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Liao

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(54) **AC TRANSFORMER FOR MULTIPLE PORTABLE ELECTRONIC DEVICES**

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

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(52) **U.S. Cl.**
USPC **D13/110**

(58) **Field of Classification Search**
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D13/156

CPC H01R 13/641; H01M 2/1022; H01M
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H01M 2/1077; H02B 1/20
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D657,739 S * 4/2012 Miyawaki D13/104
D705,719 S * 5/2014 Wong D13/103
D711,821 S * 8/2014 Wang D13/103
D759,587 S * 6/2016 Santos D13/103
D762,565 S * 8/2016 Akana D13/103
D775,073 S * 12/2016 Oshiba D13/119
D812,000 S * 3/2018 Li D13/108
D820,198 S * 6/2018 Smith D13/103

D821,983 S * 7/2018 Shah D13/168
D836,541 S * 12/2018 Lomeli D13/107
D842,237 S * 3/2019 Qiu D13/103
D844,560 S * 4/2019 Miller D13/108
D852,742 S * 7/2019 Li D13/110
D854,020 S * 7/2019 Liao D14/434
D864,864 S * 10/2019 Xu D13/110
D871,324 S * 12/2019 Roberts D13/108
D872,020 S * 1/2020 Chen D13/110
D872,021 S * 1/2020 Xu D13/110
D875,044 S * 2/2020 Chen D13/110
D875,681 S * 2/2020 Xu D13/110
D876,350 S * 2/2020 Lai D13/110
D877,075 S * 3/2020 Liao D13/110
D879,715 S * 3/2020 Brendel D13/110
D879,716 S * 3/2020 Chuang D13/110
10,608,216 B2 * 3/2020 Lee H01M 2/1077

(Continued)

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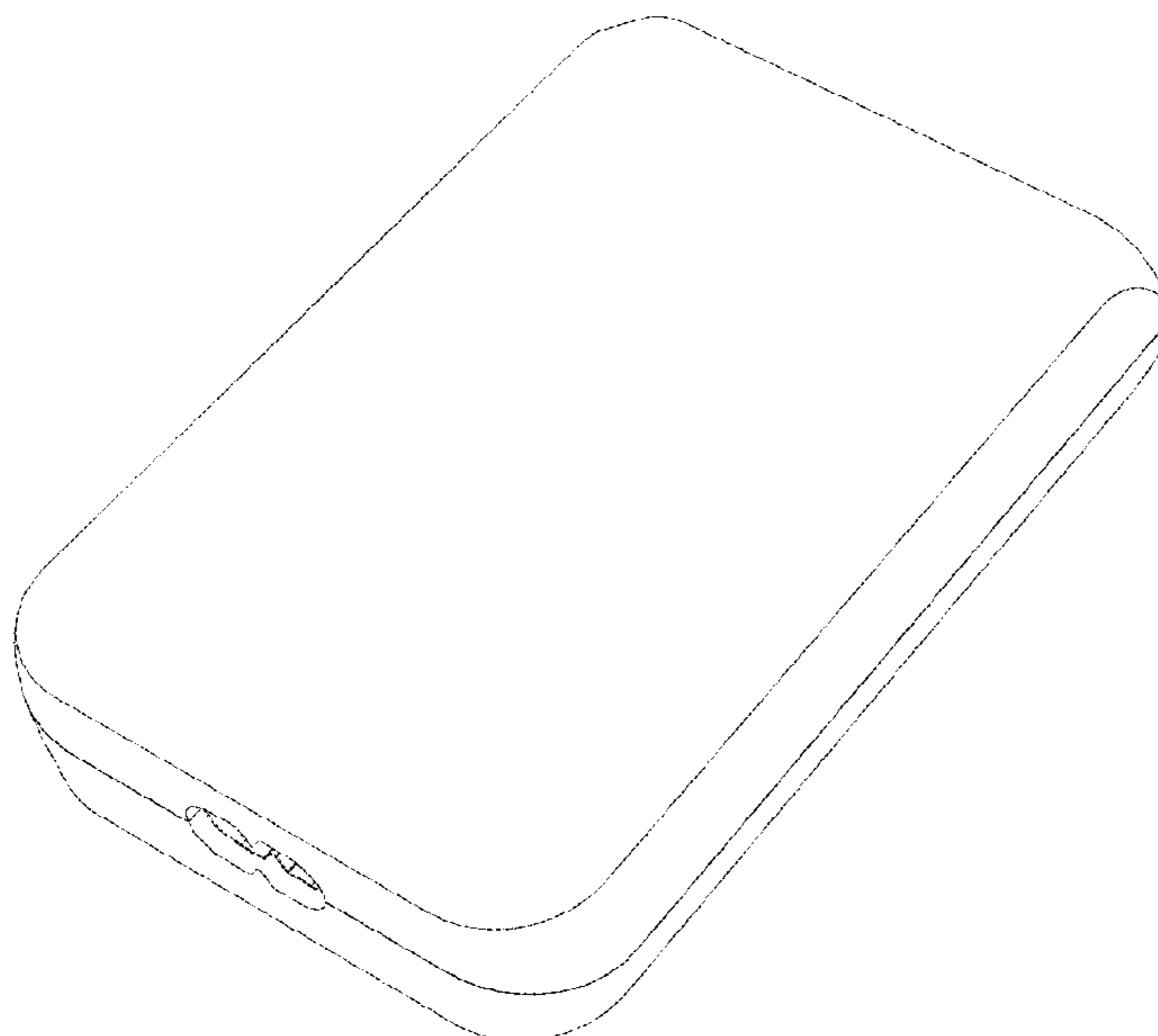
(57) **CLAIM**

The ornamental design for an AC transformer for multiple portable electronic devices, as shown and described.

DESCRIPTION

FIG. 1 is a front view of an AC transformer for multiple portable electronic devices showing my new design; FIG. 2 is a rear view thereof; FIG. 3 is a top view thereof, and the bottom view being a mirror image due to symmetry; FIG. 4 is a right side view thereof, and the left side view being a mirror image due to symmetry; FIG. 5 is a top, rear, right side perspective view thereof; and, FIG. 6 is a top, front, left side perspective view thereof. The broken lines shown in the drawings illustrate portions of the AC transformer for multiple portable electronic devices that form no part of the claimed design

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D881,455 S * 4/2020 Wright D27/162
D881,459 S * 4/2020 Ouyang D27/162
D881,462 S * 4/2020 Wright D27/162
2008/0050645 A1* 2/2008 Kai H01M 2/1077
429/61
2009/0123821 A1* 5/2009 Kim H05K 1/182
429/124
2011/0070465 A1* 3/2011 Kim, II H01M 10/4257
429/7
2015/0207181 A1* 7/2015 Fink H01M 10/425
429/7
2017/0264059 A1* 9/2017 Cote H01R 13/717
2019/0131678 A1* 5/2019 Kim H01M 10/613
2019/0189982 A1* 6/2019 Lee H01M 10/0472
2019/0198952 A1* 6/2019 Choi H01M 2/204

* cited by examiner

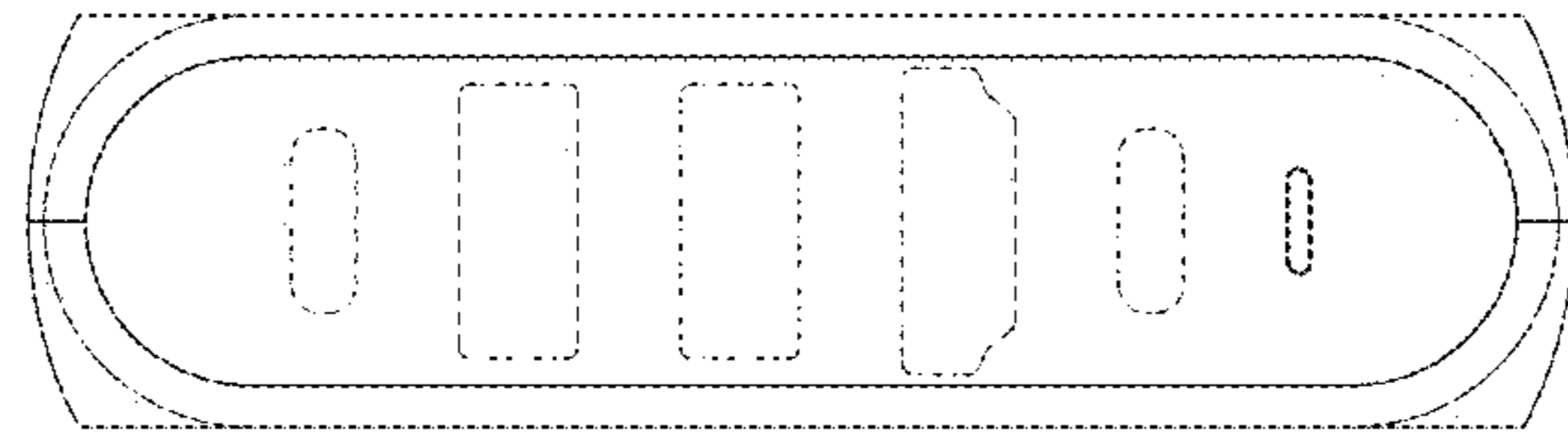


FIG. 1

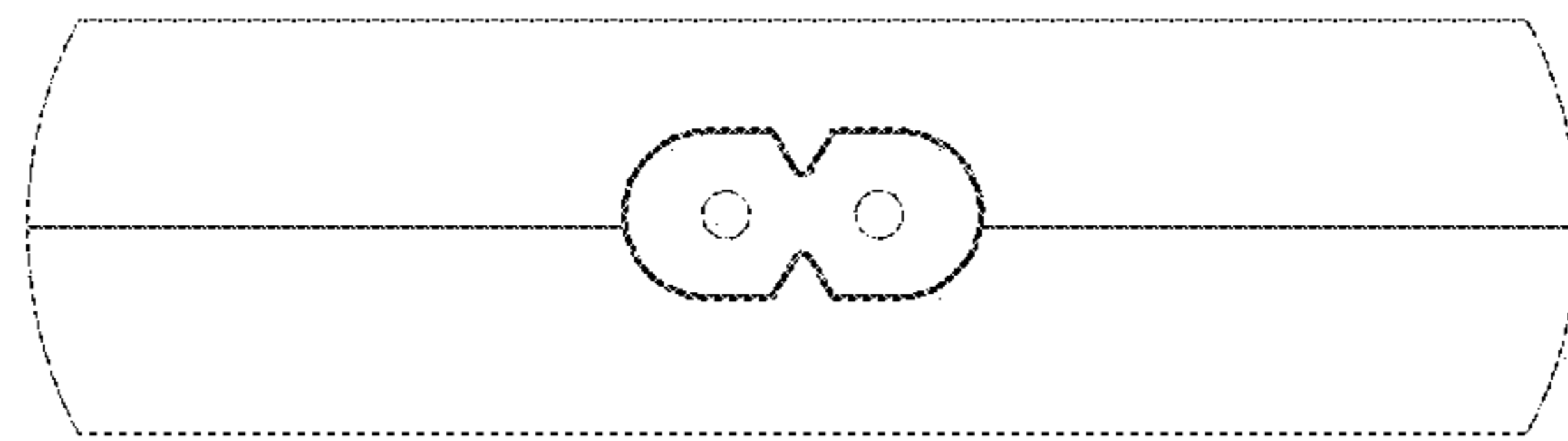


FIG. 2

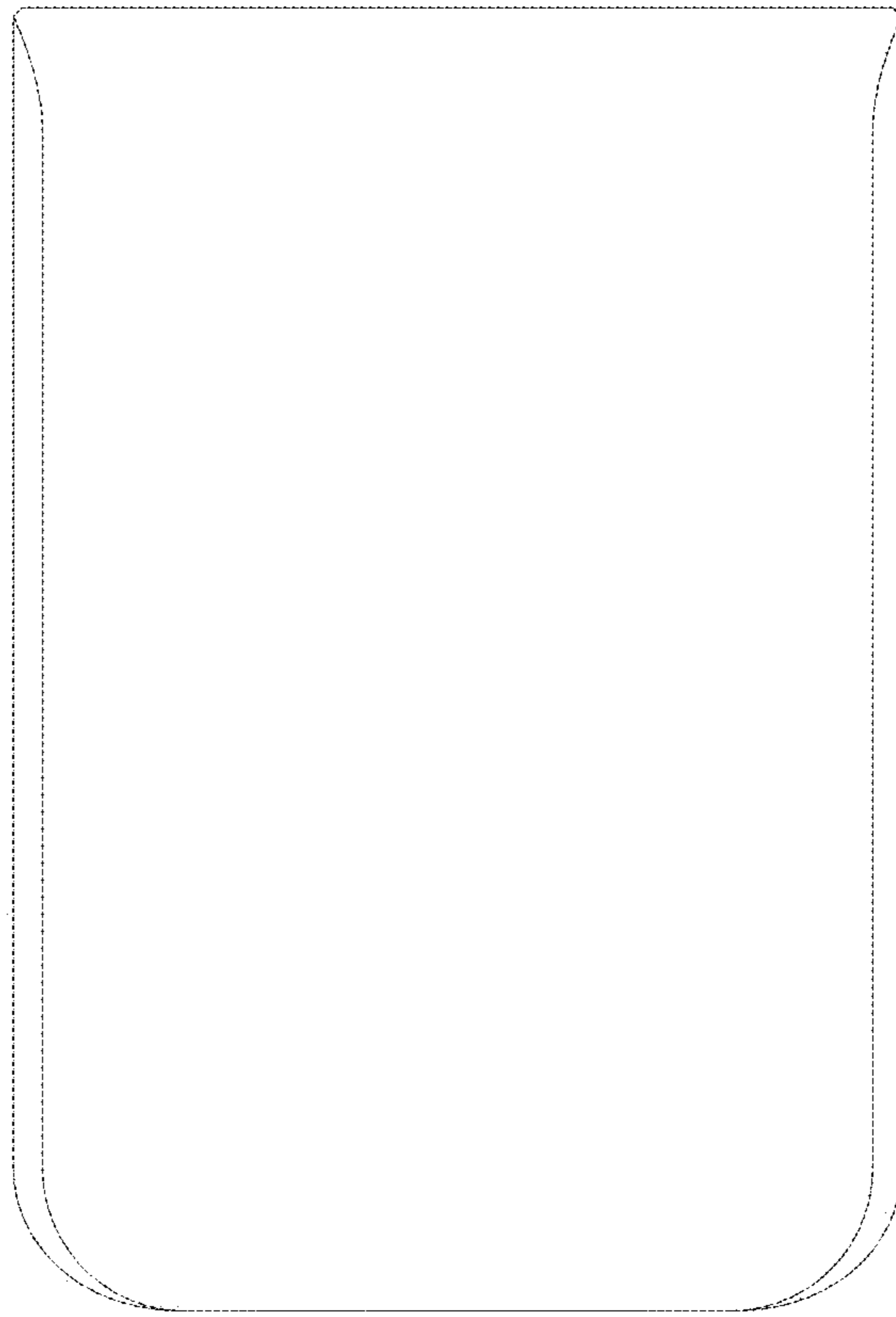


FIG. 3

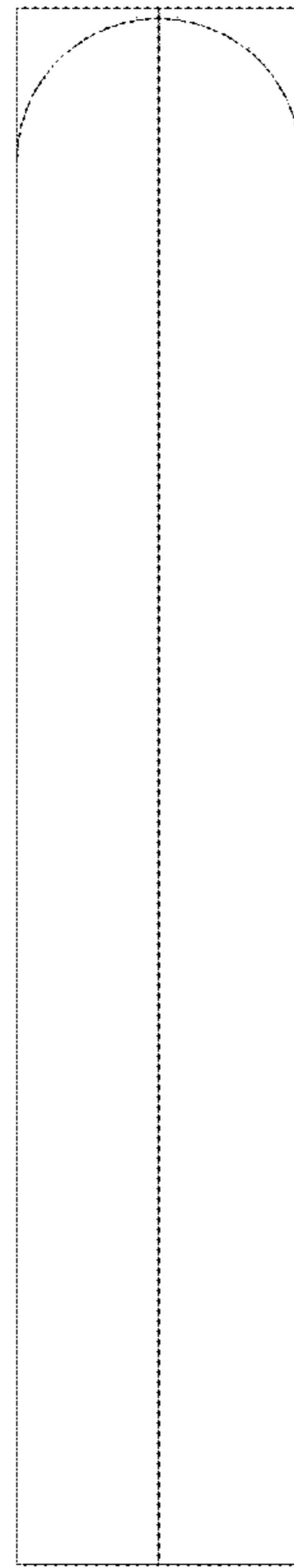


FIG. 4

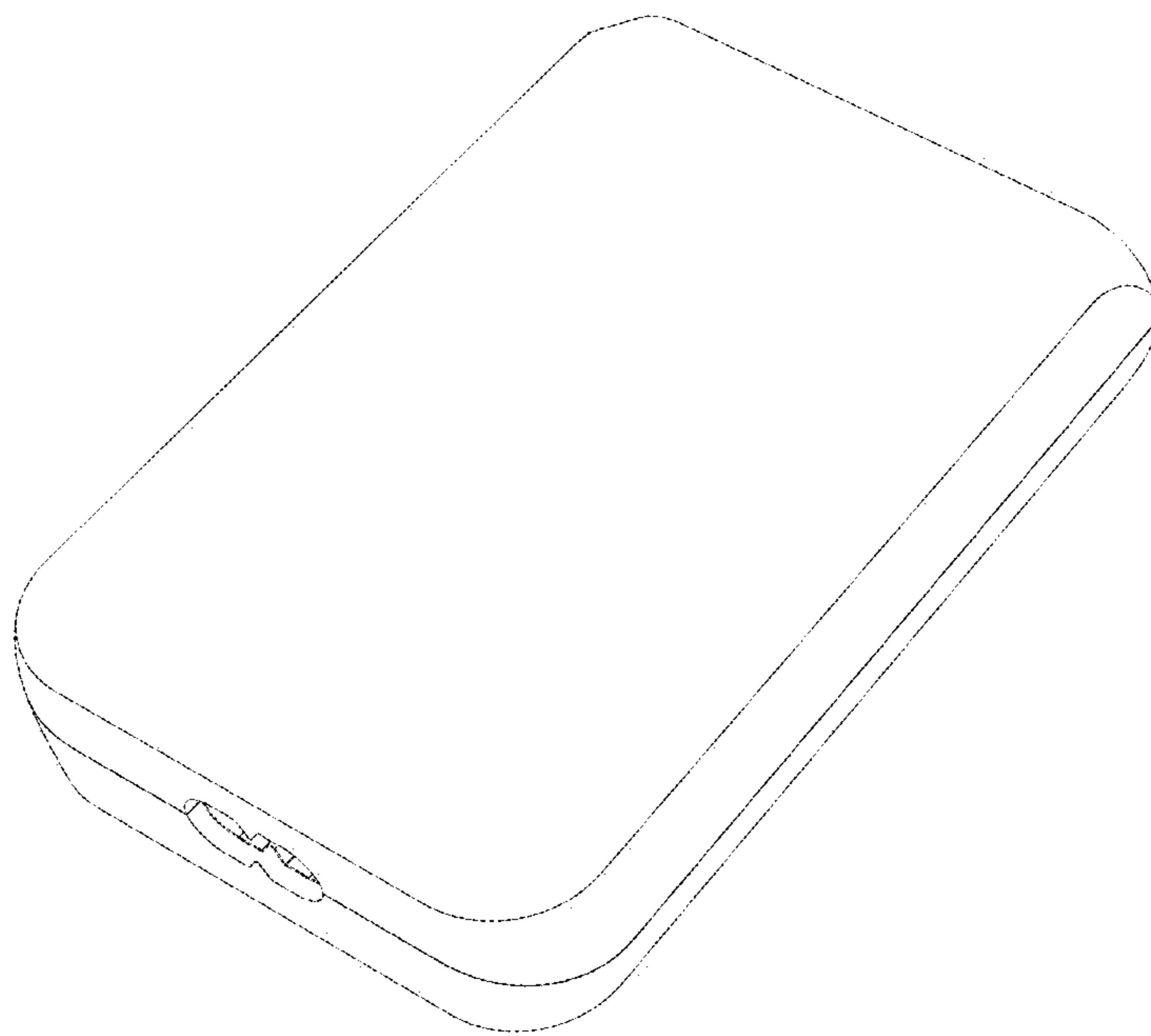


FIG. 5

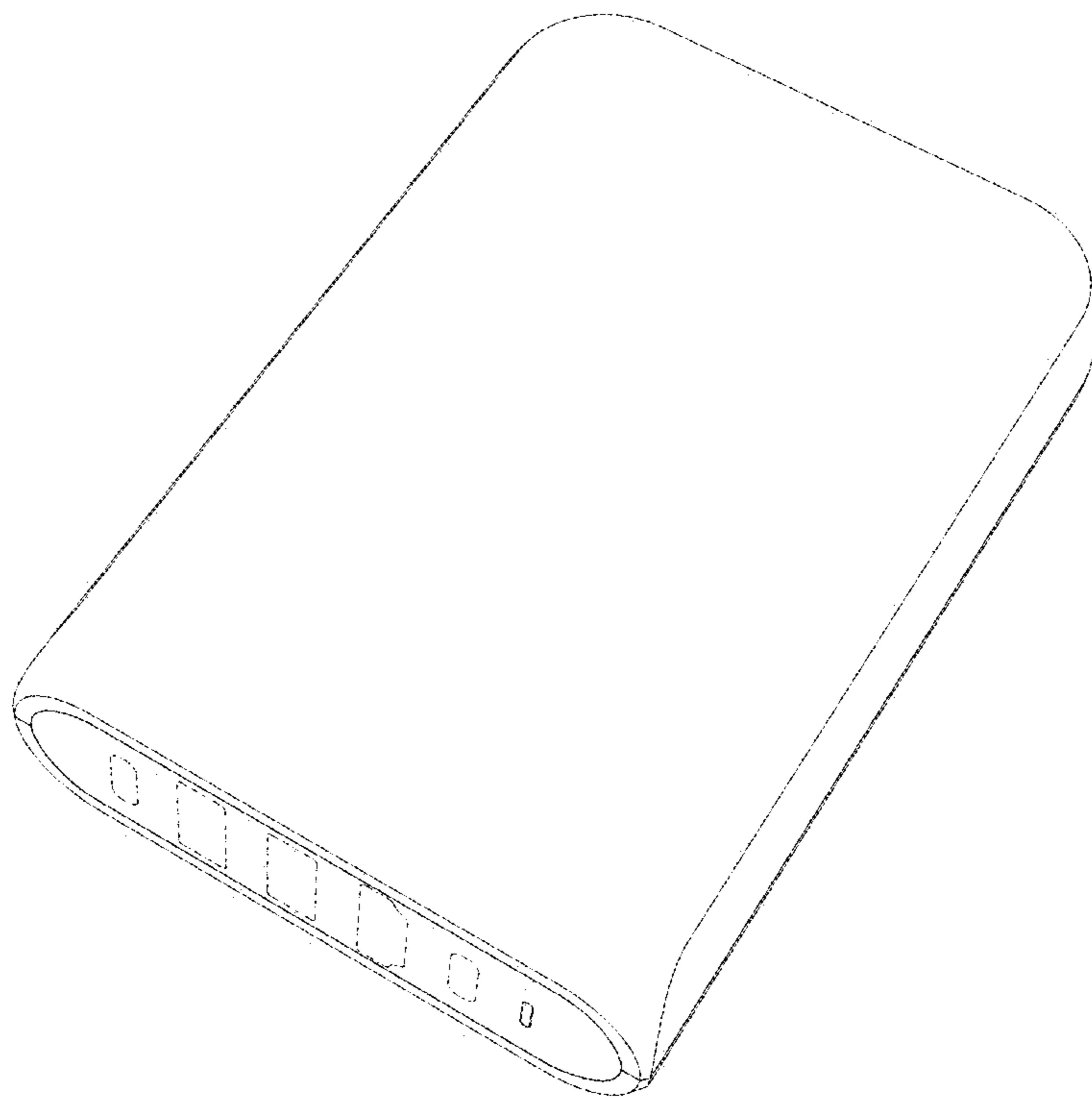


FIG. 6