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(12) **United States Design Patent** (10) **Patent No.:** **US D895,542 S**  
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(54) **BATTERY CHARGING DEVICE**  
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7,671,565 B2 3/2010 Straubel et al.  
D629,355 S \* 12/2010 Bodley ..... D13/108  
D641,694 S 7/2011 Akahori et al.  
D645,817 S 9/2011 Sasada et al.  
8,093,863 B2 1/2012 Carrier et al.  
D674,748 S 1/2013 Ferber et al.  
D682,196 S 5/2013 Leung  
8,541,985 B1 9/2013 Wong

(Continued)

**FOREIGN PATENT DOCUMENTS**

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CN 207134825 U 3/2018  
CN 207303176 U 5/2018

(Continued)

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

**OTHER PUBLICATIONS**

(21) Appl. No.: **29/675,691**

U.S. Appl. No. 29/675,674, filed Jan. 4, 2019, 8 pages.  
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(51) **LOC (12) Cl.** ..... **13-02**

(52) **U.S. Cl.**  
USPC ..... **D13/108**

(58) **Field of Classification Search**  
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D14/253, 432, 434  
CPC ..... Y02E 60/12; Y02T 90/14; Y02T 90/122;  
Y02T 90/128; Y02T 90/163; H02J 7/025;  
H02J 7/0042; H02J 7/0044; H02J 7/0045;  
H02J 7/0003; H01F 38/14; H01R  
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See application file for complete search history.

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(57) **CLAIM**

The ornamental design for a battery charging device, as  
shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a battery charging  
device, illustrating our new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a rear elevation view thereof;  
FIG. 4 is a left side elevation view thereof;  
FIG. 5 is a right side elevation view thereof;  
FIG. 6 is a top plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.

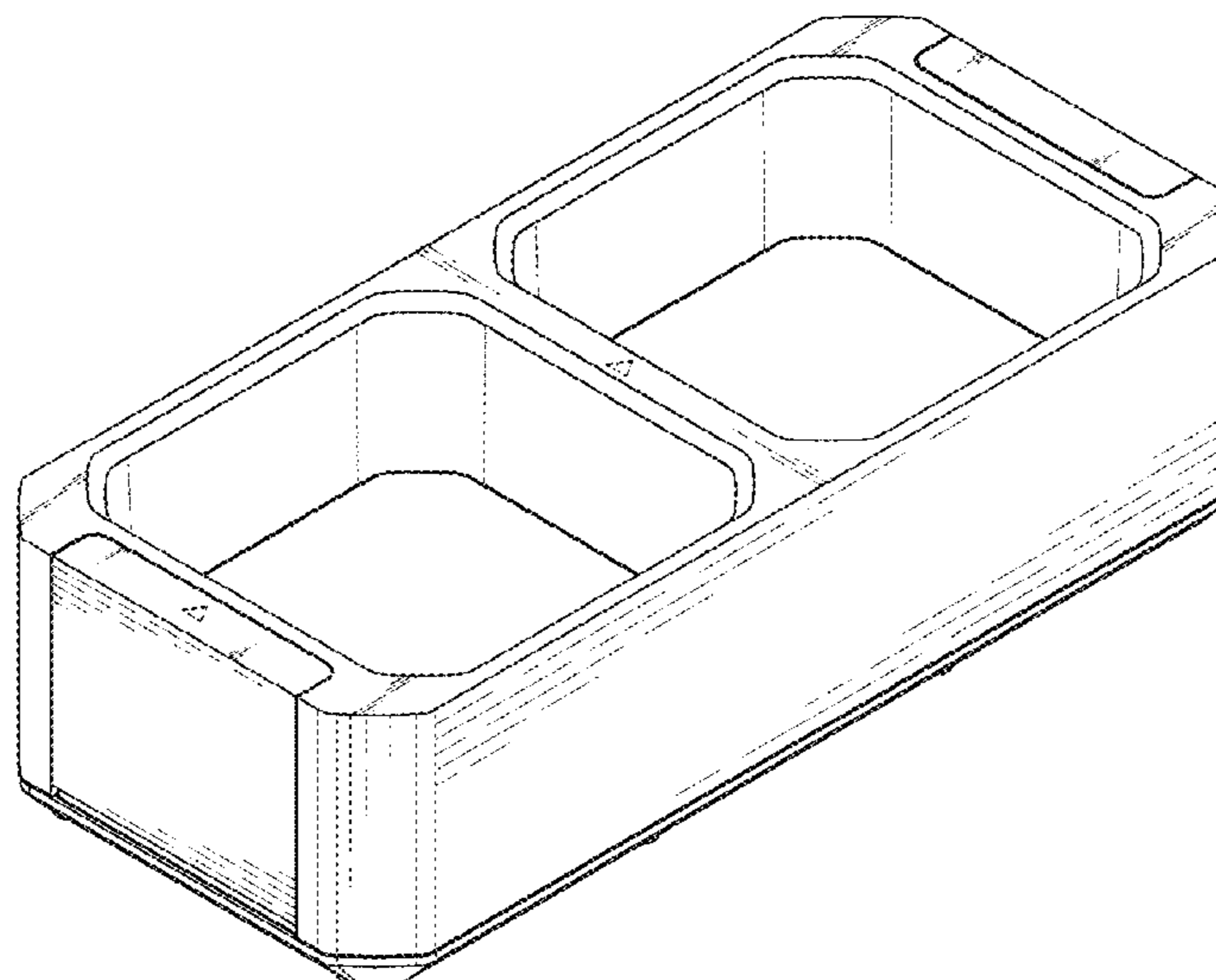
The broken lines in the drawings illustrate portions of the  
battery charging device that form no part of the claimed  
design.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D401,552 S \* 11/1998 Tanaka ..... D13/107  
D402,258 S \* 12/1998 Kawakami ..... D13/107  
D427,970 S \* 7/2000 Sage ..... D13/118  
D532,365 S \* 11/2006 Shen ..... D13/107  
7,253,585 B2 8/2007 Johnson et al.  
D588,536 S \* 3/2009 Wahl ..... D13/108

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D695,680 S 12/2013 Workman et al.  
 8,618,772 B2 12/2013 Thomas et al.  
 8,749,983 B2 6/2014 Vandiver et al.  
 D709,028 S 7/2014 Thompson et al.  
 D714,293 S 9/2014 Kelly et al.  
 D722,042 S \* 2/2015 Nakamura ..... D14/209.1  
 D749,042 S \* 2/2016 Gecawicz ..... D13/107  
 D753,059 S 4/2016 Krantz et al.  
 D755,155 S 5/2016 Paterson  
 D762,165 S 7/2016 Rowe et al.  
 D762,193 S 7/2016 Petersen  
 9,385,351 B2 7/2016 Workman et al.  
 9,553,481 B2 1/2017 Prommel et al.  
 D779,719 S 2/2017 Qiu  
 9,688,252 B2 6/2017 Gaffoglio et al.  
 D805,499 S 12/2017 Crolla  
 D806,019 S \* 12/2017 Wang ..... D13/107  
 9,857,048 B2 1/2018 Workman et al.  
 D813,162 S 3/2018 Krantz et al.  
 9,923,393 B2 3/2018 Workman et al.  
 D816,028 S \* 4/2018 Chen ..... D13/108  
 9,979,215 B2 5/2018 Workman et al.  
 D820,197 S 6/2018 Luke et al.  
 D820,782 S 6/2018 Wang et al.  
 D821,305 S 6/2018 Liu et al.  
 D821,310 S 6/2018 Krantz et al.  
 D823,792 S \* 7/2018 Komoni ..... D13/107  
 D835,574 S 12/2018 Trongone  
 D836,066 S 12/2018 Lim et al.  
 D841,574 S 2/2019 Ma et al.  
 D843,938 S 3/2019 Park et al.  
 D845,233 S 4/2019 Zeng  
 D846,492 S 4/2019 Verleur et al.  
 D846,494 S 4/2019 Takahashi  
 D846,497 S \* 4/2019 Clark ..... D13/108  
 D851,584 S 6/2019 Luke et al.

D855,018 S 7/2019 Gan  
 D855,251 S 7/2019 Qiu et al.  
 D861,240 S 9/2019 Qiu et al.  
 D861,603 S 10/2019 Zhong  
 D861,973 S 10/2019 Qiu et al.  
 D864,862 S 10/2019 Cheng  
 D864,965 S 10/2019 Sang  
 D865,676 S 11/2019 Liao  
 D866,460 S \* 11/2019 Komoni ..... D13/108  
 D868,685 S 12/2019 Niedzwecki  
 D870,037 S 12/2019 Lee  
 D871,321 S 12/2019 Chung  
 D872,692 S 1/2020 Li  
 2010/0279166 A1 11/2010 Tseng  
 2012/0248868 A1 10/2012 Mobin et al.  
 2013/0043826 A1 2/2013 Workman et al.  
 2014/0356667 A1 12/2014 Kim  
 2014/0357094 A1 12/2014 Kim  
 2017/0047755 A1 2/2017 Workman et al.  
 2017/0098805 A1 4/2017 Liu et al.  
 2017/0194800 A1 7/2017 Meoli  
 2018/0020738 A1 1/2018 Qiu  
 2018/0034015 A1 2/2018 Krantz et al.  
 2018/0034266 A1 2/2018 Vasefi et al.  
 2018/0034267 A1 2/2018 Vasefi et al.  
 2018/0238954 A1 8/2018 Robison et al.  
 2018/0241236 A1 8/2018 Vasefi et al.

FOREIGN PATENT DOCUMENTS

CN 207304039 U 5/2018  
 CN 207304053 U 5/2018  
 CN 207304056 U 5/2018  
 CN 207339312 U 5/2018  
 CN 207339318 U 5/2018  
 CN 207339320 U 5/2018  
 CN 108258773 A 7/2018

\* cited by examiner

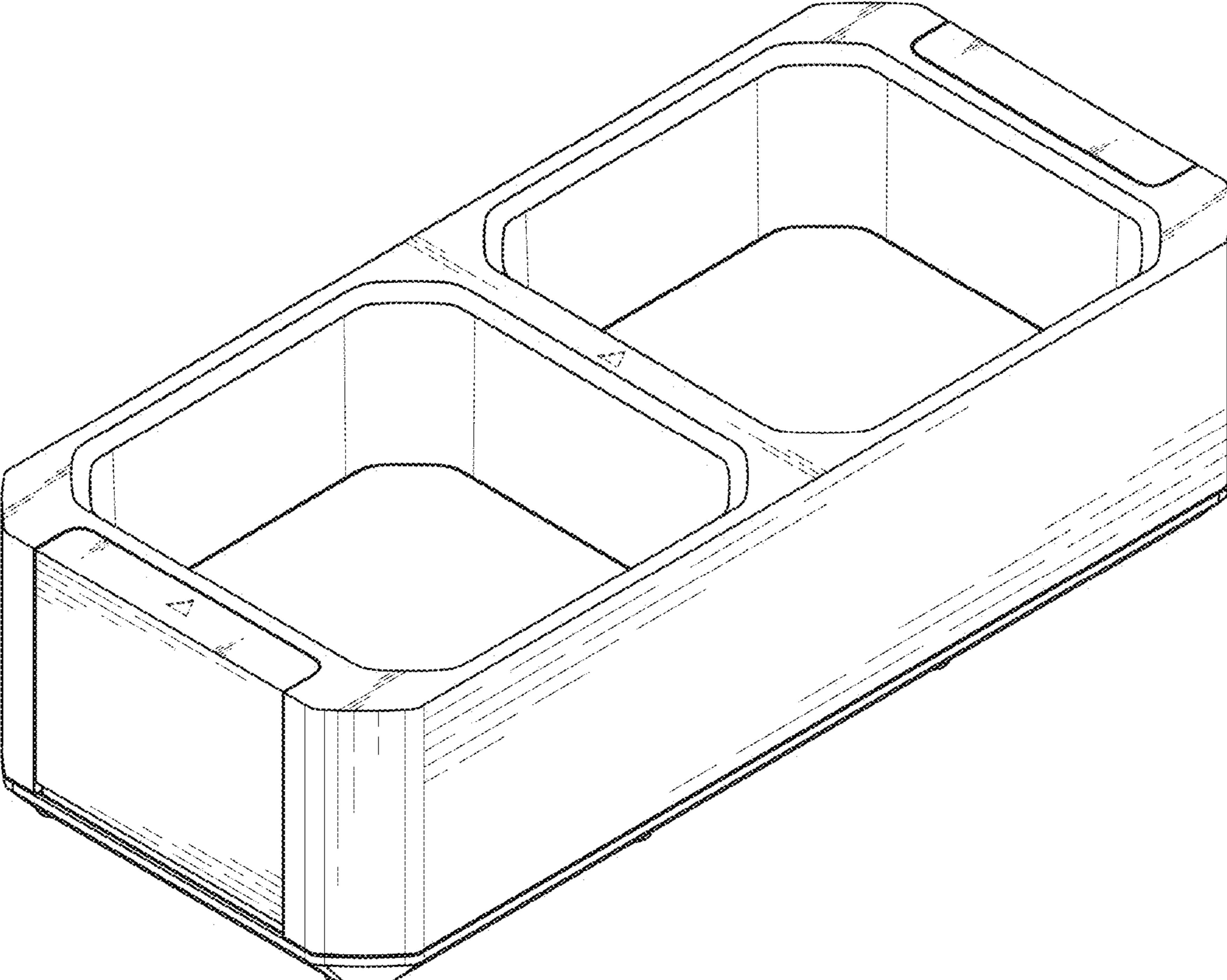


FIG. 1

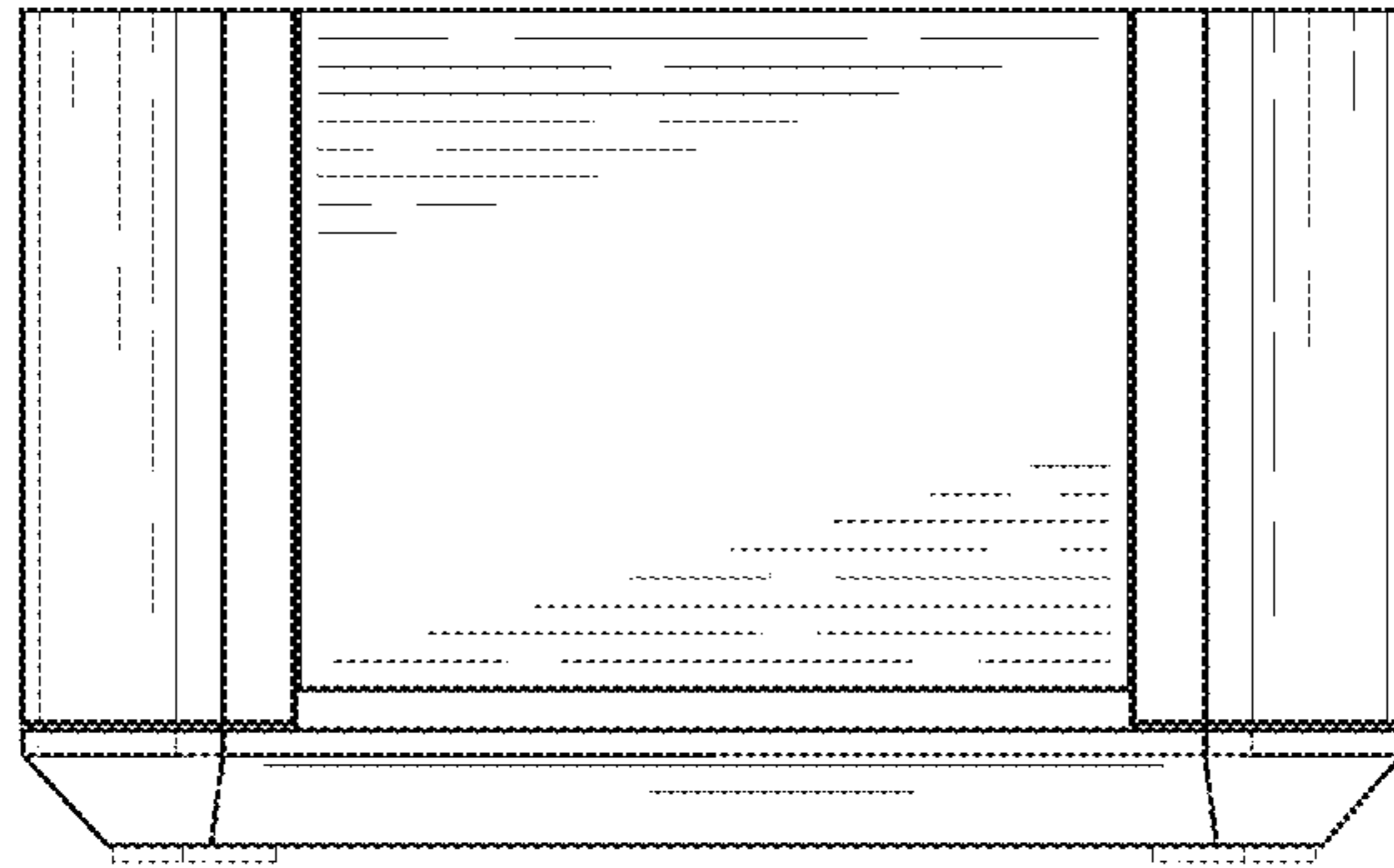


FIG. 2

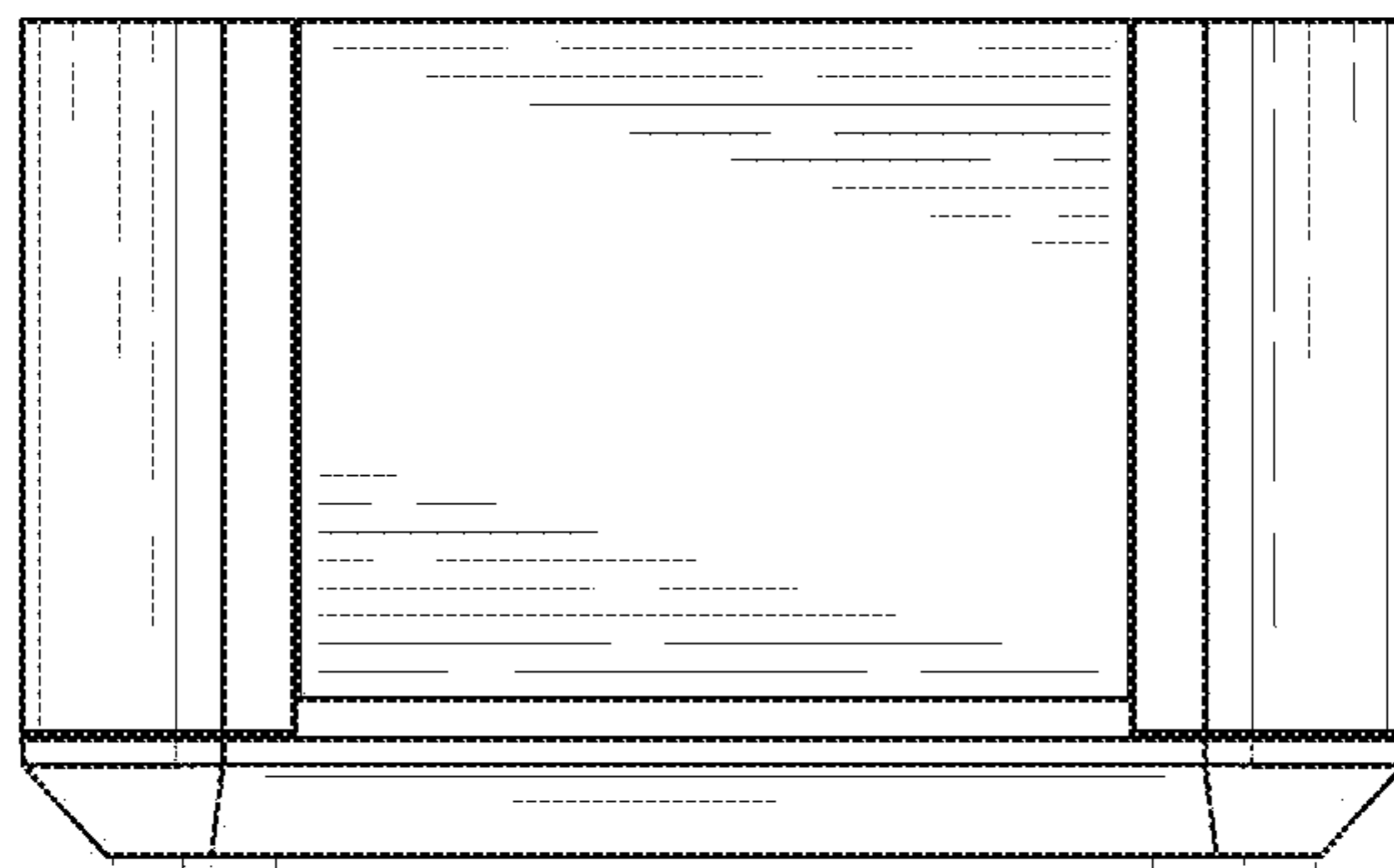


FIG. 3



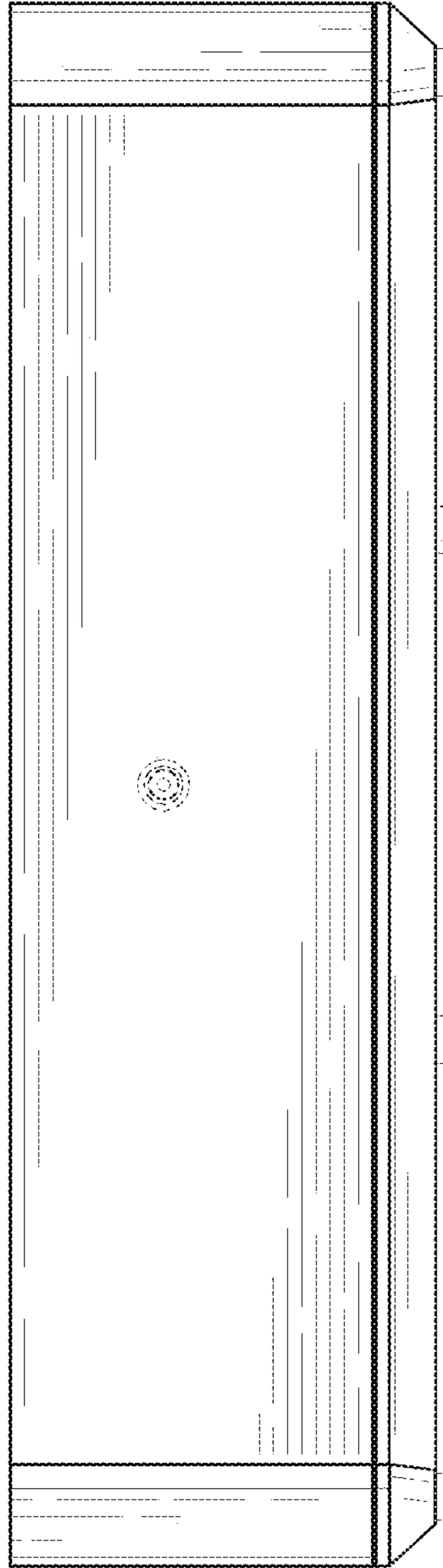


FIG. 4

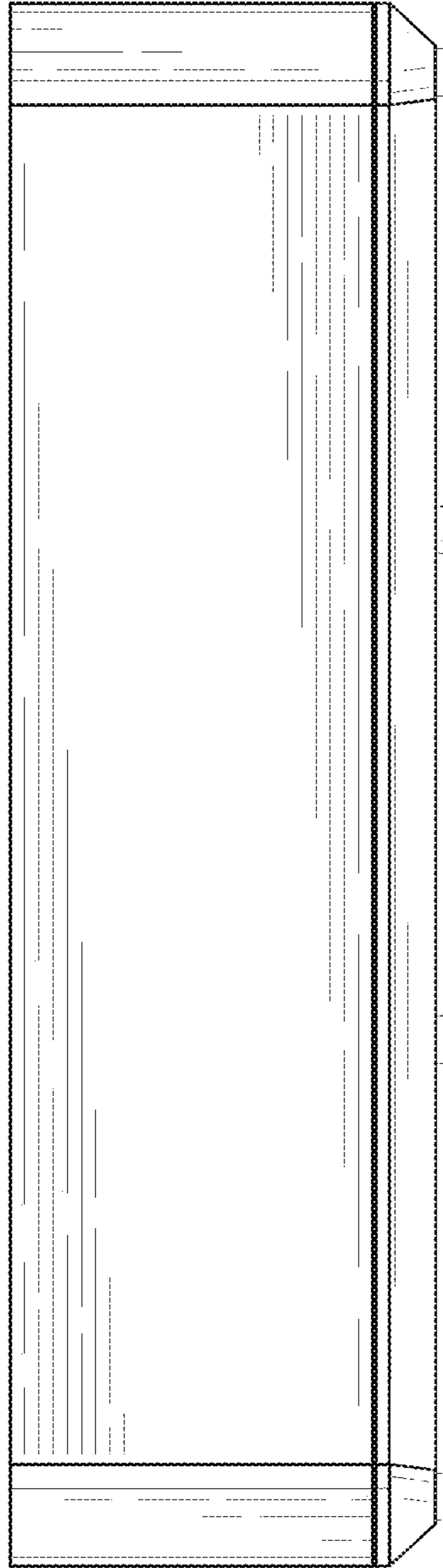


FIG. 5

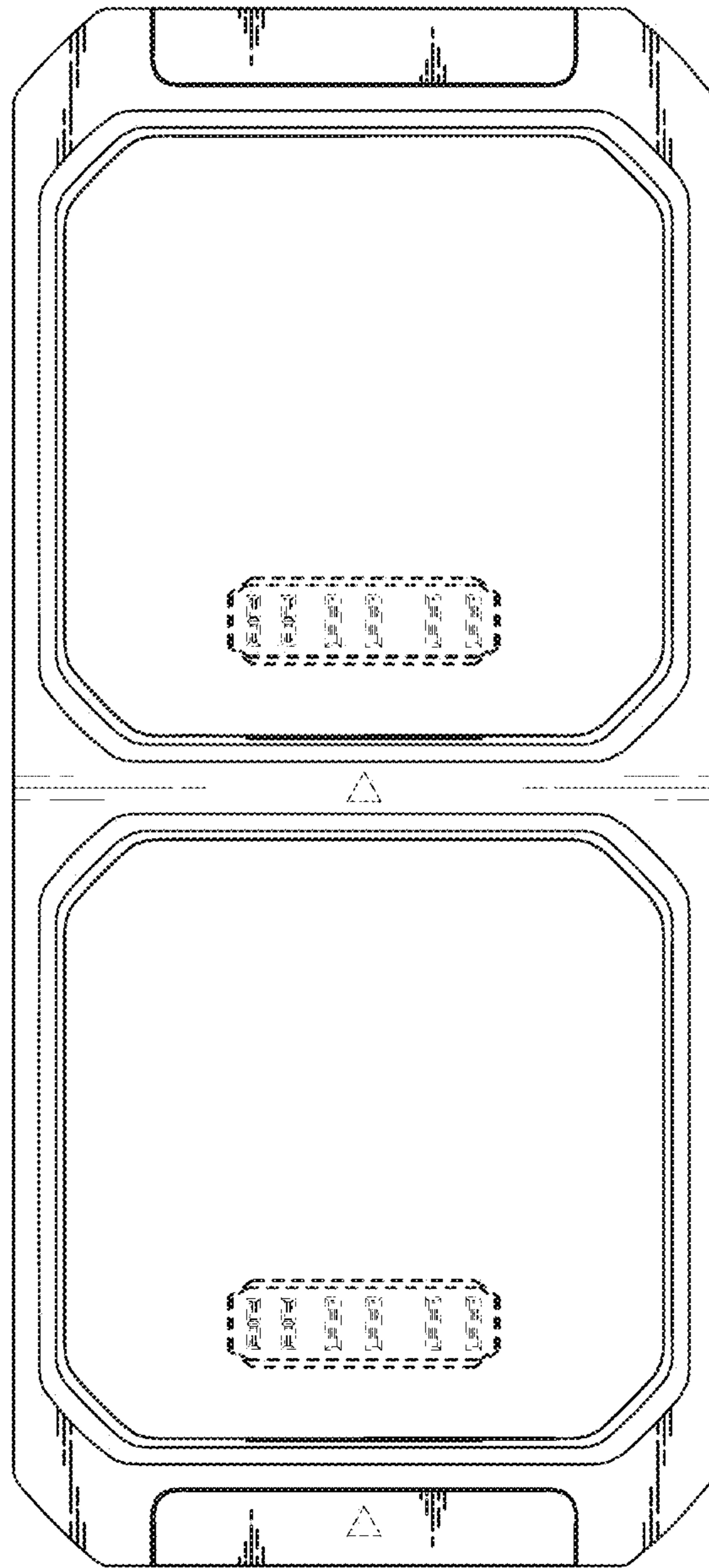


FIG. 6

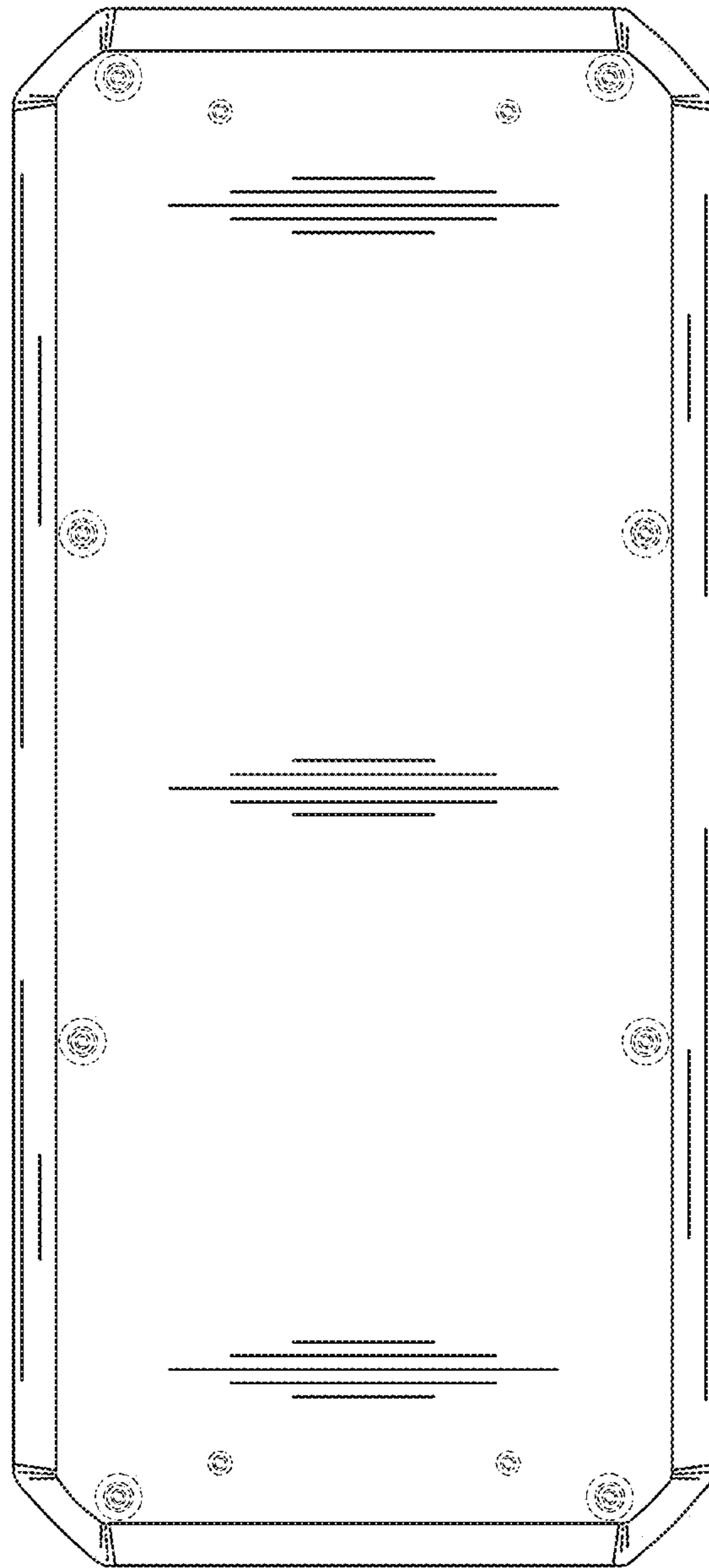


FIG. 7