



US00D954968S

(12) **United States Design Patent**  
**Gray et al.**

(10) **Patent No.:** **US D954,968 S**  
(45) **Date of Patent:** **\*\* Jun. 14, 2022**

- (54) **CENTRAL CONTROLLER**
- (71) Applicants: **DEKA Products Limited Partnership**,  
Manchester, NH (US); **Carefusion 303, Inc.**, San Diego, CA (US)
- (72) Inventors: **Larry B. Gray**, Merrimack, NH (US);  
**Thomas A. Friedrich**, Loudon, NH (US); **Gregory T. Hulan**, Poway, CA (US); **Philip T. Pupa**, San Diego, CA (US); **Christopher J. Murray**, Philadelphia, PA (US); **Edward G. Mitchell**, Philadelphia, PA (US)

- 4,025,241 A 5/1977 Clemens
- D246,258 S 11/1977 Ekert
- 4,187,057 A 2/1980 Xanthopoulos
- 4,189,286 A 2/1980 Murry et al.
- 4,191,184 A 3/1980 Carlisle
- 4,201,525 A 5/1980 Brown et al.
- 4,231,725 A 11/1980 Hogan

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP D1578811 S 11/2018

**OTHER PUBLICATIONS**

User Manual Alaris System With Guardrails Suite MX (with Alaris PC Unit, Model 8015 Software Version 9.33). (2017). San Diego, California: Carefusion.

(Continued)

*Primary Examiner* — Rhea Shields

(74) *Attorney, Agent, or Firm* — Toohey Law Group LLC

- (73) Assignees: **DEKA Products Limited Partnership**,  
Manchester, NH (US); **Carefusion 303, INC.**, San Diego, CA (US)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/777,424**
- (22) Filed: **Apr. 6, 2021**

**Related U.S. Application Data**

- (62) Division of application No. 29/651,458, filed on Aug. 16, 2018, now Pat. No. Des. 918,396.
- (51) **LOC (13) Cl.** ..... **24-02**
- (52) **U.S. Cl.**  
USPC ..... **D24/185**
- (58) **Field of Classification Search**  
USPC ..... D24/185, 158, 163, 232, 164, 216;  
D34/21; D6/671  
CPC ..... A61G 13/0009; A61M 39/285  
See application file for complete search history.

(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a front, top, and left-side perspective view of the central controller, showing our new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a right-side elevational view thereof;  
FIG. 4 is a left-side elevational view thereof;  
FIG. 5 is a back elevational view thereof;  
FIG. 6 is a top plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.

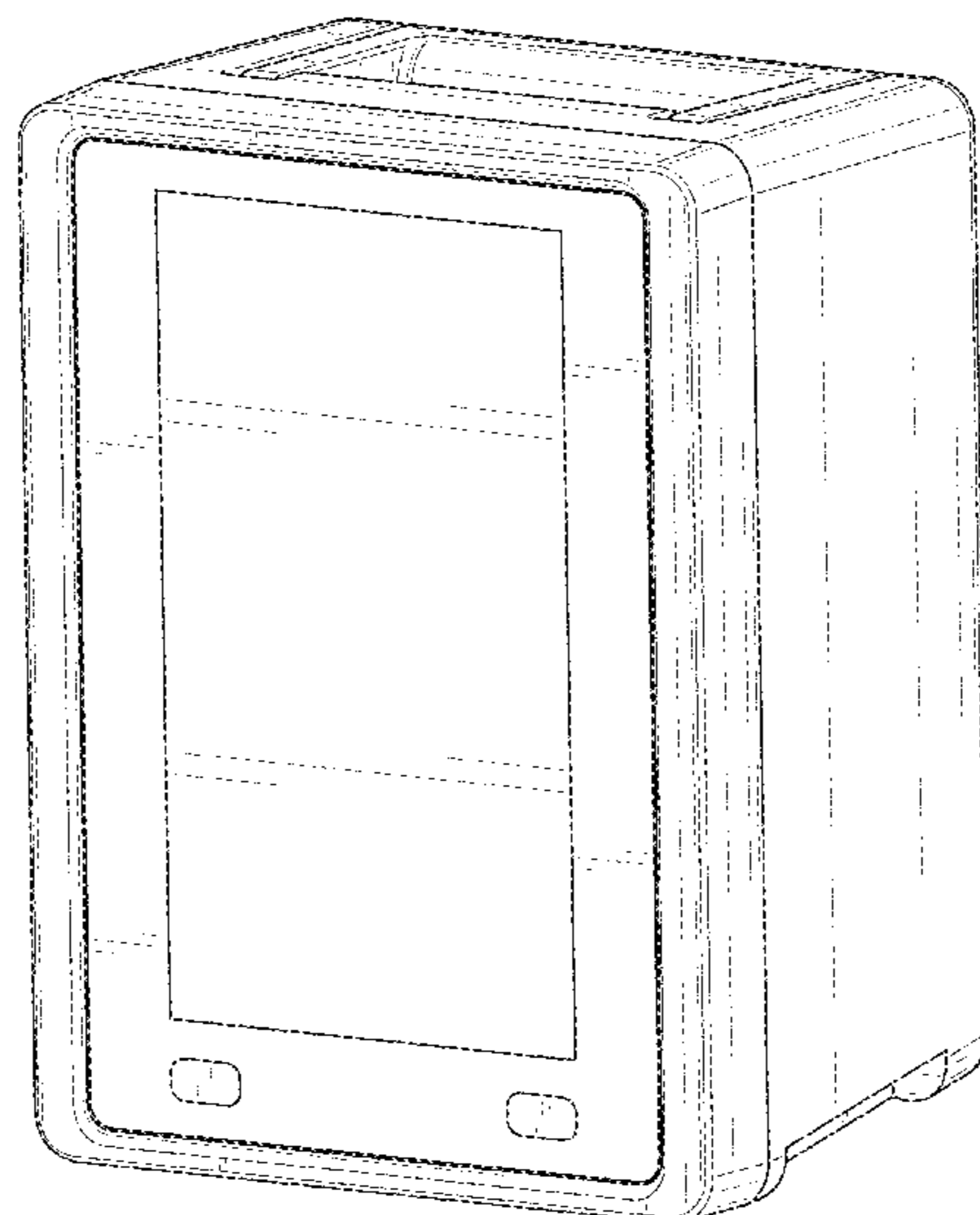
The ornamental design which is claimed is shown in solid lines in the drawings. In the drawings, the broken lines are for the purpose of illustrating portions of the central controller which form no part of the claimed design.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 3,267,364 A 8/1966 Page et al.
- 3,393,673 A 7/1968 Mattingly
- D241,883 S 10/1976 King

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

4,479,797 A 10/1984 Kobayashi et al.  
 4,496,295 A 1/1985 King  
 4,515,535 A 5/1985 D'Silva  
 4,537,561 A 8/1985 Xanthopoulos  
 4,552,516 A 11/1985 Stanley  
 4,599,055 A 7/1986 Dykstra  
 D285,347 S 8/1986 Nelson et al.  
 4,668,227 A 5/1987 Kay  
 4,720,249 A 1/1988 Krebs et al.  
 4,728,265 A 3/1988 Cannon  
 4,950,245 A 8/1990 Brown et al.  
 5,009,641 A 4/1991 Gorton  
 5,011,378 A 4/1991 Brown et al.  
 5,057,081 A 10/1991 Sunderland et al.  
 5,096,669 A 3/1992 Lauks et al.  
 D348,730 S 7/1994 Walker et al.  
 5,567,136 A 10/1996 Johnson  
 D380,546 S 7/1997 Clegg et al.  
 D587,365 S 2/2009 Boaz  
 D587,802 S 3/2009 Boaz  
 7,694,684 B2\* 4/2010 Bochner ..... A61G 13/0009  
 128/845  
 D674,083 S 1/2013 Boaz  
 D679,379 S 4/2013 Katsura  
 D693,712 S 11/2013 Noda et al.  
 D714,459 S 9/2014 Develon  
 D730,514 S 5/2015 Boaz et al.  
 D739,023 S\* 9/2015 Mochizuki ..... D24/163  
 9,151,646 B2 10/2015 Kamen et al.  
 9,364,394 B2 6/2016 Demers et al.  
 9,400,873 B2 7/2016 Kamen et al.  
 D767,756 S 9/2016 Sabin  
 9,435,455 B2 9/2016 Peret et al.  
 9,636,455 B2 5/2017 Kamen et al.  
 9,675,756 B2 6/2017 Kamen et al.  
 9,677,555 B2 6/2017 Kamen et al.  
 D801,519 S 10/2017 Sabin et al.  
 9,789,247 B2 10/2017 Kamen et al.  
 RE46,598 E 11/2017 Gill  
 D804,017 S 11/2017 Sabin  
 9,808,572 B2 11/2017 Kamen et al.  
 D817,494 S\* 5/2018 Apetauer ..... D24/158  
 D819,821 S\* 6/2018 Yamanaka ..... D24/163  
 D824,701 S\* 8/2018 Zou ..... D6/671  
 D825,776 S\* 8/2018 Quick ..... D24/232  
 D825,777 S\* 8/2018 Quick ..... D24/232  
 10,044,791 B2 8/2018 Kamen et al.  
 10,082,241 B2 9/2018 Janway et al.  
 D838,613 S\* 1/2019 Barton ..... D24/216

D839,437 S\* 1/2019 Taub ..... D24/185  
 10,242,159 B2 3/2019 Kamen et al.  
 D845,503 S\* 4/2019 Jensen ..... D24/216  
 10,265,463 B2 4/2019 Biasi et al.  
 D847,974 S 5/2019 McNall, III et al.  
 D850,751 S\* 6/2019 Schumaker ..... D34/21  
 D854,691 S\* 7/2019 Kondo ..... D24/164  
 10,380,321 B2 8/2019 Kamen et al.  
 10,391,241 B2 8/2019 Desch et al.  
 D860,457 S\* 9/2019 Hoshino ..... D24/158  
 D864,415 S\* 10/2019 Norton ..... D24/232  
 10,453,157 B2 10/2019 Kamen et al.  
 D878,625 S\* 3/2020 Sakai ..... D24/232  
 D879,948 S 3/2020 Etienne Bunoz  
 D882,761 S 4/2020 Cabiri et al.  
 D884,156 S 5/2020 Haug et al.  
 D918,396 S\* 5/2021 Gray ..... D24/185  
 2005/0069419 A1 3/2005 Cull et al.  
 2005/0069437 A1 3/2005 Mittelstein et al.  
 2009/0087326 A1 4/2009 Voltenburg, Jr. et al.  
 2009/0205662 A1 8/2009 Kwok et al.  
 2009/0294339 A1 12/2009 Biewer et al.  
 2011/0152831 A1 6/2011 Rotem et al.  
 2011/0184383 A1 7/2011 Hasegawa  
 2012/0027622 A1 2/2012 Ashburn  
 2012/0203195 A1 8/2012 Pope et al.  
 2013/0115120 A1 5/2013 Jarnagin et al.  
 2013/0317837 A1 11/2013 Ballantyne et al.  
 2014/0180711 A1 6/2014 Kamen et al.  
 2015/0202362 A1 7/2015 Wolff et al.  
 2017/0216516 A1 8/2017 Dale et al.  
 2018/0318498 A1 11/2018 Grant et al.  
 2018/0318527 A1 11/2018 Watanabe et al.  
 2019/0261689 A1 8/2019 Bowen et al.  
 2020/0054823 A1\* 2/2020 Baier ..... A61M 39/285

OTHER PUBLICATIONS

Technical Service Manual Alaris PC Unit, Models 8000 and 8015 Alaris Pump Module, Model 8100. (2007). San Diego, California: Cardinal Health.  
 Technical Service Manual Alaris Syringe Module, 8110 Series Alaris PCA Module, 8120 Series. (2010). San Diego, California: Carefusion.  
 Graseby 2100 Syringe Infusion Pump, All India website 2020, <https://www.indiamart.com/proddetail/graseby-2100-syringe-infusion-pump-19908015512> . . . Visited Jun. 12, 2020.  
 Alaris CareFusion Medley 8110 Syringe Pump, Avobus website 2020, <https://avobus.com/kw/shop/product/alaris-carefusion-medley-8110-syringe-pump-module> . . . Visited Jun. 12, 2020.

\* cited by examiner

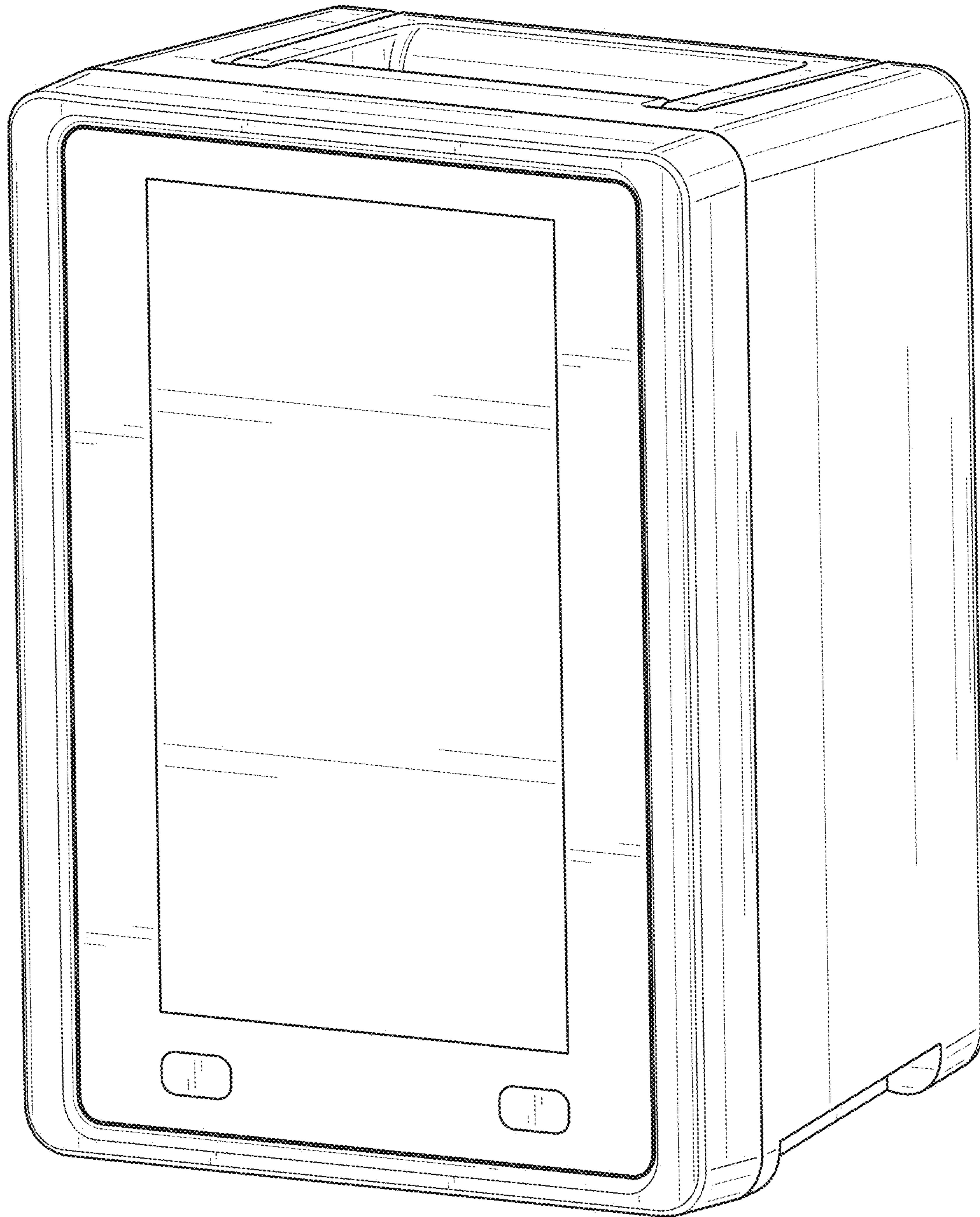


FIG. 1

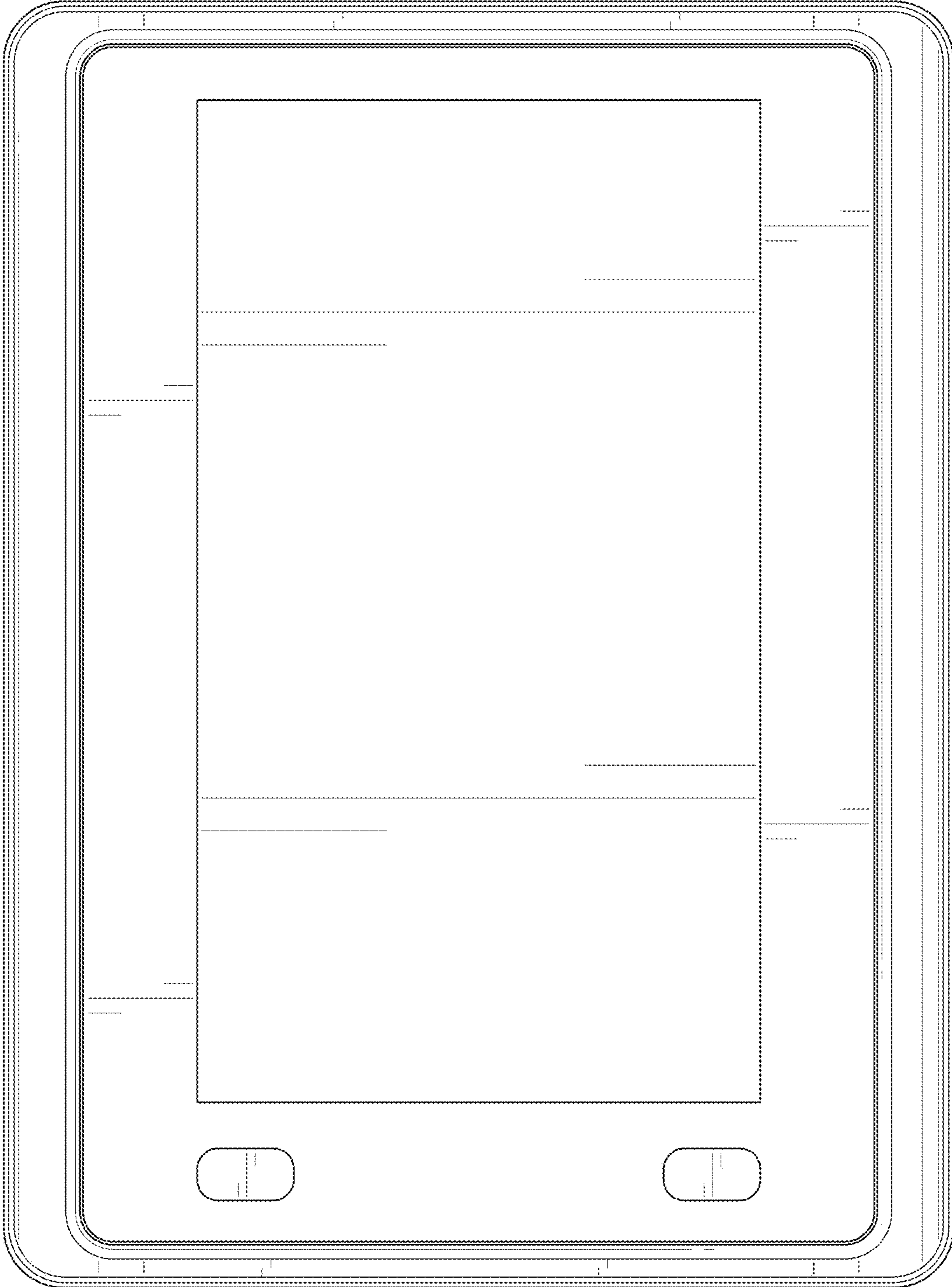


FIG. 2

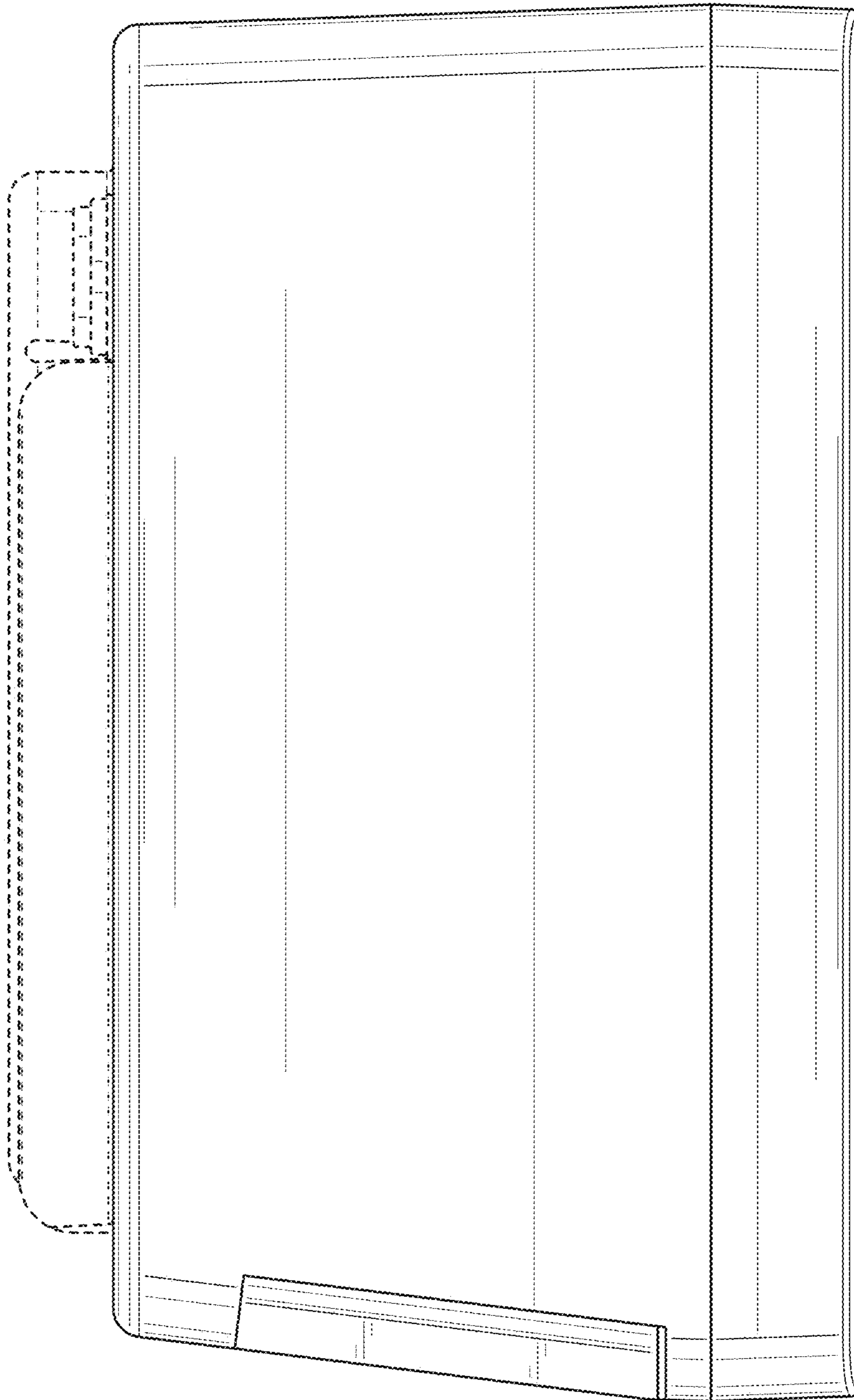


FIG. 3

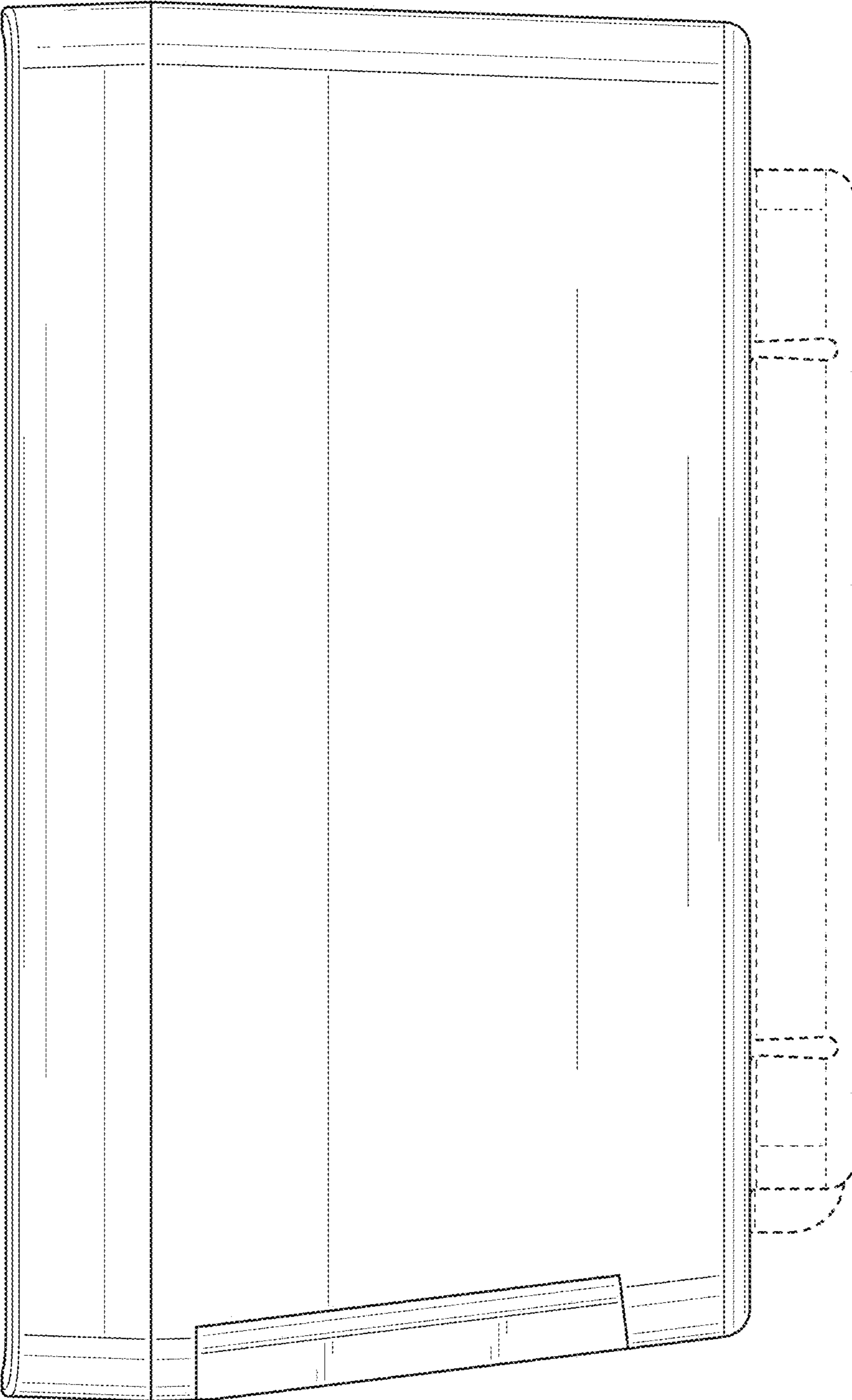


FIG. 4

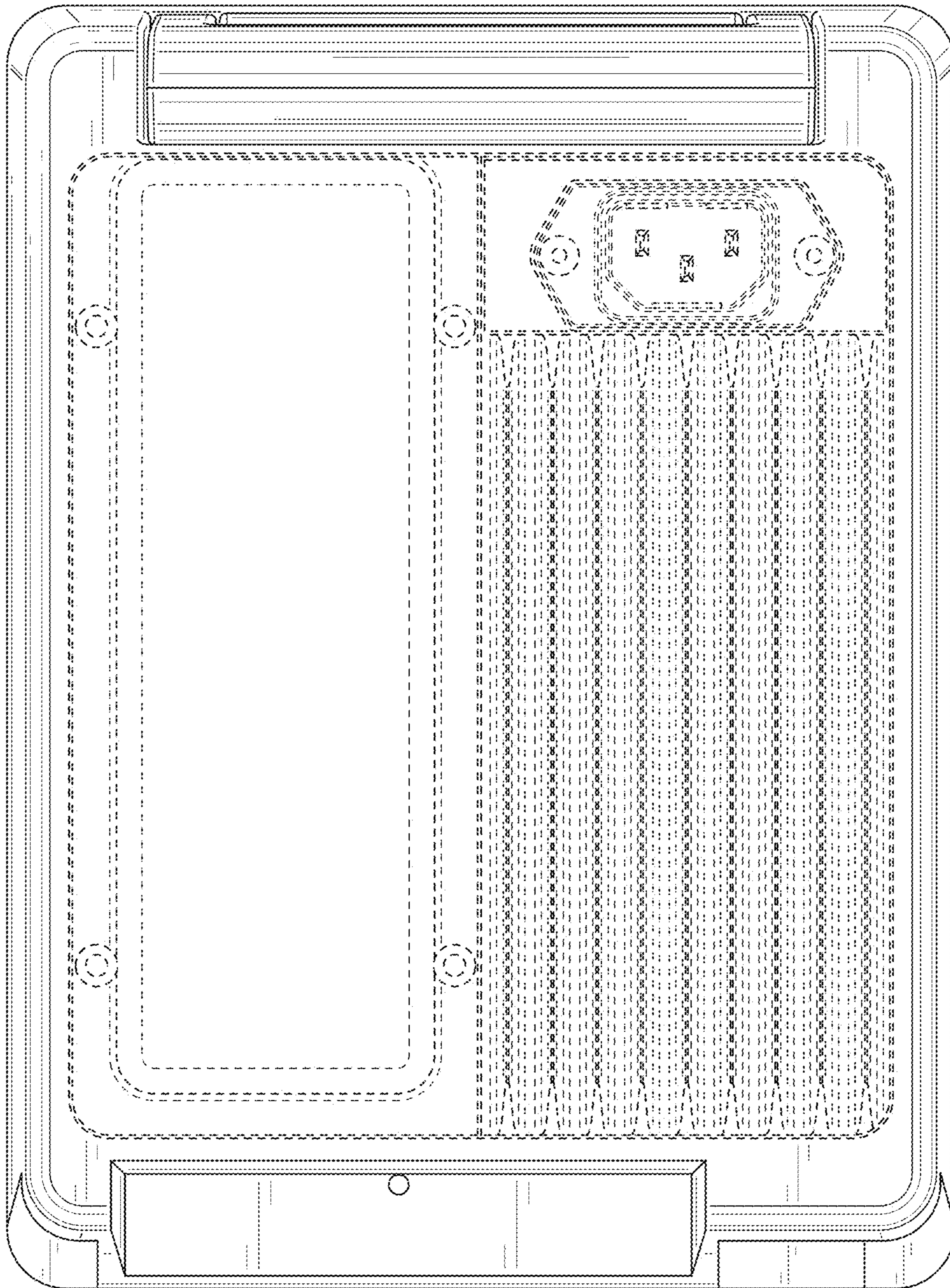


FIG. 5

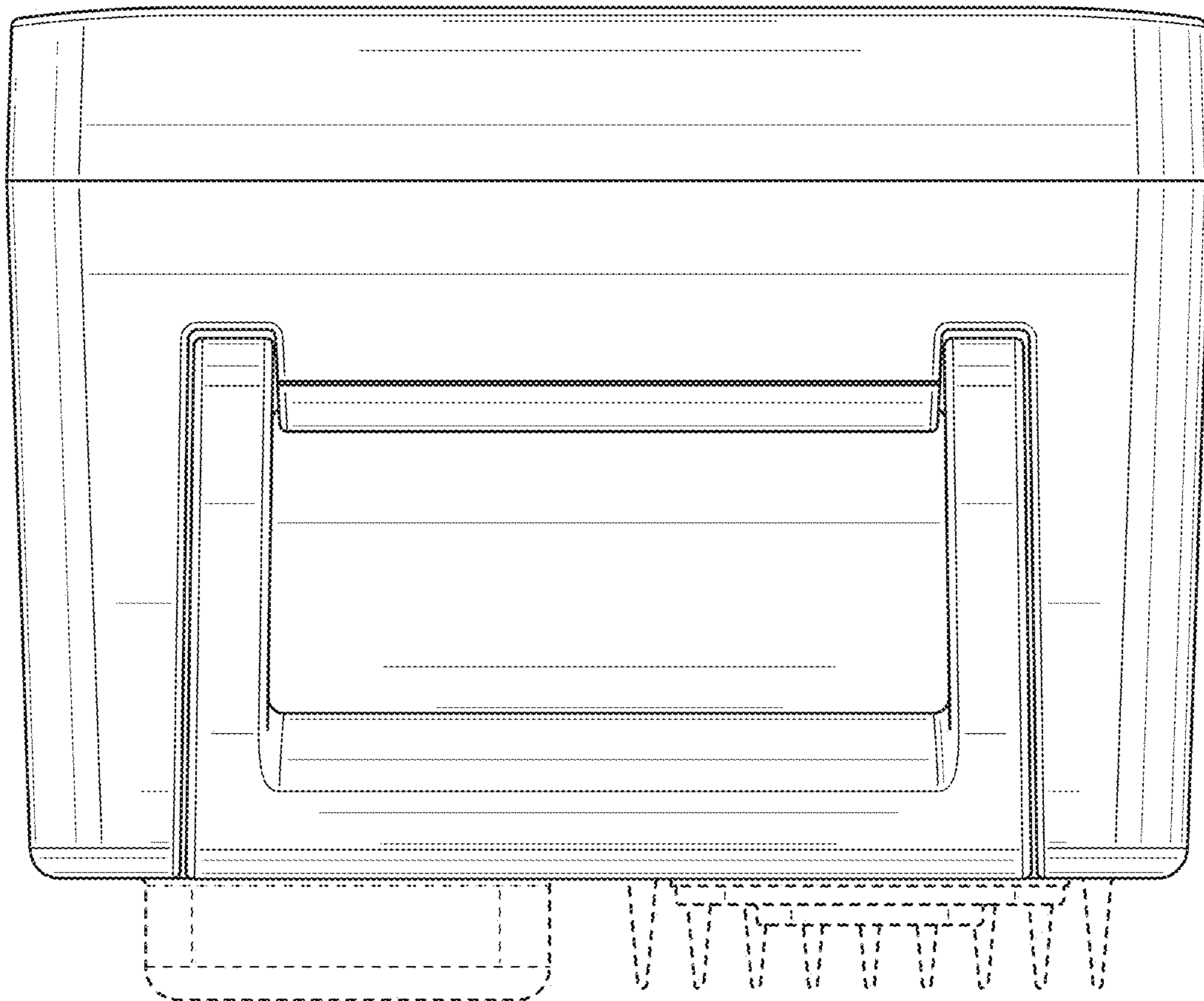


FIG. 6



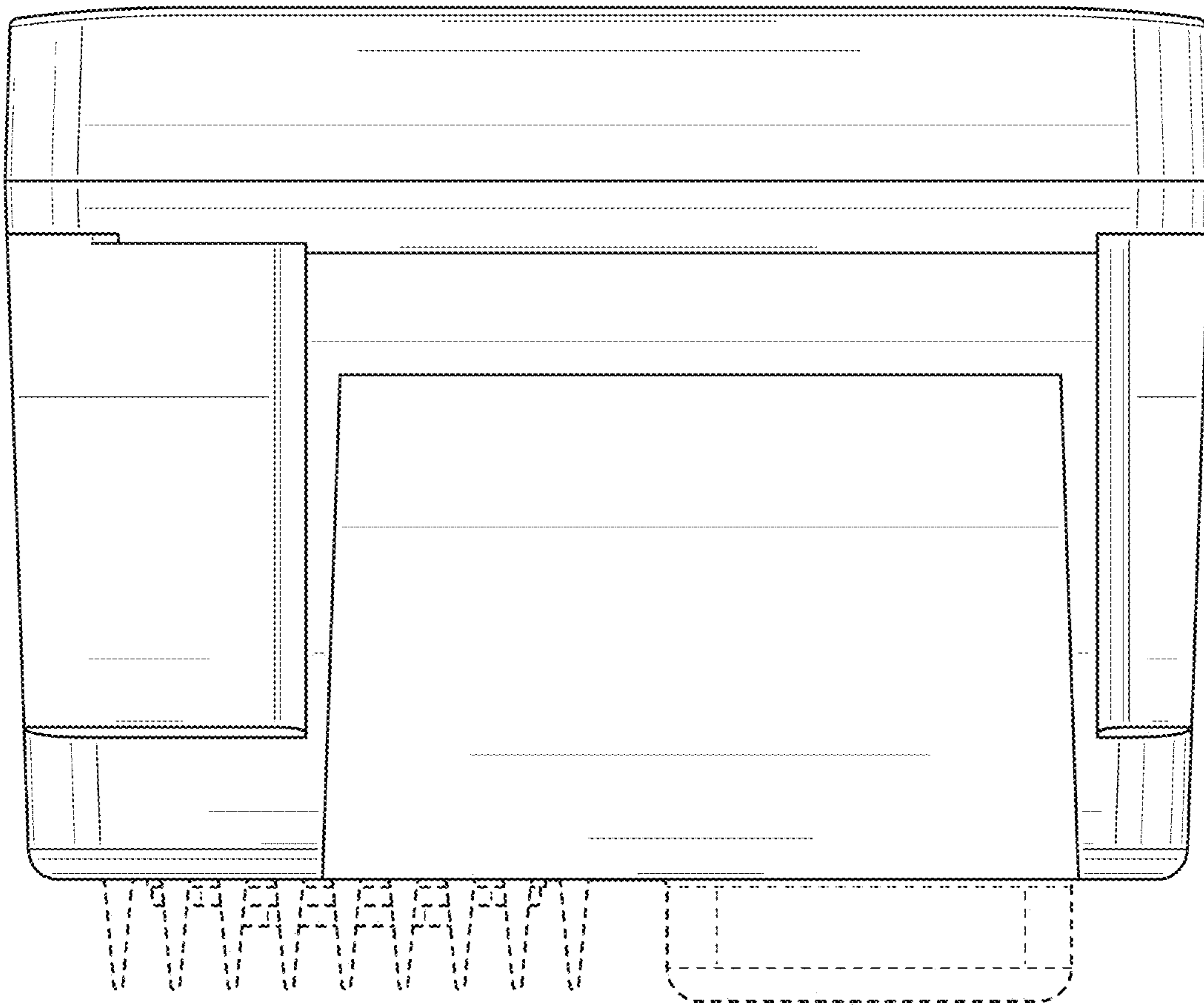


FIG. 7