



US00D963887S

(12) **United States Design Patent** (10) **Patent No.:** **US D963,887 S**
Wagatsuma et al. (45) **Date of Patent:** **** Sep. 13, 2022**

(54) **CULTURE CONTAINER**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **NIPRO CORPORATION**, Osaka (JP)

CN 201730308519 3/2018
JP D2011-23515 4/2013

(72) Inventors: **Yusuke Wagatsuma**, Osaka (JP);
Ryosuke Nakamura, Osaka (JP);
Hideaki Yamamoto, Osaka (JP);
Masafumi Yao, Osaka (JP); **Masakatsu**
Takeuchi, Osaka (JP); **Yoshihiro**
Yoshikawa, Osaka (JP); **Shinya Asaka**,
Osaka (JP); **Naoki Nakagawa**, Osaka
(JP)

(Continued)

OTHER PUBLICATIONS

Millicell HY 5-layer cell culture flask, T-1000, sterile. Online,
published date unknown. Retrieved on Jan. 31, 2022 from URL:
<https://www.sigmaldrich.com/US/en/product/mm/pfphys1008>.*

(Continued)

(73) Assignee: **NIPRO CORPORATION**, Osaka (JP)

Primary Examiner — Omeed Agilee

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

(74) *Attorney, Agent, or Firm* — Birch, Stewart, Kolasch
& Birch, LLP

(21) Appl. No.: **29/822,811**

(57) **CLAIM**

(22) Filed: **Jan. 12, 2022**

The ornamental design for a culture container, as shown and
described.

Related U.S. Application Data

DESCRIPTION

(62) Division of application No. 29/732,650, filed on Apr.
27, 2020.

(30) **Foreign Application Priority Data**

Oct. 28, 2019 (JP) 2019-023901
Oct. 28, 2019 (JP) 2019-023902

(Continued)

(51) **LOC (13) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/224**

(58) **Field of Classification Search**
USPC D24/216, 223–227, 229–232; D9/537,
D9/545, 549; D3/203.1, 203.2; D10/81
(Continued)

FIG. 1 is a front view of a culture container in accordance
with Embodiment 1 of the present design;
FIG. 2 is a rear view thereof;
FIG. 3 is a right side view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof;
FIG. 7 is a first perspective view thereof;
FIG. 8 is a second perspective view thereof;
FIG. 9 is a cross sectional view taken along line 9-9 of FIG.
1;
FIG. 10 is a front view of a culture container in accordance
with Embodiment 2 of the present design;
FIG. 11 is a rear view thereof;
FIG. 12 is a right side view thereof;
FIG. 13 is a left side view thereof;
FIG. 14 is a top view thereof;
FIG. 15 is a bottom view thereof;
FIG. 16 is a first perspective view thereof;
FIG. 17 is a second perspective view thereof;

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,732,149 A 5/1973 Santero
4,296,205 A 10/1981 Verma

(Continued)

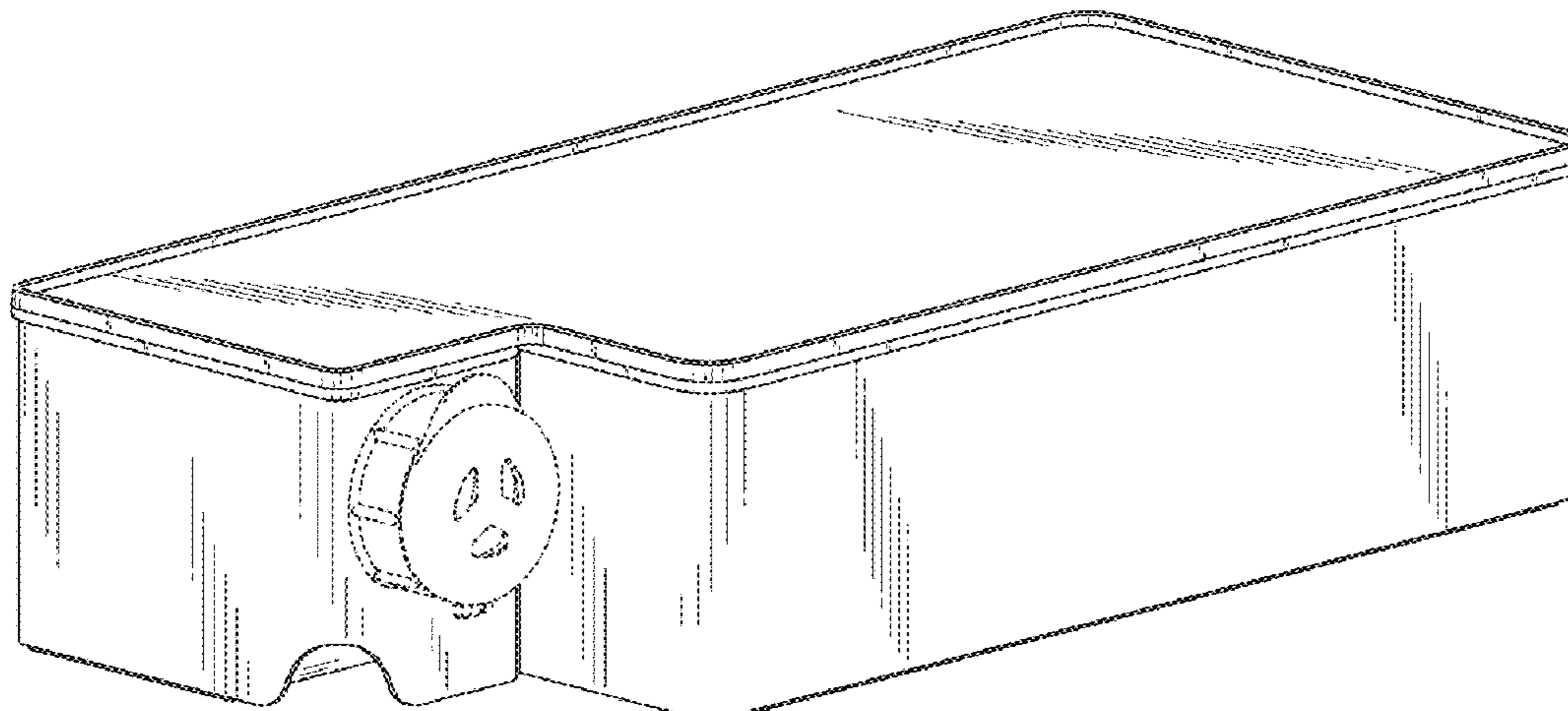


FIG. 18 is a cross sectional view taken along line 18-18 of FIG. 10;
 FIG. 19 is a front view of a culture container in accordance with Embodiment 3 of the present design;
 FIG. 20 is a rear view thereof;
 FIG. 21 is a right side view thereof;
 FIG. 22 is a left side view thereof;
 FIG. 23 is a top view thereof;
 FIG. 24 is a bottom view thereof;
 FIG. 25 is a first perspective view thereof;
 FIG. 26 is a second perspective view thereof; and,
 FIG. 27 is a cross sectional view taken along line 27-27 of FIG. 19.

The broken lines shown in the drawings represent portions of the culture container that form no part of the claimed design.

1 Claim, 17 Drawing Sheets

(30) Foreign Application Priority Data

Oct. 28, 2019 (JP) 2019-023903
 Oct. 28, 2019 (JP) 2019-023943
 Oct. 28, 2019 (JP) 2019-023944
 Oct. 28, 2019 (JP) 2019-023945

(58) Field of Classification Search

CPC .. B01L 3/0275; B01L 3/5085; B01L 3/50825;
 C12M 23/10; C12M 23/12; C12M 23/40;
 C12M 23/04

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

6,492,163 B1 12/2002 Yoo et al.
 D663,946 S 7/2012 Powers

8,809,044 B2 8/2014 Wilson
 D797,439 S 9/2017 Harper, IV et al.
 D927,725 S 8/2021 Irie et al.
 2002/0039785 A1* 4/2002 Schroeder C12M 23/08
 435/297.5
 2008/0003671 A1* 1/2008 Martin C12M 23/08
 435/304.3
 2009/0298163 A1* 12/2009 Bennett C12M 23/34
 435/297.1
 2013/0196315 A1* 8/2013 Chilosi C12Q 1/04
 435/7.1
 2014/0120607 A1* 5/2014 Abraham C12M 23/34
 435/289.1
 2014/0120608 A1* 5/2014 Carter C12M 23/40
 435/289.1
 2016/0115434 A1 4/2016 Pankratz et al.
 2018/0223238 A1* 8/2018 Shen C12M 35/06
 2018/0229241 A1* 8/2018 Bishop C12M 41/00
 2019/0010437 A1* 1/2019 Yuan C12M 29/10
 2019/0010442 A1 1/2019 Jäger et al.
 2020/0181553 A1* 6/2020 Goral C12M 23/08
 2021/0189314 A1 6/2021 Martin et al.

FOREIGN PATENT DOCUMENTS

JP D1469470 S 5/2013
 JP D2018-15323 4/2019
 JP D1628690 S 4/2019
 KR 3020140061326 * 12/2015

OTHER PUBLICATIONS

5 Layer, 870cm² Cell Culture Multi-Layer Flask, Vent Cap, Tissue Culture Treated, RNase and DNase Free, Individually Wrapped, STERILE, 1/Pk, 8/Cs; Stellar Scientific, p. 1-1.
 Japanese Office Action dated Sep. 29, 2020 for Application No. 2019-023901 with an English translation.

* cited by examiner

FIG. 1

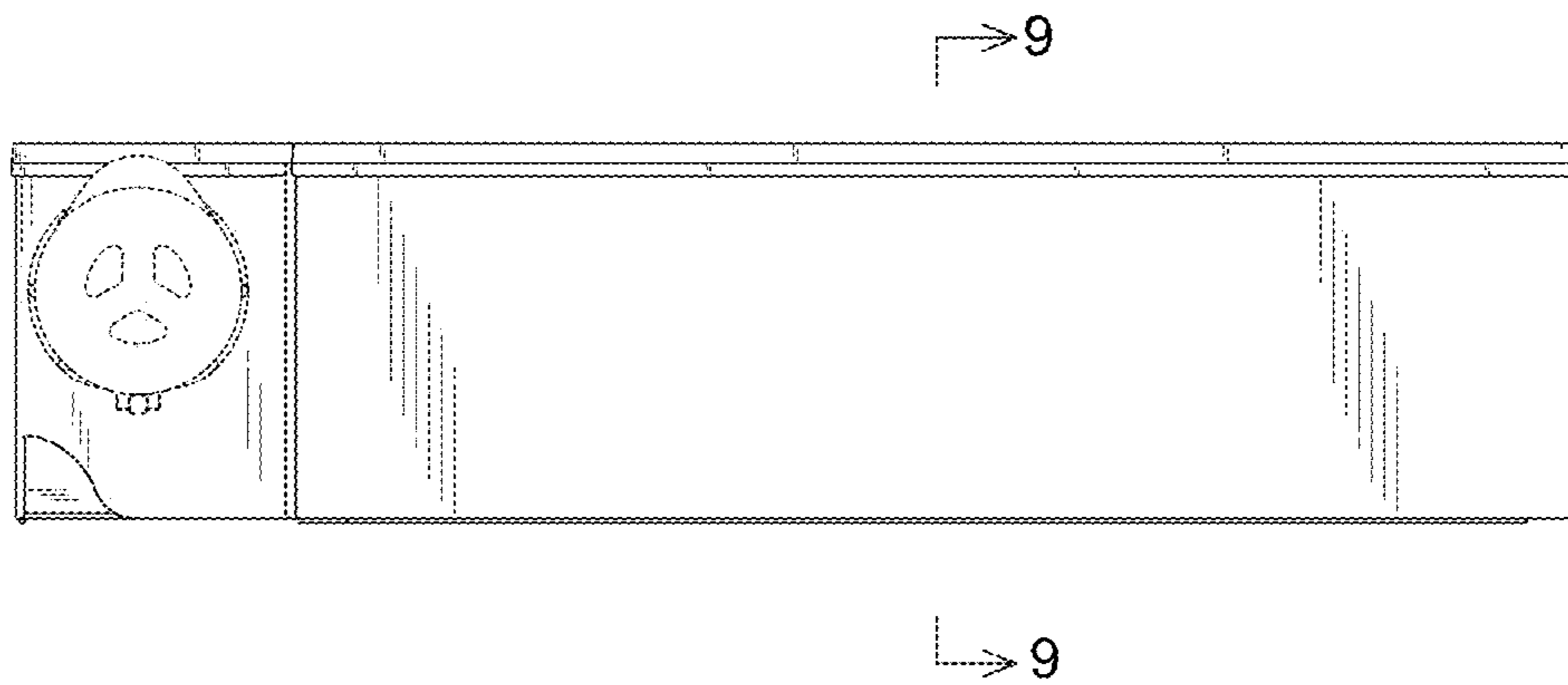


FIG. 2

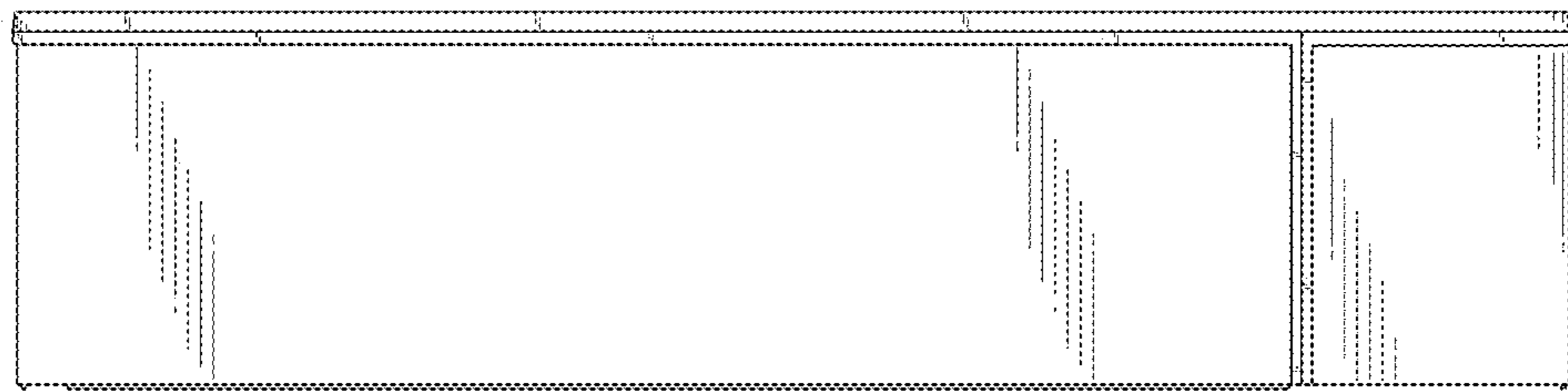


FIG. 3

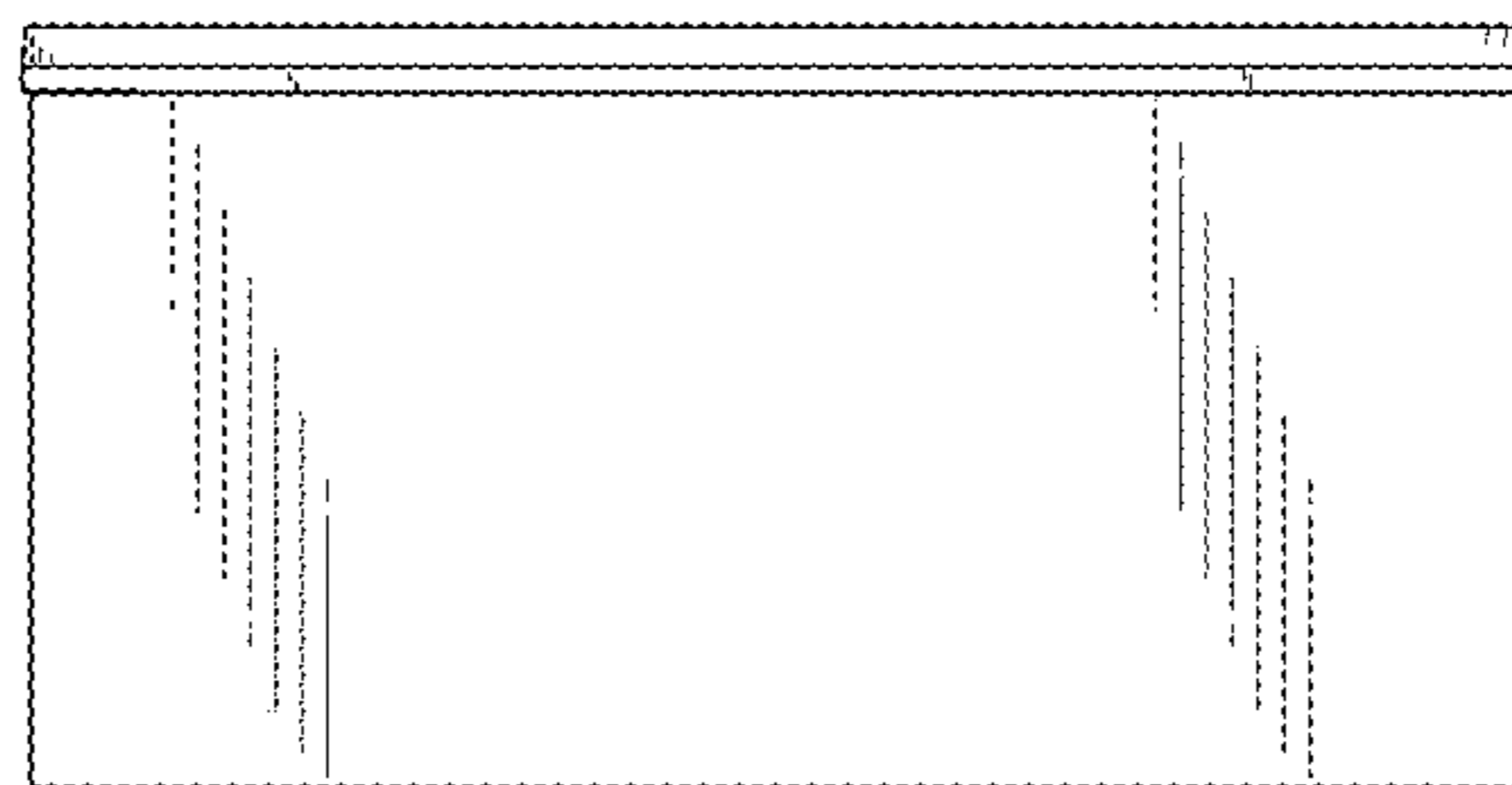


FIG. 4

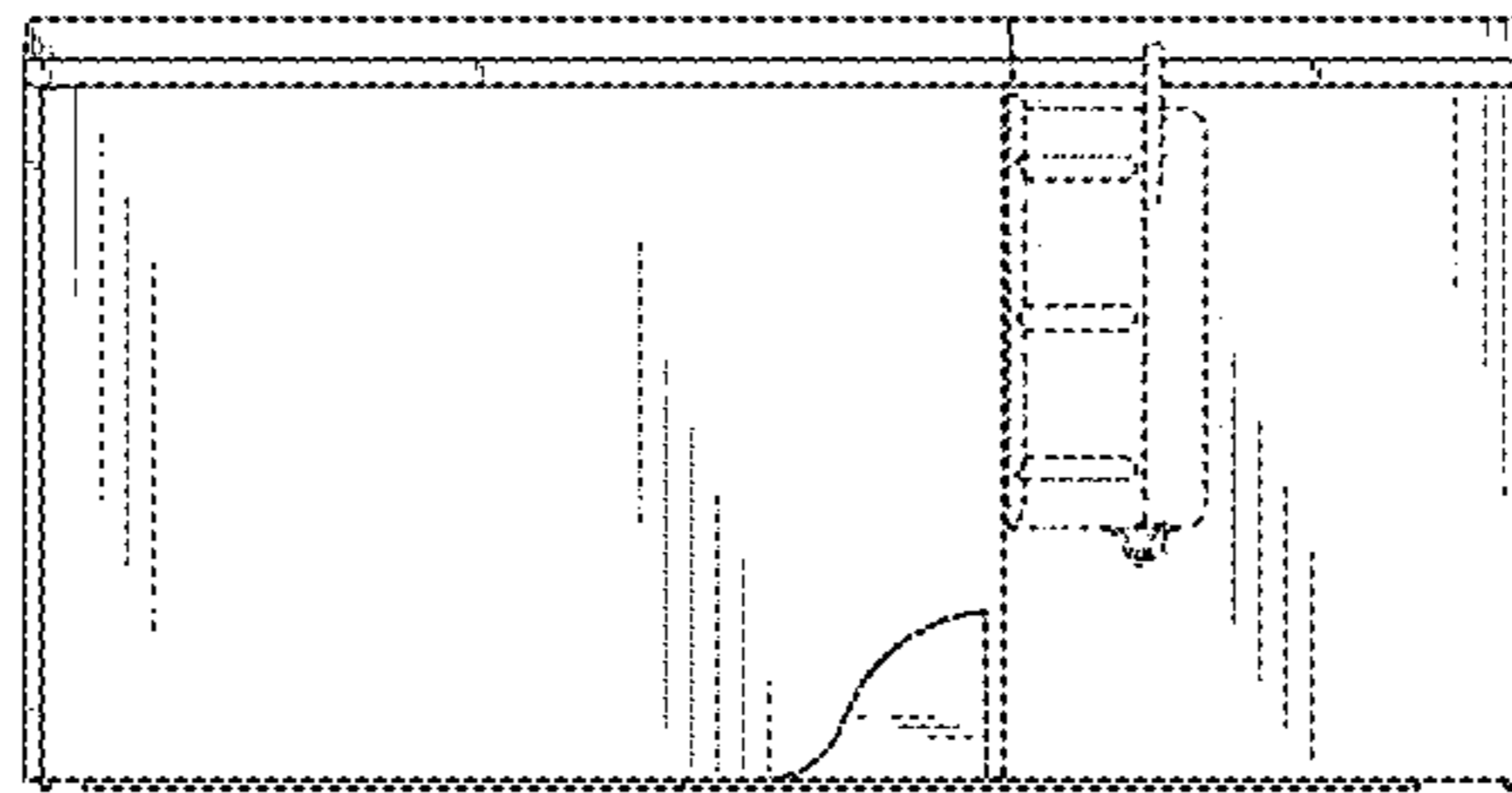


FIG. 5

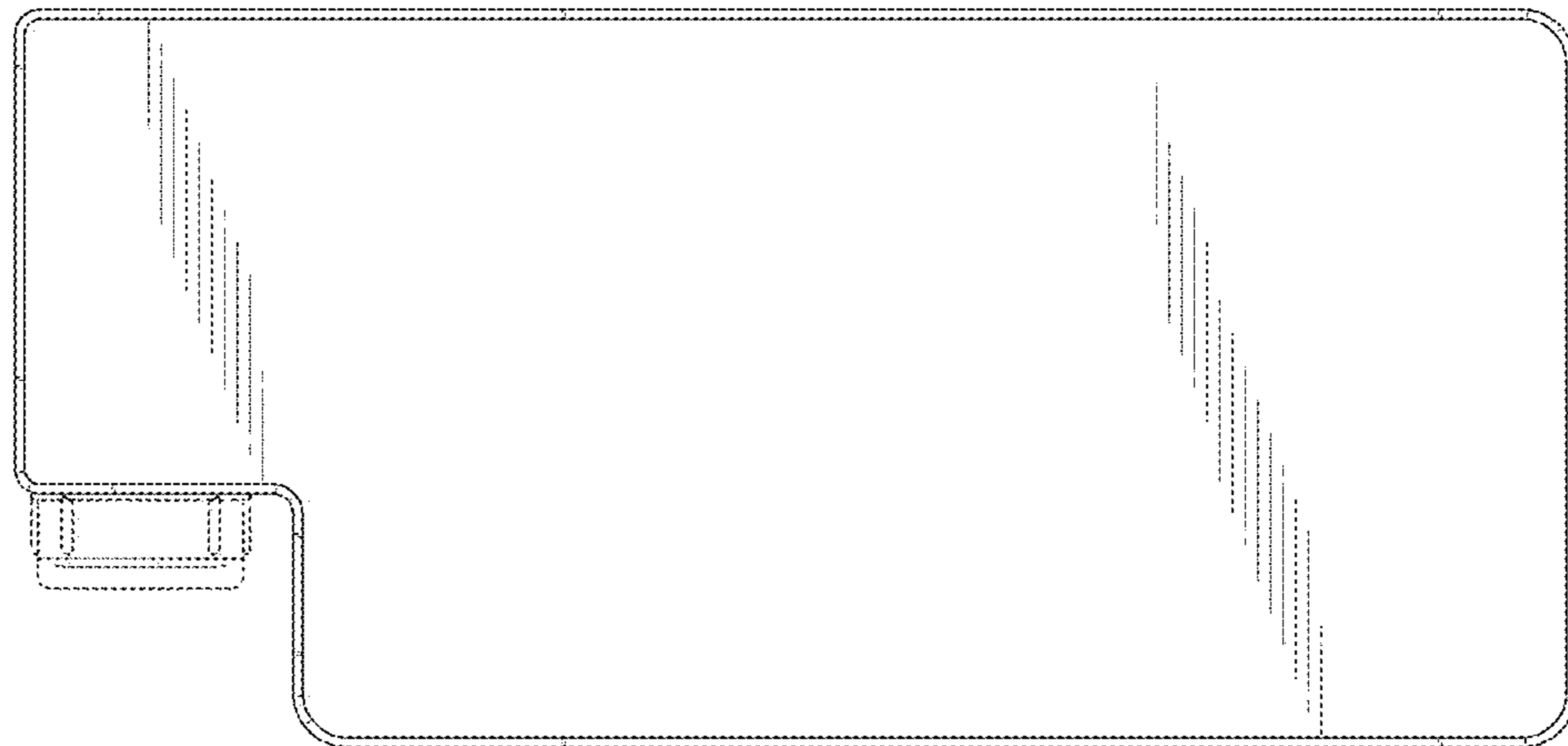


FIG. 6

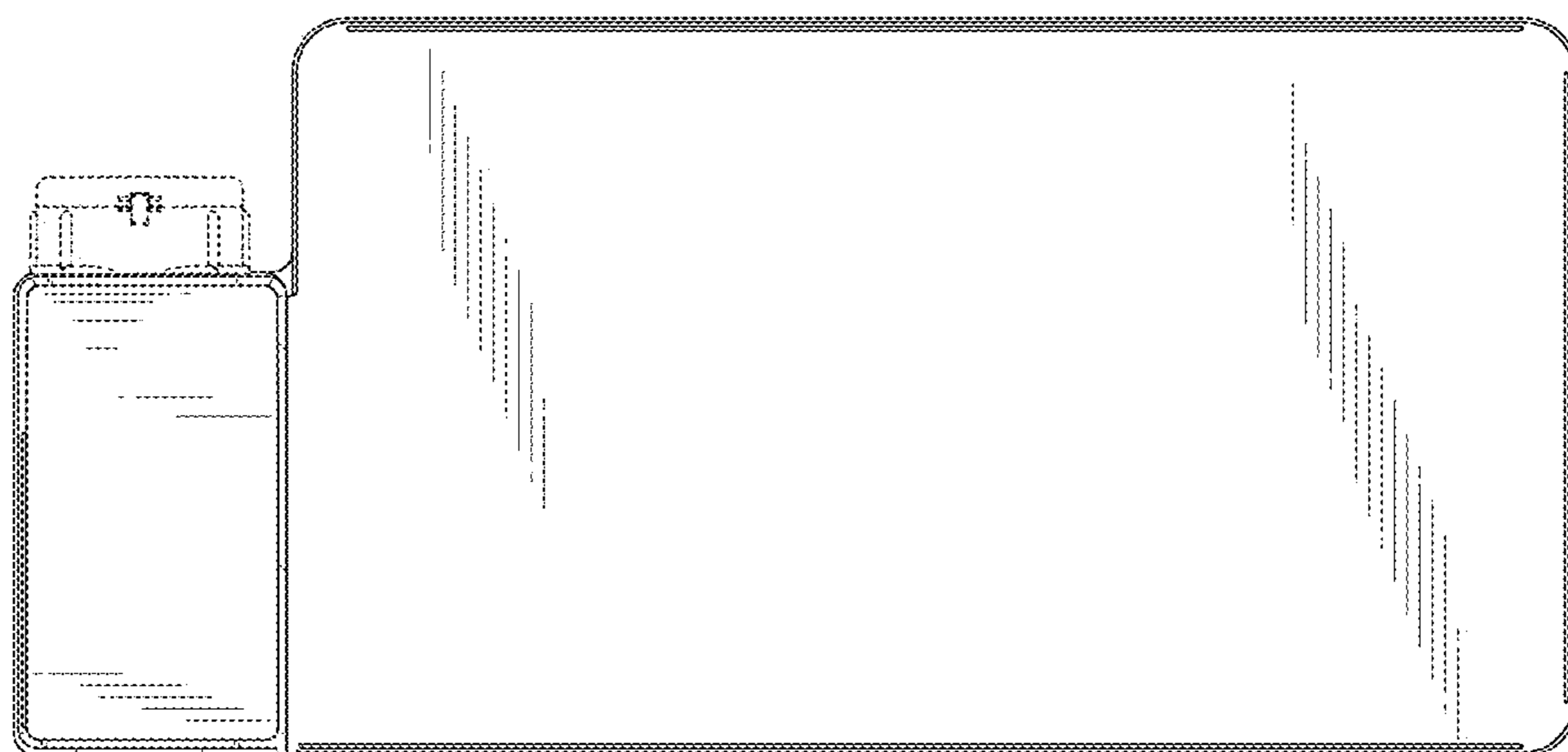


FIG. 7

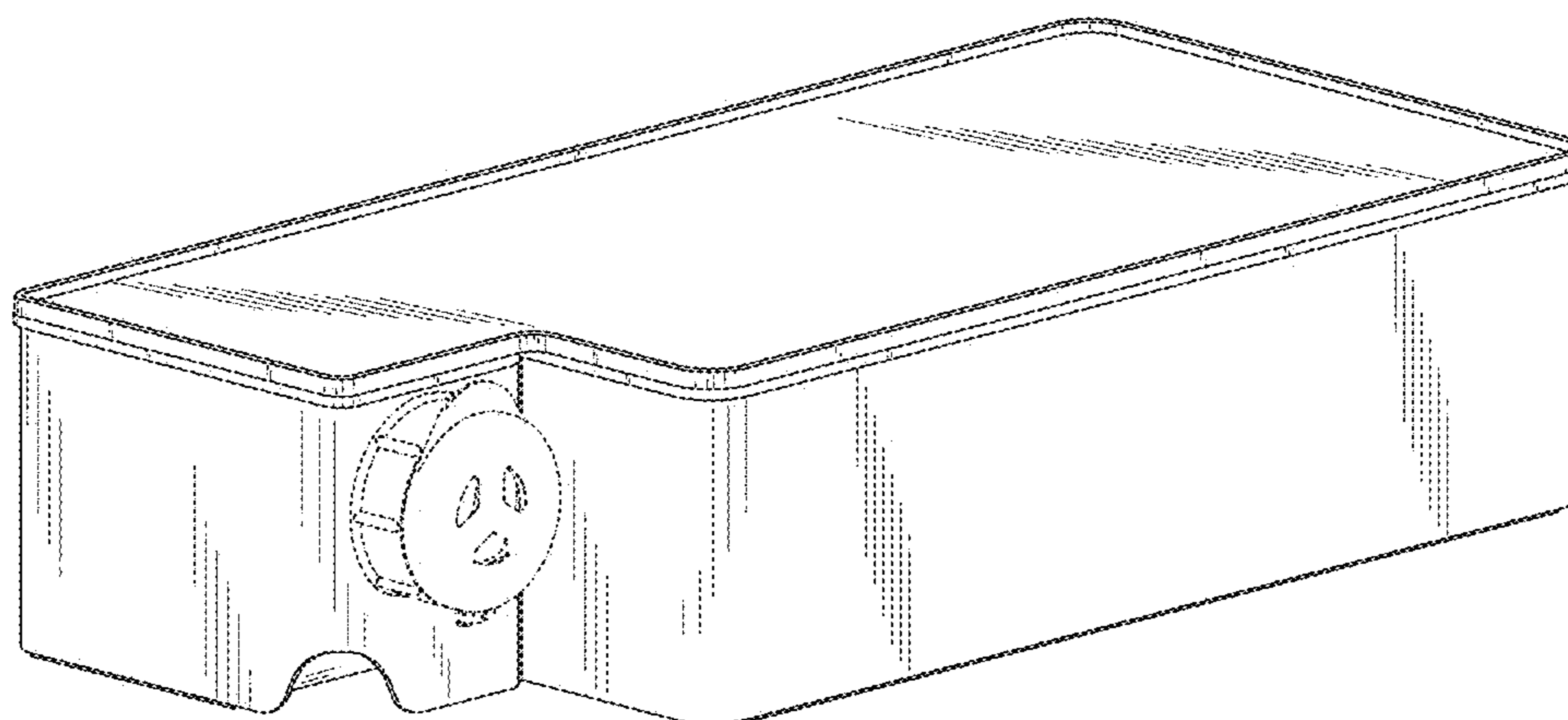


FIG. 8

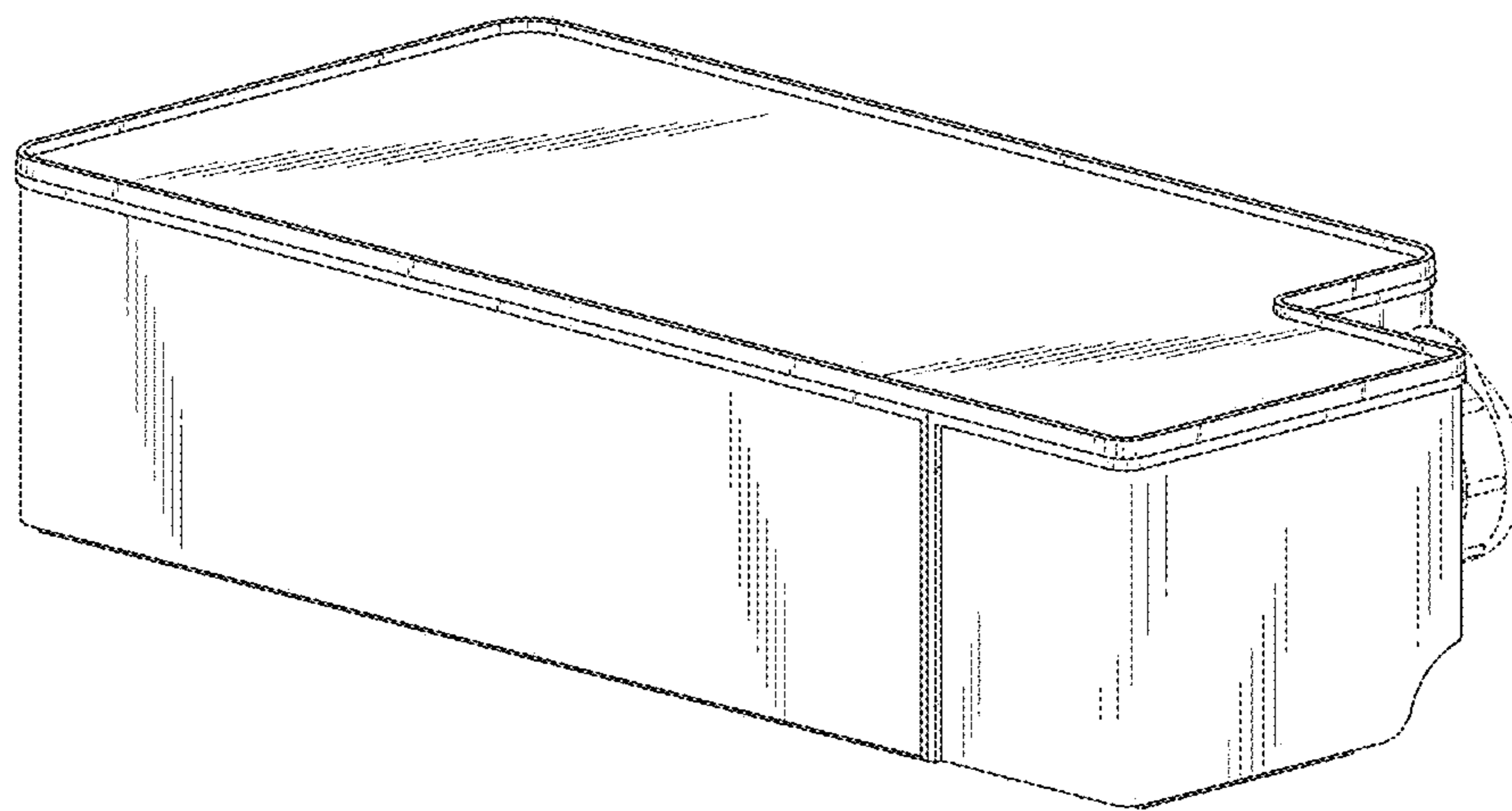


FIG. 9

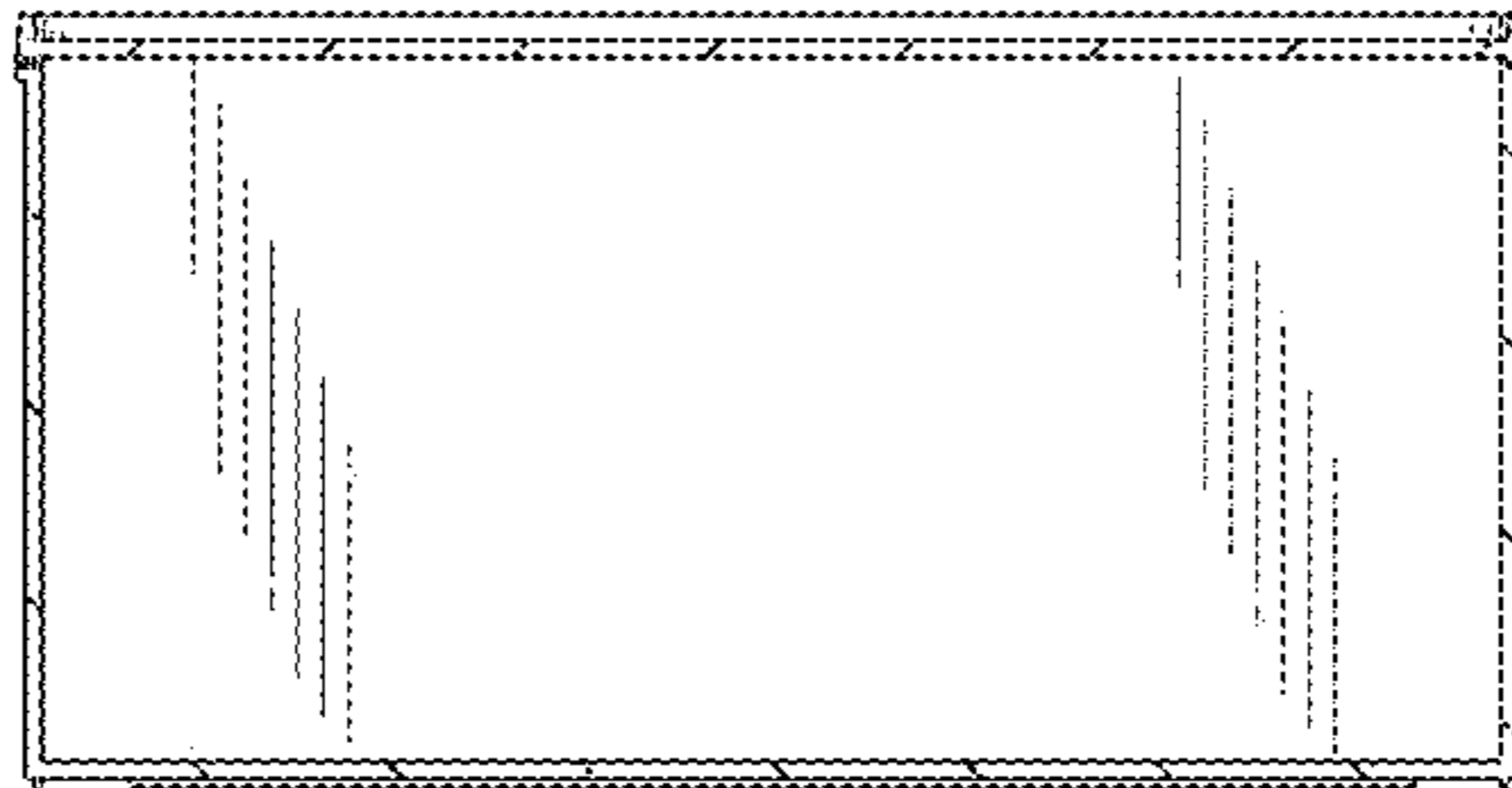


FIG.10

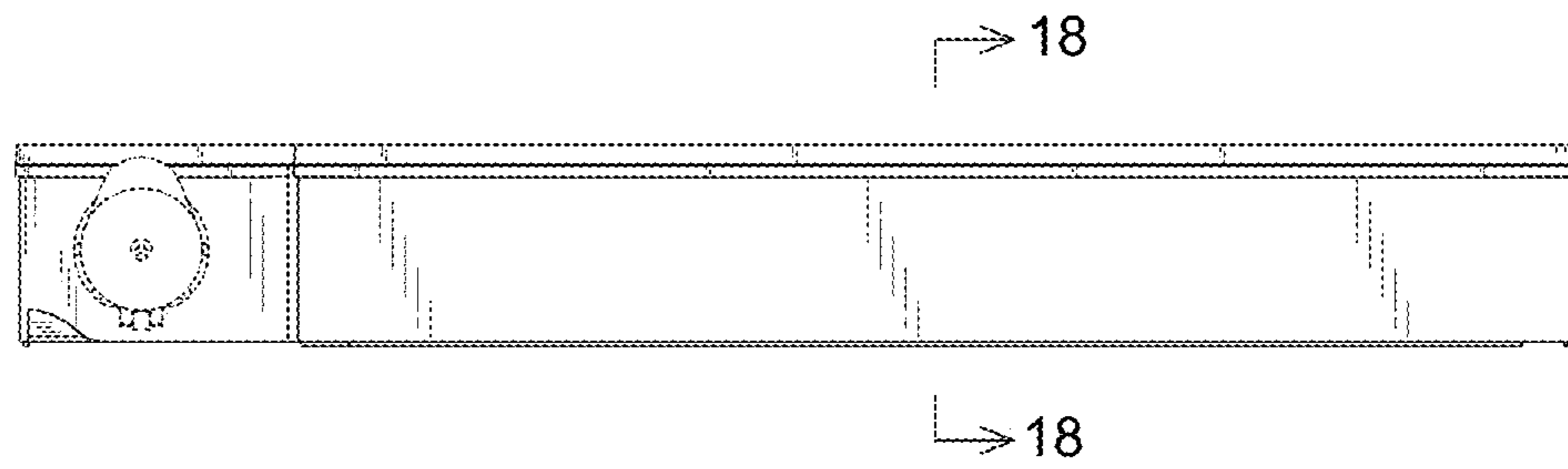


FIG.11

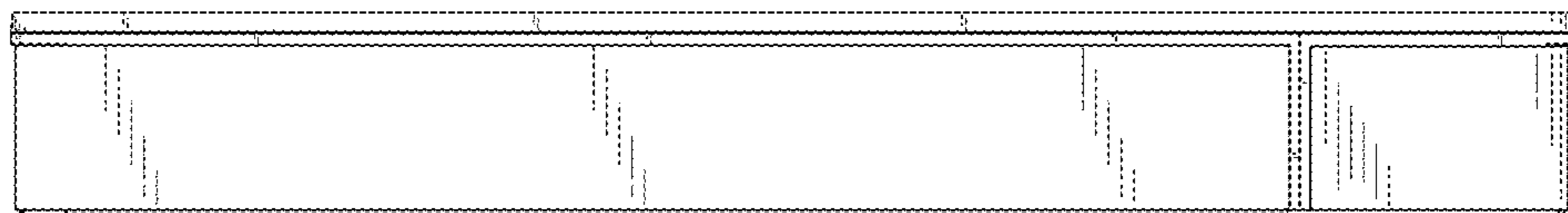


FIG.12

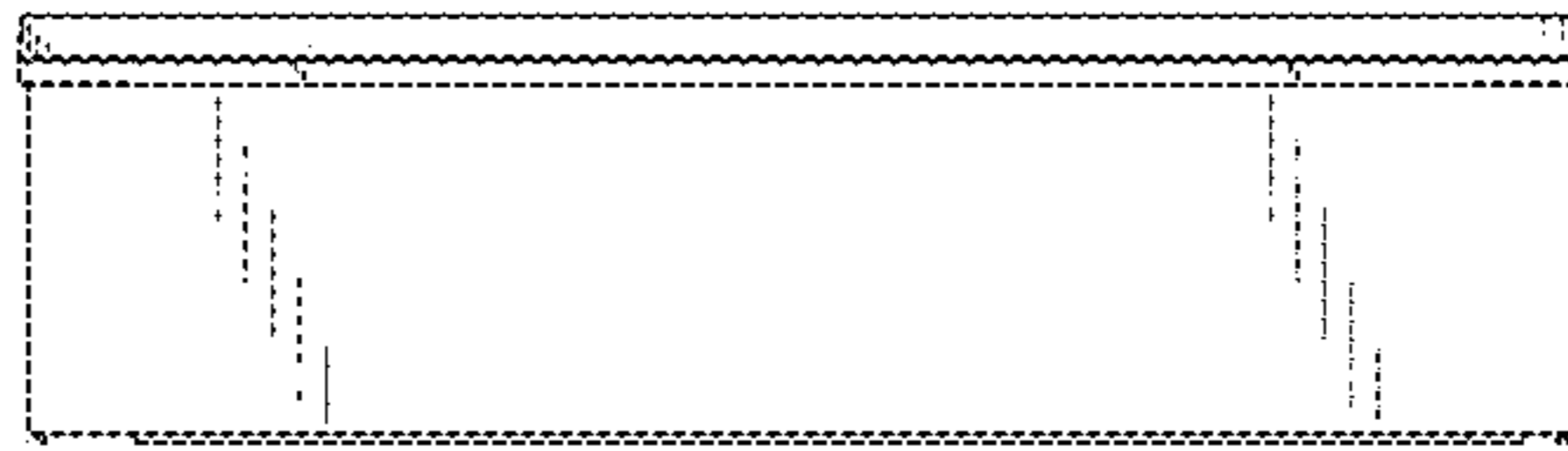


FIG.13



FIG.14

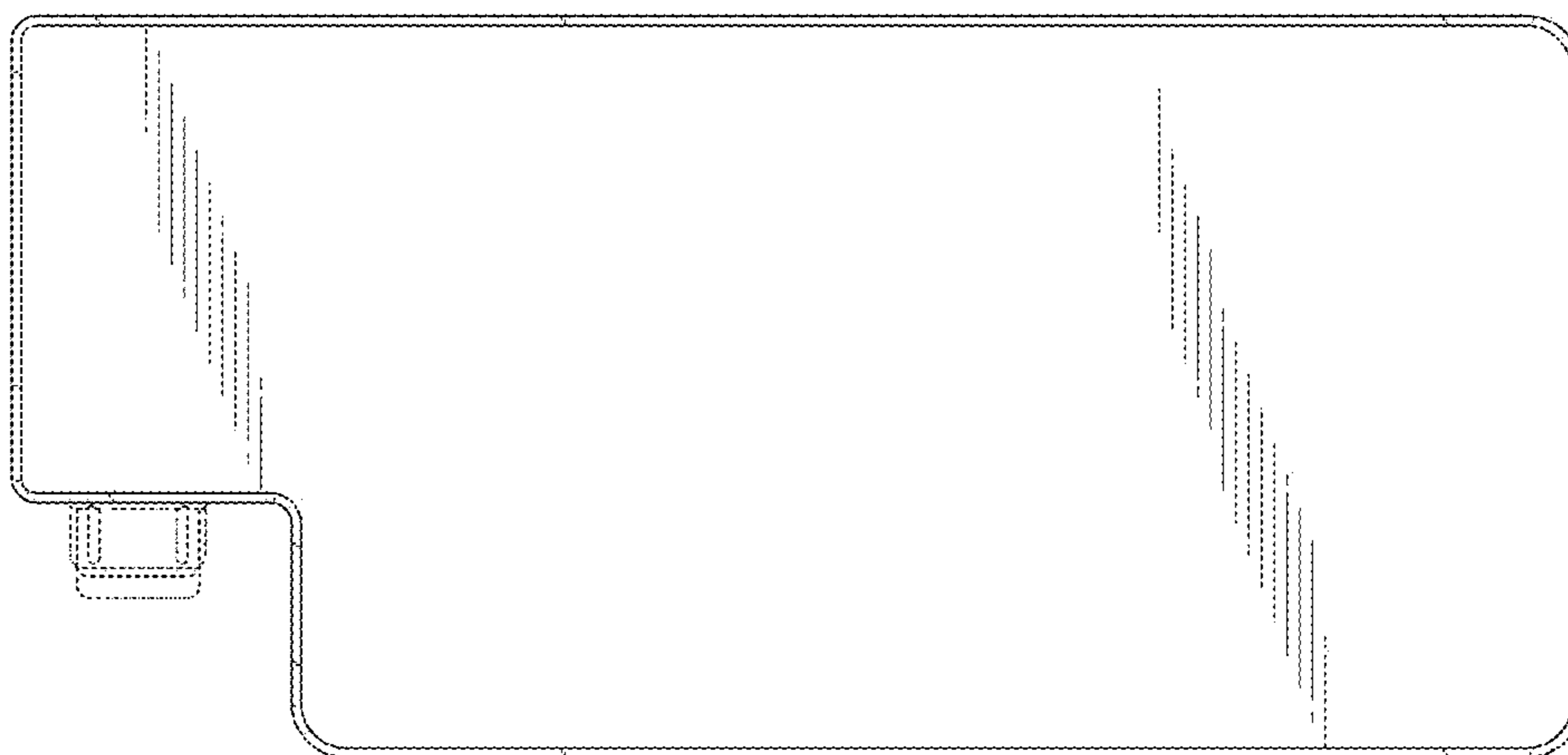


FIG.15



FIG.16

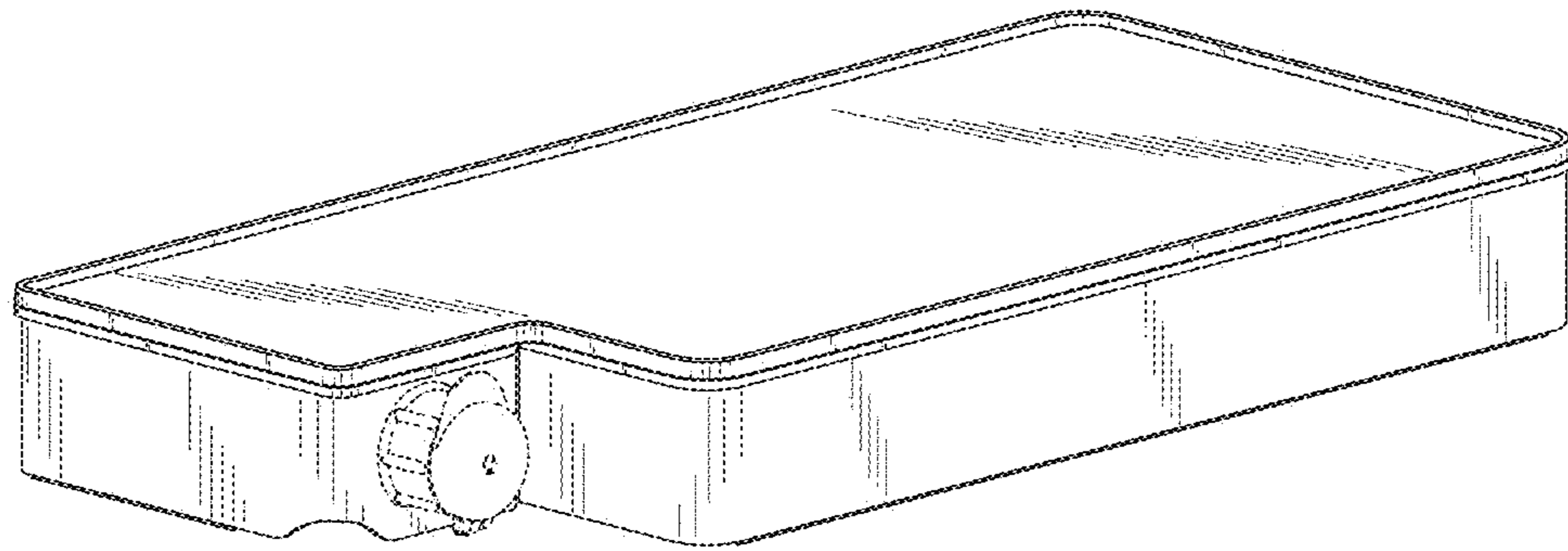


FIG.17

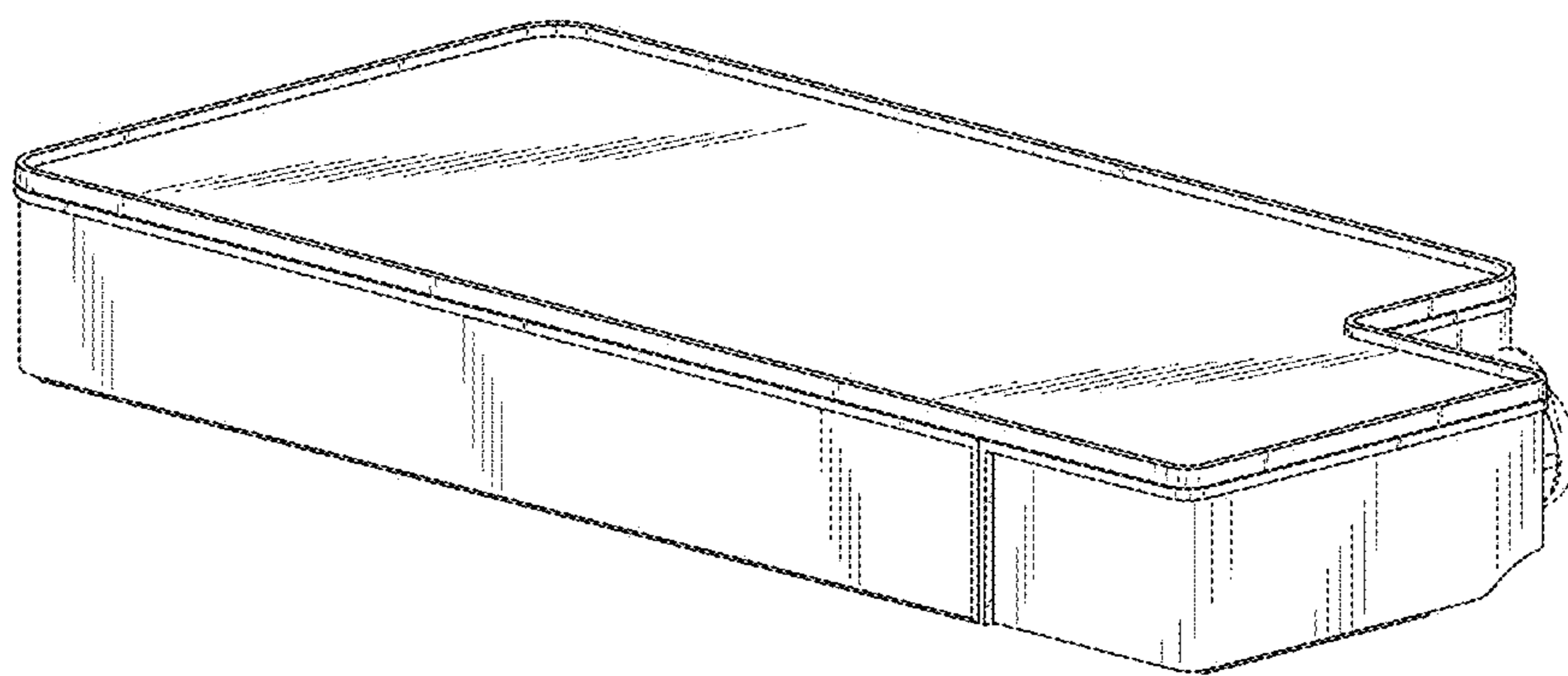


FIG. 18

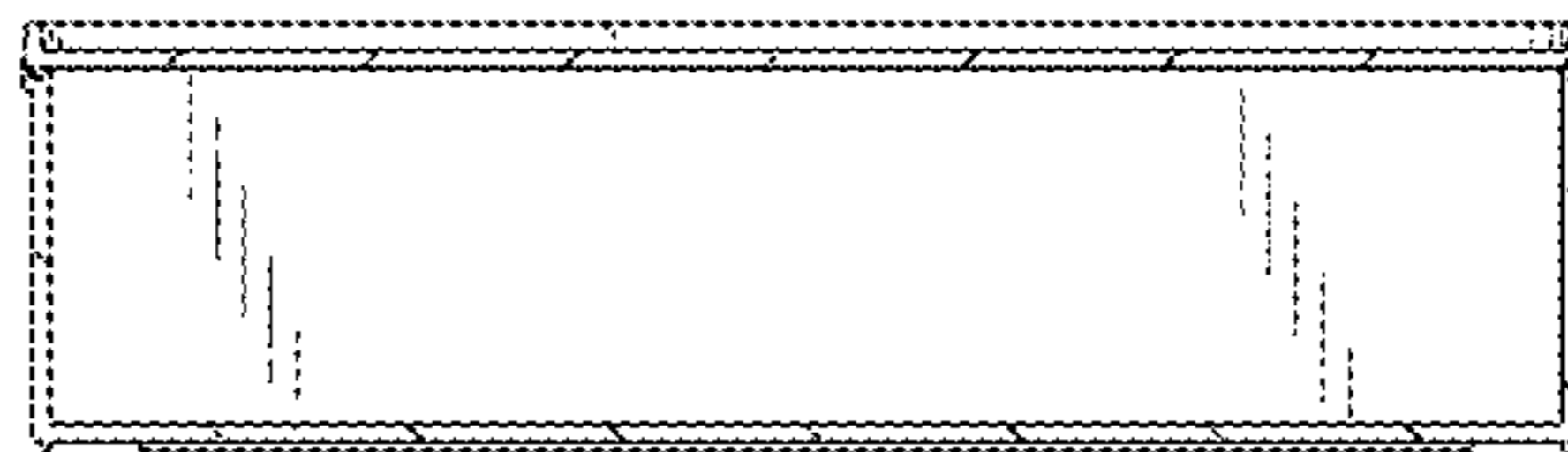


FIG. 19

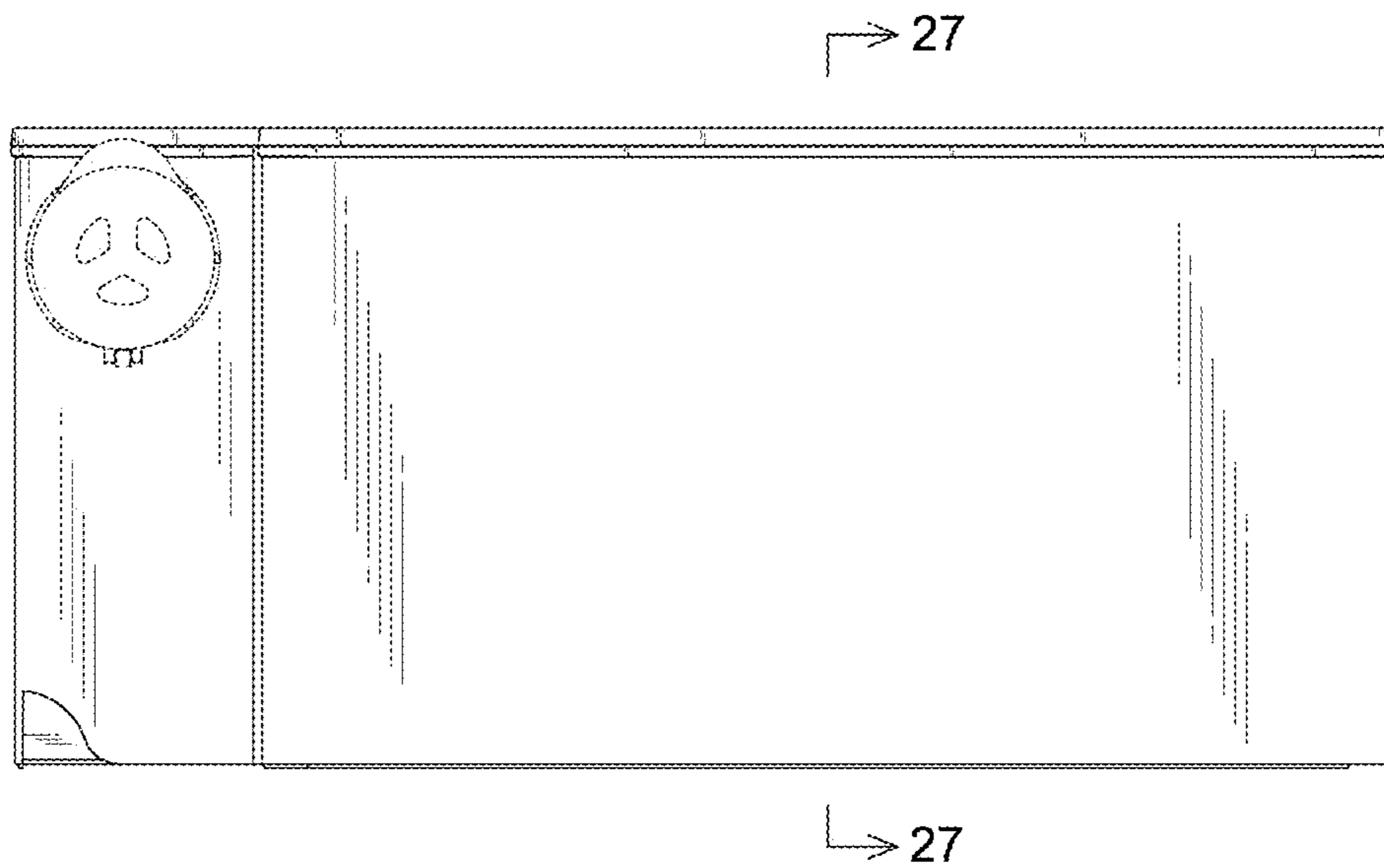


FIG. 20

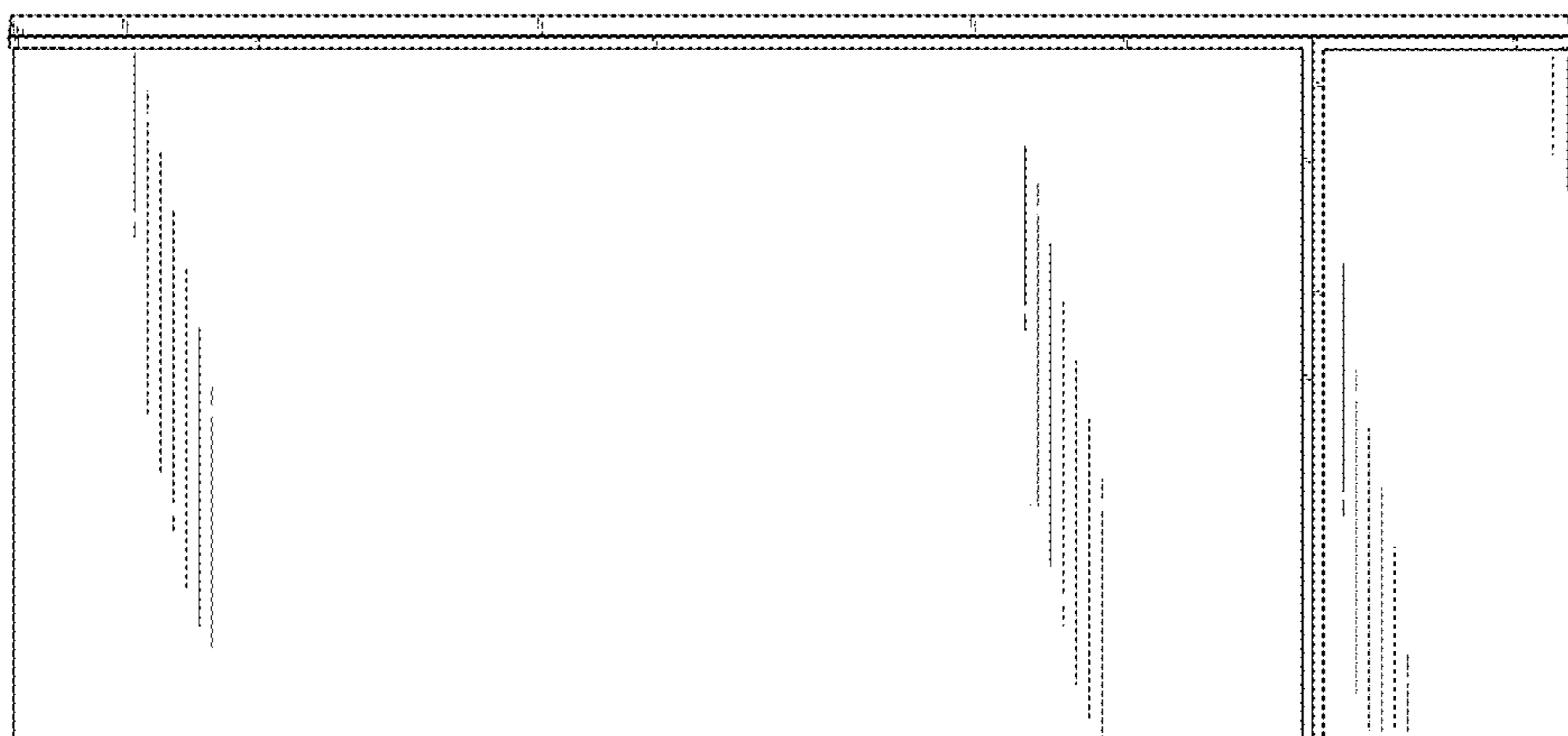


FIG. 21

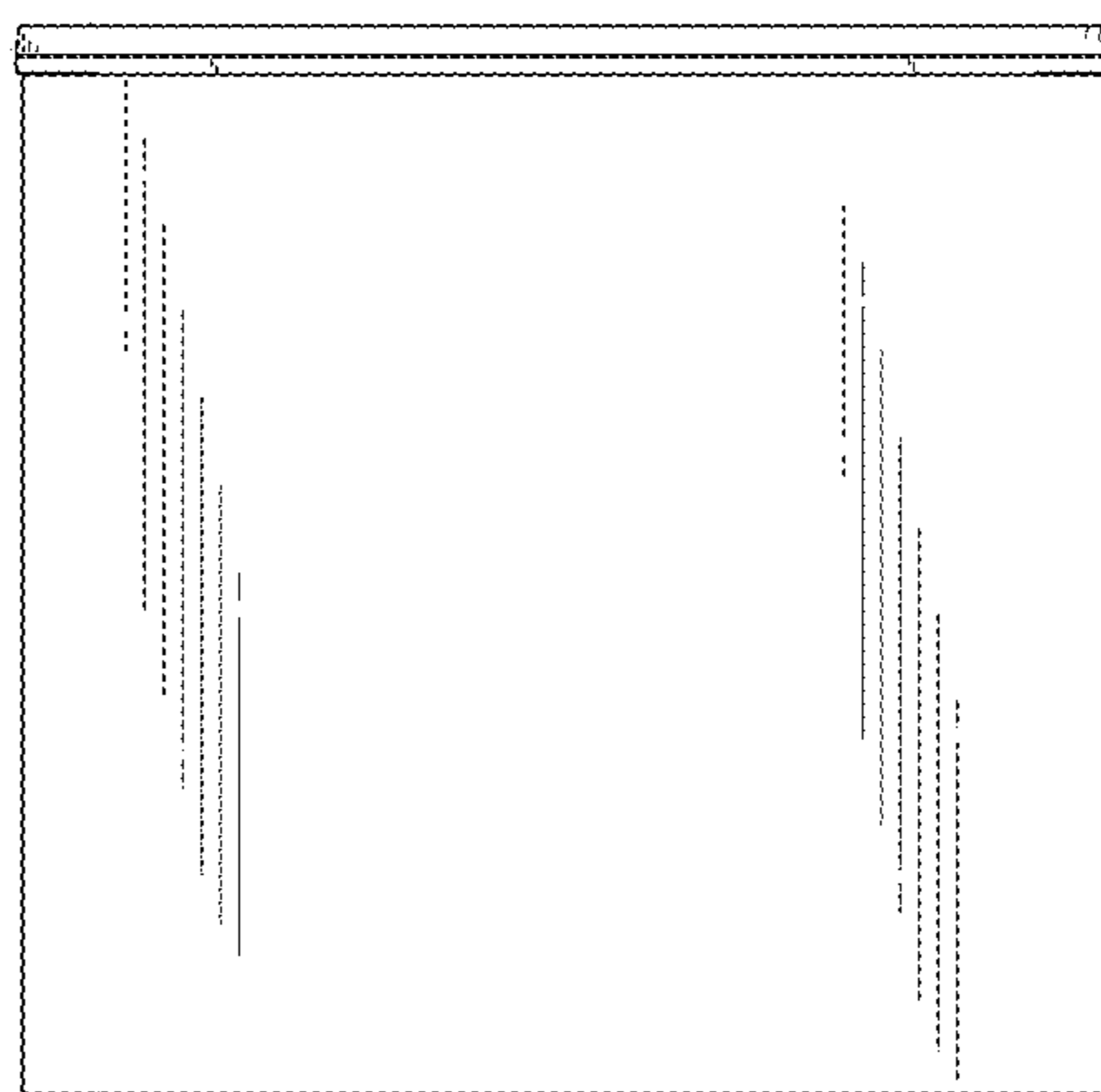


FIG. 22

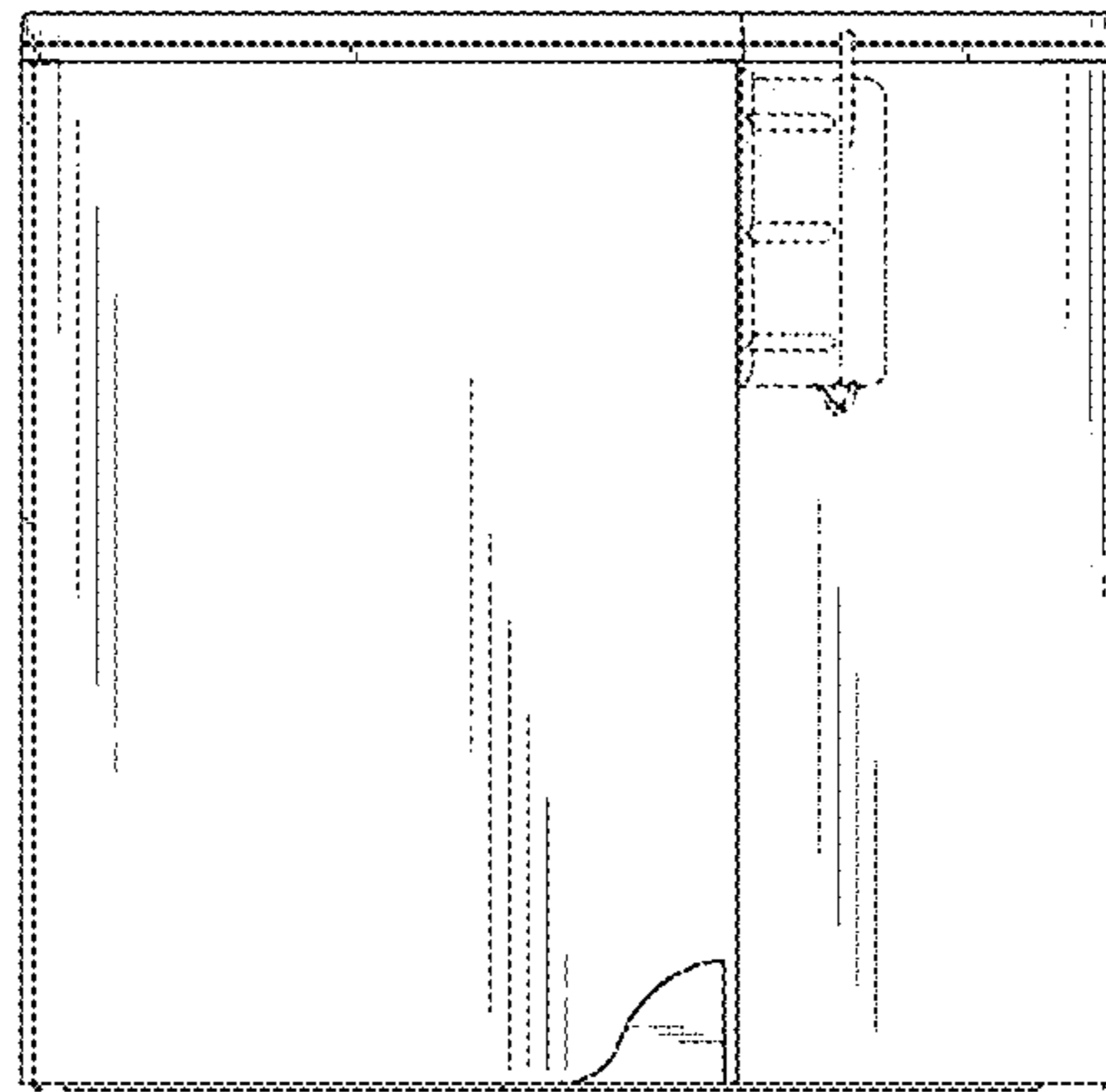


FIG. 23

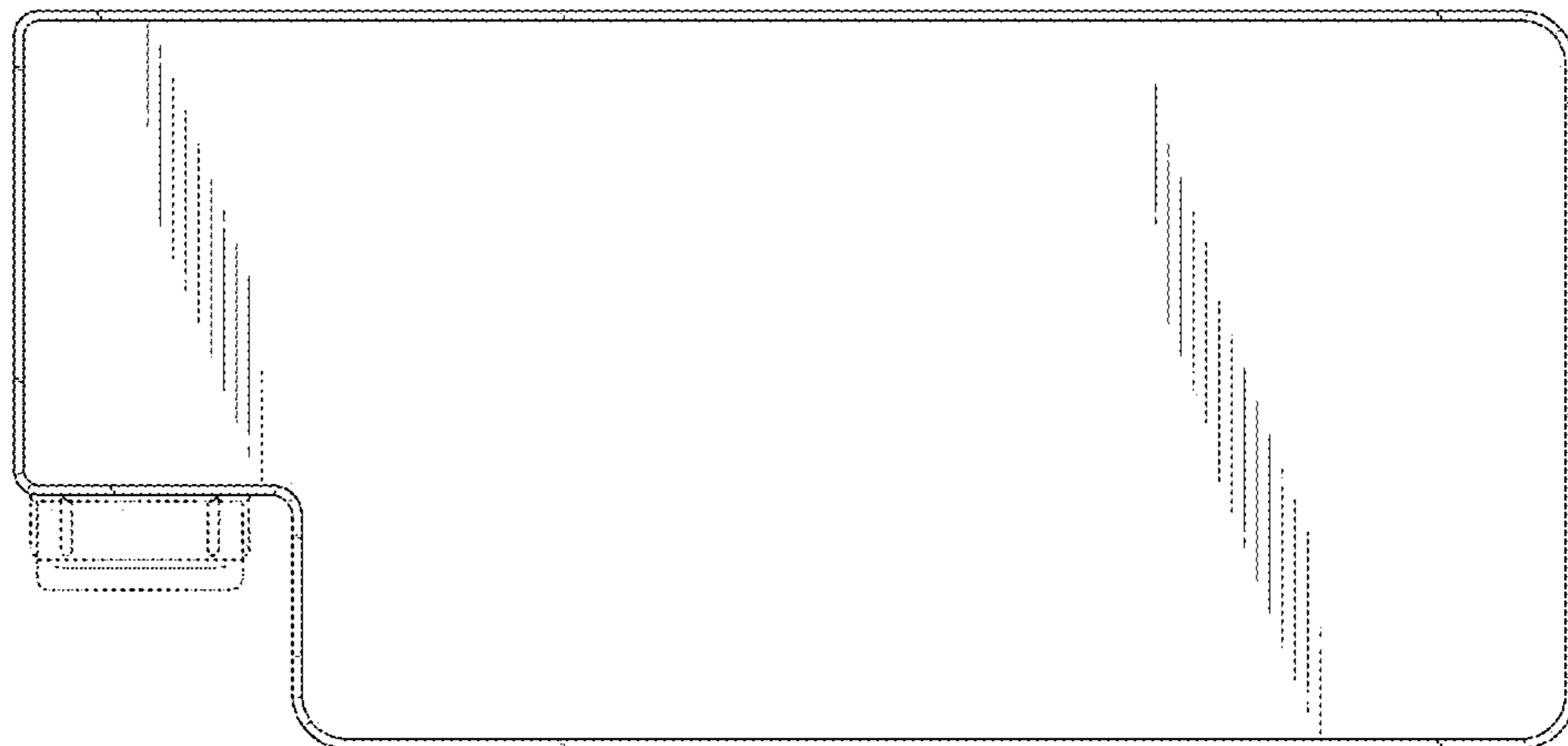


FIG. 24

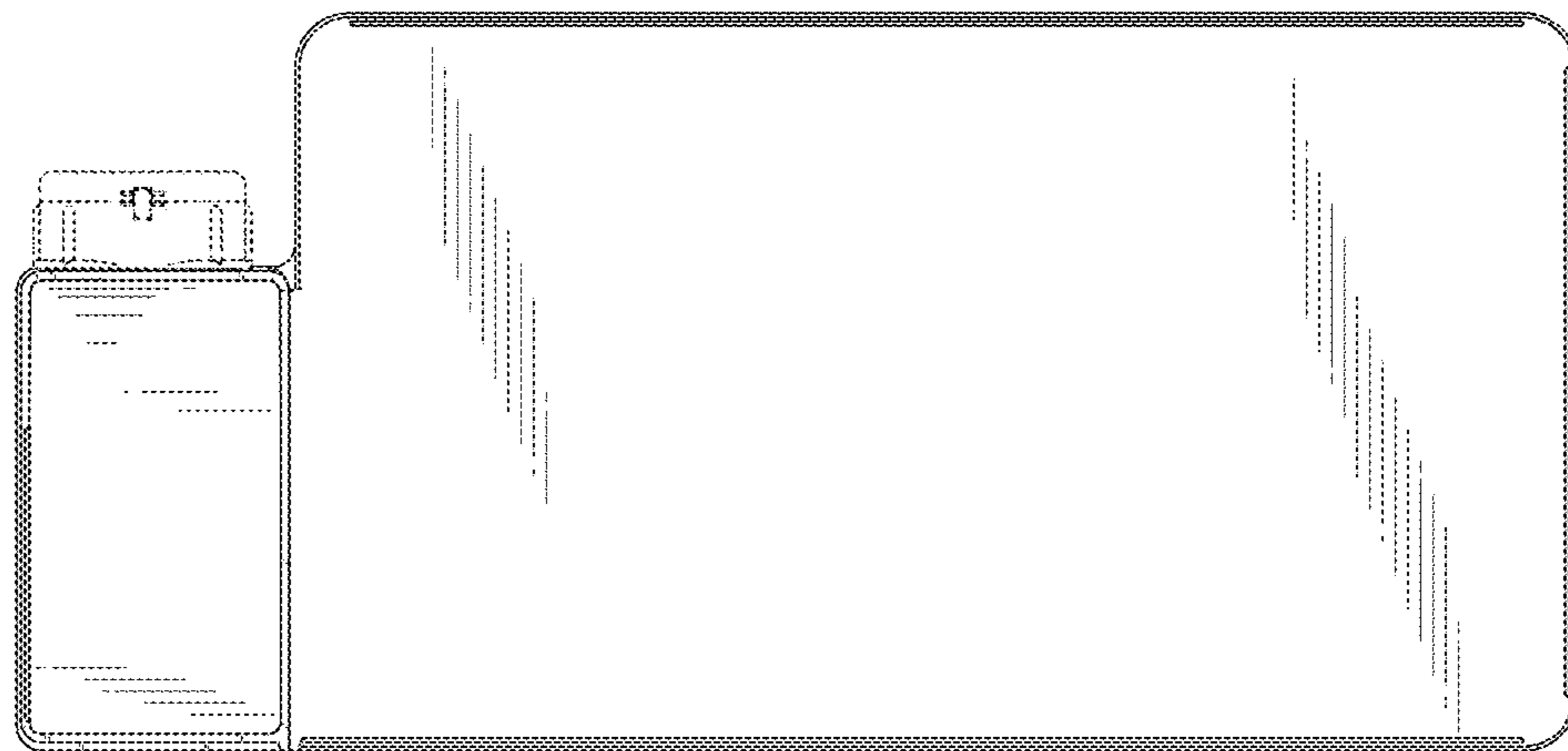


FIG. 25

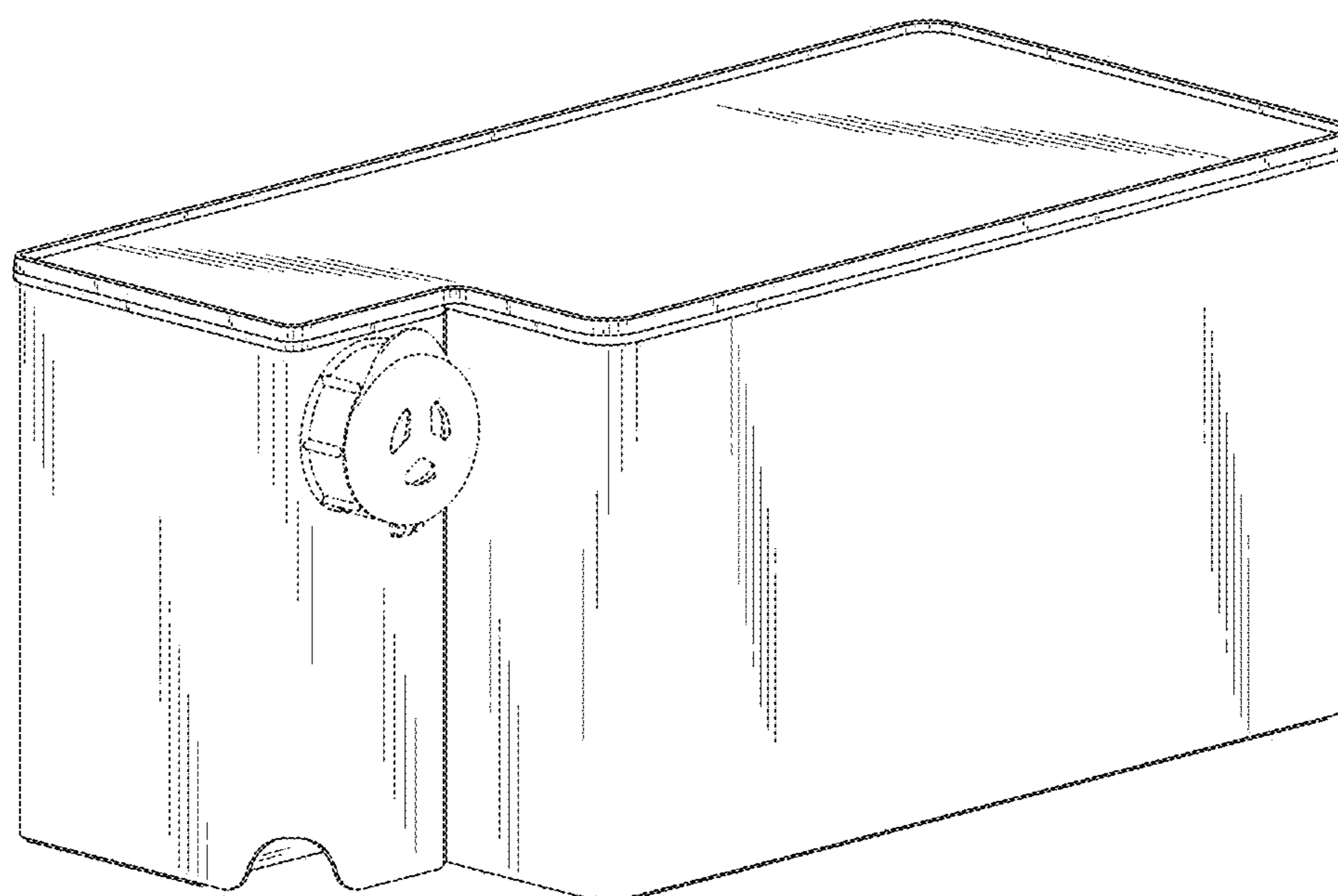


FIG. 26

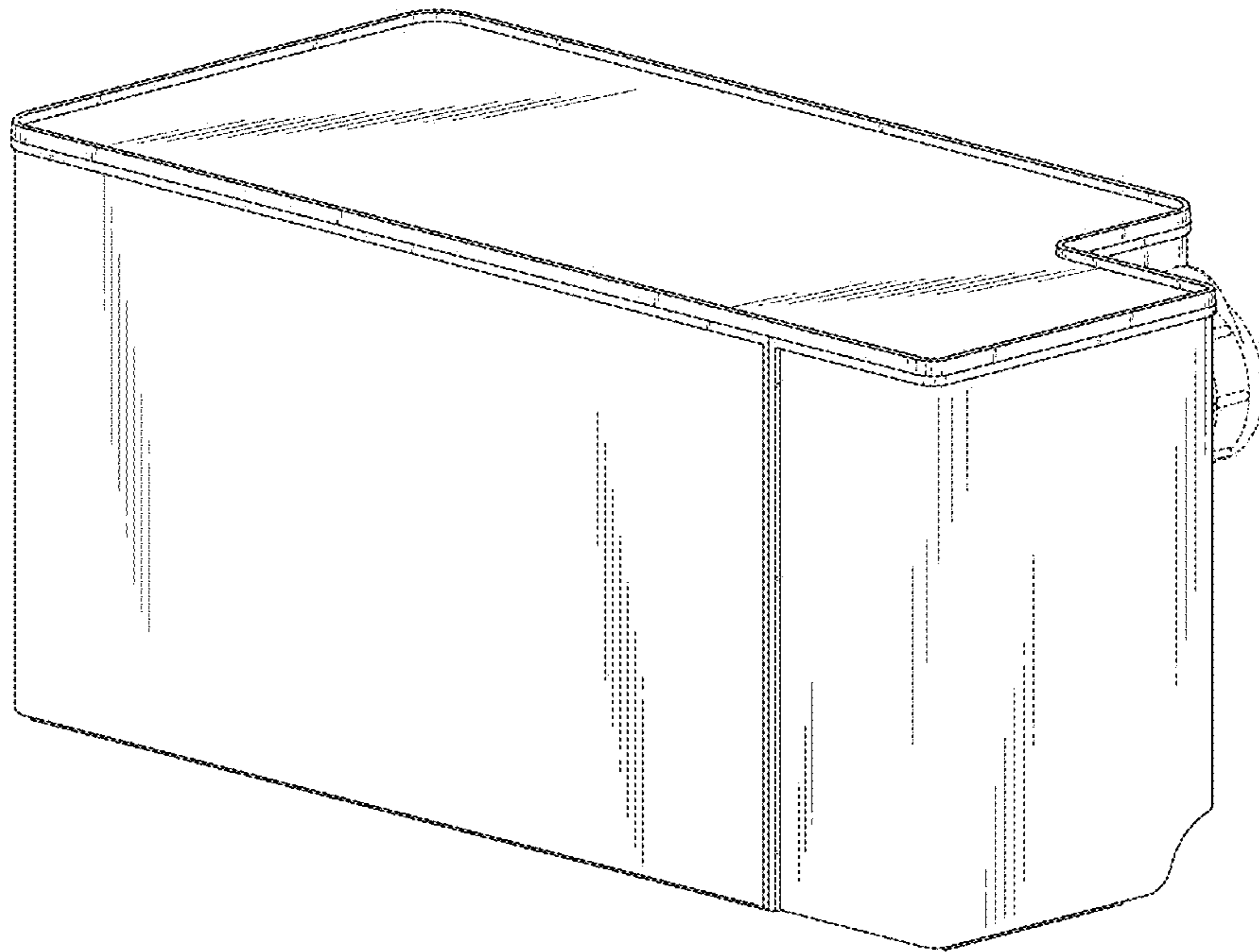


FIG. 27

