

US0D1010478S

(12)

United States Design Patent

Kjaer

(10)

Patent No.:

US D1,010,478 S

(45)

Date of Patent:

** Jan. 9, 2024

(54) LEVEL CONTROLLER

- (71) Applicant: Grundfos Holding A/S, Bjerringbro (DK)
- (72) Inventor: Jonas Kjaer, Risskov (DK)
- (73) Assignee: GRUNDFOS HOLDING A/S, Bjerringbro (DK)
- (**) Term: 15 Years
- (21) Appl. No.: 29/798,924
- (22) Filed: Jul. 12, 2021

Related U.S. Application Data

- (62) Division of application No. 29/722,702, filed on Jan. 31, 2020, now Pat. No. Des. 944,662.

Foreign Application Priority Data

- Aug. 2, 2019 (EM) 006682167
- (51) LOC (14) Cl. 10-05
- (52) U.S. Cl. D10/49
- USPC D10/46, 49
- (58) Field of Classification Search
- USPC F16K 21/185; F16K 31/02; F16K 31/18; F16K 31/26; G05D 9/12; F04B 43/009; F04B 49/02; G01F 23/241; G01F 23/242; E03D 1/142; E03D 1/34
- See application file for complete search history.

References Cited

U.S. PATENT DOCUMENTS

- 6,308,348 B1 * 10/2001 Liou E03D 1/142 4/388
- 7,874,312 B1 * 1/2011 Gibbs F16K 31/26 137/434

(Continued)

FOREIGN PATENT DOCUMENTS

- GB 9006682167-0010 * 8/2019
- GB 9006682167-0011 * 8/2019

OTHER PUBLICATIONS

Grundfos introduces new groundwater pump controller Scandasia <https://scandasia.com/grundfos-introduces-new-groundwater-pump-controller-to-advance-thailands-smart-agriculture-future/> Posted Nov. 2, 2021 (Year: 2021).*

(Continued)

Primary Examiner — Leanne Was-Englehart

(74) Attorney, Agent, or Firm — KNOBBE, MARTENS, OLSON & BEAR LLP

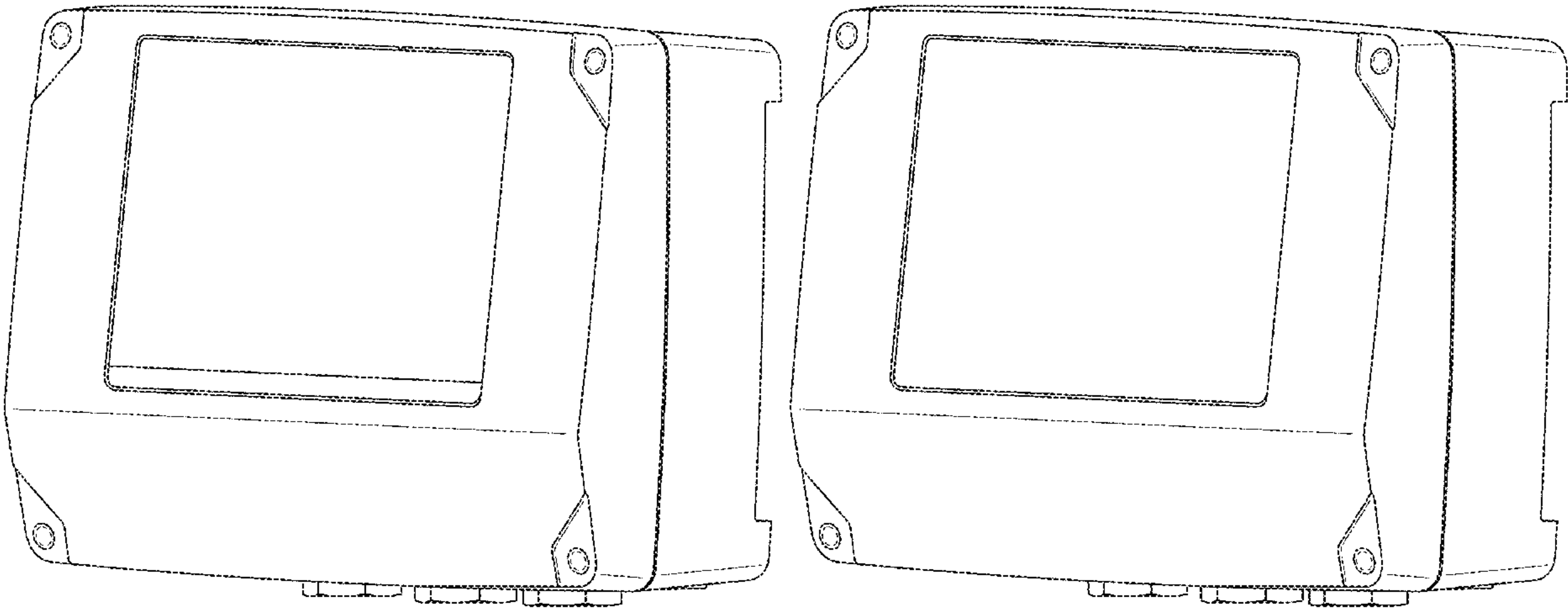
(57) CLAIM

The ornamental design for a level controller, as shown and described.

DESCRIPTION

FIG. 1 is a front top left perspective view of a level controller showing a first embodiment of my new design; FIG. 2 is a top plan view thereof; FIG. 3 is a bottom plan view thereof; FIG. 4 is a right side elevational view thereof; FIG. 5 is a left side elevational view thereof; FIG. 6 is a rear elevational view thereof; and FIG. 7 is a front elevational view thereof; FIG. 8 is a front top left perspective view of a level controller showing a second embodiment of my new design; FIG. 9 is a top plan view thereof; FIG. 10 is a bottom plan view thereof; FIG. 11 is a right side elevational view thereof; FIG. 12 is a left side elevational view thereof; FIG. 13 is a rear elevational view thereof; and, FIG. 14 is a front elevational view thereof. The broken lines depict portions of the level controller that form no part of the claimed design.

1 Claim, 14 Drawing Sheets



References Cited

D841,500	S *	2/2019	Kang	D24/216
D888,589	S *	6/2020	Menden	D10/49
D913,816	S *	3/2021	Fu	D14/218
D940,575	S *	1/2022	Deem	D10/49
D944,662	S *	3/2022	Kjaer	D10/49
2007/0246101	A1 *	10/2007	Kimmell	F16K 31/18 137/415
2011/0036164	A1 *	2/2011	Burdi	G01F 23/241 73/303

LLCSL004_LC 231 & 241 Water Utility Brochure_0919.indd https://
www.phoenixpumps.com/pdf/Grundfos_LC231_LC241_Brochure.
pdf Sep. 13, 2019 (Year: 2019).*

* cited by examiner

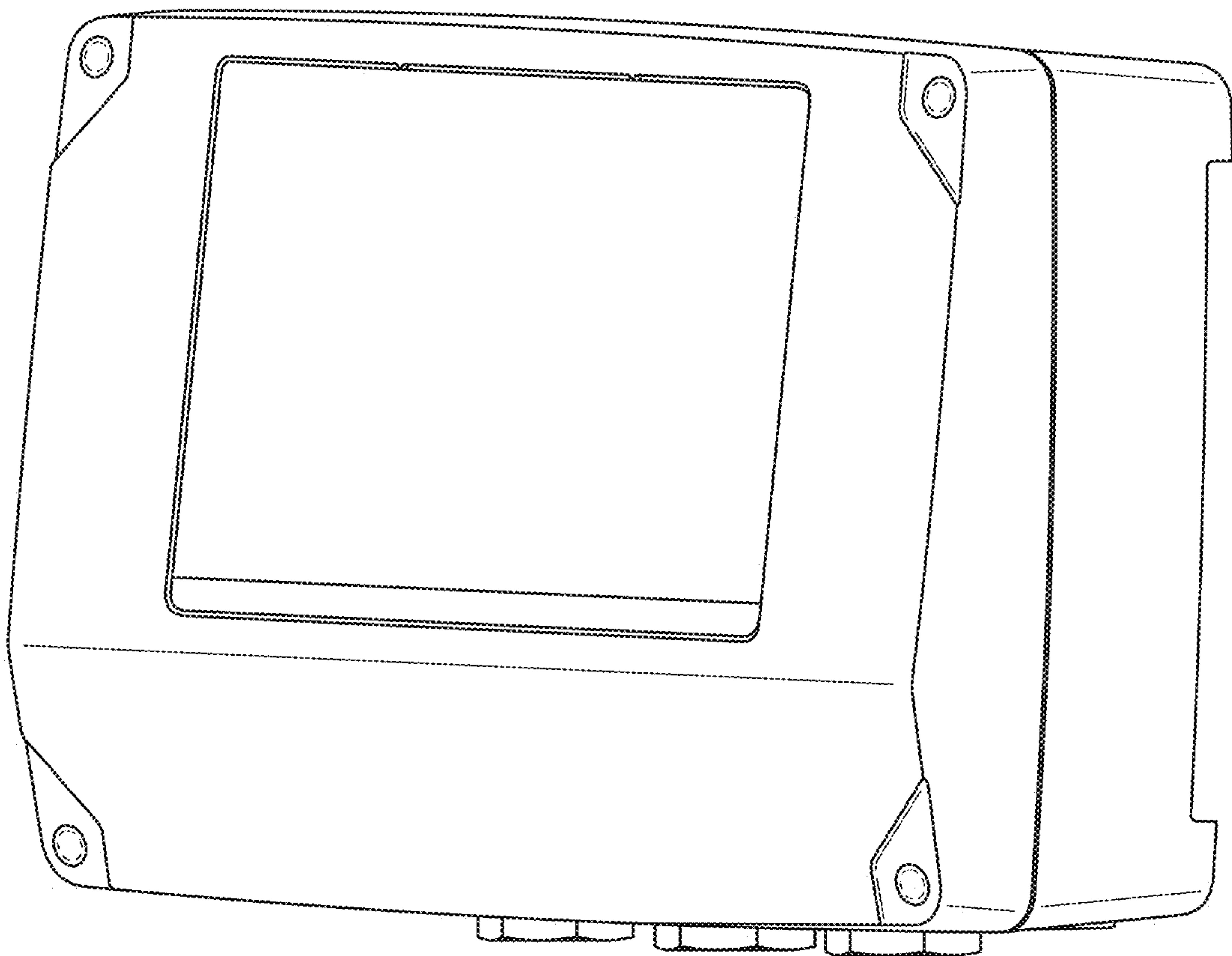


FIG. 1

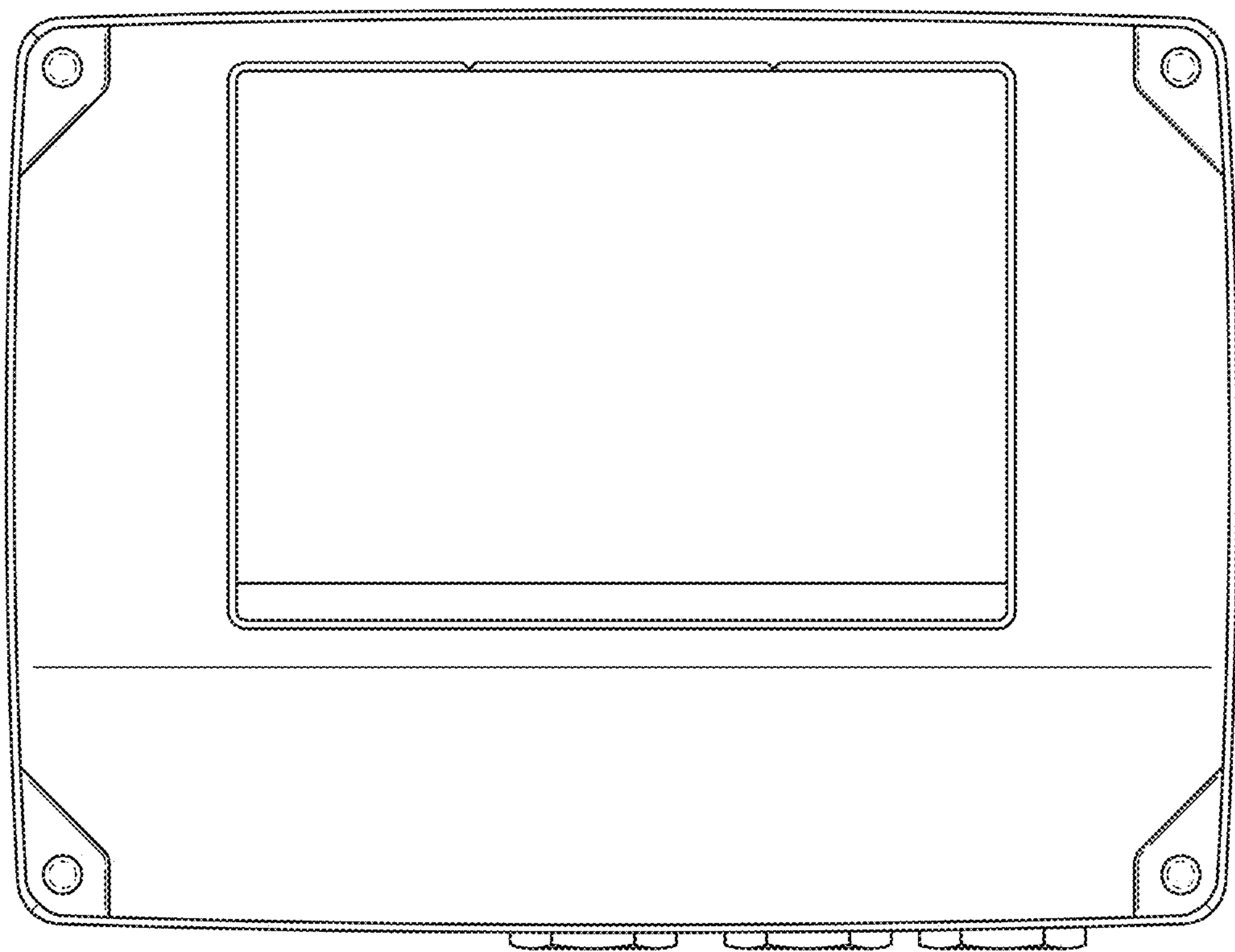


FIG. 2

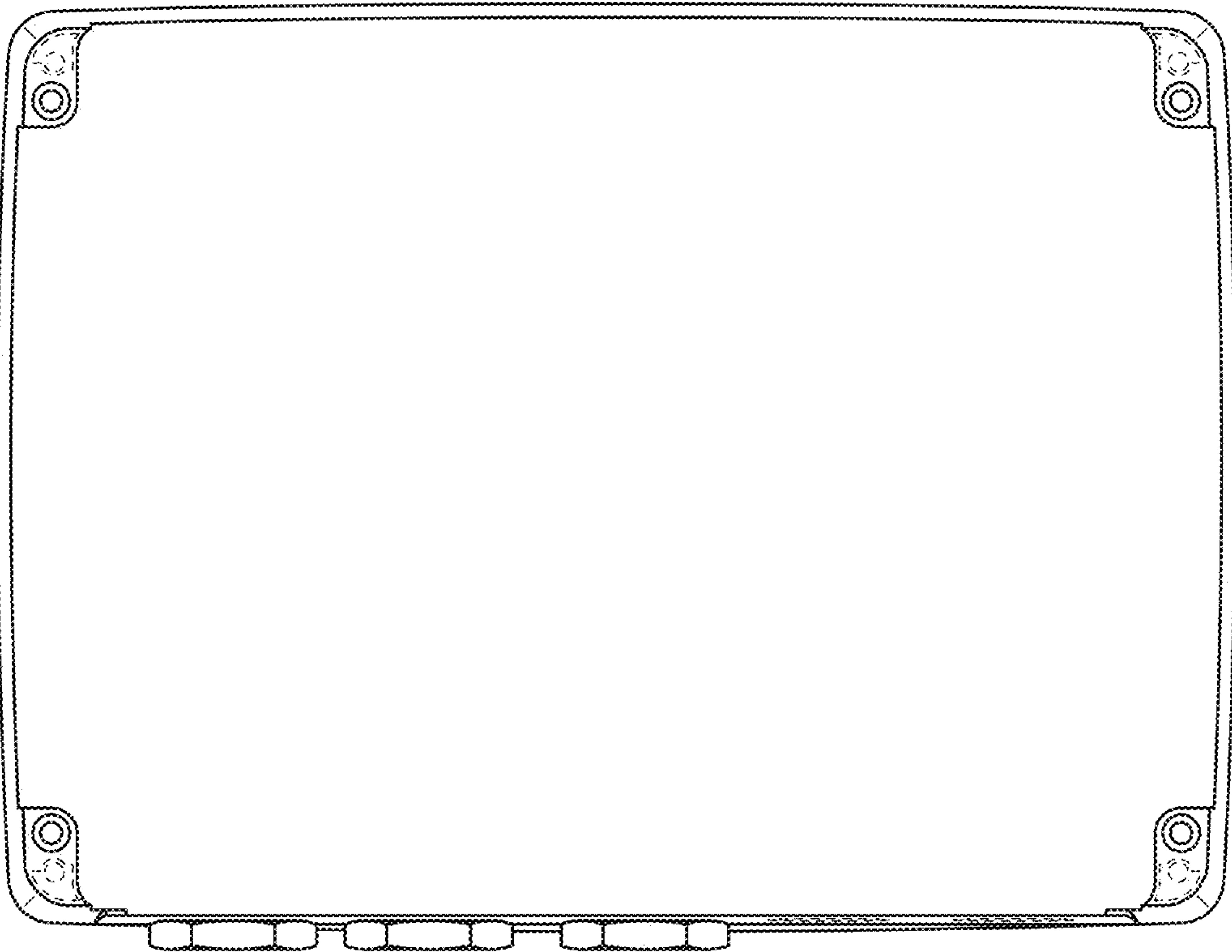


FIG. 3

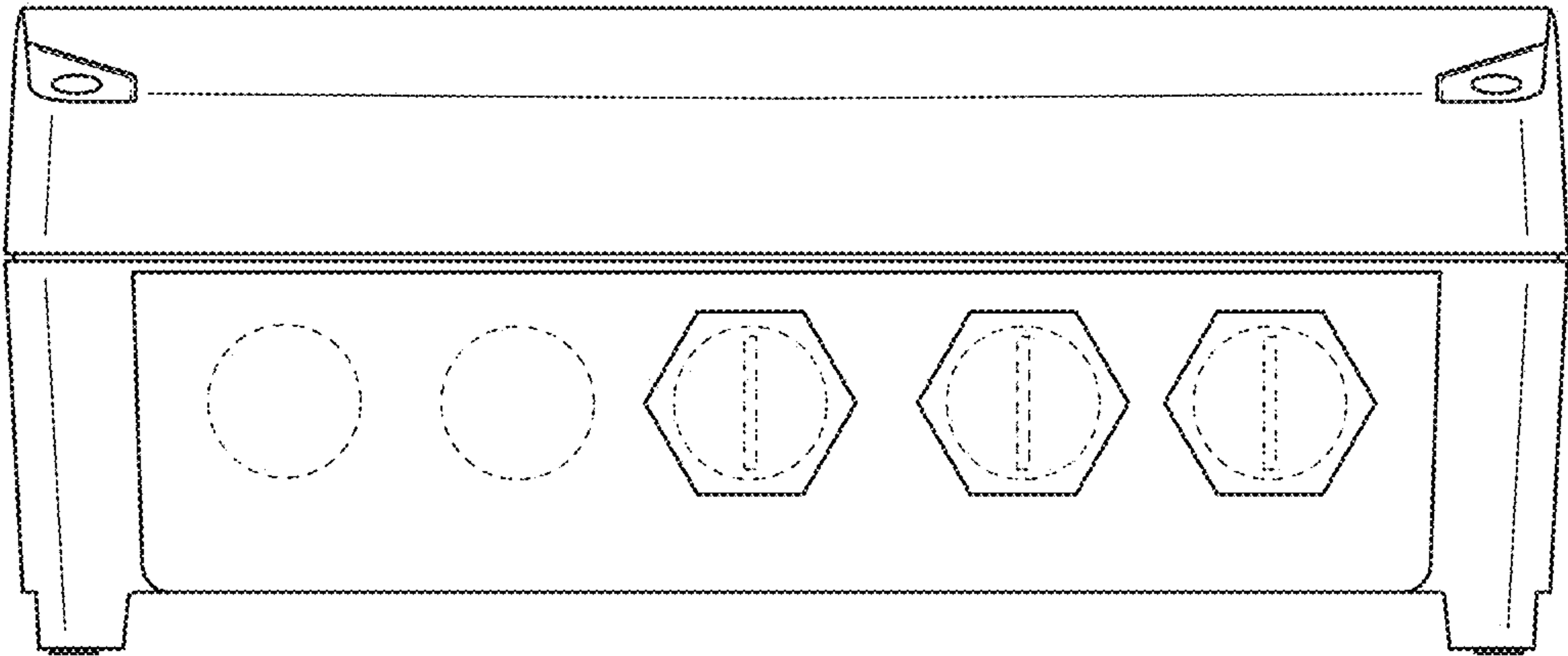


FIG. 4

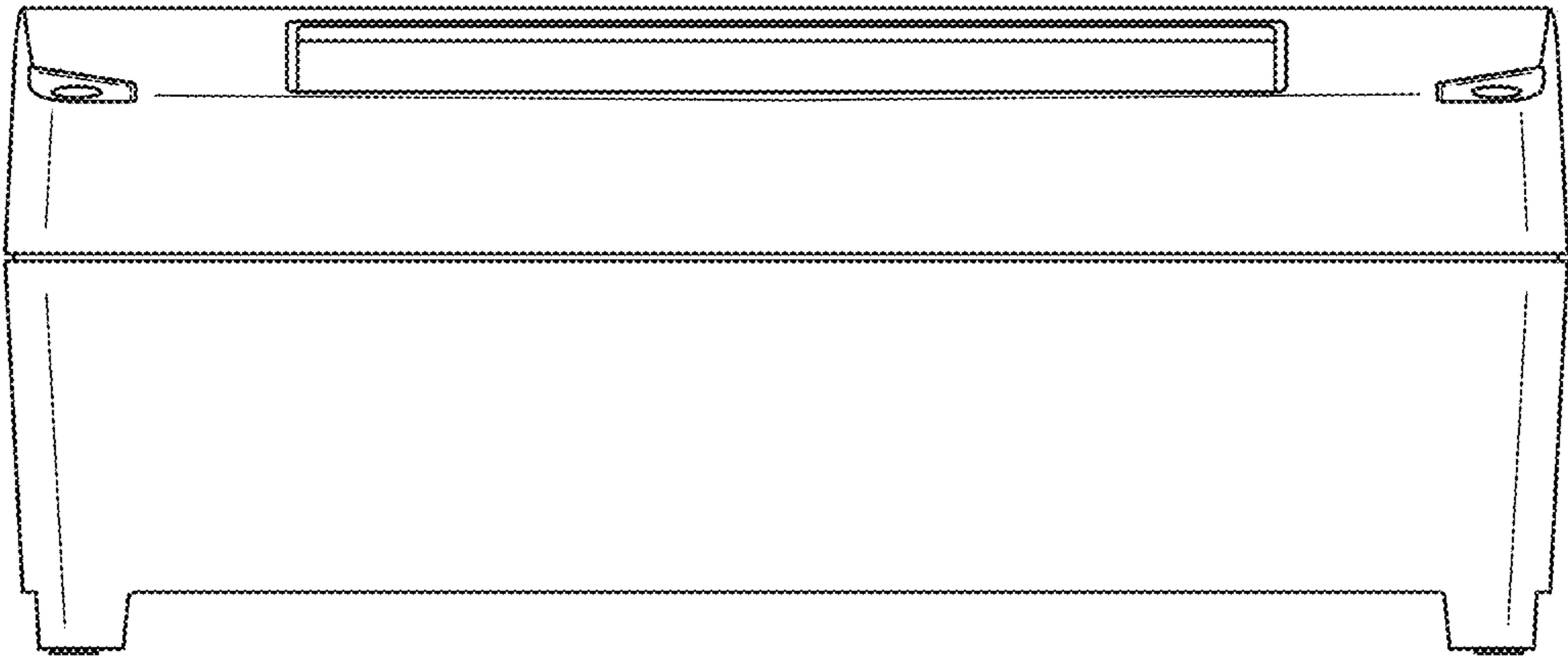


FIG. 5

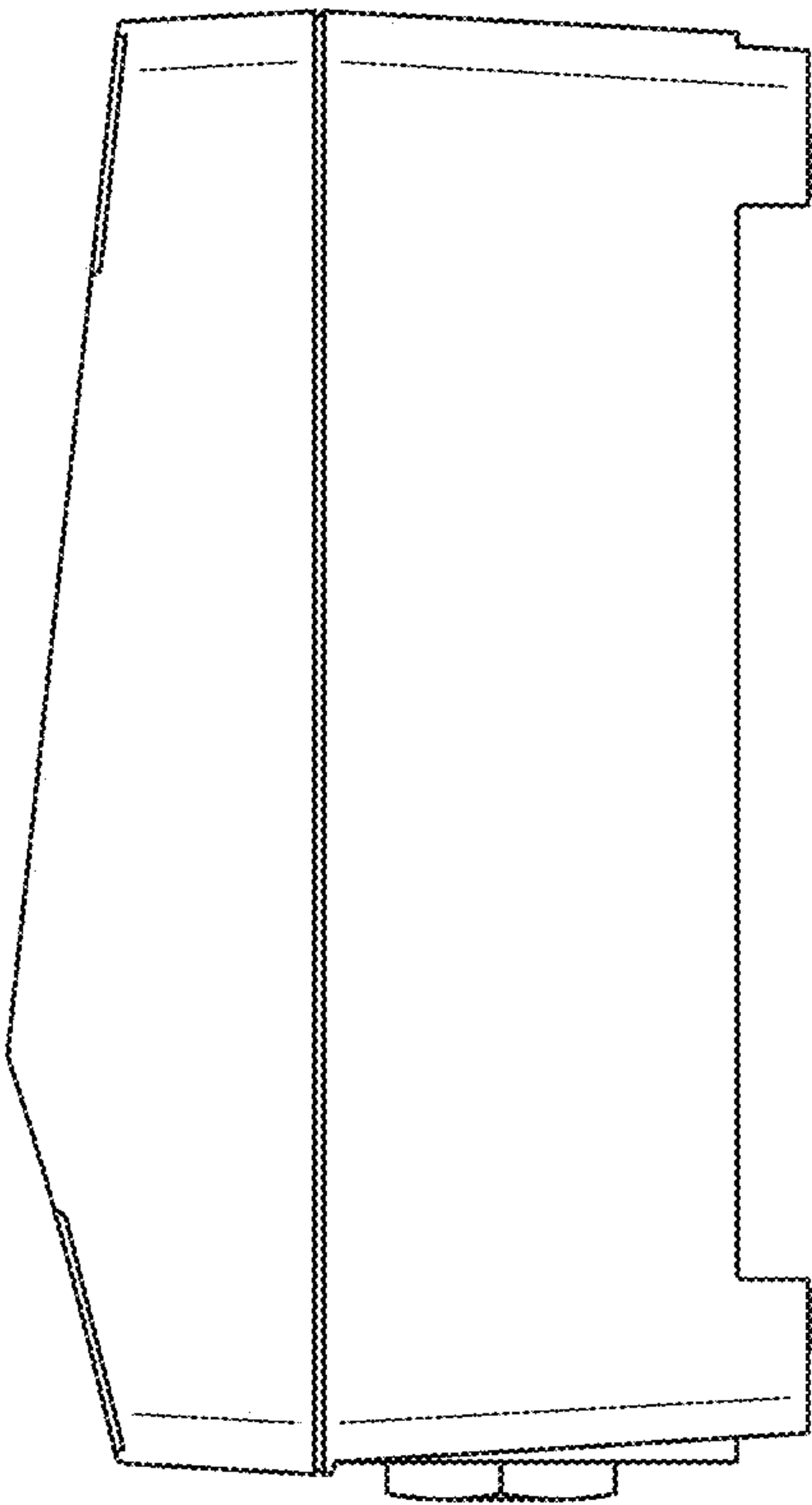


FIG. 6

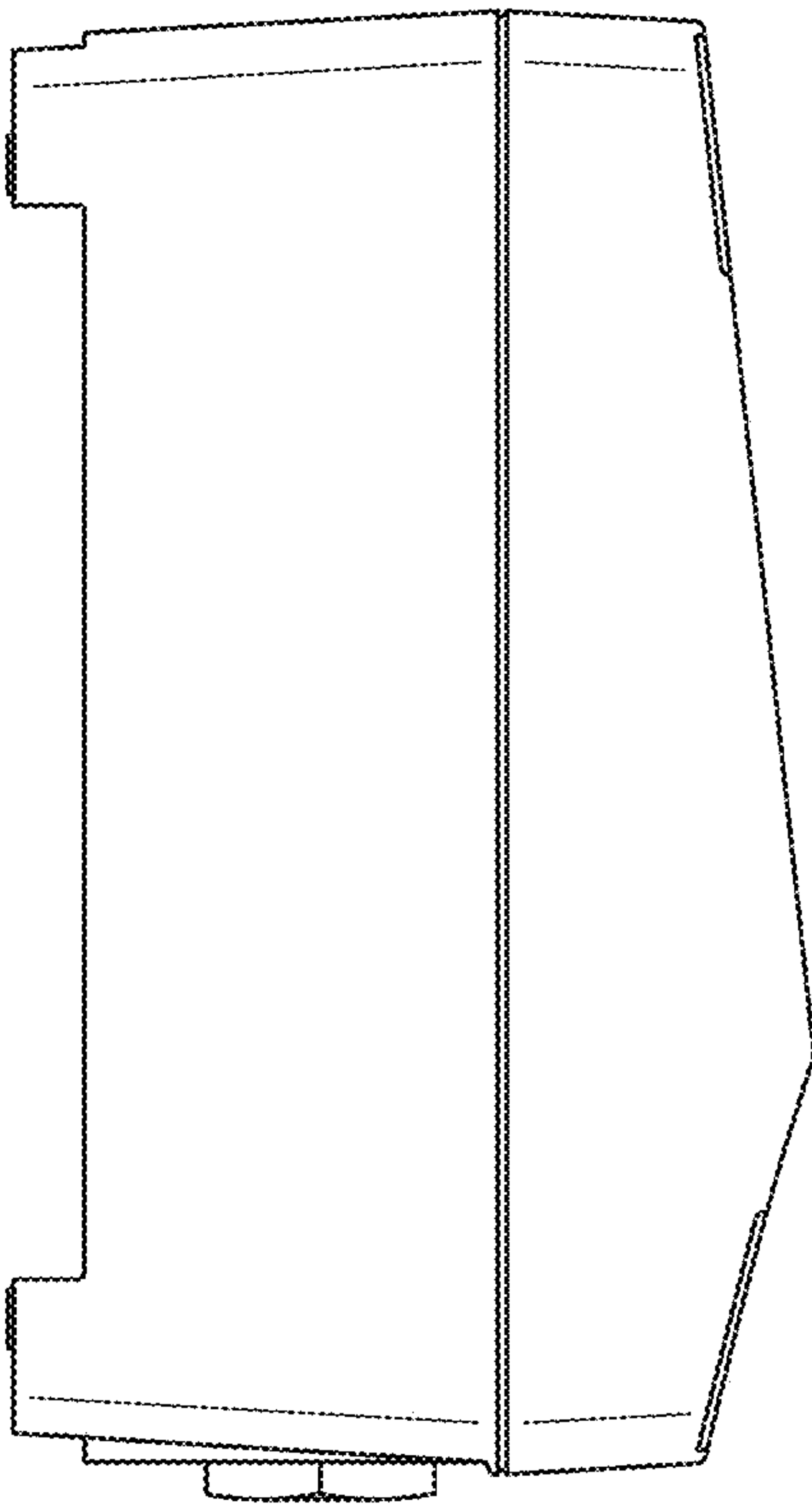


FIG. 7

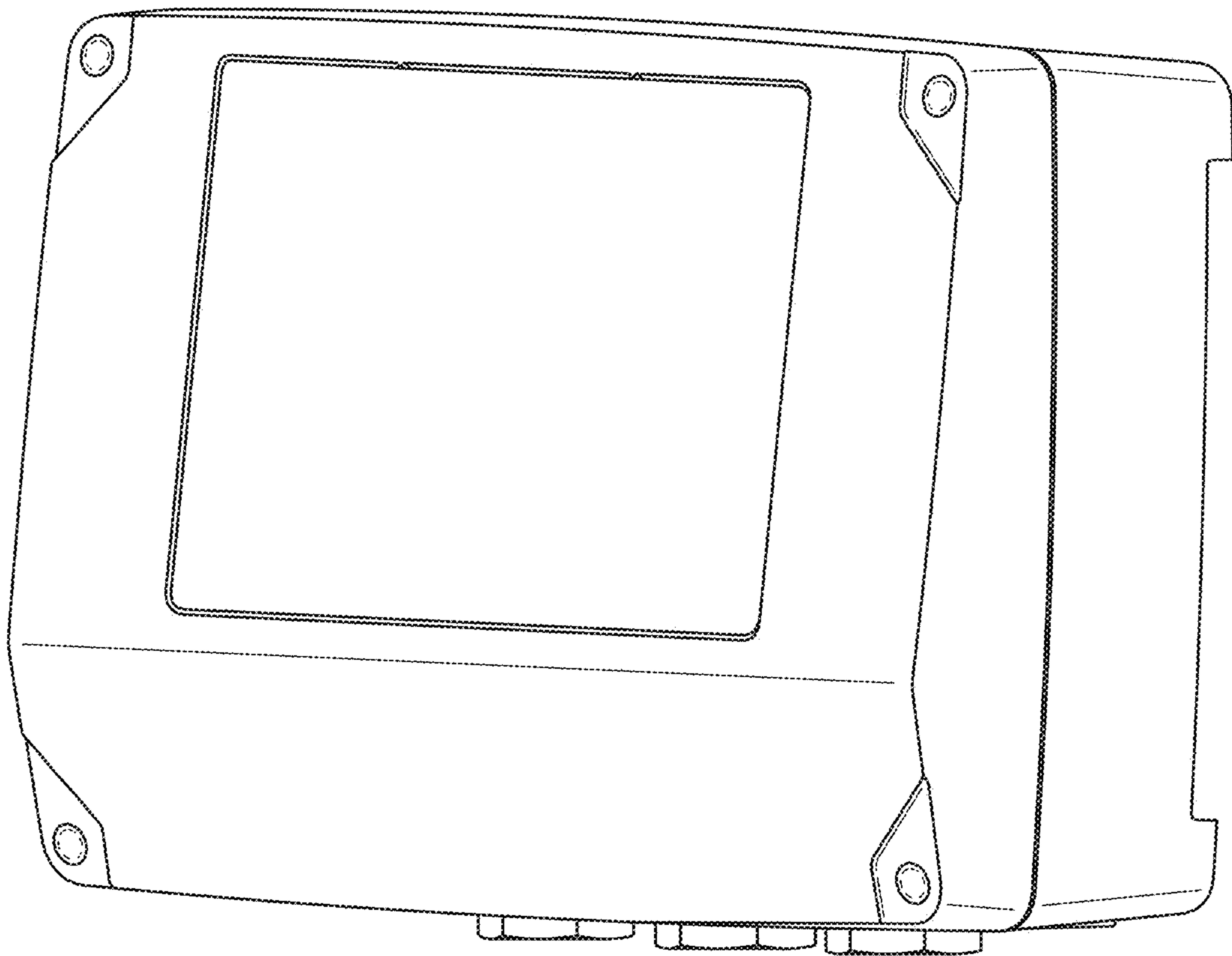


FIG. 8

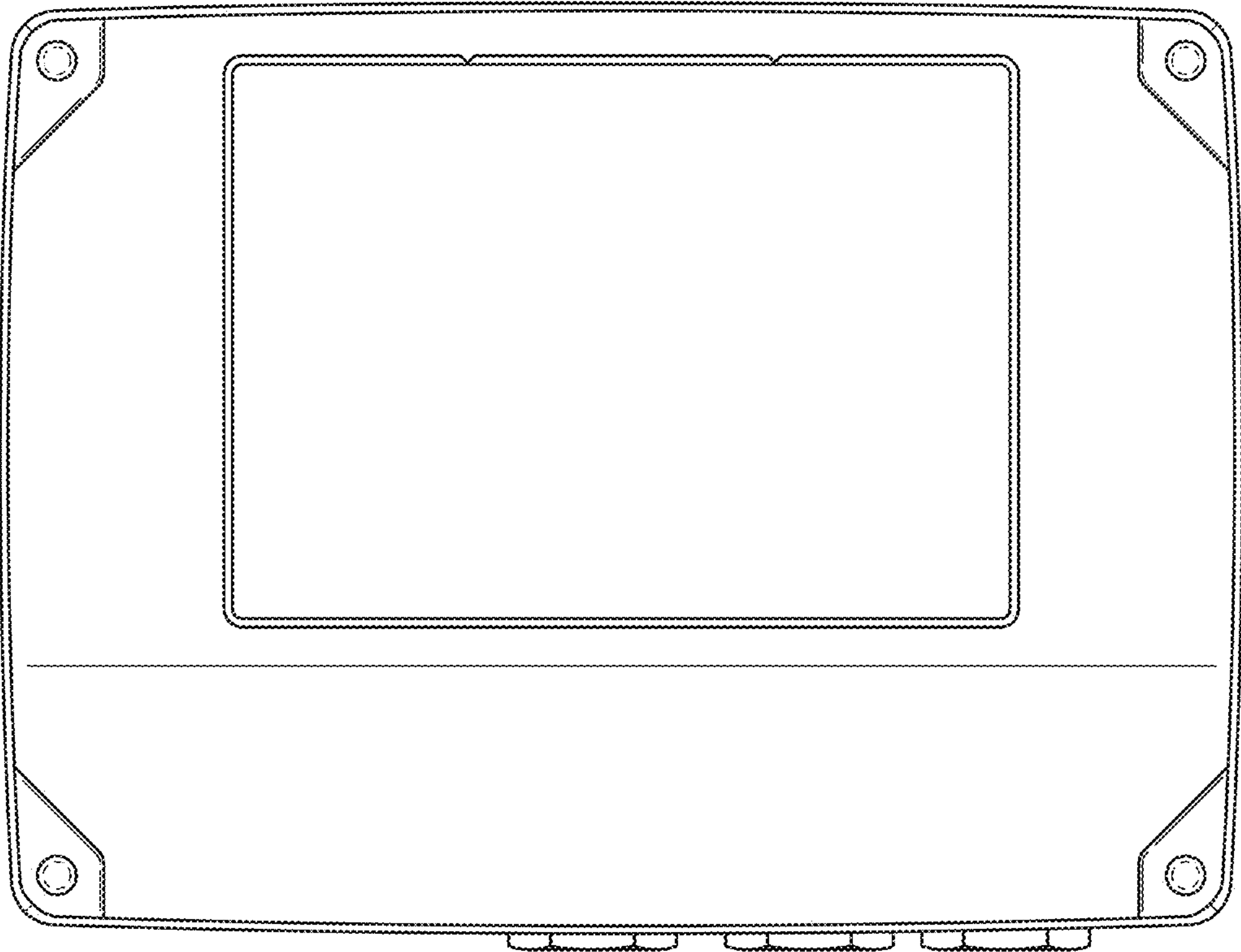


FIG. 9

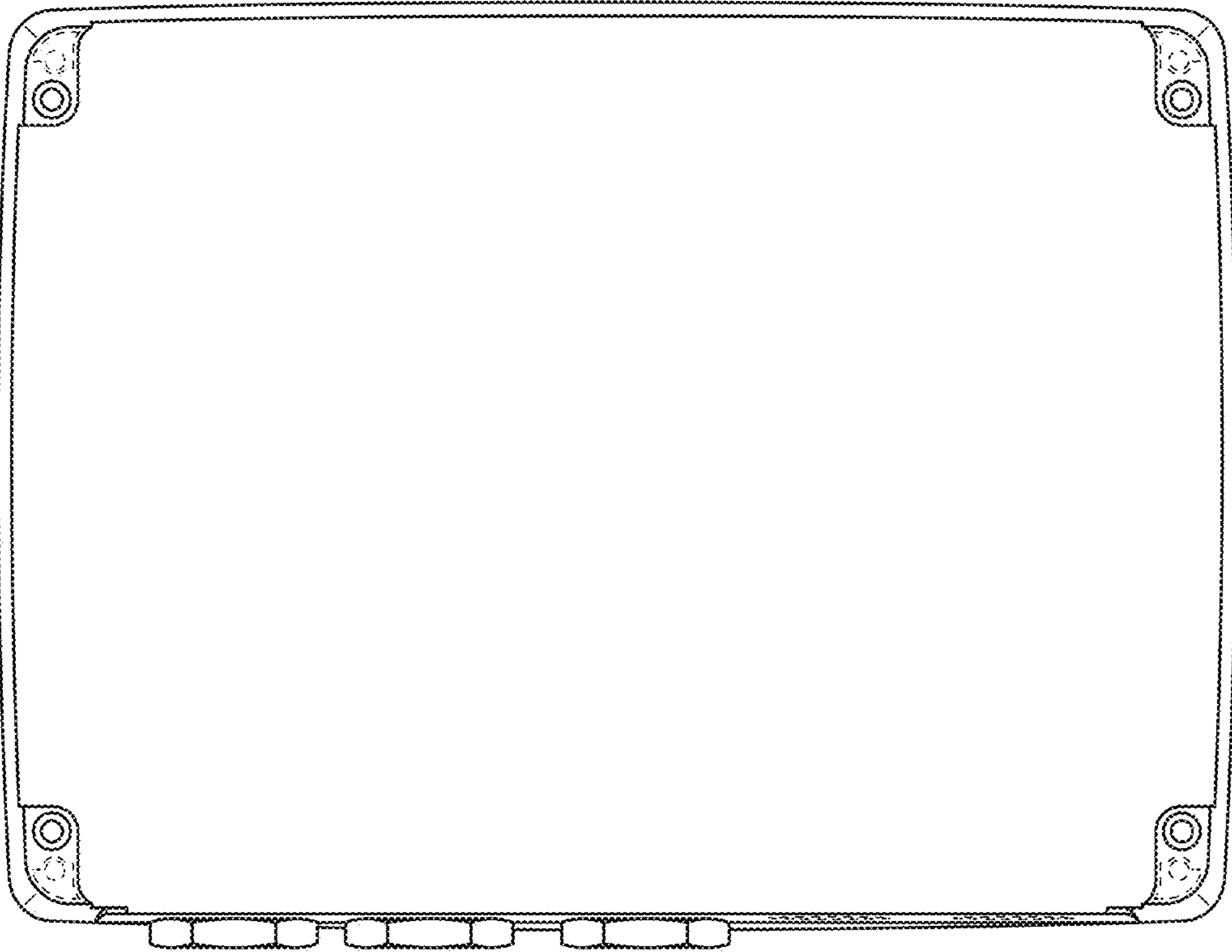


FIG. 10

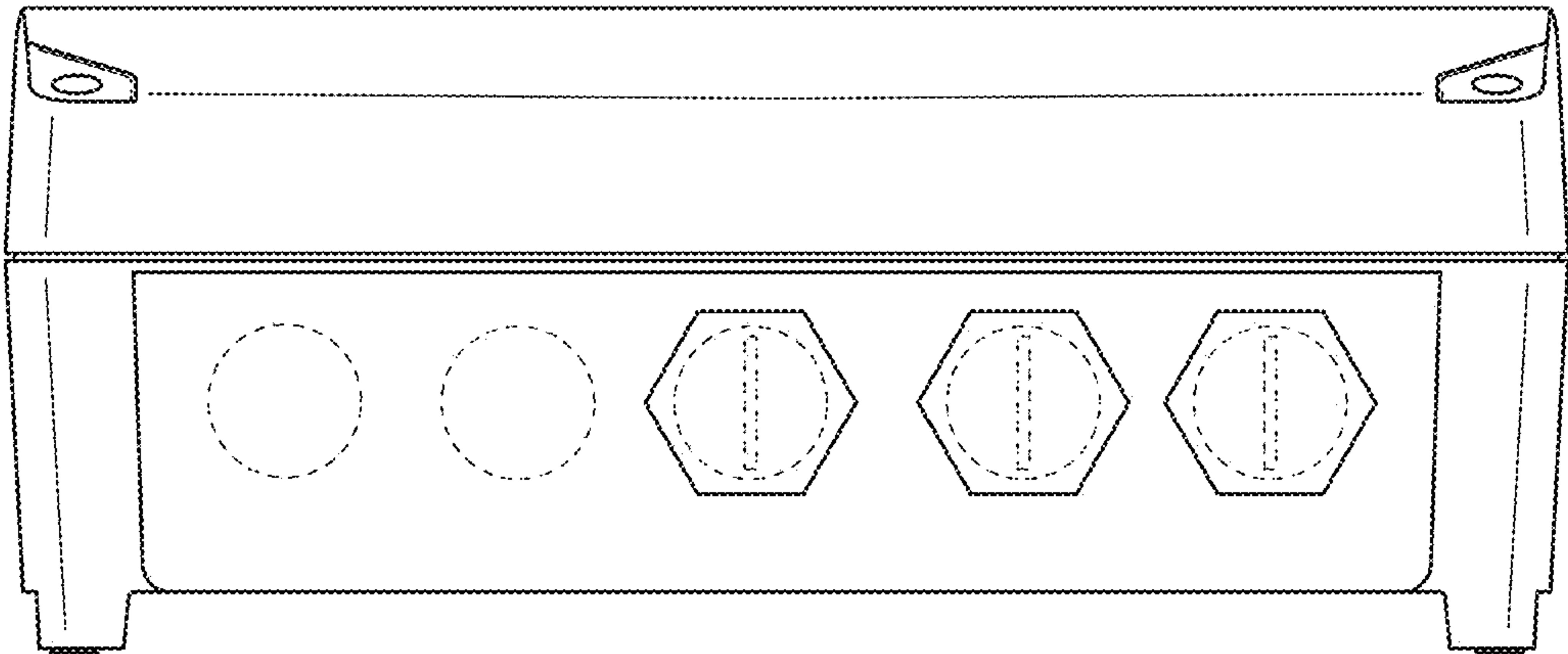


FIG. 11

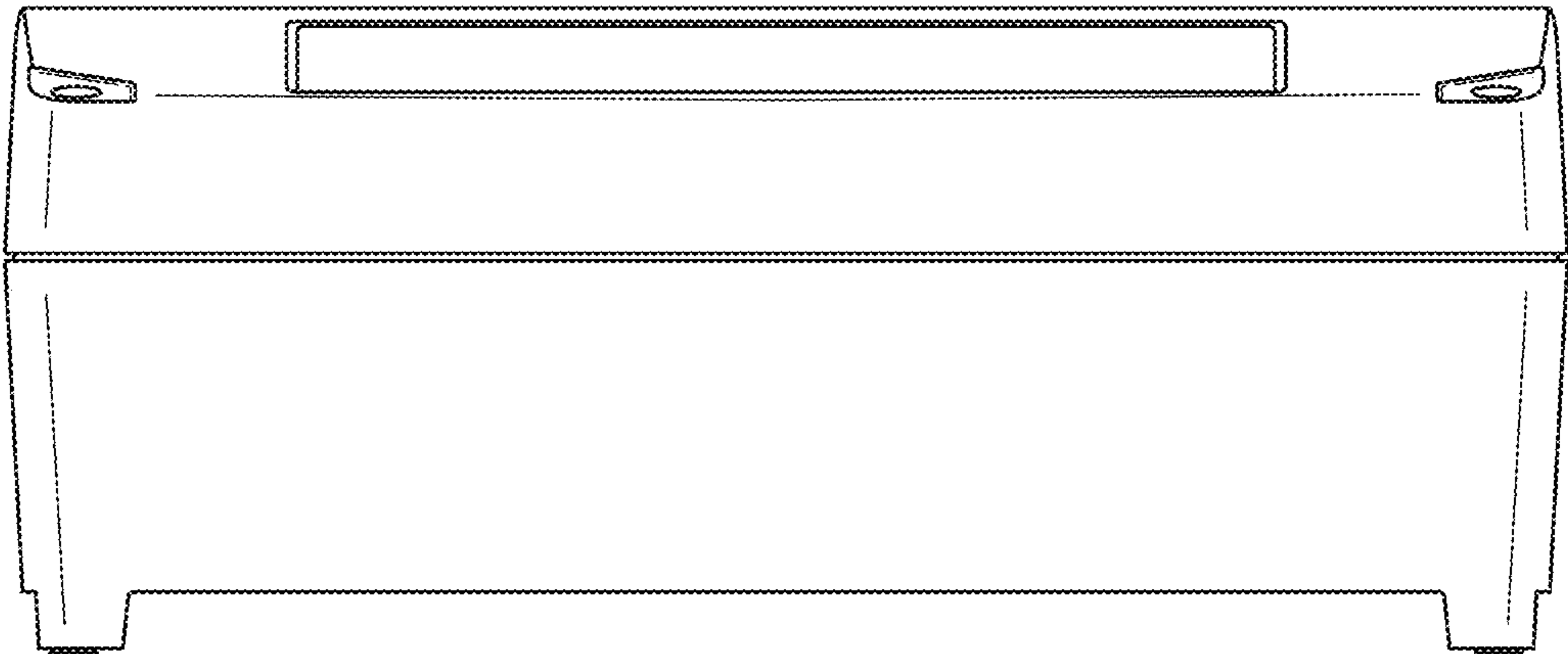


FIG. 12

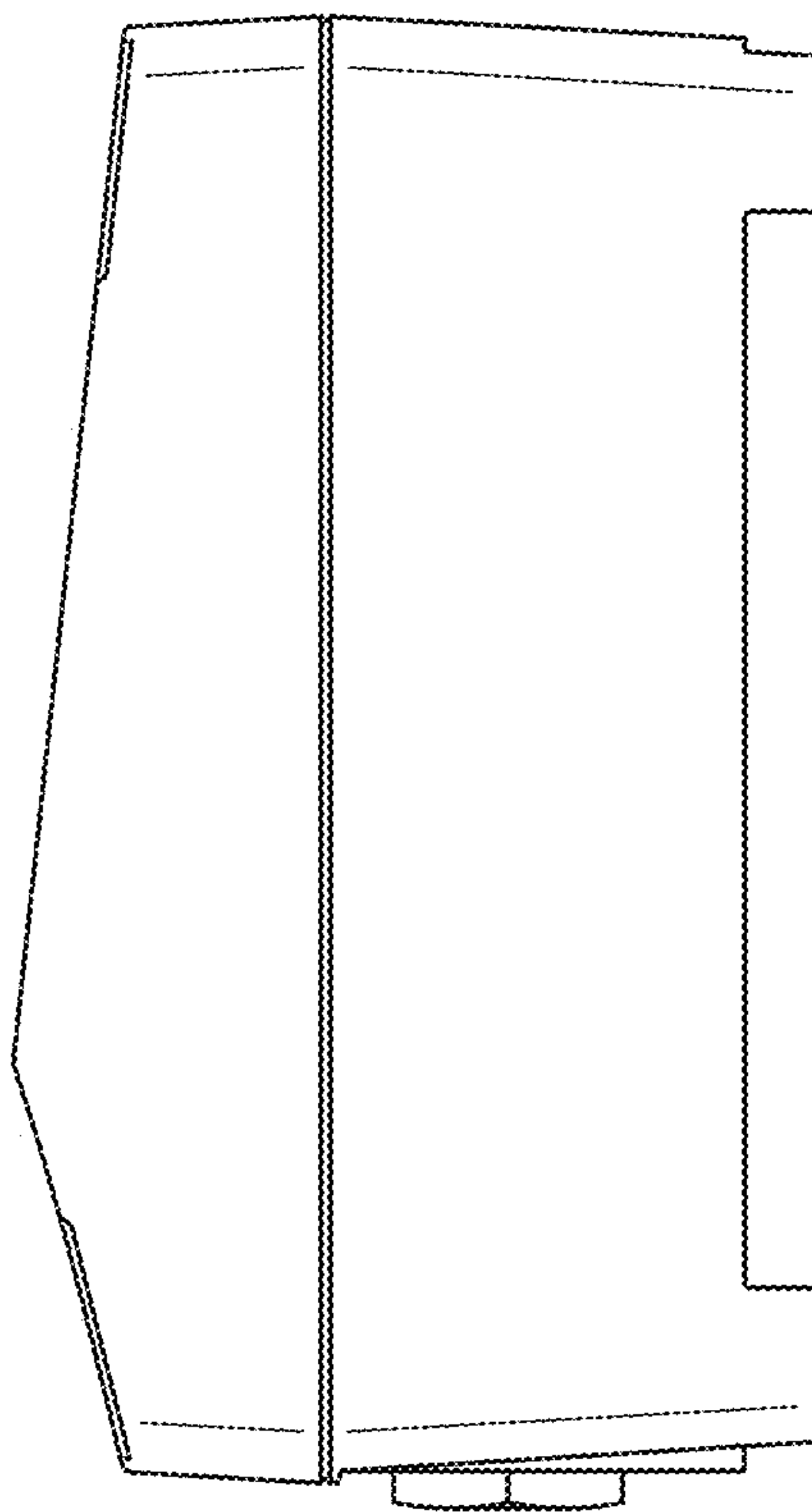


FIG. 13

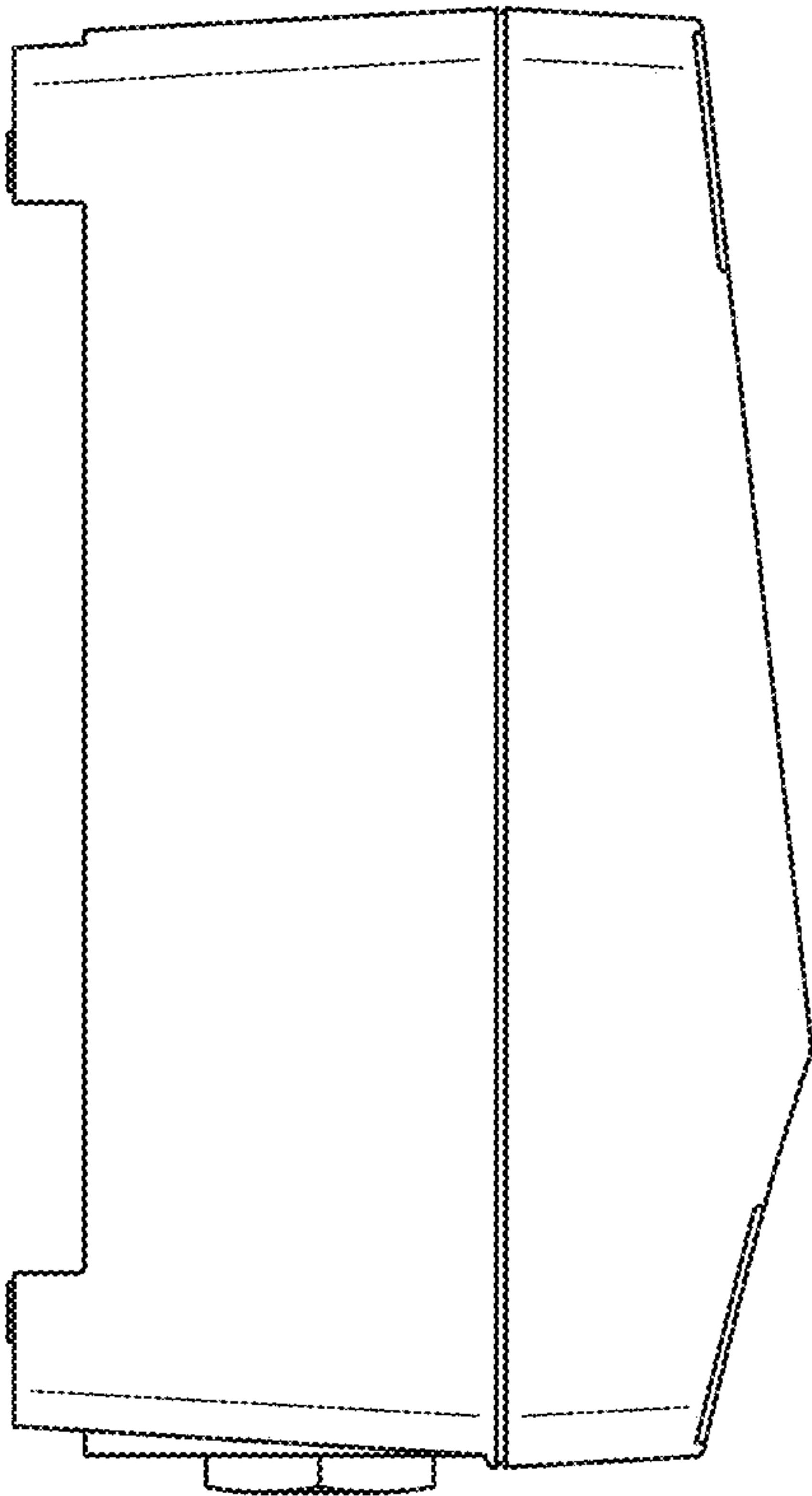


FIG. 14