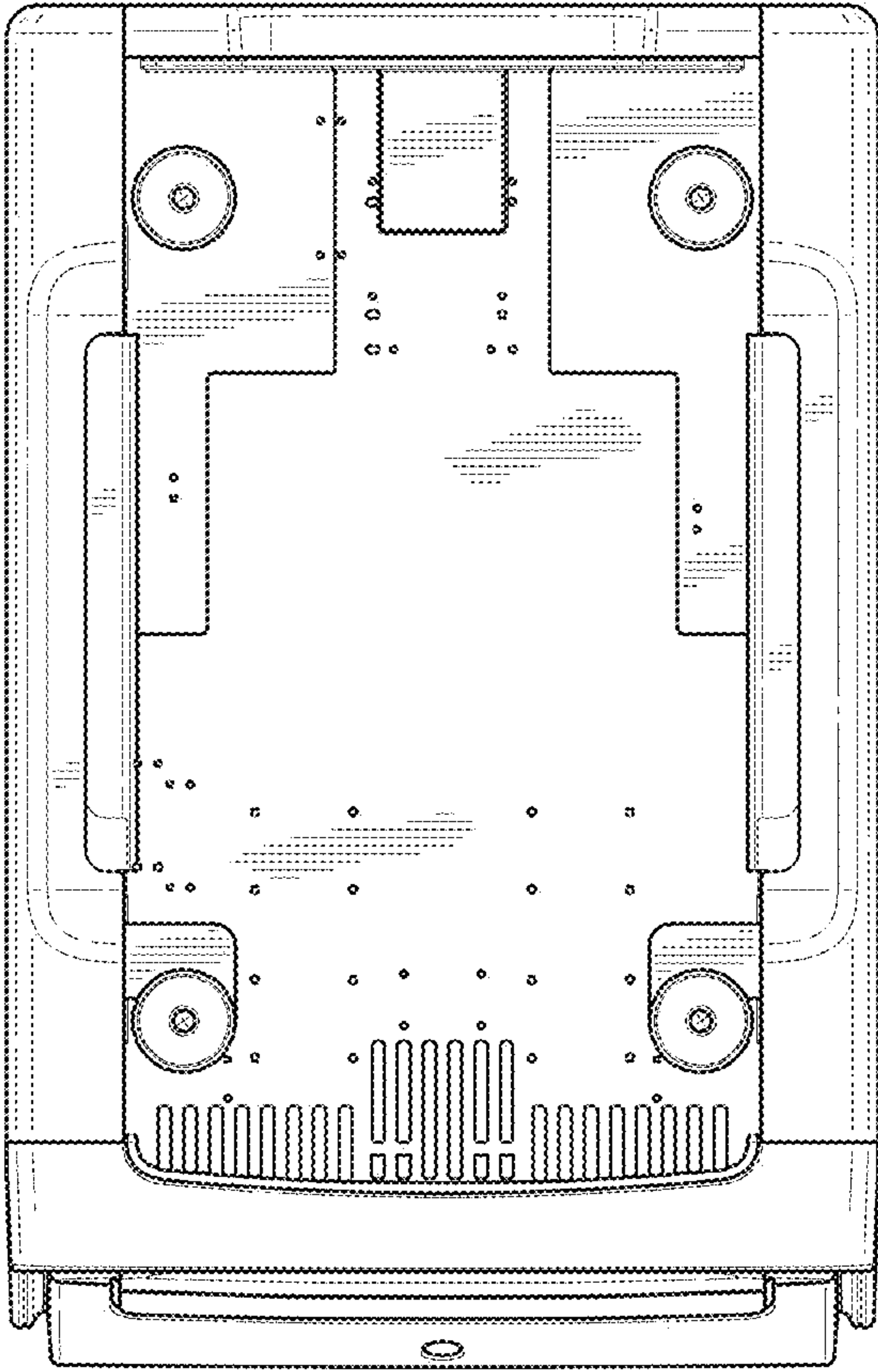


FIG. 8

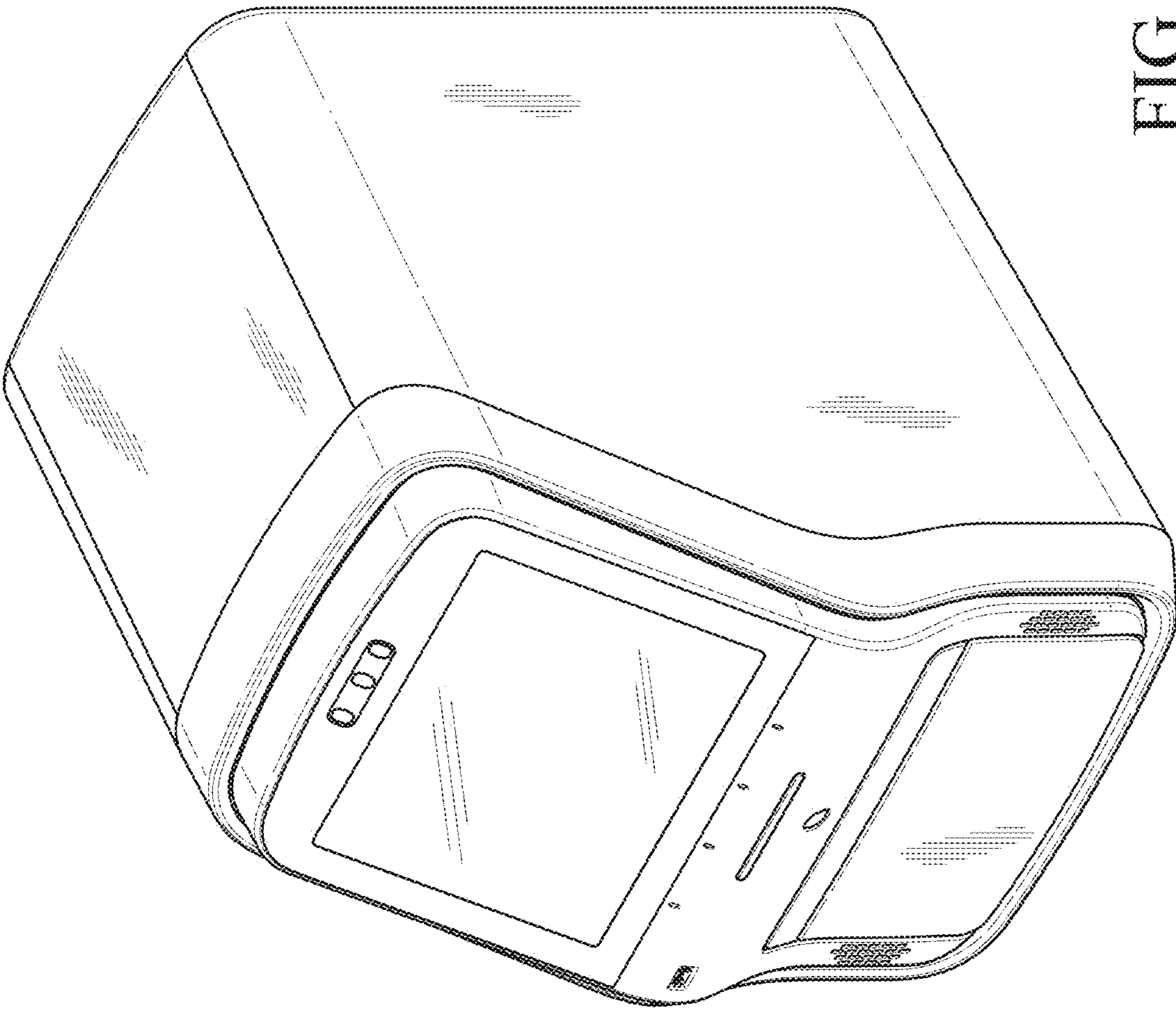


FIG. 9

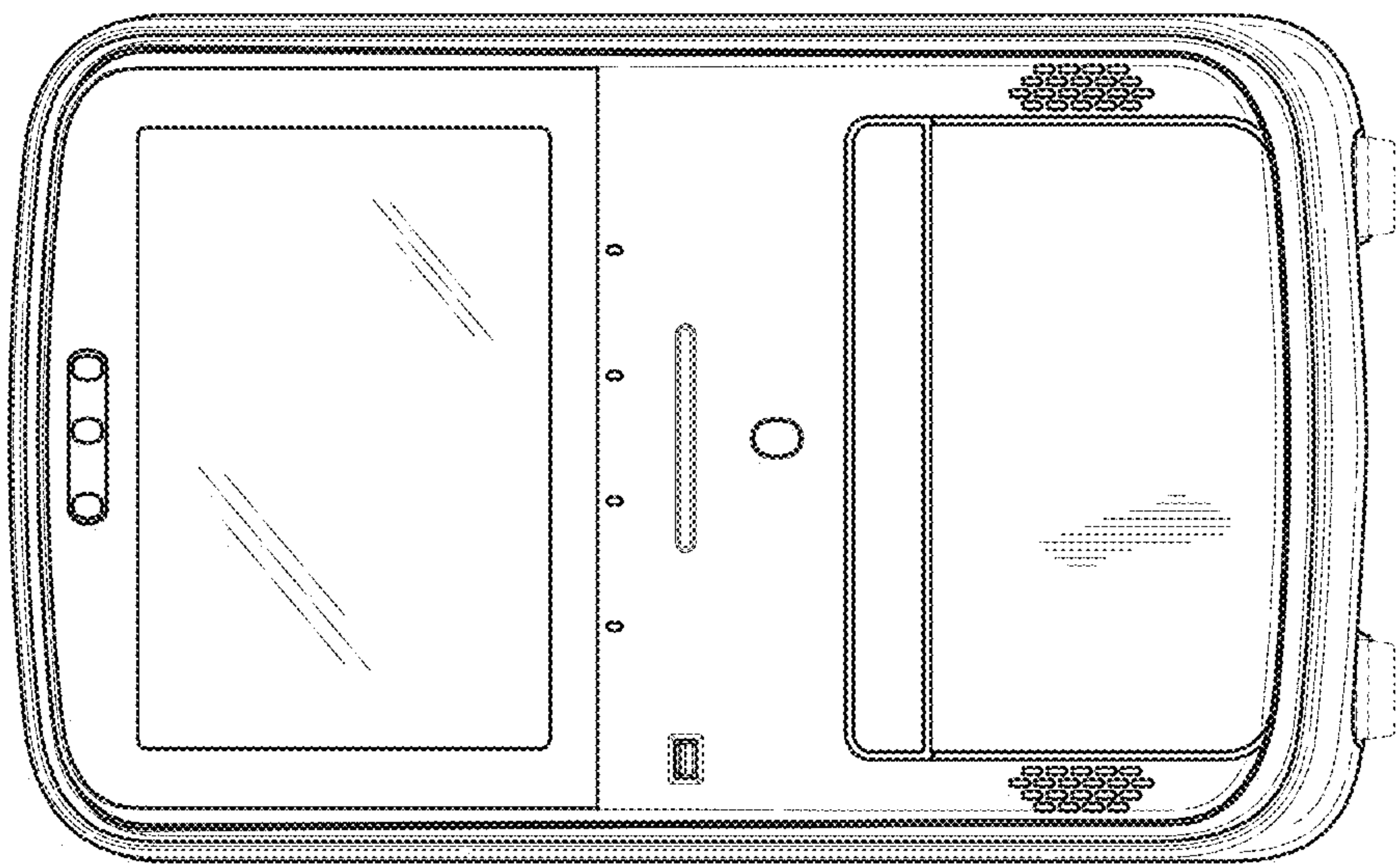


FIG. 10

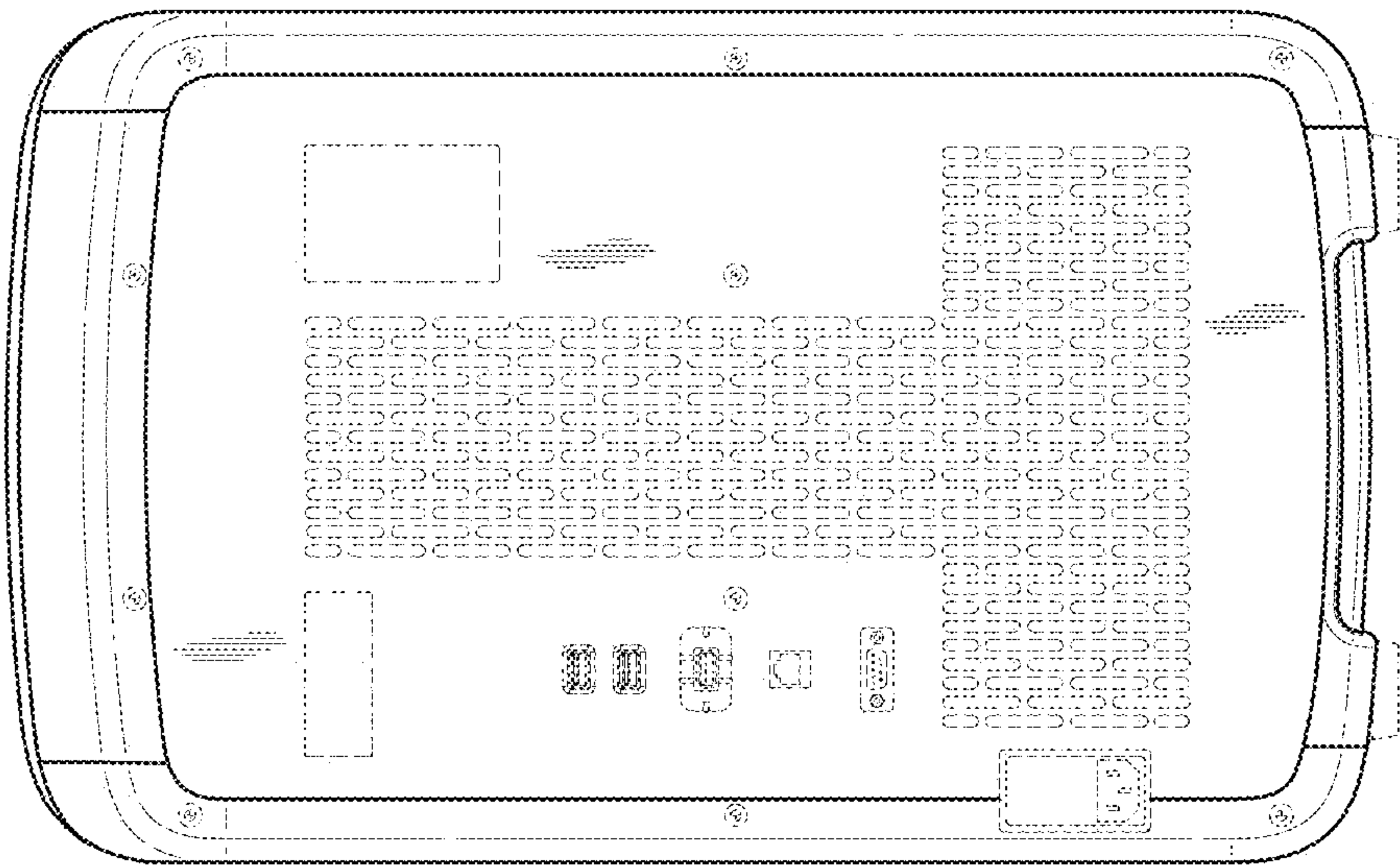


FIG. 11

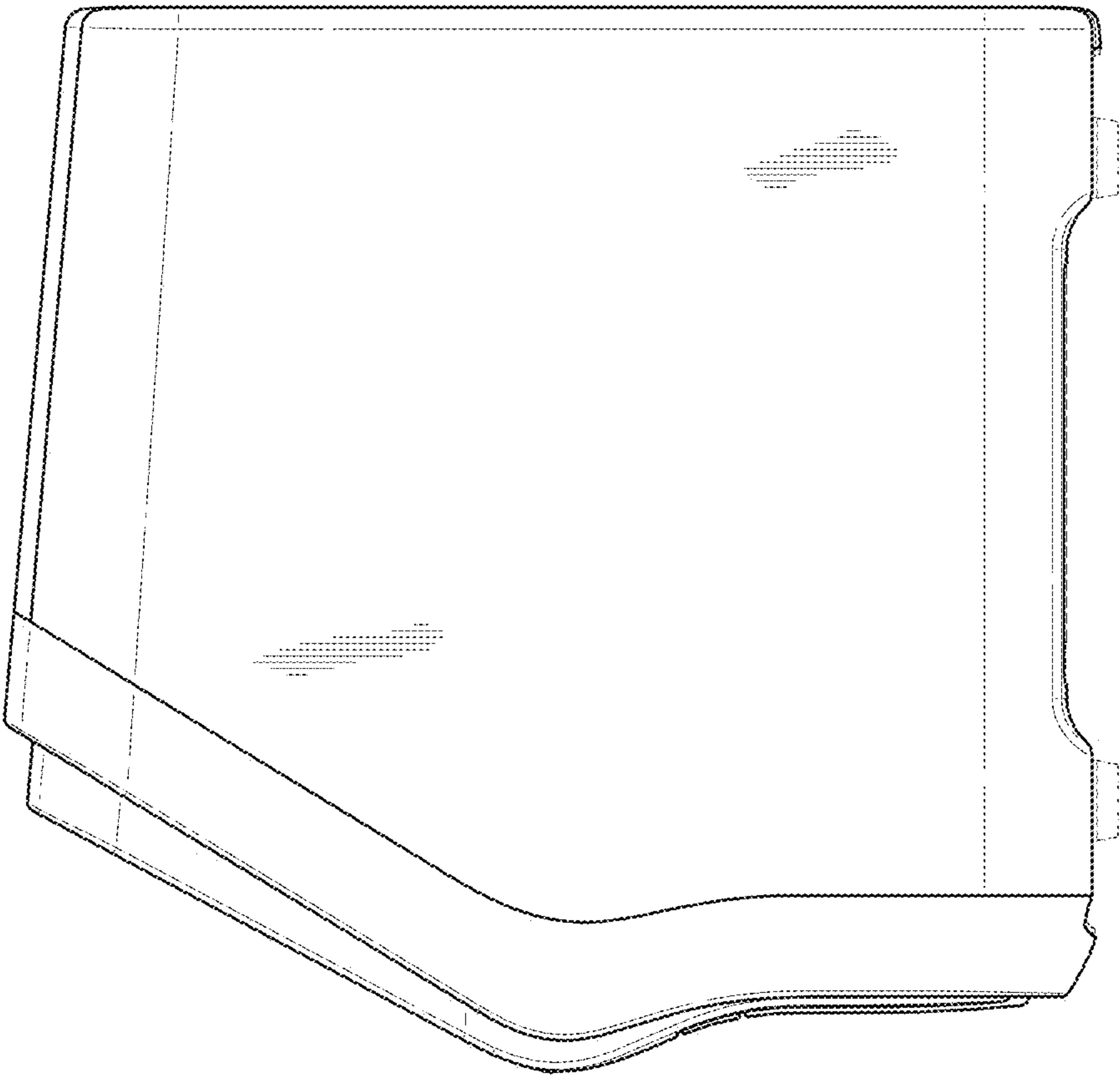


FIG. 12

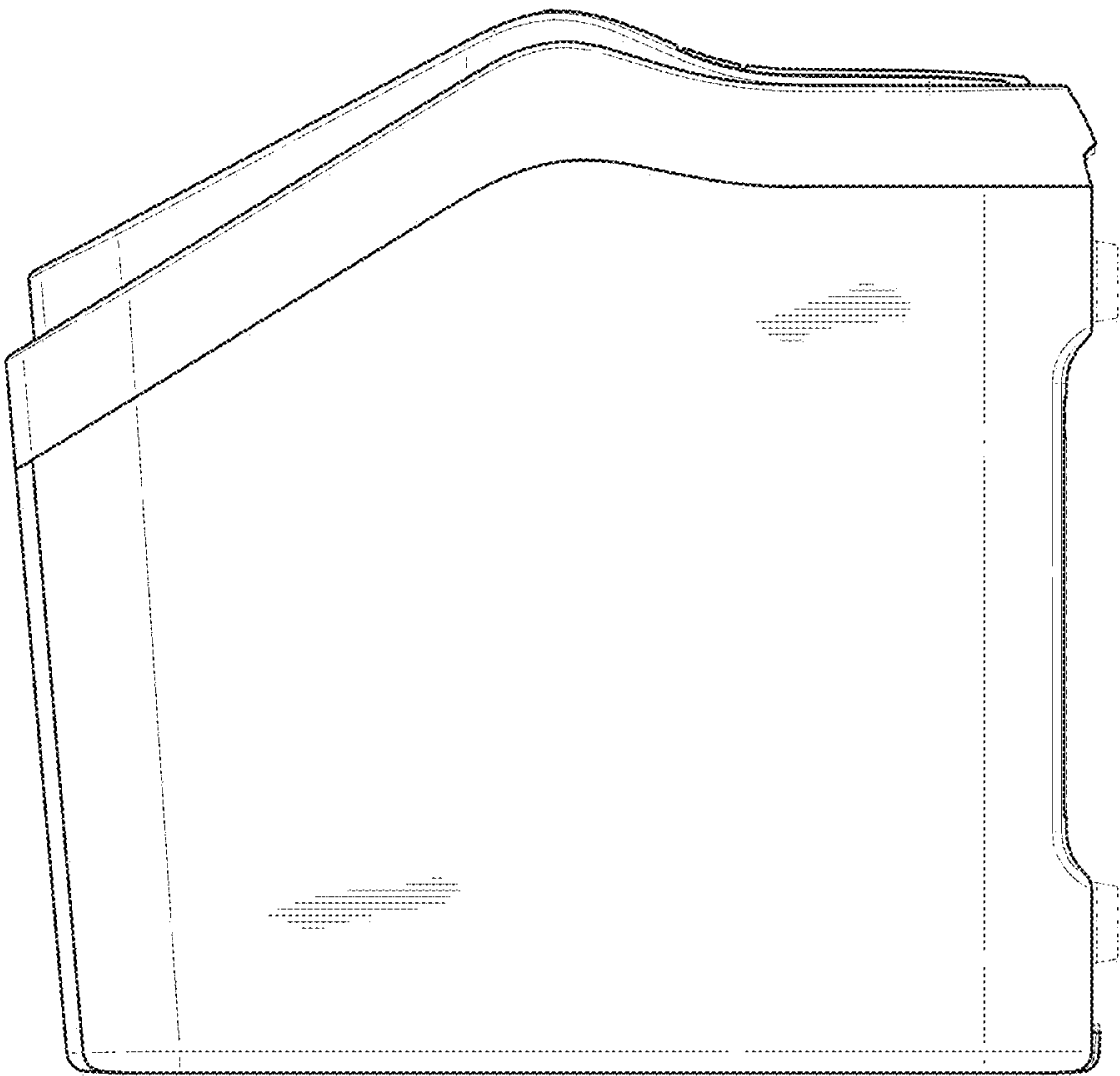


FIG. 13

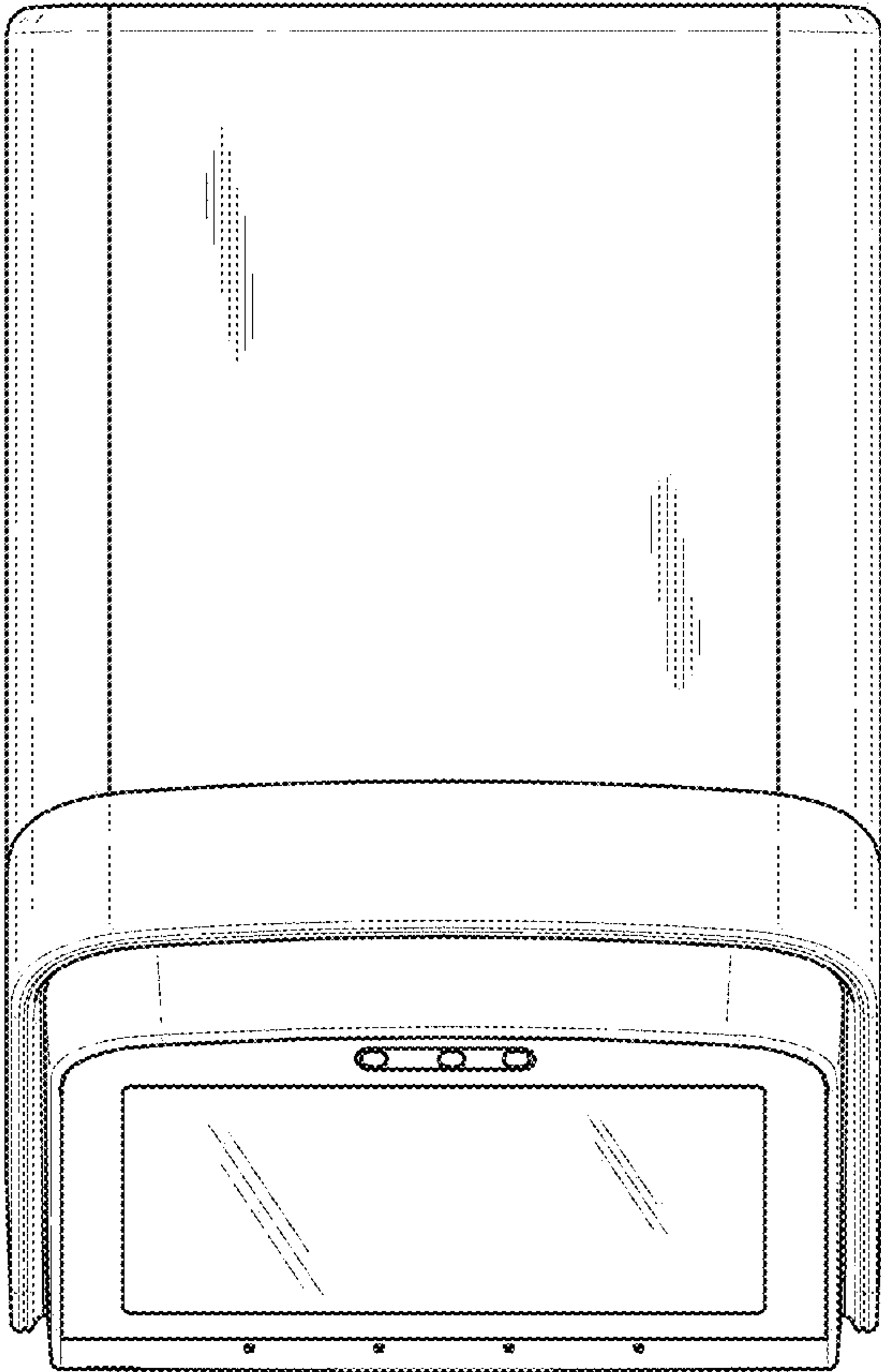


FIG. 14

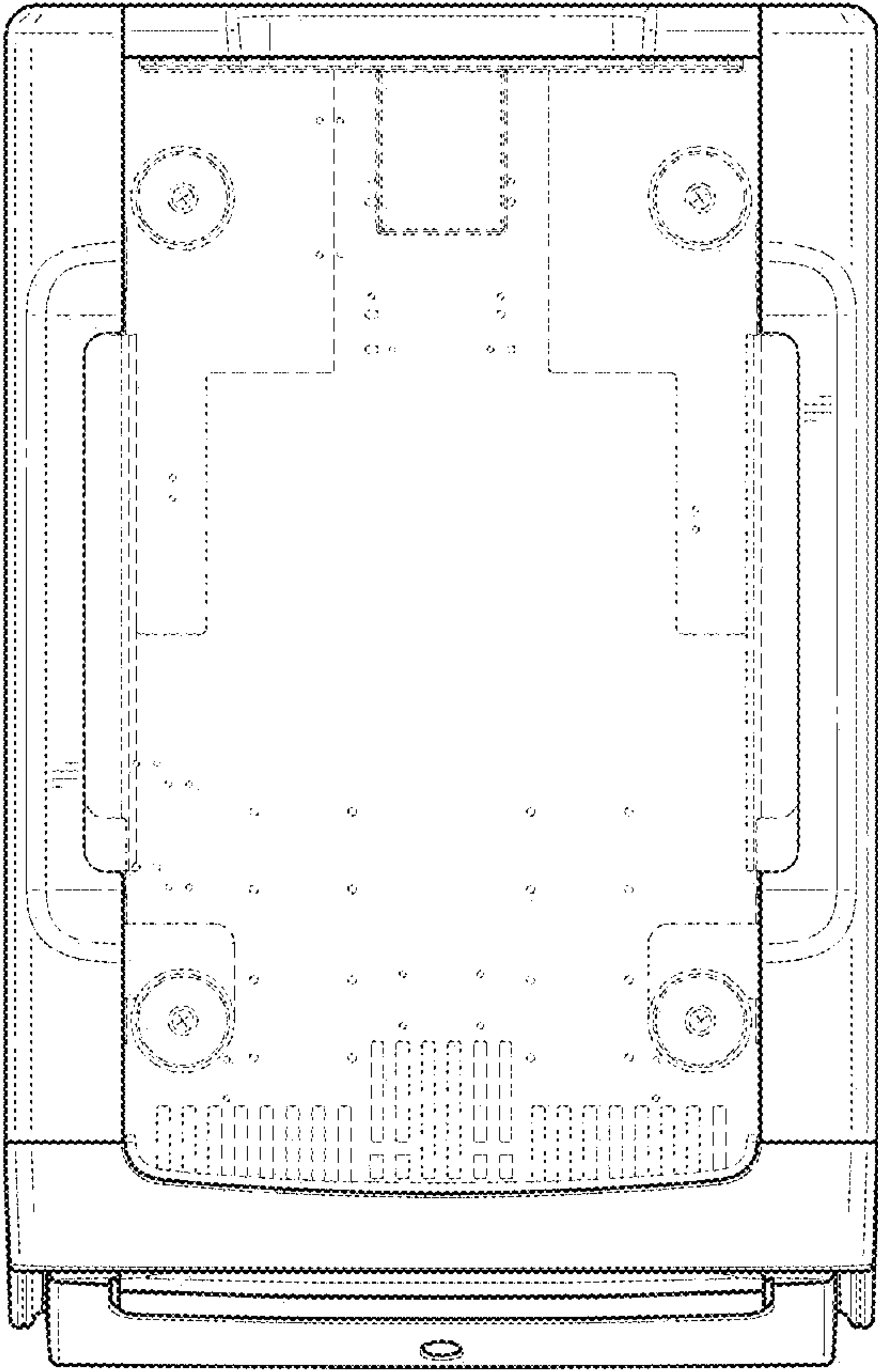


FIG. 15

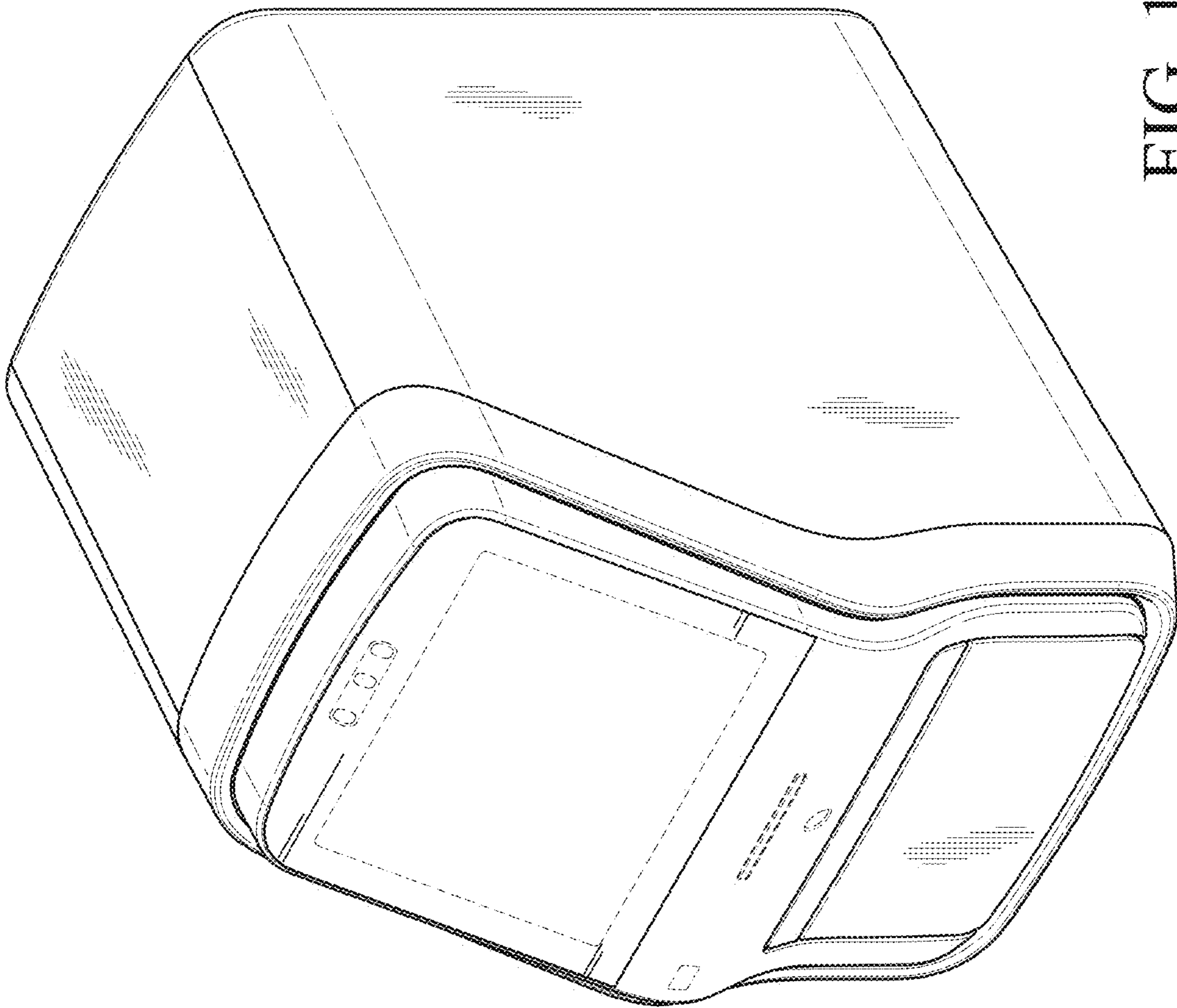


FIG. 16

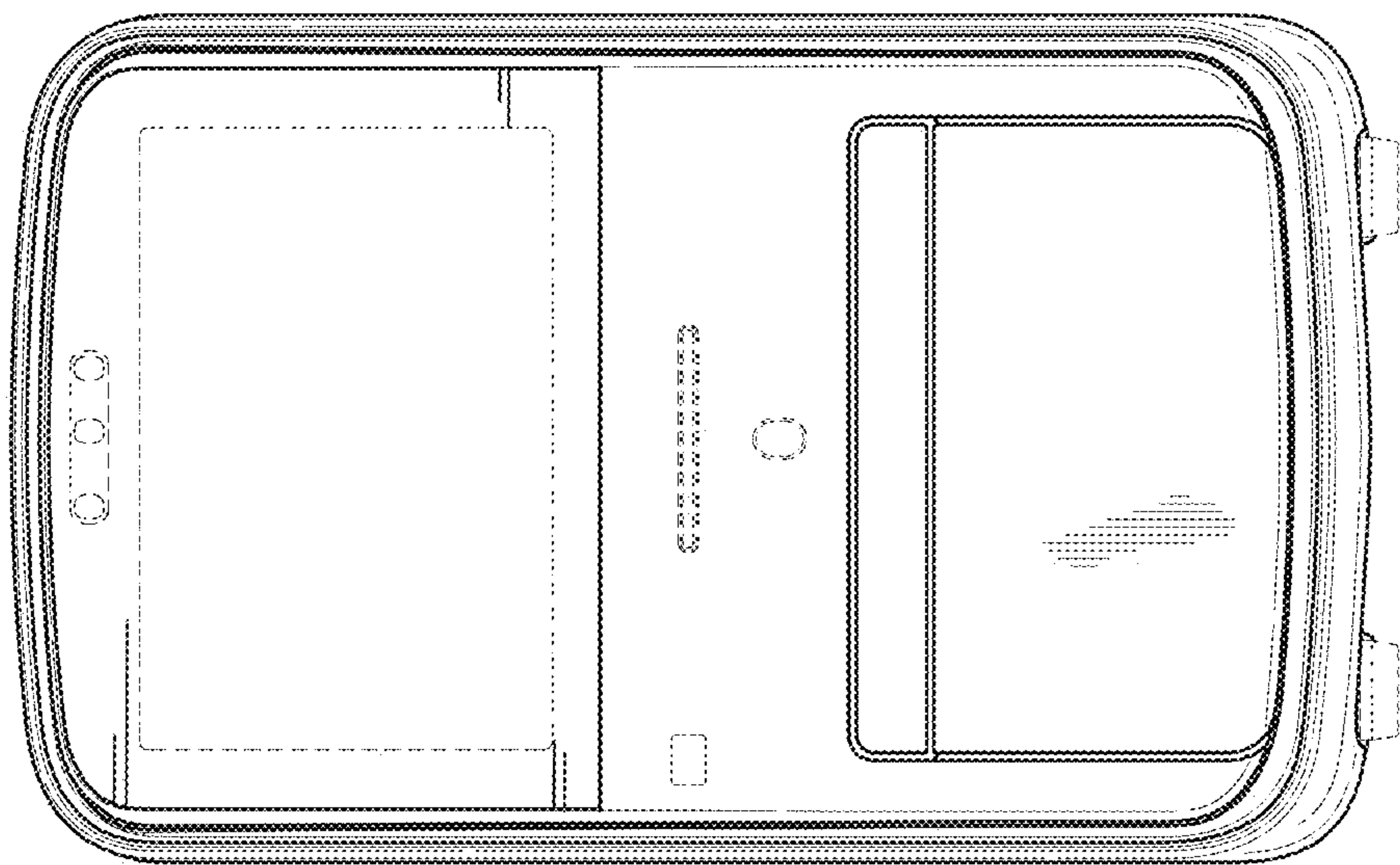


FIG. 17

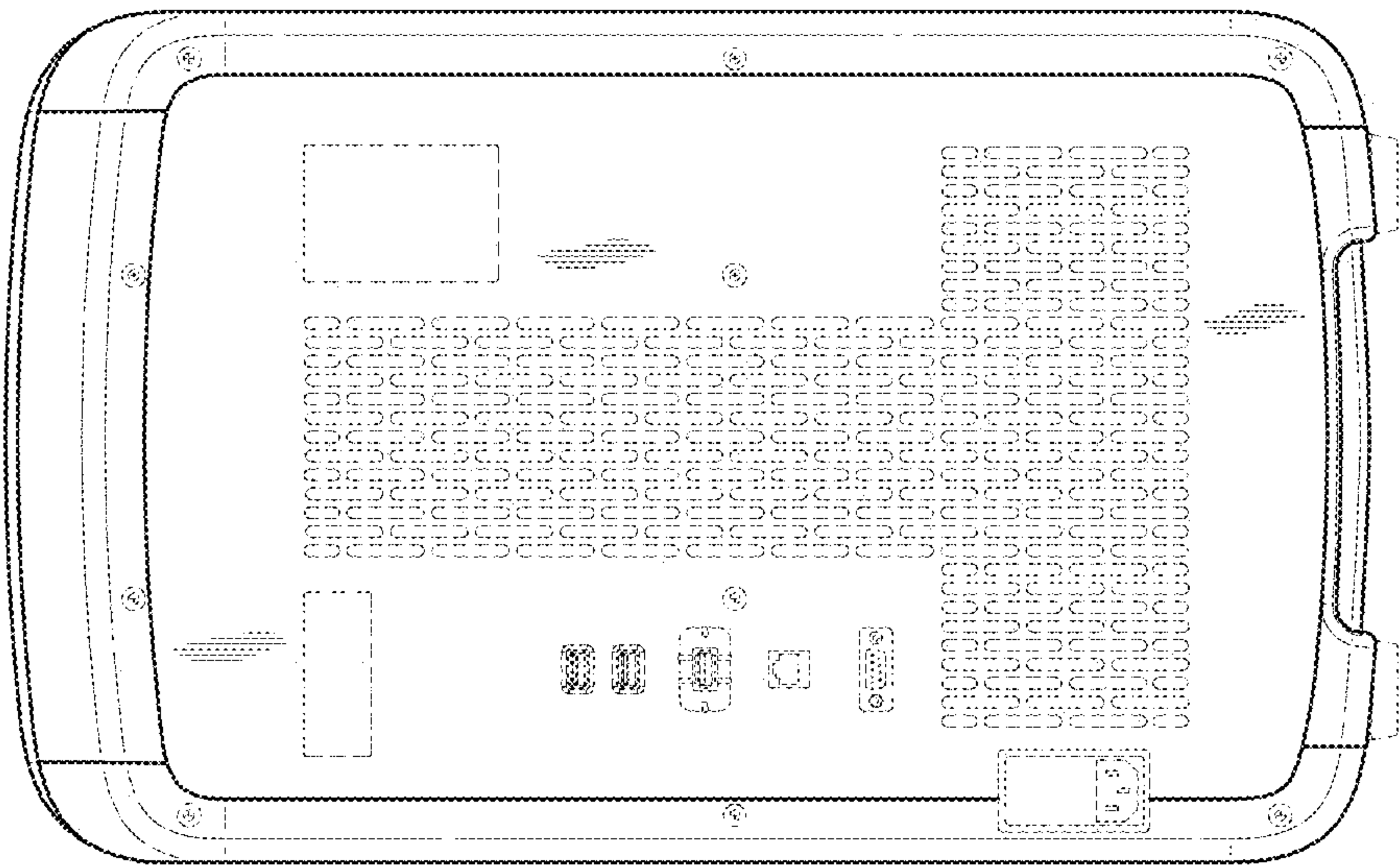


FIG. 18

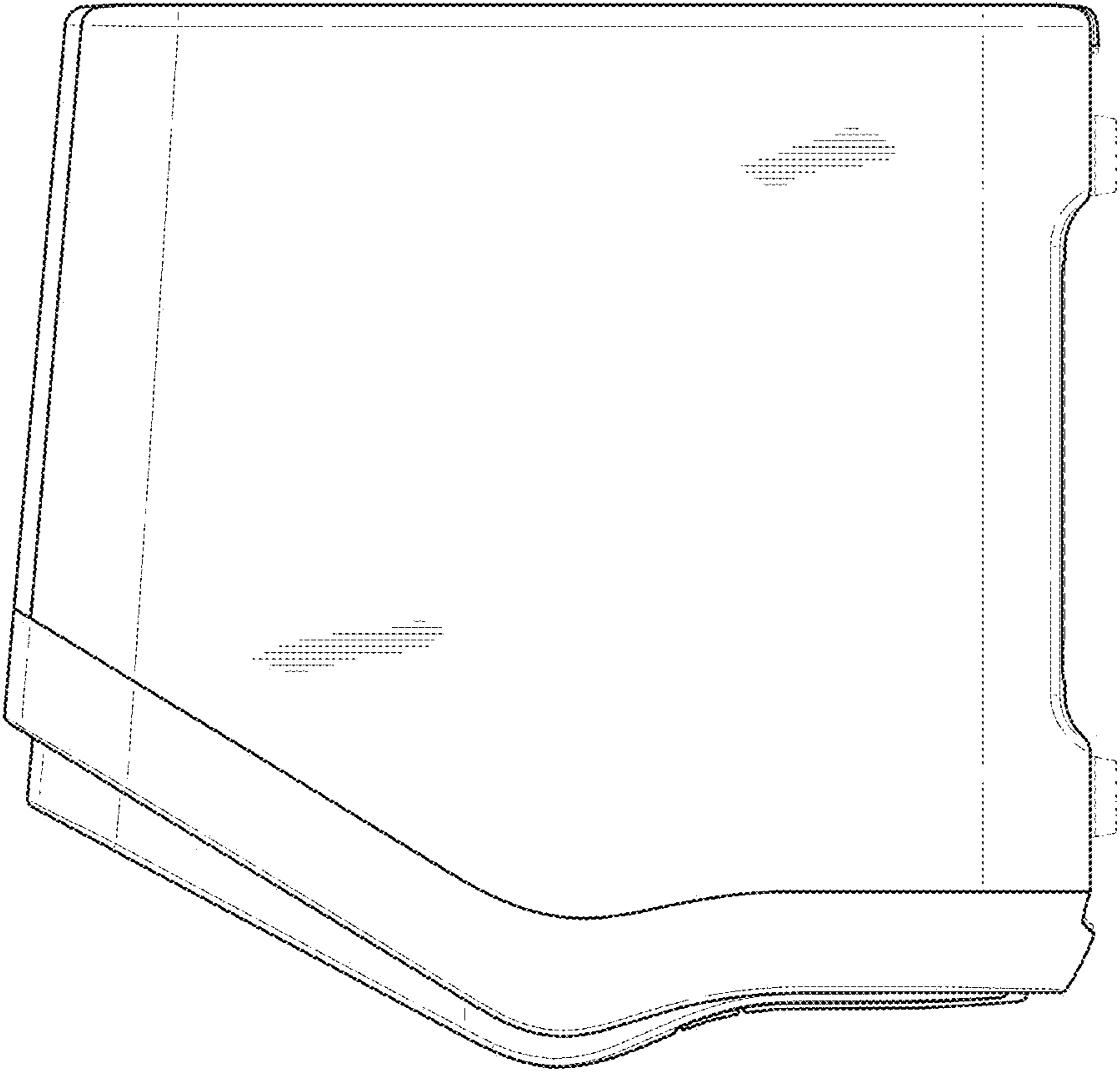


FIG. 19

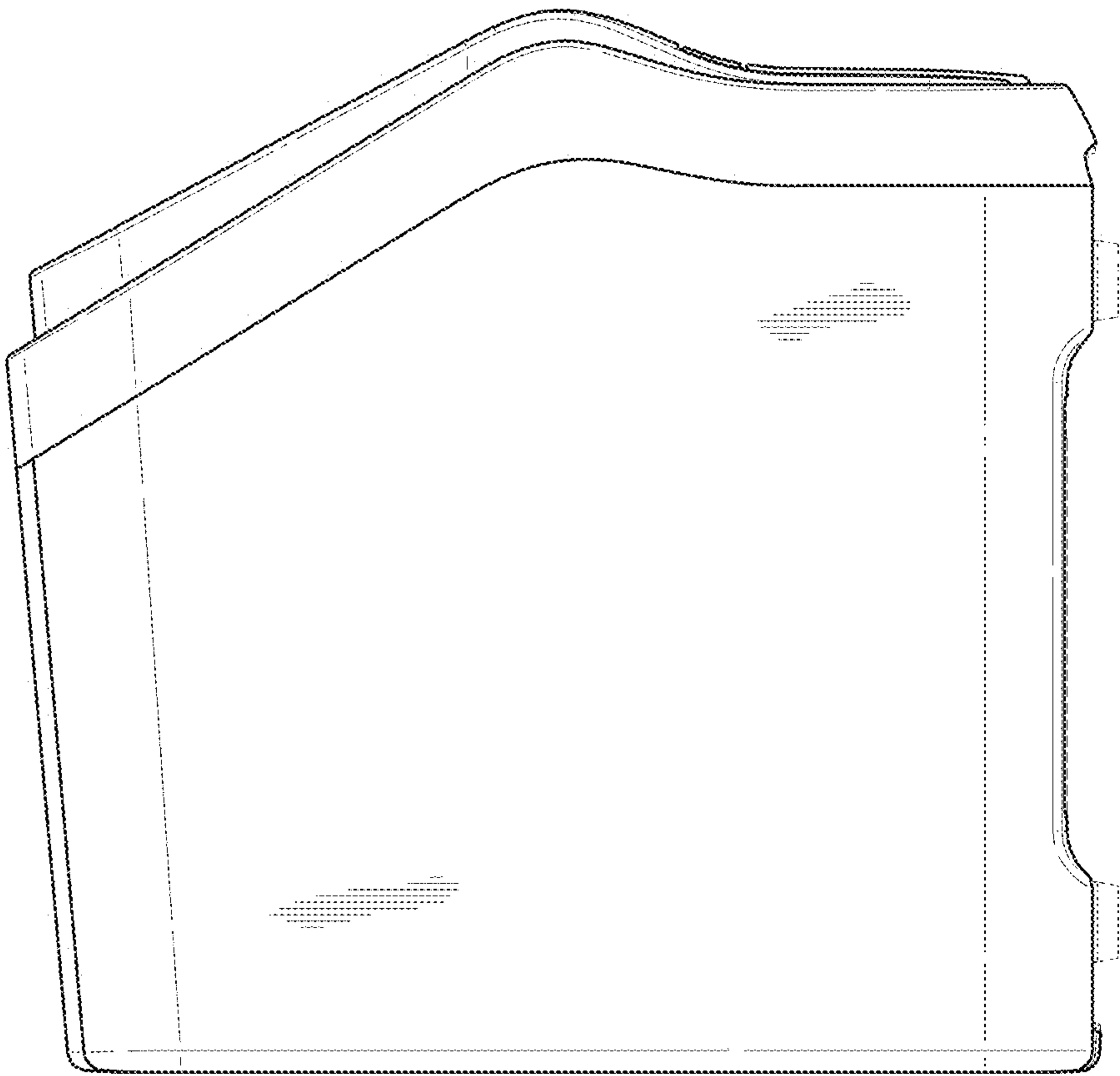


FIG. 20

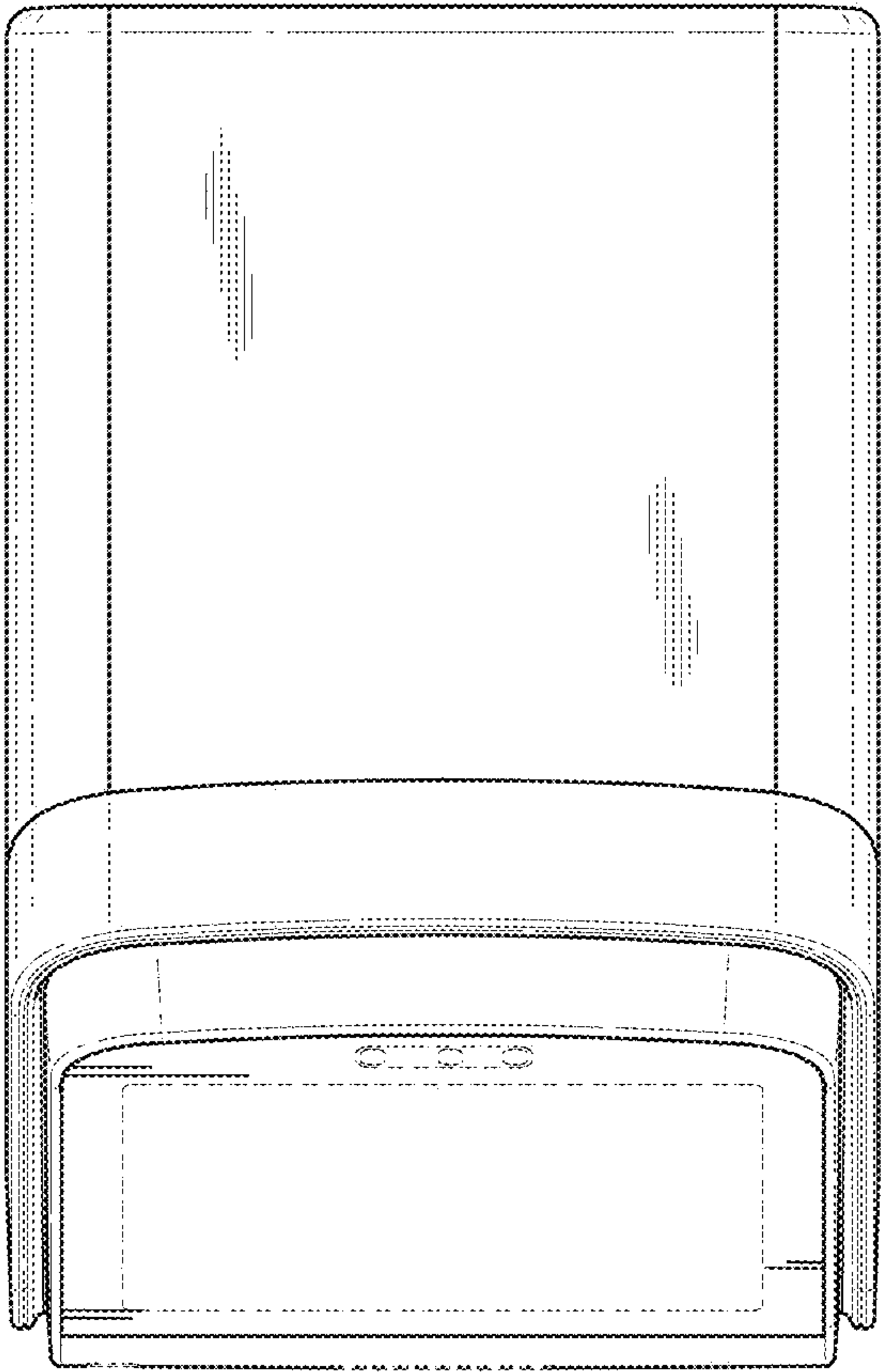


FIG. 21

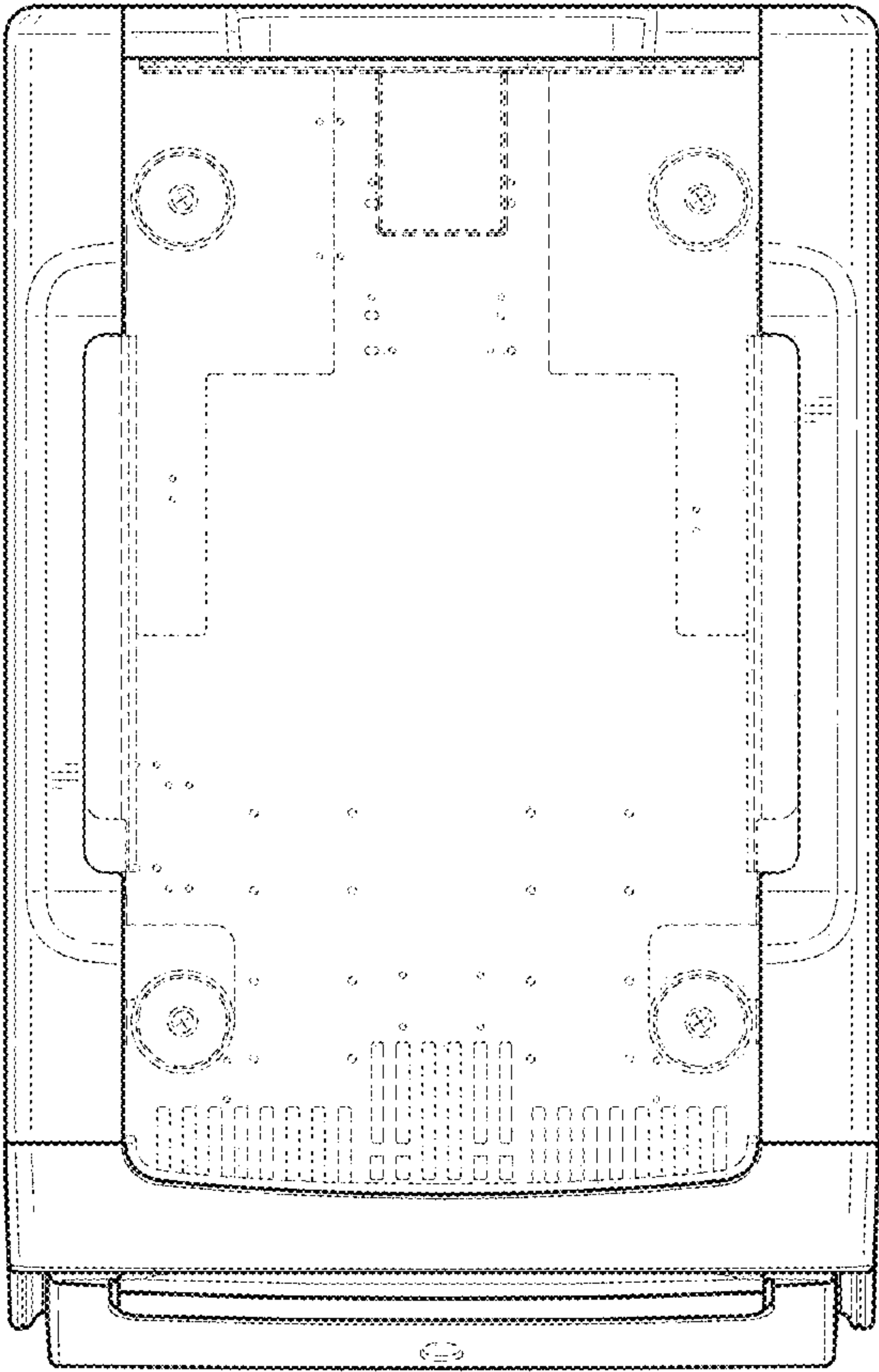
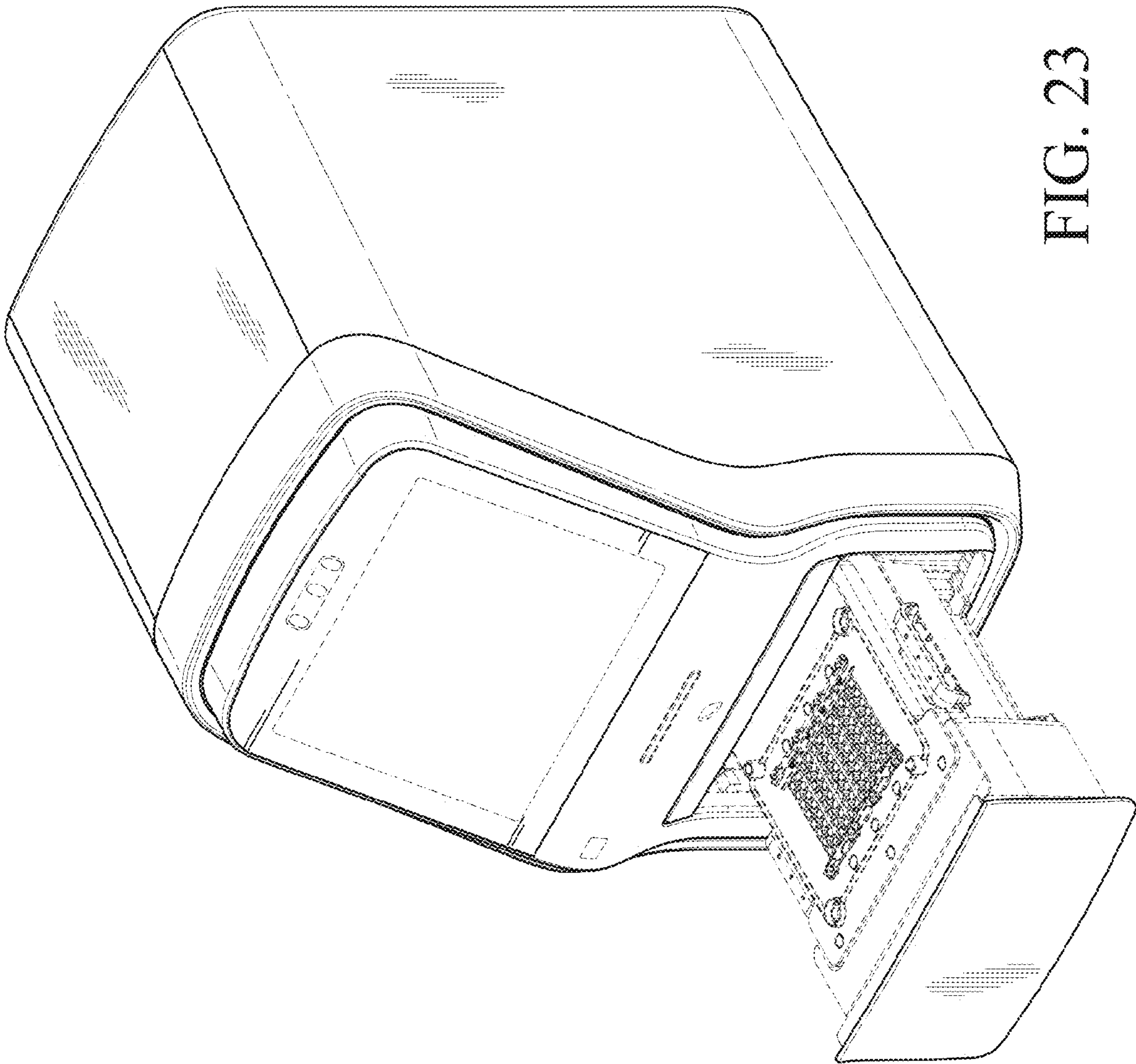


FIG. 22



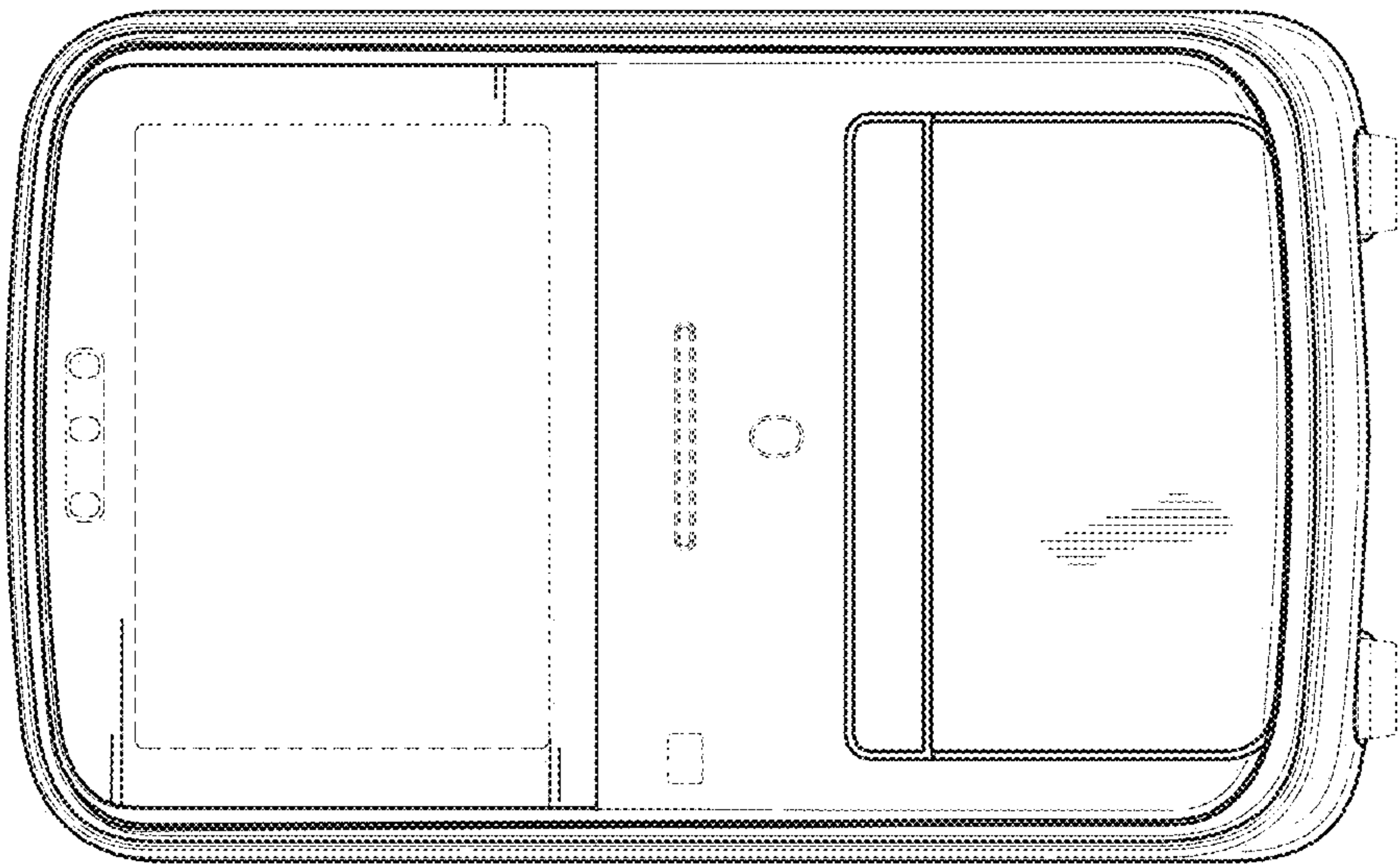


FIG. 24

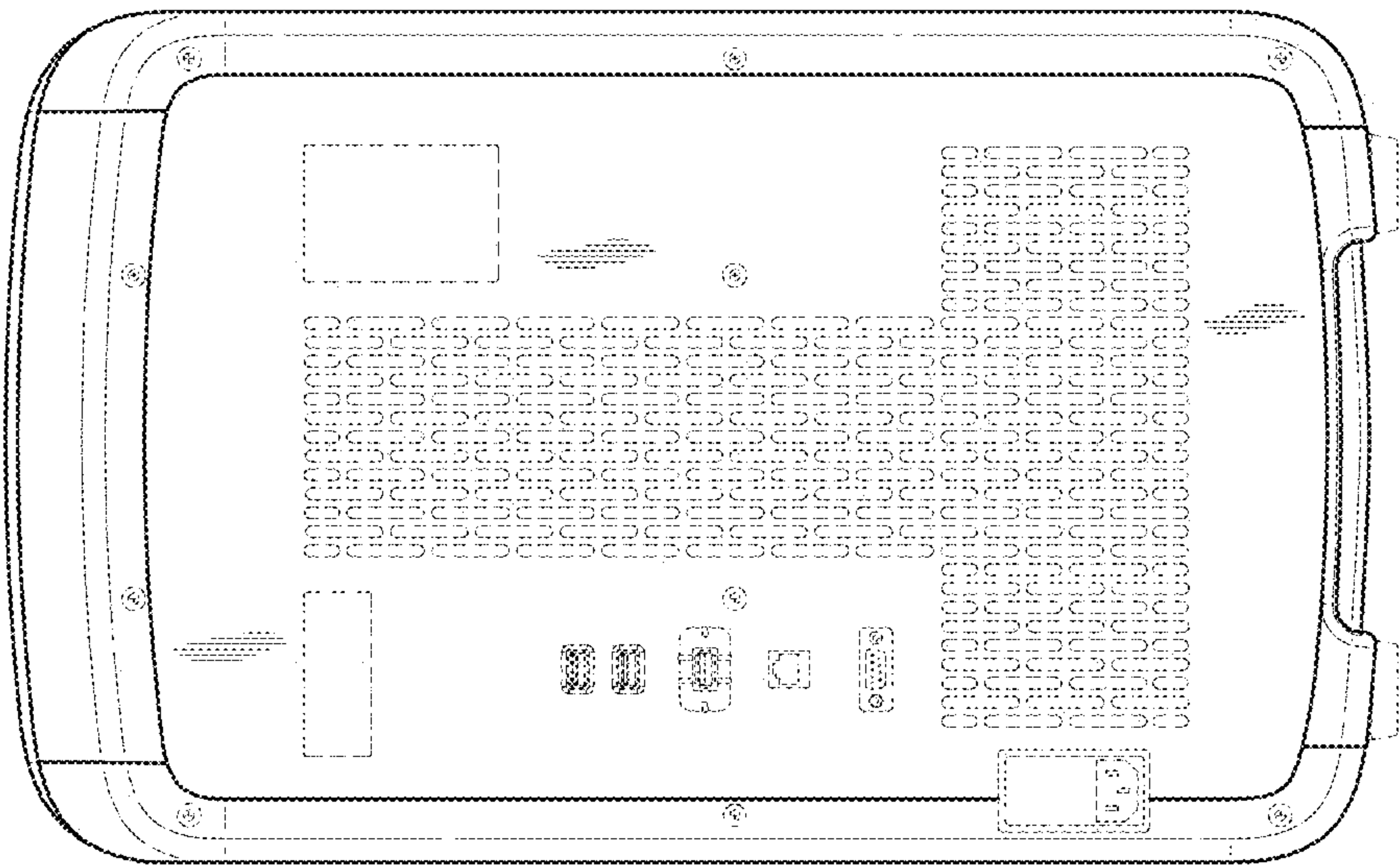


FIG. 25

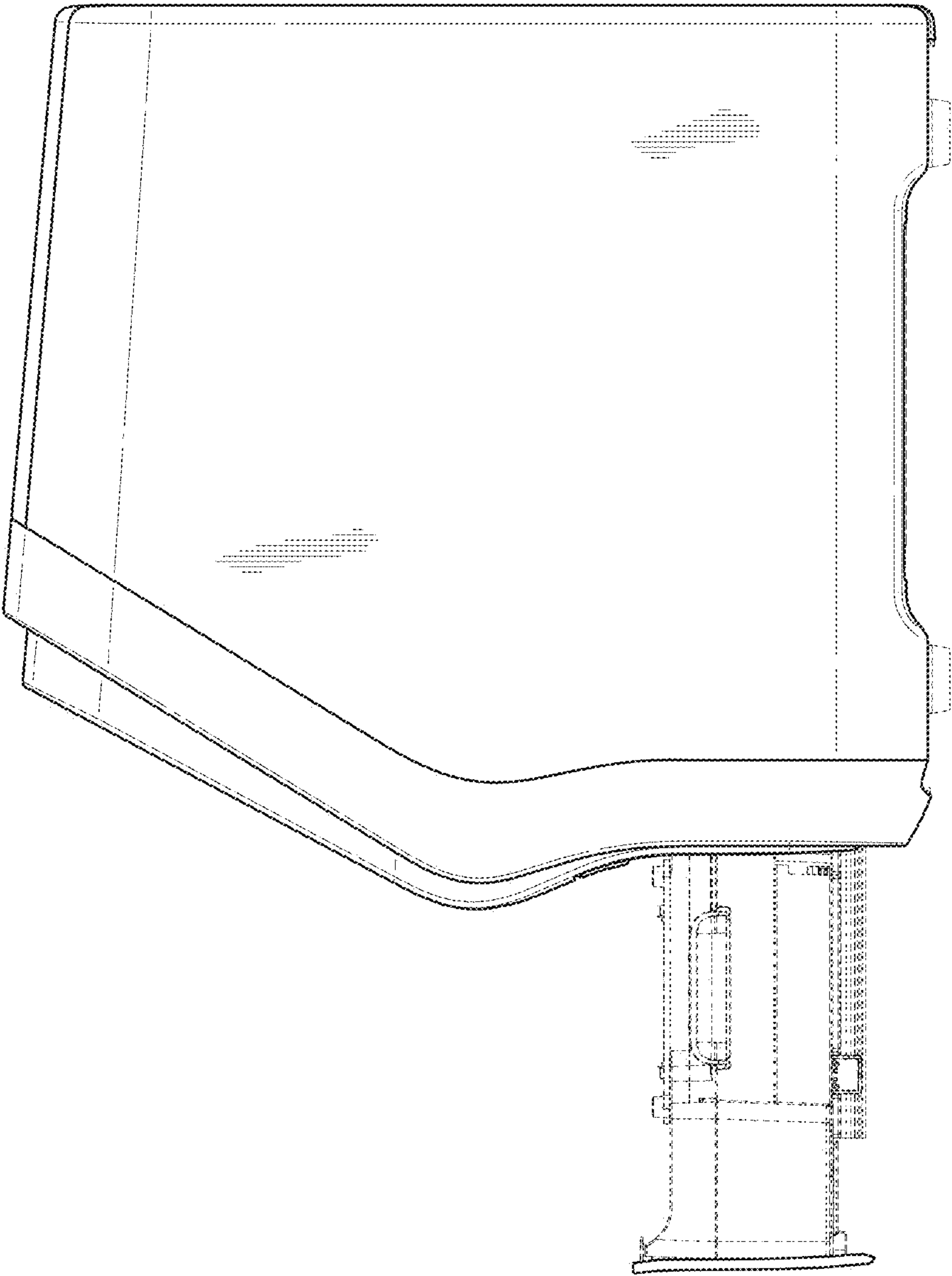


FIG. 26

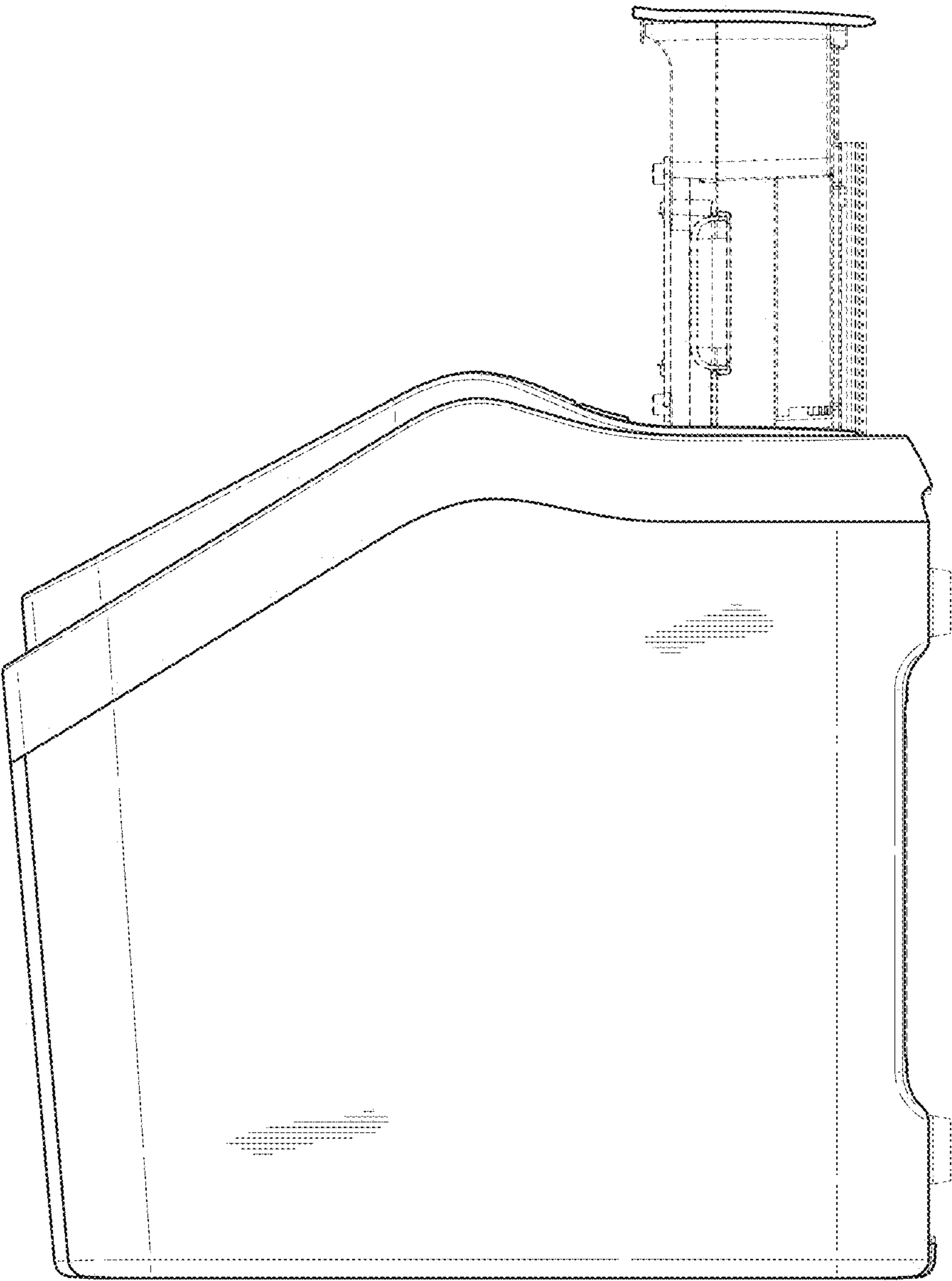


FIG. 27

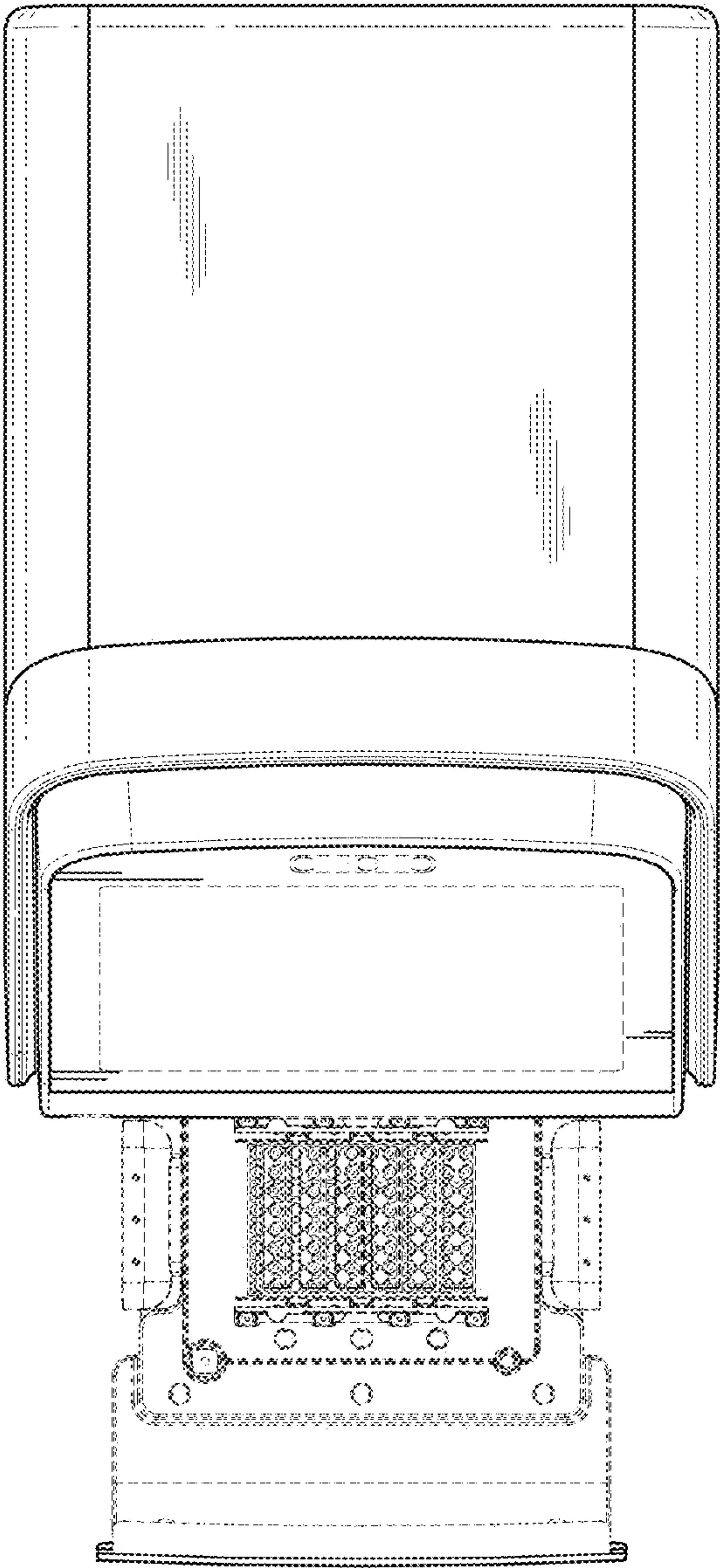


FIG. 28

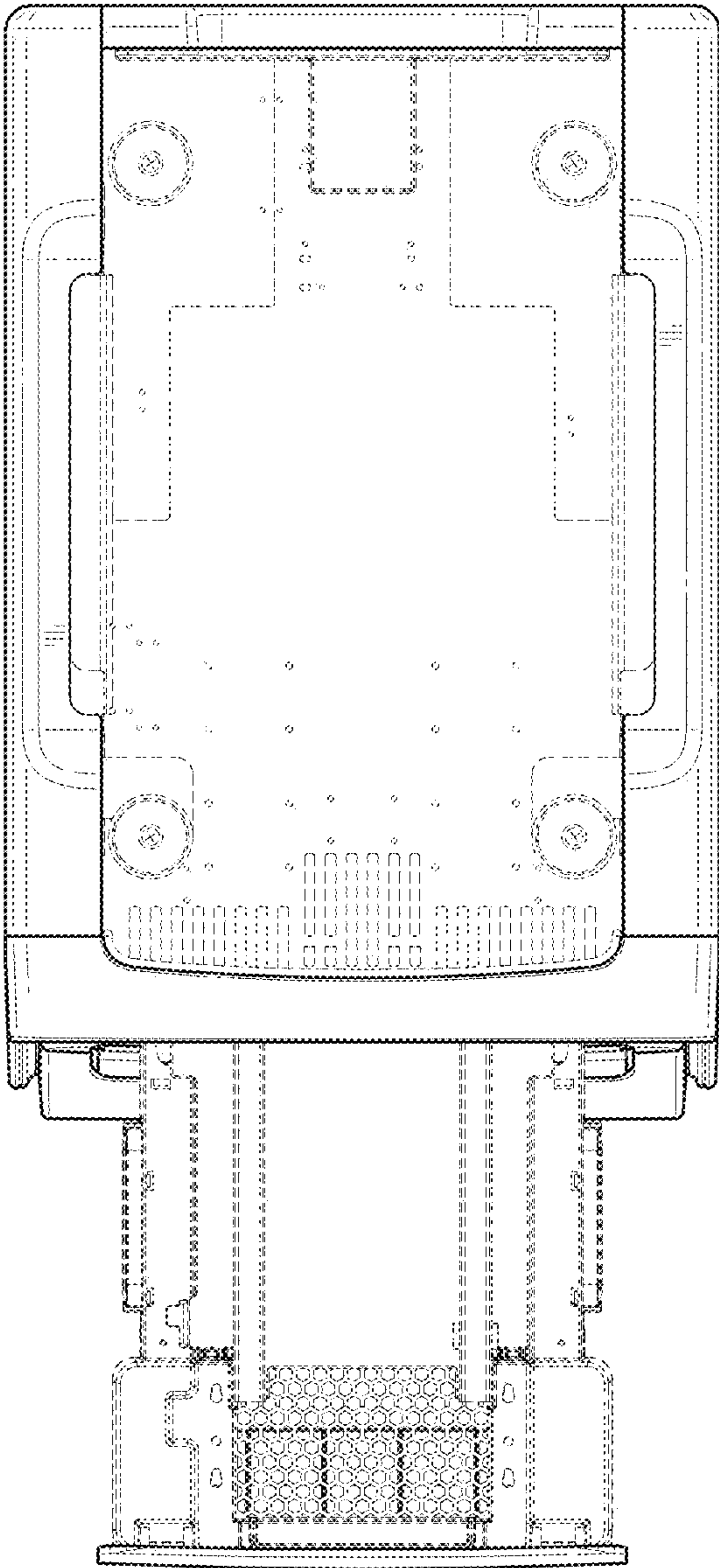


FIG. 29