



US00D958731S

(12) **United States Design Patent** (10) **Patent No.:** **US D958,731 S**
Ruffing et al. (45) **Date of Patent:** **** Jul. 26, 2022**

(54) **FLAT BATTERY PACK**

(71) Applicant: **RRC Power Solutions GmbH**,
Homburg (DE)

(72) Inventors: **Gerhard Ruffing**, Homburg (DE);
Romuald Muckli, Berling (FR); **Marco Massierer**, Sankt-Wendel (DE)

(73) Assignee: **RRC POWER SOLUTIONS GMBH**

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

(21) Appl. No.: **29/679,458**

(22) Filed: **Feb. 6, 2019**

(30) **Foreign Application Priority Data**

Aug. 7, 2018 (EM) 005569076-0001

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

(52) **U.S. Cl.**
USPC **D13/103**

(58) **Field of Classification Search**
USPC D13/102, 103, 107, 108, 110, 112, 113,
D13/118, 119, 184, 199
CPC Y02T 10/7005; Y02T 10/705; Y02T
10/7088; H02J 7/025; H02J 7/0042; H02J
7/0044; H02J 7/0045; H02J 7/0003; H01F
38/14; 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; Y02E 60/12; Y02E 60/122;
Y02E 60/124; Y02E 60/50

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D669,427 S * 10/2012 Ignor D13/103
D684,531 S * 6/2013 Moon D13/103

D686,147 S * 7/2013 Morisawa D13/103
D686,148 S * 7/2013 Inaba D13/103
D686,152 S * 7/2013 Lee D13/103

(Continued)

OTHER PUBLICATIONS

Amazon.com: Cameron Sino 880mAh Replacement Battery . . .
Date first available of Jan. 11, 2019. Retrieved from the internet at
<<https://www.amazon.com/dp/B07M7V75VT/>>, Feb. 23, 2021. 1
page. (Year: 2019).*

(Continued)

Primary Examiner — Christy Nemeth
(74) *Attorney, Agent, or Firm* — McCarter & English,
LLP

(57) **CLAIM**

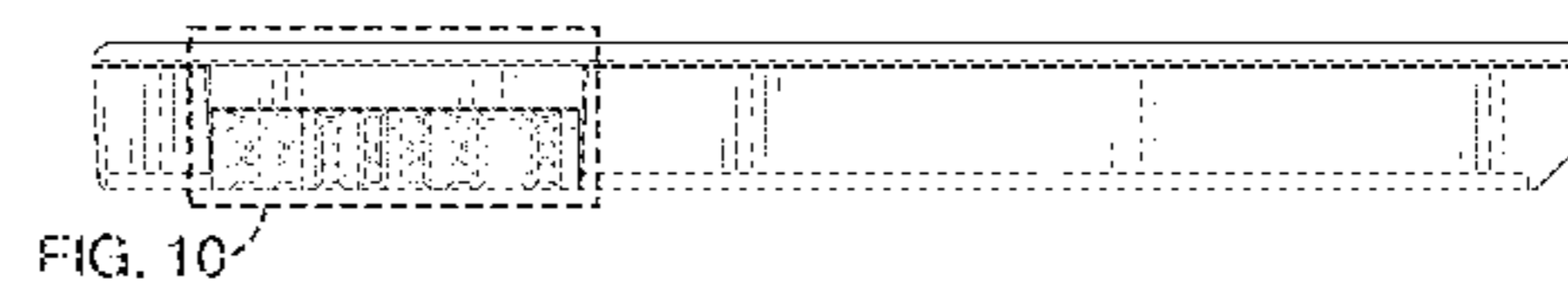
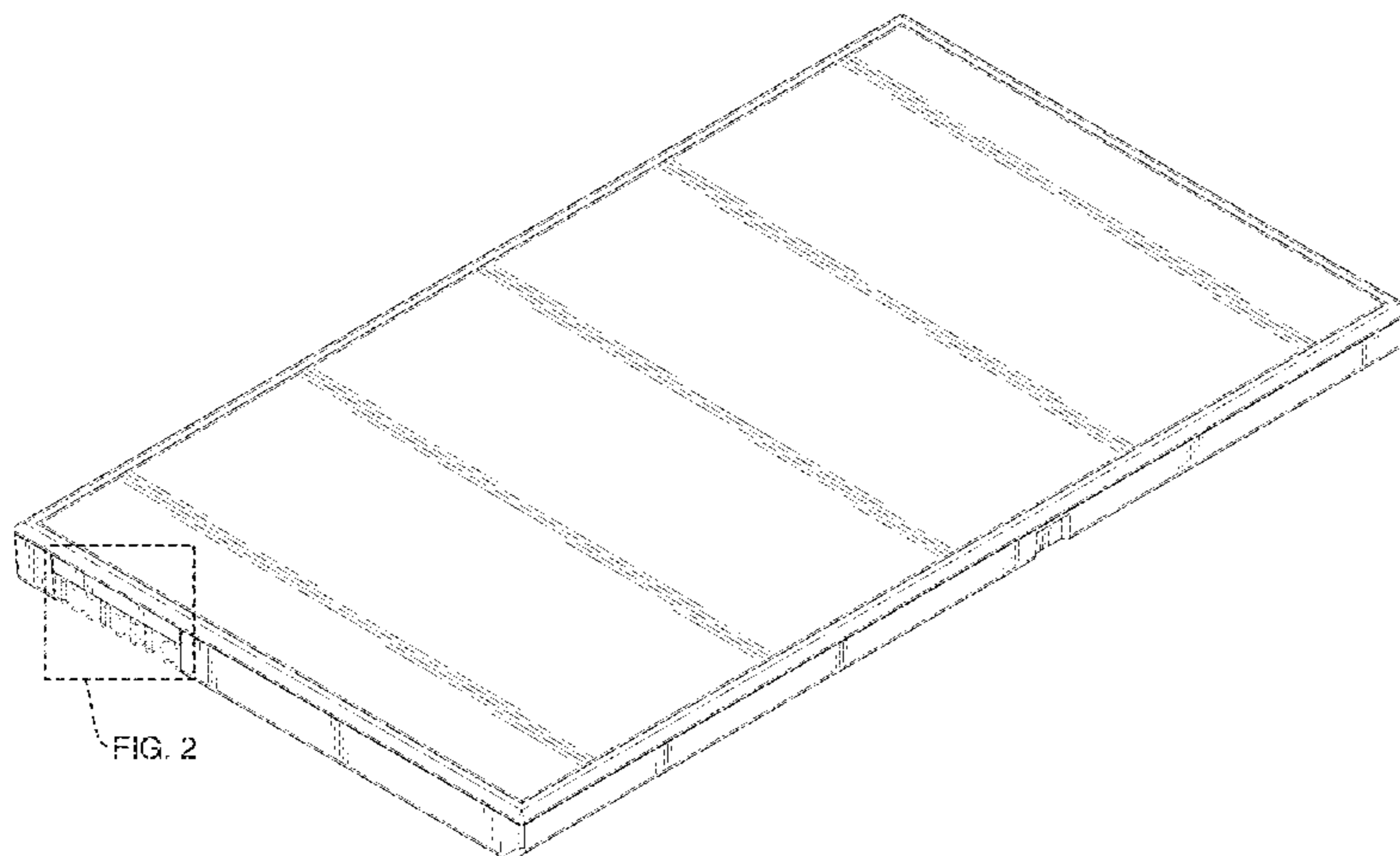
The ornamental design for a flat battery pack, as shown and
described.

DESCRIPTION

FIG. 1 is a top, front, right side perspective view of a flat
battery pack of our new design;
FIG. 2 is an enlarged view of the identified portion of FIG.
1;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is an enlarged view of the identified portion of FIG.
4;
FIG. 6 is a left side elevation view thereof;
FIG. 7 is a right side elevation view thereof;
FIG. 8 is a rear elevation view thereof;
FIG. 9 is a front elevation view thereof; and,
FIG. 10 is an enlarged view of the identified portion of FIG.
9.

The broken line rectangles in FIGS. 1, 2, 4, 5, 9, and 10 are
for the purpose of illustrating the bounds of the portions
shown enlarged in the views. The remaining broken lines are
for the purpose of illustrating portions of the article that form
no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D689,018 S * 9/2013 Honda D13/103
 D693,292 S * 11/2013 Salvi D13/103
 D711,311 S * 8/2014 Corbin D13/103
 D719,085 S * 12/2014 Aoyagi D13/103
 D719,087 S * 12/2014 Bataillou D13/103
 D739,349 S * 9/2015 Takahashi D13/118
 D763,791 S * 8/2016 Park D13/108
 D793,958 S * 8/2017 Rautiainen D13/108
 D806,015 S * 12/2017 Park D13/103
 D810,011 S * 2/2018 Nelson H01M 10/425
 D13/103
 D818,434 S * 5/2018 Doiron D13/108
 D821,308 S * 6/2018 Chia D13/108
 D830,964 S * 10/2018 Aoyagi D13/103
 D835,036 S * 12/2018 Dunham D13/108
 D843,934 S * 3/2019 Tan D13/103
 D859,304 S * 9/2019 Wang D13/102
 D865,668 S * 11/2019 Roberts D13/108

D877,068 S * 3/2020 Wang D13/108
 D883,204 S * 5/2020 Narayana Bhat D13/108
 D906,234 S * 12/2020 Bigdeli D13/103
 D906,235 S * 12/2020 Liu D13/103
 D910,545 S * 2/2021 Dinh D13/103

OTHER PUBLICATIONS

Amazon.com: OEM Motorola BT60 Battery . . . Date first available of Mar. 4, 2010. Retrieved from the internet at <<https://www.amazon.com/dp/B003AYQIPO/>>, Feb. 23, 2021. 1 page. (Year: 2010).*

Amazon.com: Replacement Oem Bh5x 1540mah Battery . . . Date first available of Sep. 3, 2014. Retrieved from the internet at <<https://www.amazon.com/Replacement-1540mah-Battery-Motorola-Droid/dp/B00N9YL3LE/>>, Feb. 23, 2021. 1 page. (Year: 2014).*

RCC Power Solutions, Rechargeable Battery, Model RRC2024, 14.4 V, Lithium Ion, 6.6 Ah, available at <<https://uk.farnell.com/rrc-power-solutions/rrc2024/battery-smart-smbus-14-40v-6600/dp/2115129/>>.

* cited by examiner

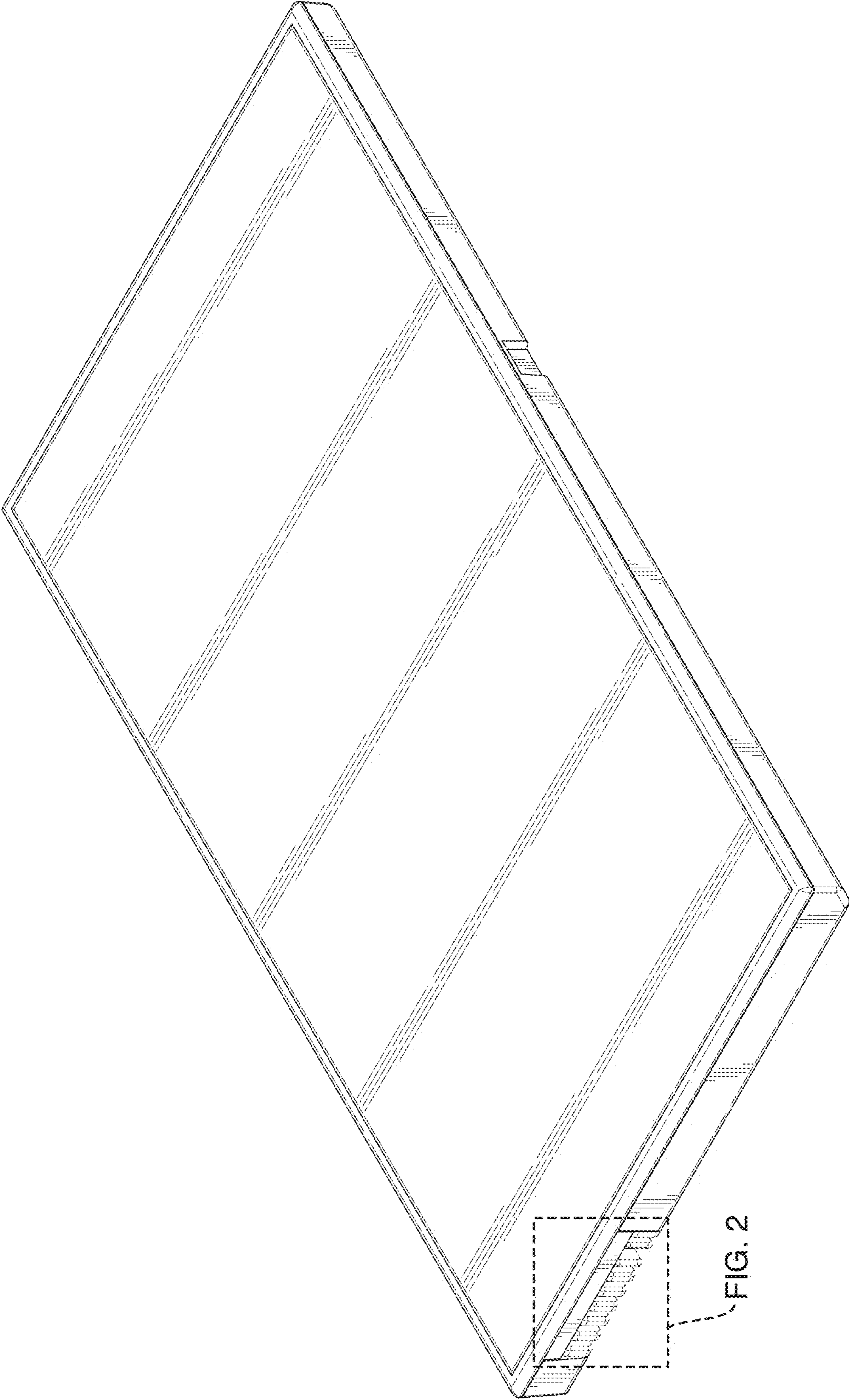


FIG. 1

FIG. 2

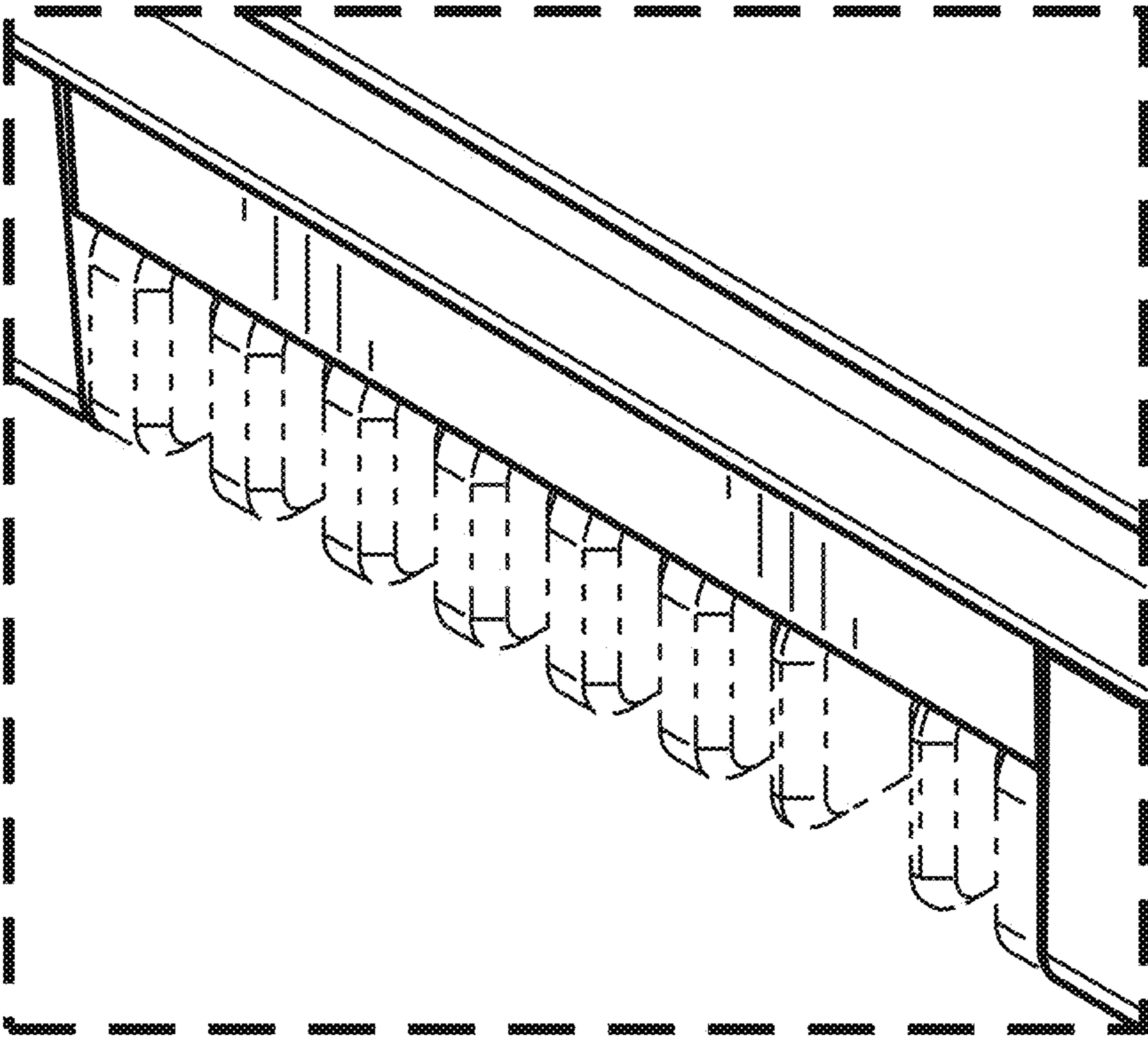


FIG. 2

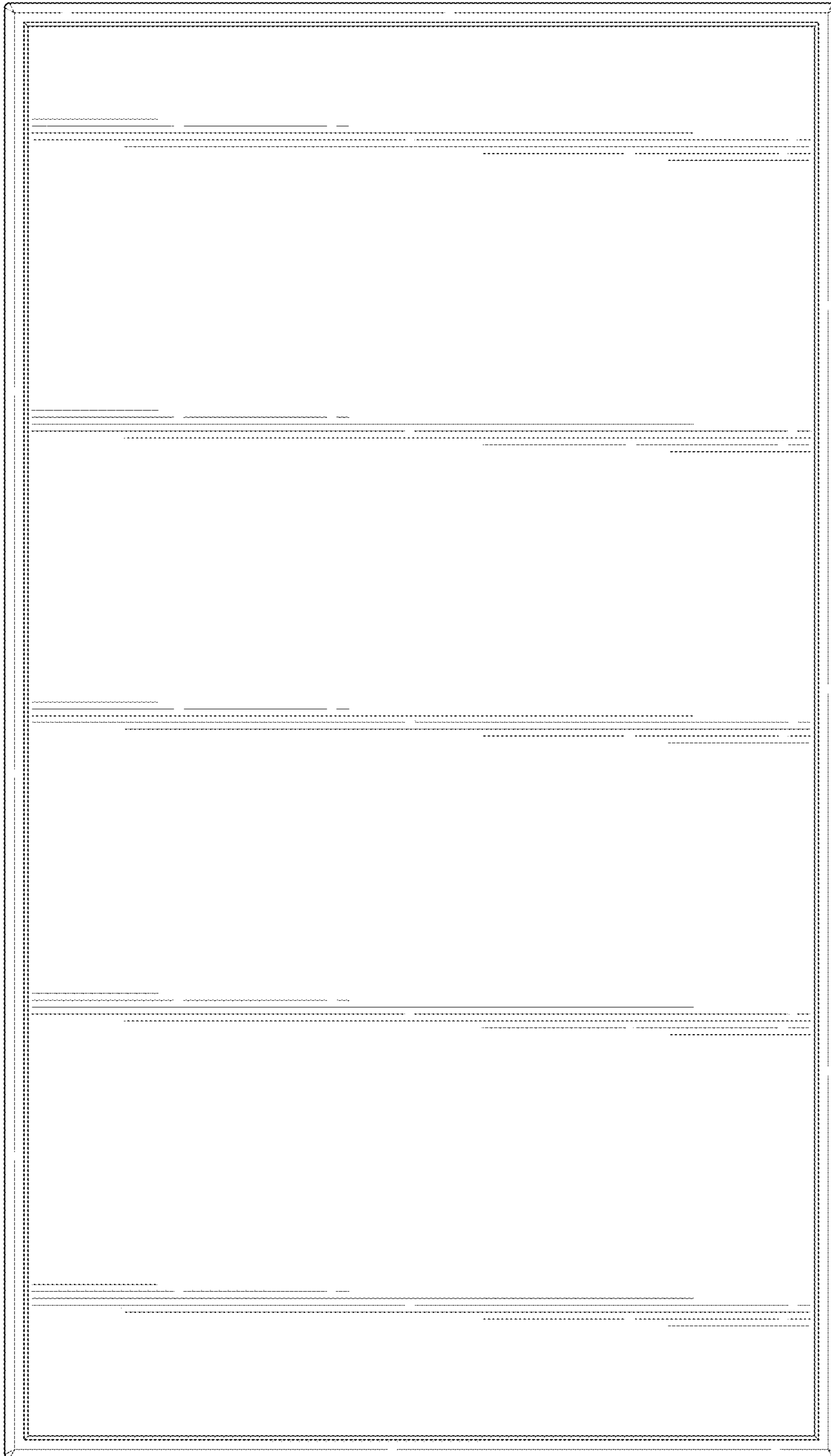


FIG. 3

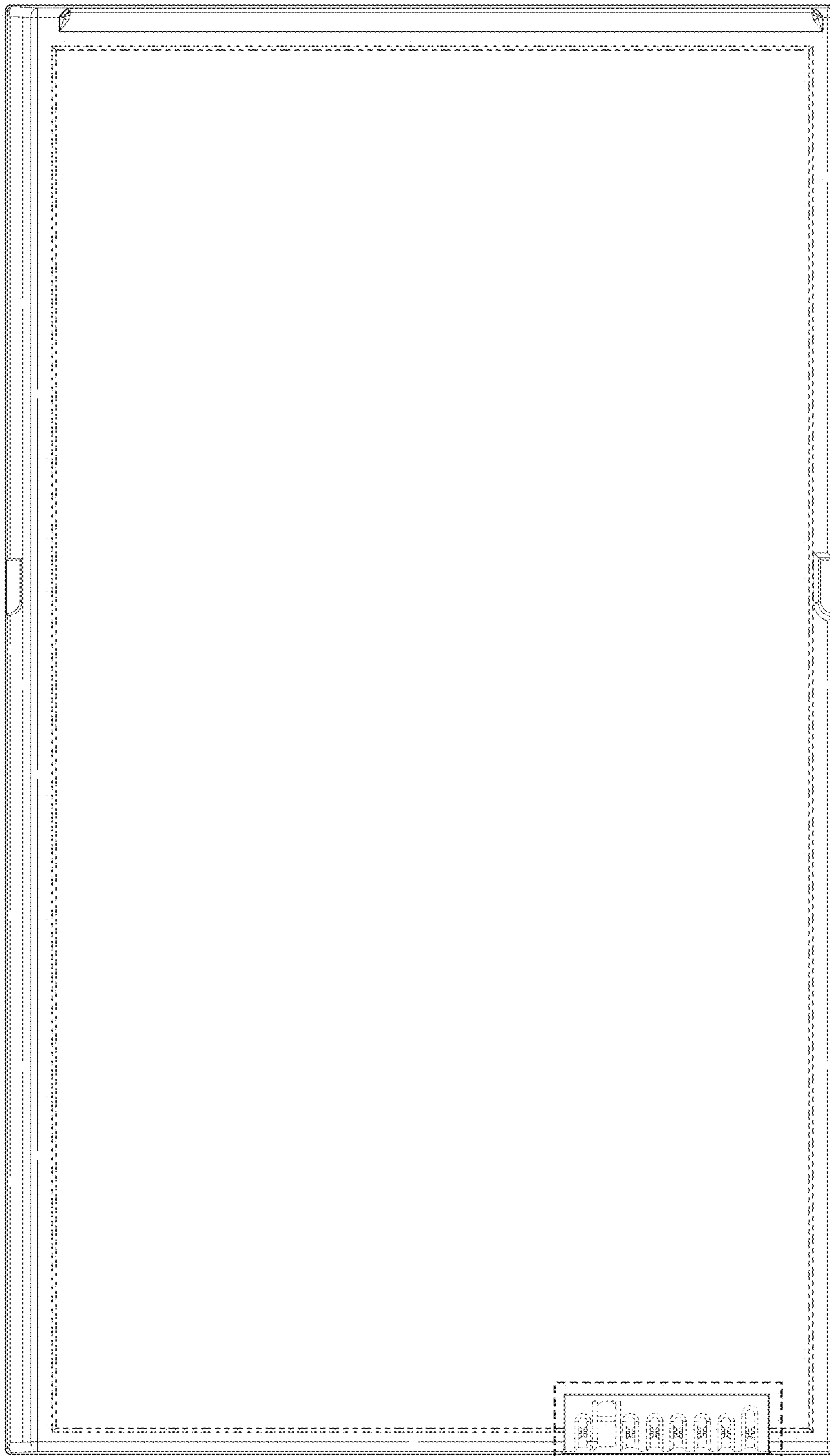


FIG. 4

FIG. 5

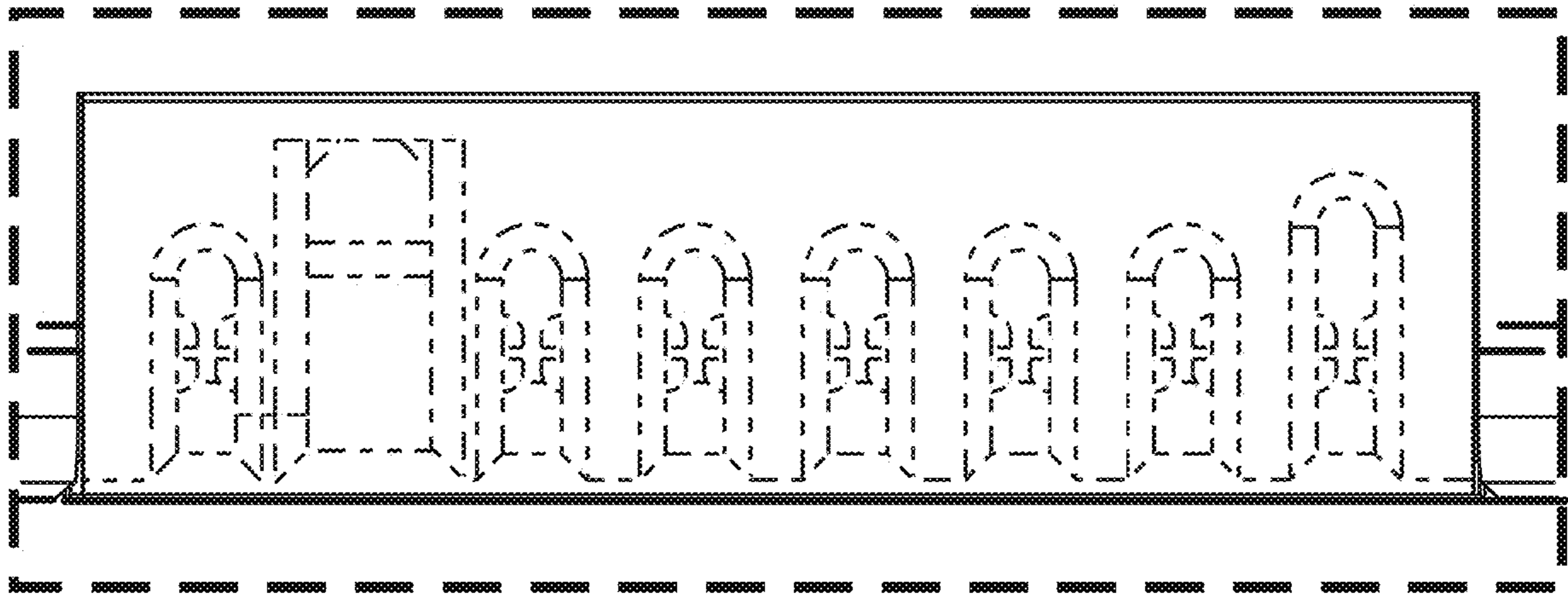


FIG. 5

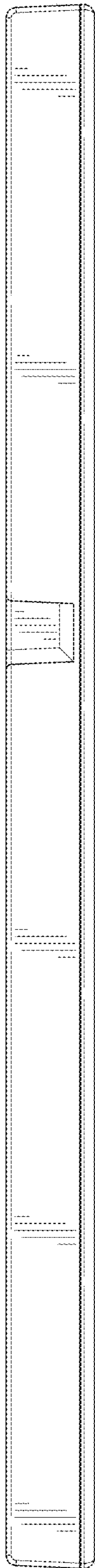


FIG. 6

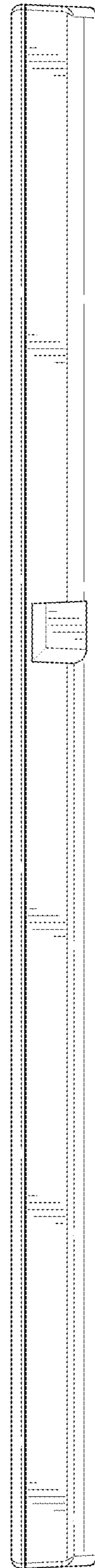


FIG. 7

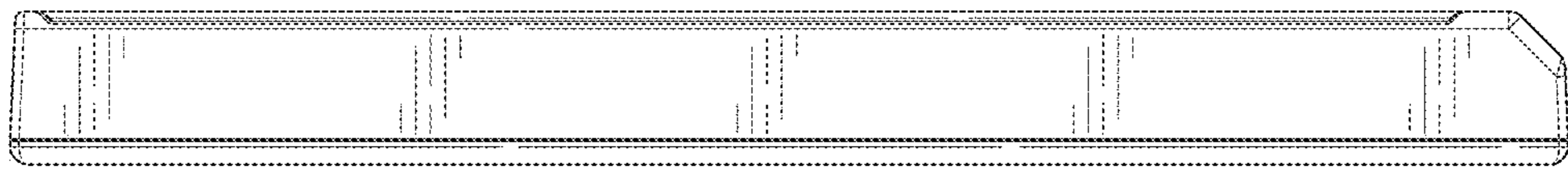


FIG. 8

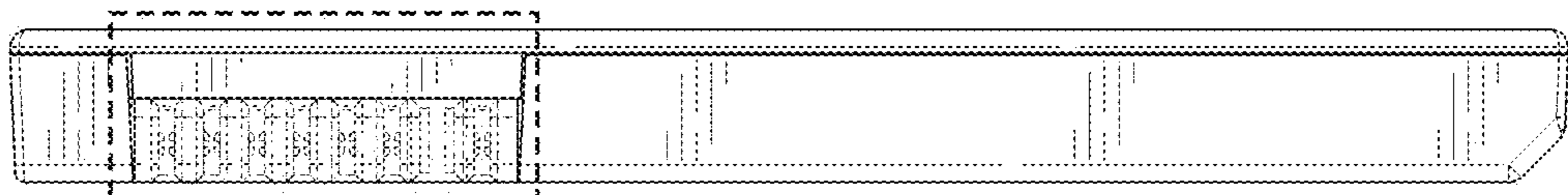


FIG. 10

FIG. 9

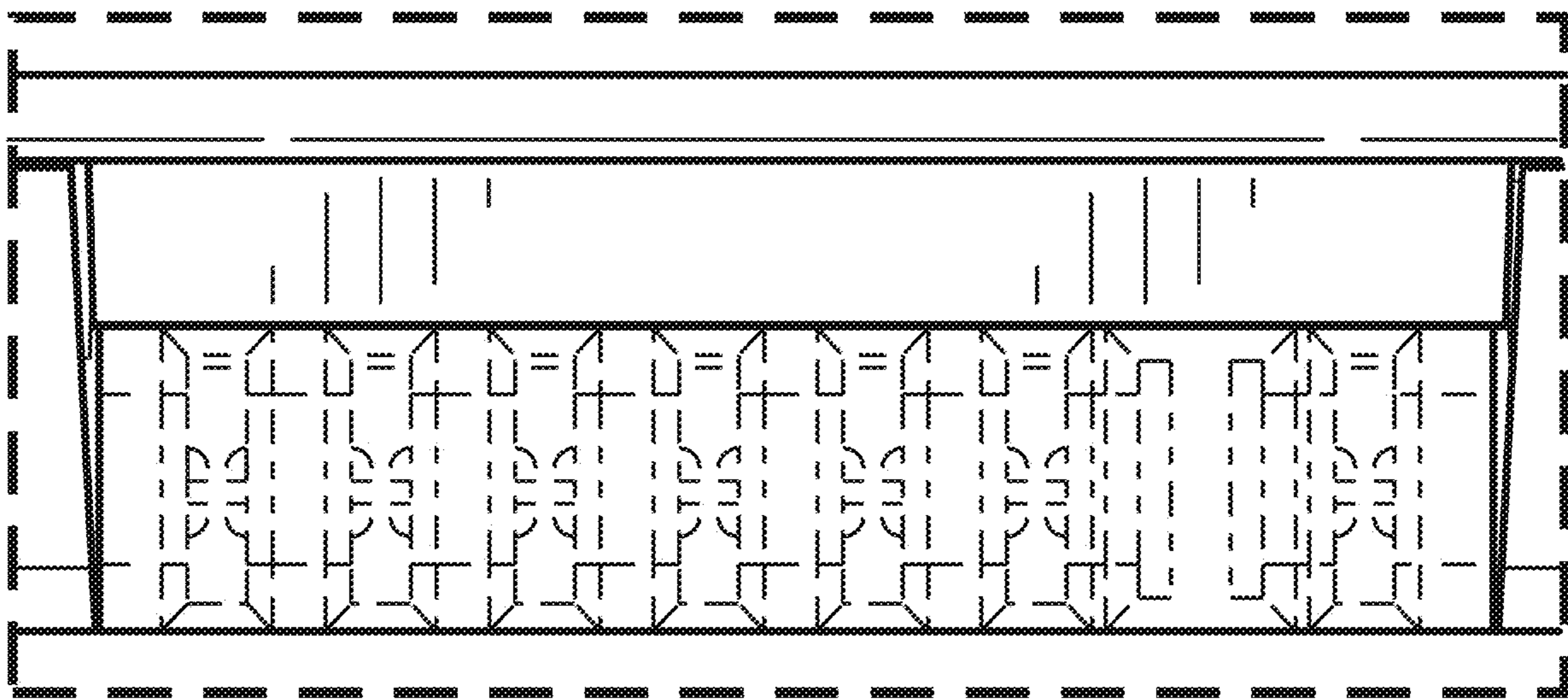


FIG. 10