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(12) **United States Design Patent** (10) **Patent No.:** **US D1,060,353 S**
Rosson et al. (45) **Date of Patent:** **** Feb. 4, 2025**

(54) **MULTIPOINT FOR MAKING OPTICAL CONNECTIONS**

6/4452; G06F 3/00; G06F 5/00; G06F 13/14; H04L 12/2832; H04L 12/2838

See application file for complete search history.

(71) Applicant: **Corning Research & Development Corporation**, Corning, NY (US)

(56) **References Cited**

(72) Inventors: **Joel Christopher Rosson**, Hickory, NC (US); **Monique Lise Cote**, Fort Worth, TX (US); **Matthew Wallace Peterson**, San Francisco, CA (US); **Edward Wilson Licitra**, San Francisco, CA (US); **Jonathan Patrick Summers**, South San Francisco, CA (US); **Dayne Wilcox**, El Cerrito, CA (US)

U.S. PATENT DOCUMENTS

(73) Assignee: **CORNING RESEARCH & DEVELOPMENT CORPORATION**, Corning, NY (US)

D275,101 S	8/1984	Read
D362,855 S	10/1995	Bevilacqua et al.
D364,346 S	11/1995	Yamada
D391,481 S	3/1998	Oxley
D394,864 S	6/1998	Brandt
D425,021 S	5/2000	Ko
D482,693 S	11/2003	Nishio et al.
D486,824 S	2/2004	Chung
D487,086 S	2/2004	Chung
D490,403 S	5/2004	Wu et al.
D549,663 S	8/2007	Tsou et al.
D559,848 S	1/2008	Siu
D598,856 S	8/2009	Stromiedel et al.
D598,857 S	8/2009	Stromiedel et al.
D604,725 S	11/2009	Chen
7,614,887 B1	11/2009	Yi et al.
7,653,282 B2	1/2010	Blackwell, Jr. et al.
D612,810 S	3/2010	Bender
D613,693 S	4/2010	Bender
D623,969 S	9/2010	Neitzel et al.
D628,201 S	11/2010	Tian et al.
8,059,932 B2	11/2011	Hill et al.
D673,564 S	1/2013	Milliff
D674,344 S	1/2013	Bies
D675,106 S	1/2013	Powers et al.
D676,391 S	2/2013	Gassauer
D678,286 S	3/2013	Cheng
D711,884 S	8/2014	Turksu et al.
8,801,297 B2	8/2014	Mccolloch
D716,304 S	10/2014	Orthey
D724,079 S	3/2015	Probst et al.
D732,041 S	6/2015	Conn et al.
D739,822 S	9/2015	Severing
D740,828 S	10/2015	Bucsa
D750,023 S	2/2016	Sasano
D753,596 S	4/2016	Bies
D753,598 S	4/2016	Bies
D756,302 S	5/2016	Chen et al.
9,354,397 B2	5/2016	Bylander et al.
D769,246 S	10/2016	Mielnik et al.
D785,632 S	5/2017	Vanduyt et al.
D788,112 S	5/2017	Liao
D791,138 S	7/2017	Eliyahu
D791,774 S	7/2017	Wilcox et al.
D794,028 S	8/2017	Lin

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Related U.S. Application Data

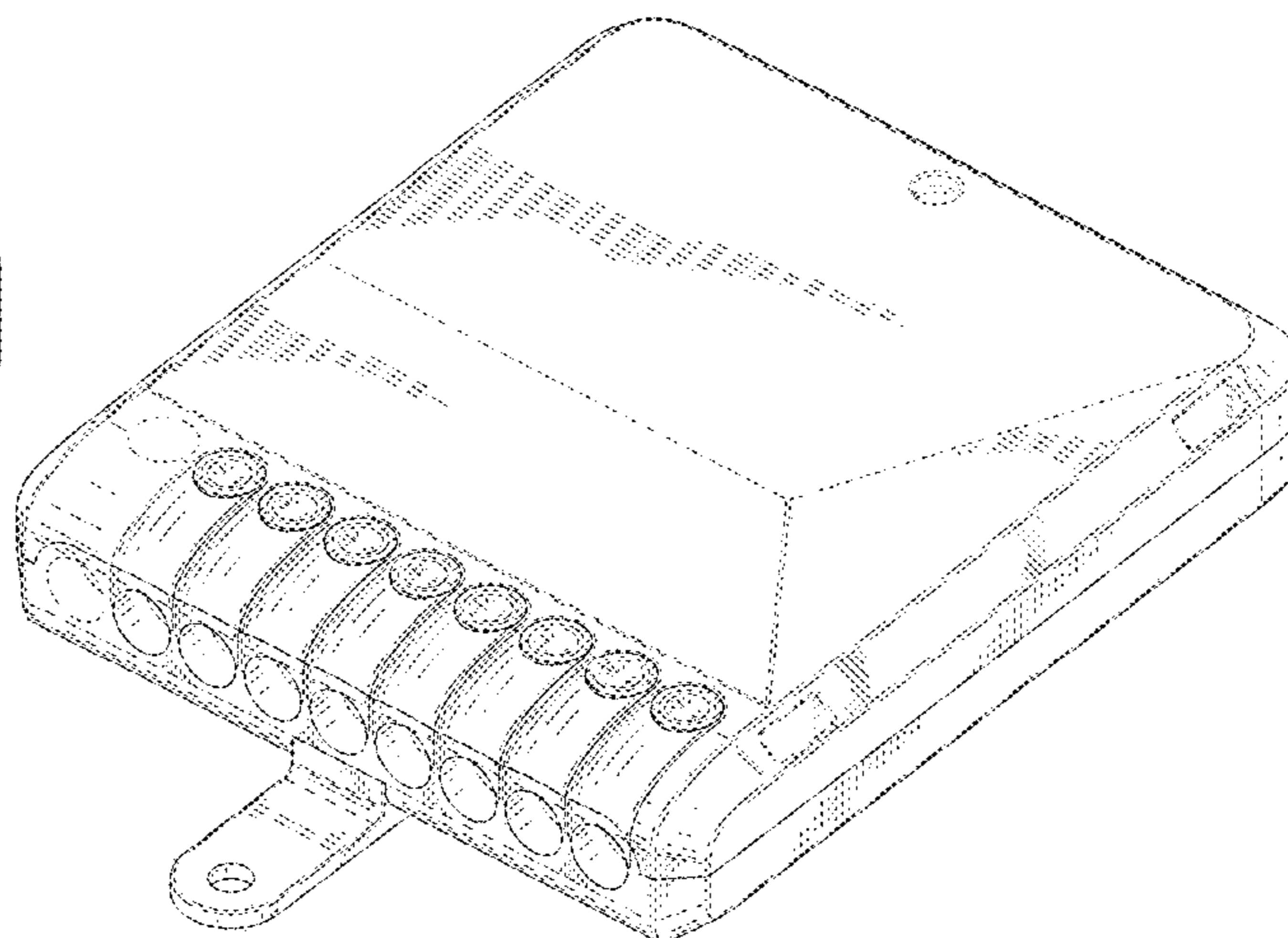
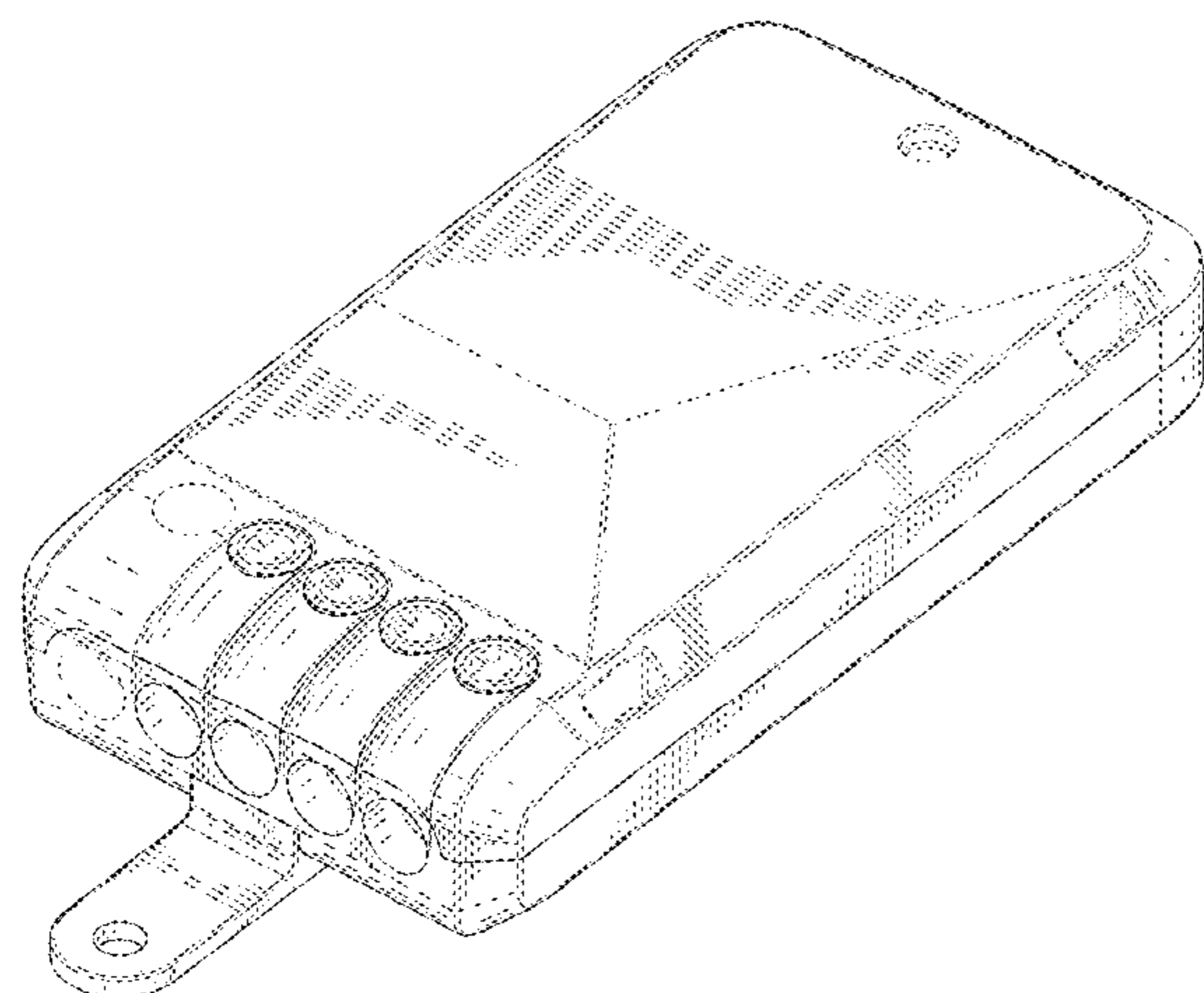
(60) Division of application No. 29/664,758, filed on Sep. 27, 2018, now Pat. No. Des. 935,417, and a continuation of application No. 29/642,334, filed on Mar. 29, 2018, now Pat. No. Des. 941,295, which is a continuation of application No. 29/642,339, filed on Mar. 29, 2018, now Pat. No. Des. 941,821, and a continuation of application No. 29/642,340, filed on Mar. 29, 2018, now Pat. No. Des. 941,296.

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(52) **U.S. Cl.**
USPC **D13/147; D14/433**

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CPC G02B 6/38; G02B 6/3853; G02B 6/3861; G02B 6/3885; G02B 6/3893; G02B 6/4471; G02B 6/44; G02B 6/4455; G02B



D794,478 S 8/2017 Read et al.
 D795,079 S 8/2017 Wilcox et al.
 D796,514 S 9/2017 Xu
 D797,747 S 9/2017 Xu
 D802,415 S 11/2017 Wilcox et al.
 D808,915 S 1/2018 Wang
 D810,693 S 2/2018 Rao et al.
 9,899,752 B2 2/2018 Wu et al.
 D813,874 S 3/2018 Magi et al.
 D815,642 S 4/2018 Wilcox et al.
 D818,952 S 5/2018 Wilcox et al.
 D818,953 S 5/2018 Xu
 D824,335 S 7/2018 Wilcox et al.
 D824,337 S 7/2018 Wilcox et al.
 D825,475 S 8/2018 Henley et al.
 D825,540 S 8/2018 Wilcox et al.
 D828,814 S 9/2018 Senofsky et al.
 D835,049 S 12/2018 Wilcox et al.
 D835,050 S 12/2018 Wilcox et al.
 D835,086 S 12/2018 Wilcox et al.
 D837,216 S 1/2019 Bagley et al.
 D837,788 S 1/2019 Bagley et al.
 D837,789 S 1/2019 Woody
 D839,210 S 1/2019 Wilcox et al.
 D841,583 S 2/2019 Spiegel
 D842,815 S 3/2019 Senofsky et al.
 D848,369 S 5/2019 Stolze
 D853,334 S 7/2019 Mastel
 D856,327 S * 8/2019 Huang D14/365
 10,379,298 B2 8/2019 Dannoux et al.
 D859,189 S 9/2019 Mendoza et al.
 D862,394 S 10/2019 Hernandez et al.
 D872,012 S 1/2020 Rao
 D878,370 S 3/2020 Bagley et al.
 D878,371 S 3/2020 Bagley et al.
 D878,372 S 3/2020 Bagley et al.
 10,585,256 B1 3/2020 Henley et al.
 D881,132 S 4/2020 Bagley et al.
 10,641,967 B1 5/2020 Cote et al.
 D888,060 S 6/2020 Cote et al.
 D893,432 S 8/2020 Murphy et al.
 10,768,382 B2 * 9/2020 Cote G02B 6/3869
 10,809,480 B1 10/2020 Cox et al.
 D902,190 S * 11/2020 Yang D14/230
 D909,976 S 2/2021 Bonner et al.
 D913,246 S 3/2021 Rosson
 D919,607 S * 5/2021 Chen D14/230
 D935,417 S * 11/2021 Cote D14/433
 D941,295 S * 1/2022 Bagley D14/433
 D941,296 S * 1/2022 Bagley D14/433
 D941,821 S * 1/2022 Bagley D14/433
 11,487,073 B2 * 11/2022 Ripumaree G02B 6/4471
 D975,023 S * 1/2023 Rosson D14/433
 D1,006,015 S * 11/2023 Jun D14/348
 11,886,010 B2 * 1/2024 Butler G02B 6/283
 D1,021,402 S * 4/2024 Huang D3/247
 2011/0250803 A1 10/2011 Bies
 2012/0328258 A1 12/2012 Barron et al.
 2013/0259429 A1 10/2013 Czosnowski et al.
 2014/0021621 A1 1/2014 Low et al.
 2014/0219621 A1 8/2014 Barnette, Jr. et al.
 2015/0268436 A1 9/2015 Blackwell, Jr. et al.
 2015/0316738 A1 11/2015 McPhil Giraud et al.
 2015/0355428 A1 12/2015 Leeman et al.
 2017/0153399 A1 6/2017 Rodriguez
 2018/0157002 A1 6/2018 Bishop et al.
 2019/0004251 A1 1/2019 Dannoux et al.
 2019/0004252 A1 1/2019 Rosson
 2019/0004255 A1 1/2019 Dannoux et al.
 2019/0004258 A1 1/2019 Dannoux et al.
 2019/0129116 A1 5/2019 Henley et al.
 2019/0339460 A1 11/2019 Dannoux et al.
 2019/0353863 A1 11/2019 Schneider et al.
 2020/0049922 A1 2/2020 Rosson
 2020/0132957 A1 4/2020 Beri
 2020/0174201 A1 6/2020 Cote et al.
 2020/0233168 A1 7/2020 Ruda
 2021/0033811 A1 2/2021 Dannoux et al.
 2021/0072479 A1 3/2021 Ward

2021/0096317 A1 4/2021 Ripumaree et al.
 2021/0141182 A1 5/2021 Ward
 2021/0141184 A1 5/2021 Krampotich et al.
 2021/0181443 A1 6/2021 Zhou et al.
 2021/0247583 A1 8/2021 Elkins, II

FOREIGN PATENT DOCUMENTS

AU 2014101479 A4 1/2015
 AU 2014101470 A4 3/2015
 CA 183730 * 5/2020
 CN 305515830 S 12/2019
 CN 305515831 S 12/2019
 EM 005666187-0015 * 11/2018
 EM 005666187-0017 * 11/2018
 EM 005666187-0019 * 11/2018
 GB 9005666187-0015 * 9/2018
 GB 9005666187-0017 * 9/2018
 GB 9005666187-0019 * 9/2018
 WO 2014123940 8/2014
 WO 2019005190 A2 1/2019
 WO 2019005191 A1 1/2019
 WO 2019005192 A1 1/2019
 WO 2019005193 A1 1/2019
 WO 2019005194 A1 1/2019
 WO 2019005195 A1 1/2019
 WO 2019005196 A1 1/2019
 WO 2019005197 A1 1/2019
 WO 2019005198 A1 1/2019
 WO 2019005199 A1 1/2019
 WO 2019005200 A1 1/2019
 WO 2019005201 A1 1/2019
 WO 2019005202 A1 1/2019
 WO 2019005203 A1 1/2019
 WO 2019005204 A1 1/2019

OTHER PUBLICATIONS

Corning Evolv Fiber Connect 2021, announced in CablingInstall.com on Jul. 26, 2021 [online], [site visited Apr. 15, 2024], Available from the internet URL: <https://www.cablinginstall.com/connectivity/article/14207548/corning-unveils-evolv-portfolio-extensions-at-fiber-connect-2021> (Year: 2021).*

E Catalog Corning. OptiSheath® Multipurpose Enclosure. No Date Specified. <https://ecatalog.corning.com/optical-communications/CALA/en/closures/Fiber-Optic-Closures/OptiSheath%C2%AE-Multipurpose-Enclosure/p/optisheath-multipurpose-enclosure?clear=true>.

Non-Final Office Action pertaining to U.S. Appl. No. 29/619,921, filed Oct. 3, 2017.

“Corning’s New Jumper In A Box Packaging Solution”, posted on Youtube.com on Jul. 20, 2016, available at <https://www.youtube.com/watch?v=XUNYr-XAbVc>, (last accessed Jun. 4, 2019).

Non-Final Office Action pertaining to U.S. Appl. No. 29/642,334, filed Mar. 29, 2018, mail date Apr. 27, 2021.

Non-Final Office Action pertaining to U.S. Appl. No. 29/642,339, filed Mar. 29, 2018, mail date Apr. 27, 2021.

Non-Final Office Action pertaining to U.S. Appl. No. 29/642,340, filed Mar. 29, 2018, mail date Apr. 27, 2021.

Final Office Action pertaining to U.S. Appl. No. 29/619,921, filed Oct. 3, 2017, mail date Aug. 22, 2019.

Non-Final Office Action pertaining to U.S. Appl. No. 29/619,925, filed Oct. 3, 2017, mail date Feb. 7, 2019.

Final Office Action pertaining to U.S. Appl. No. 29/619,925, filed Oct. 3, 2017, mail date Aug. 22, 2019.

Non-Final Office Action pertaining to U.S. Appl. No. 29/619,926, filed Oct. 3, 2017, mail date Feb. 7, 2019.

Final Office Action pertaining to U.S. Appl. No. 29/619,926, filed Oct. 3, 2017, mail date Aug. 22, 2019.

Multiports. (Design—(Copyrights) Questel) orbit.com. [Online PDF compilation of references] 32 pgs. Print Dates Range Dec. 16, 2015-Nov. 5, 2019 [Retrieved Mar. 2, 2021]; <https://www.orbit.com/export/UCZAH96B/pdf4/51722d28-a125-44ac-8fcf-9bcc531e5048-20453.pdf> (Year: 2021).

Optical Communications, "OptiSheath Multipurpose Enclosure", Available Online at <<https://ecatalog.corning.com/optical-communications/CALA/en/Closures/Fiber-Optic-Closures/OptiSheath%2%AEMultipurpose-Enclosure/p/optisheath-multipurpose-enclosure?clear=true>>, 2019, 2 pages.

* cited by examiner

Primary Examiner — Amy C Wierenga

Assistant Examiner — Angel R Marrero-Arce

(74) *Attorney, Agent, or Firm* — Michael E. Carroll, Jr.

(57) **CLAIM**

The ornamental design for a multiport for making optical connections as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a first embodiment of a multiport for making optical connections showing our new design;

FIG. 2 is a top view thereof of FIG. 1;

FIG. 3 is a bottom view thereof of FIG. 1;

FIG. 4 is a right side view thereof of FIG. 1;

FIG. 5 is a left side view thereof of FIG. 1;

FIG. 6 is a front view thereof of FIG. 1; and

FIG. 7 is a rear view thereof of FIG. 1.

FIG. 8 is a front perspective view of a second embodiment of a multiport for making optical connections showing our new design;

FIG. 9 is a top view thereof of FIG. 8;

FIG. 10 is a bottom view thereof of FIG. 8;

FIG. 11 is a right side view thereof of FIG. 8;

FIG. 12 is a left side view thereof of FIG. 8;

FIG. 13 is a front view thereof of FIG. 8; and

FIG. 14 is a rear view thereof of FIG. 8.

FIG. 15 is a front perspective view of a third embodiment of a multiport for making optical connections showing our new design;

FIG. 16 is a top view thereof of FIG. 15;

FIG. 17 is a bottom view thereof of FIG. 15;

FIG. 18 is a right side view thereof of FIG. 15;

FIG. 19 is a left side view thereof of FIG. 15;

FIG. 20 is a front view thereof of FIG. 15; and

FIG. 21 is a rear view thereof of FIG. 15.

In FIGS. 1-21, the evenly-spaced broken lines are included for the purpose of illustrating environmental structure and form no part of the claimed design.

1 Claim, 15 Drawing Sheets

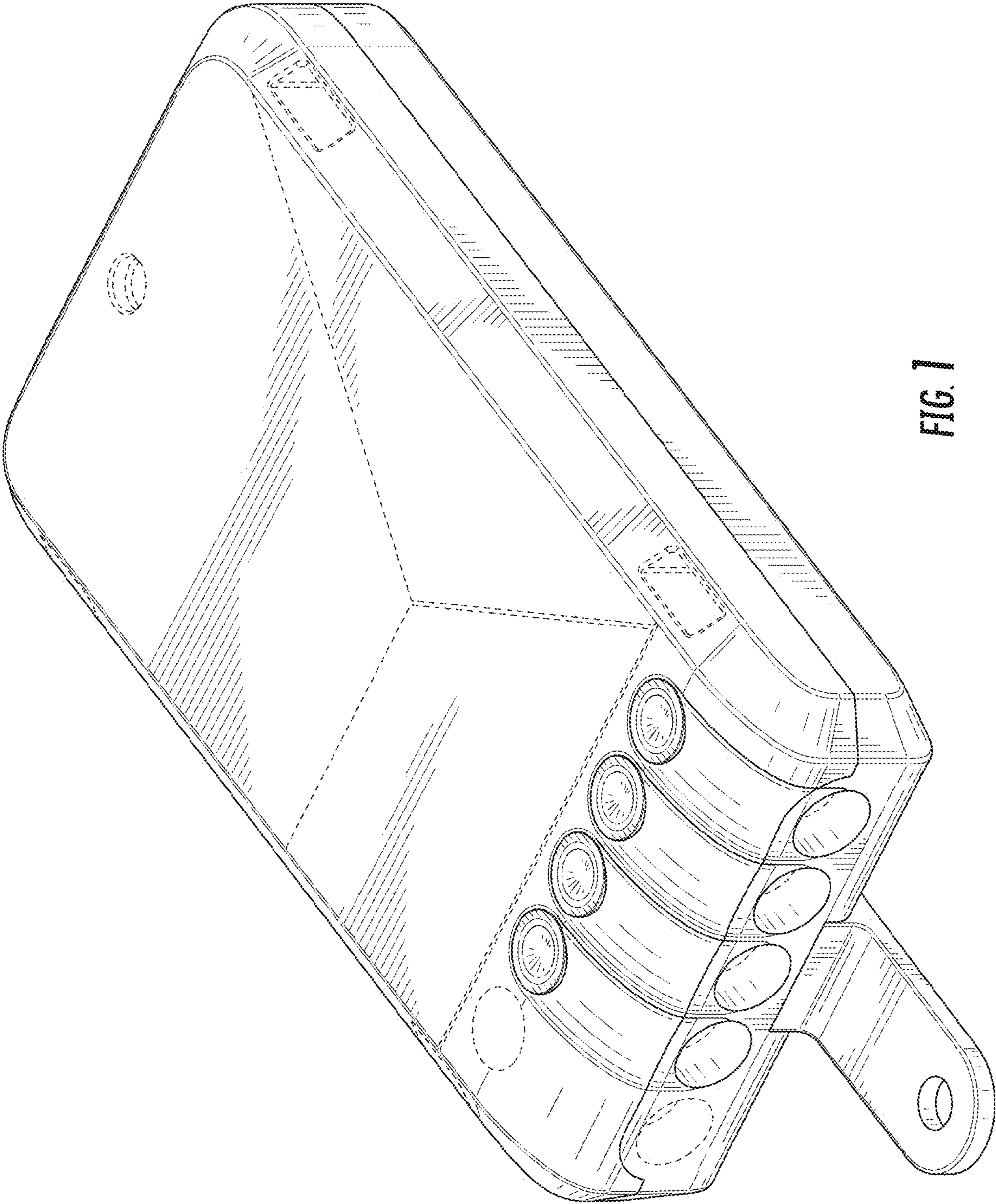


FIG. 1

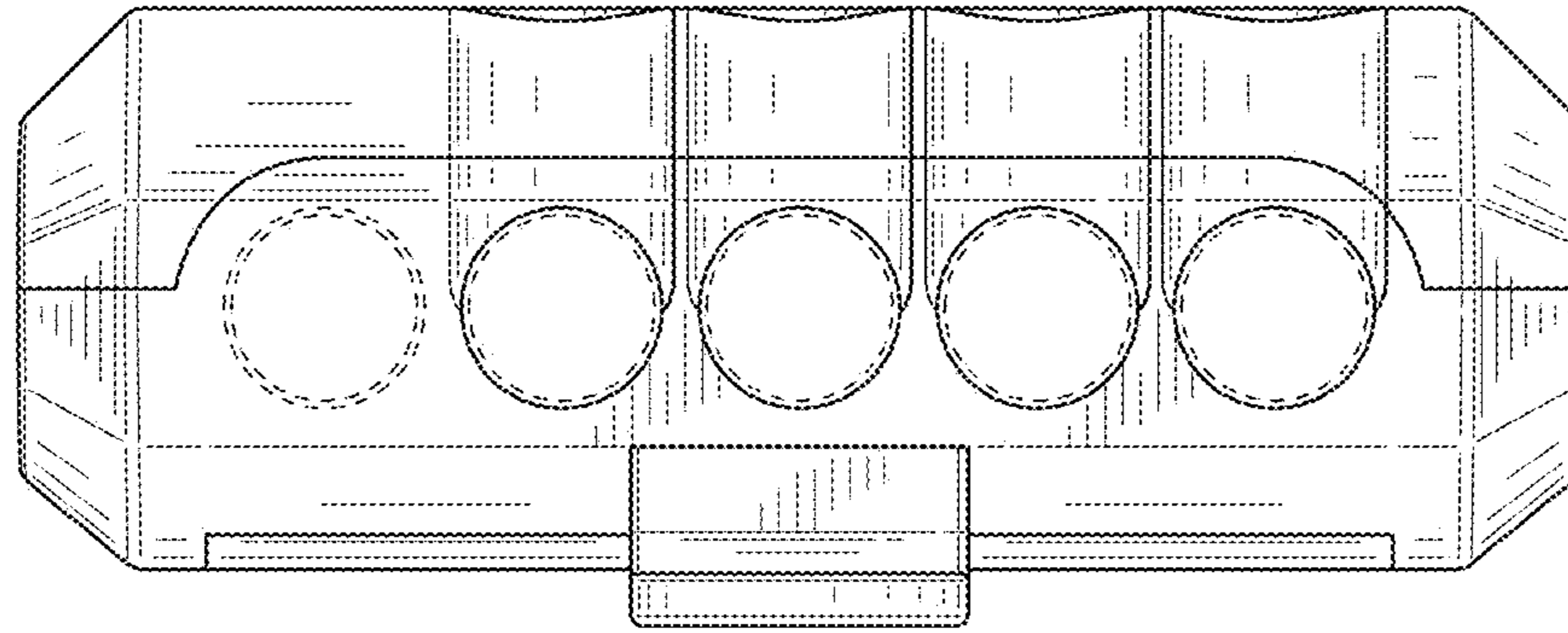


FIG. 2

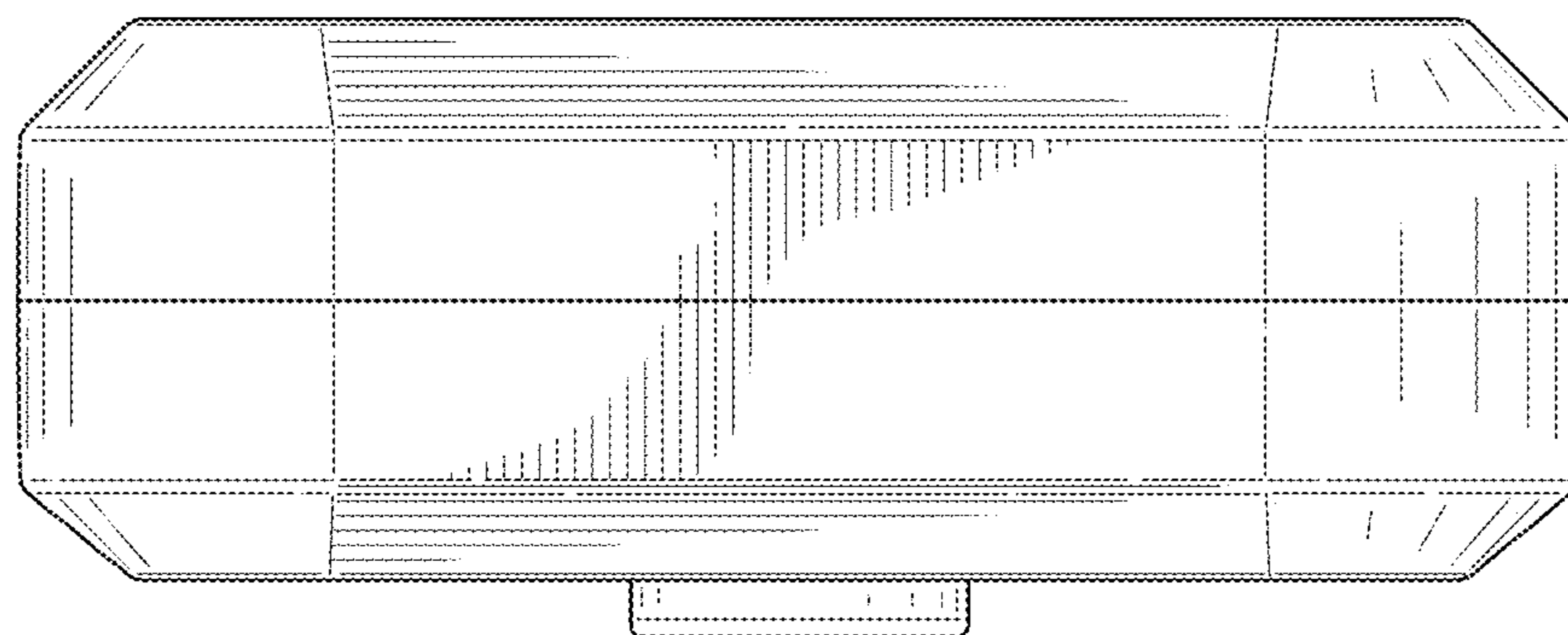


FIG. 3

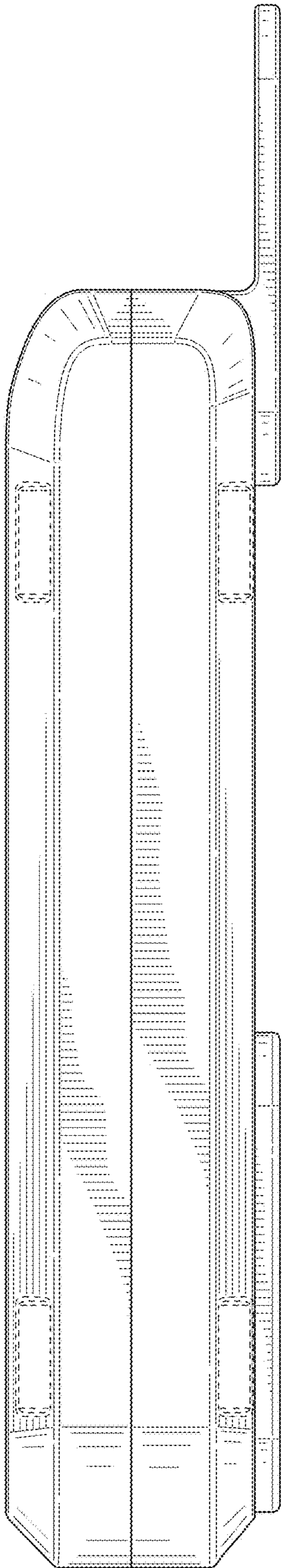


FIG. 4

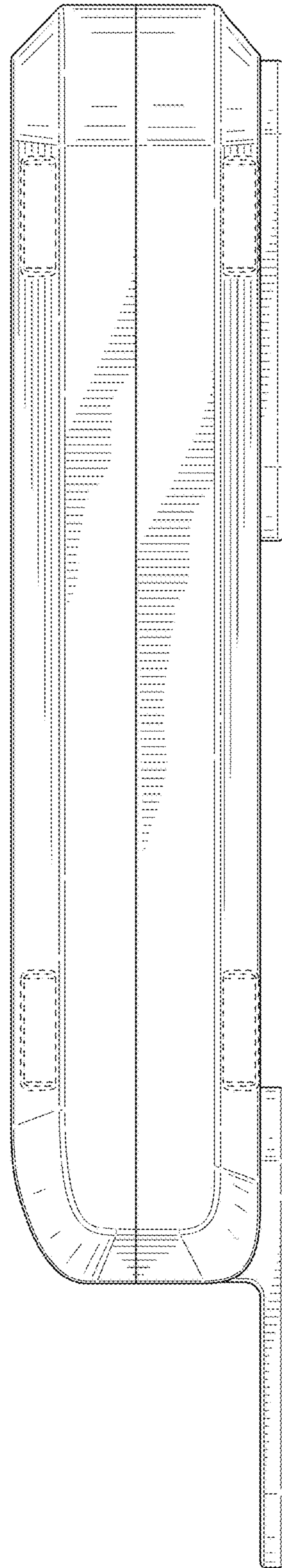


FIG. 5

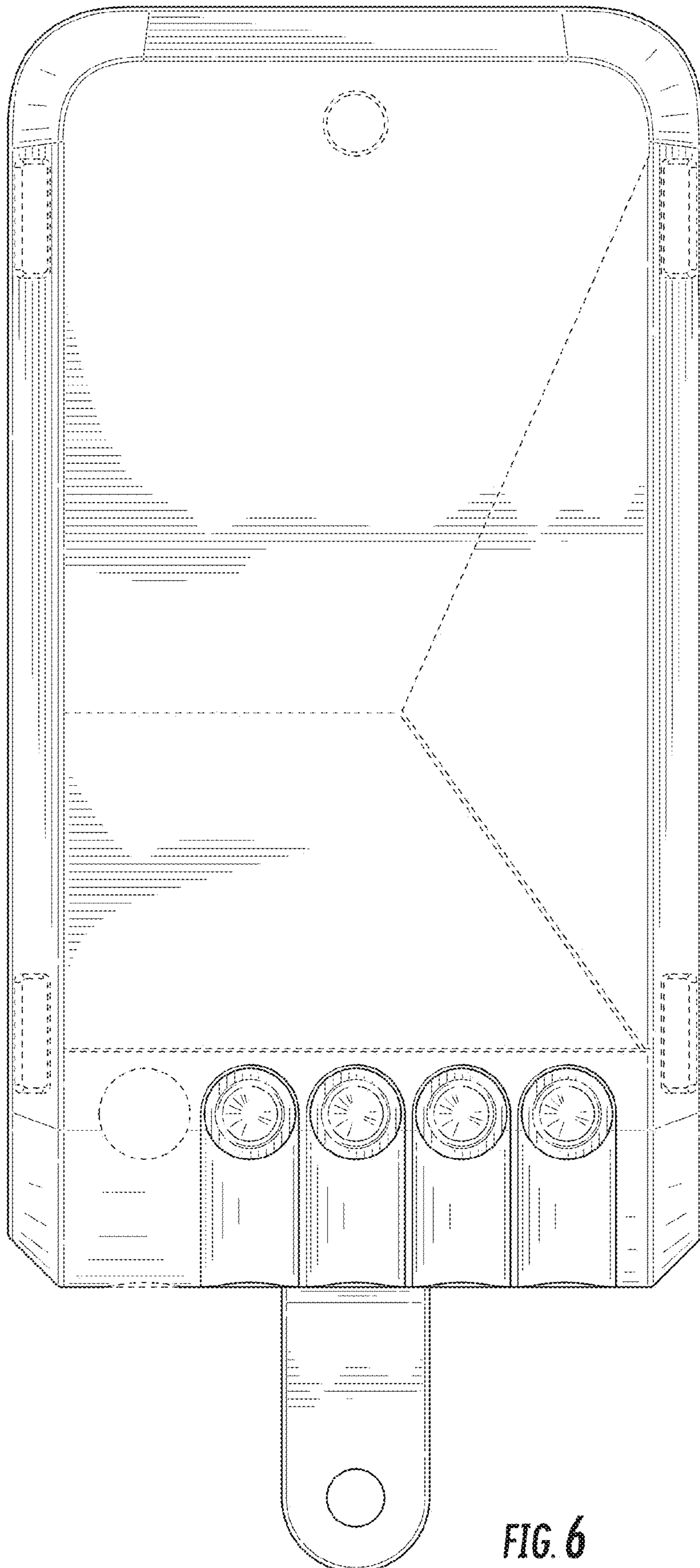


FIG. 6

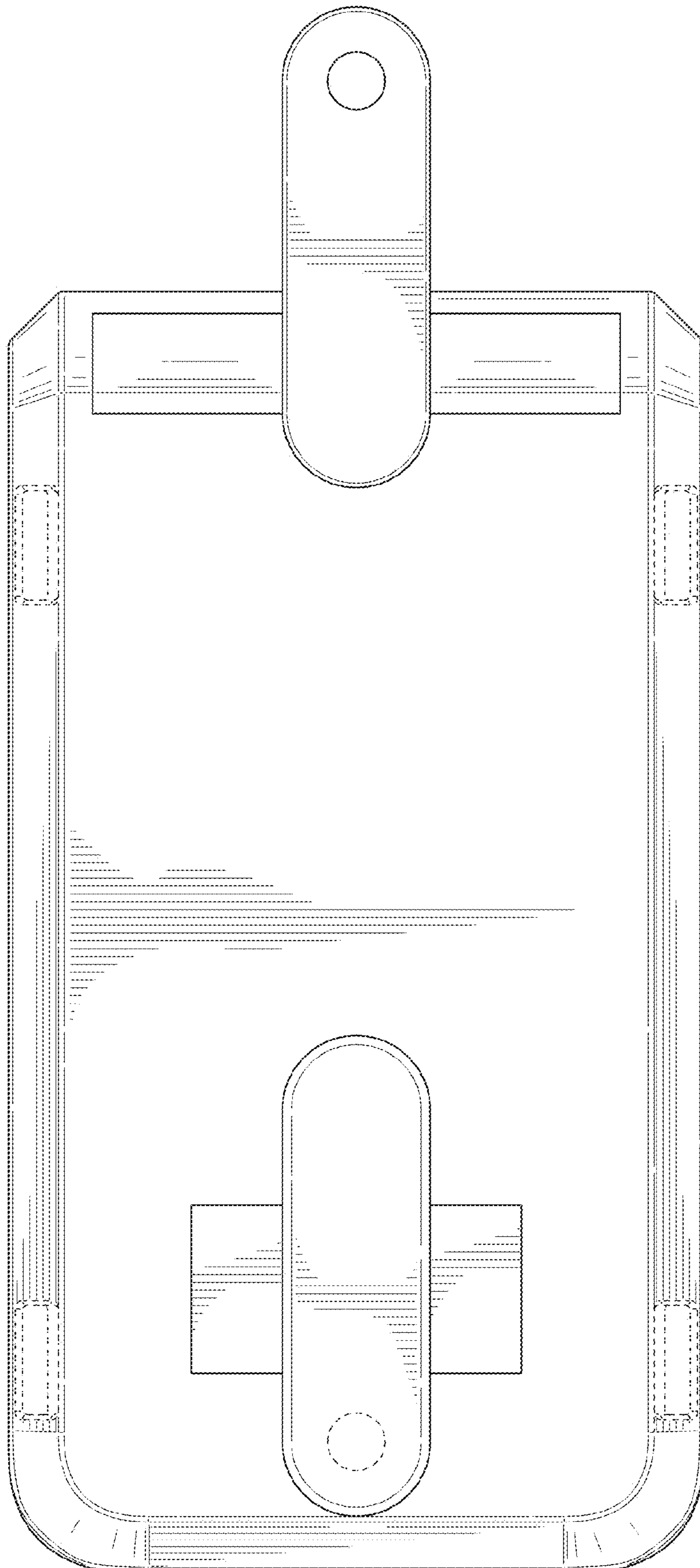
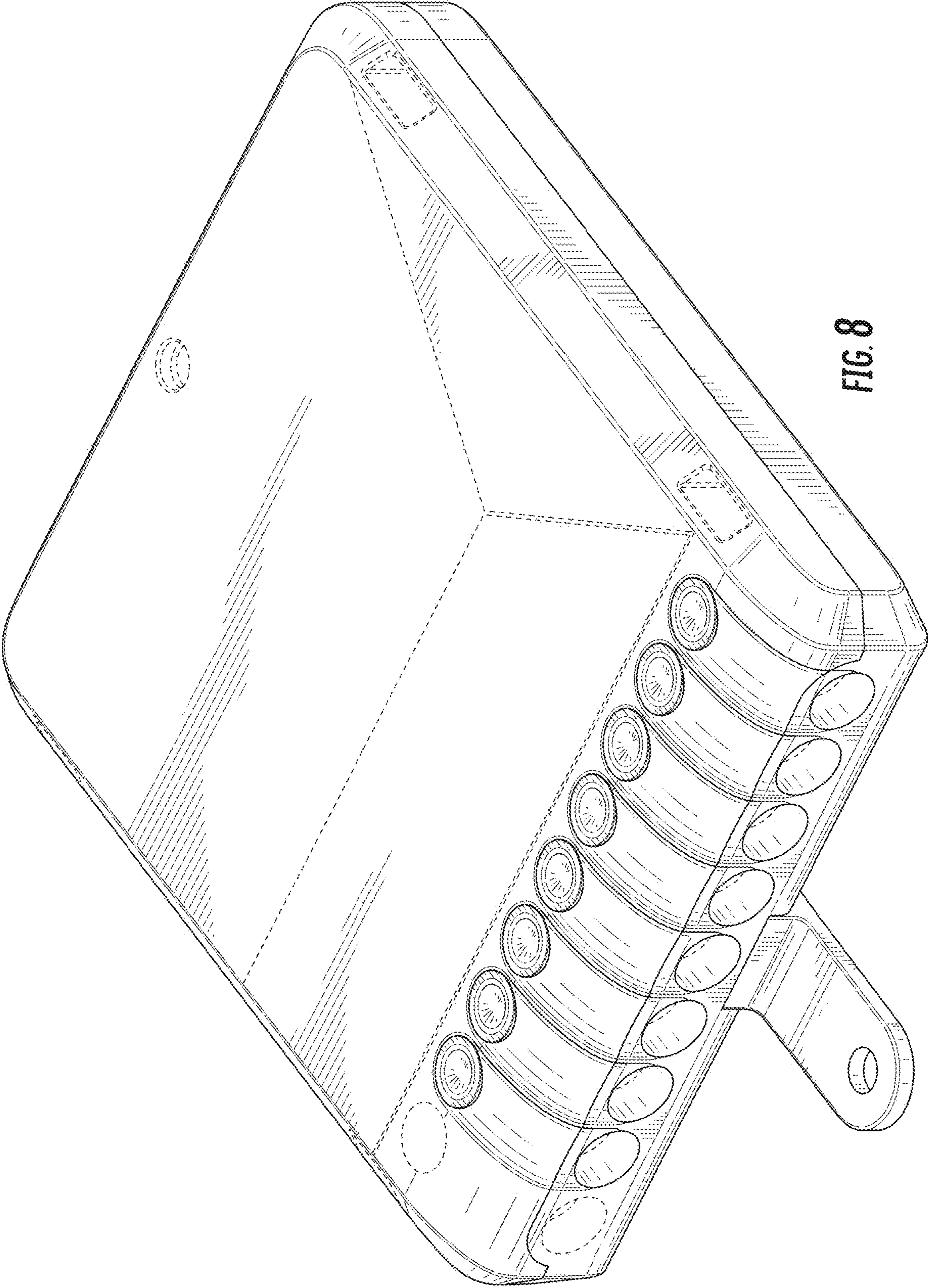


FIG. 7



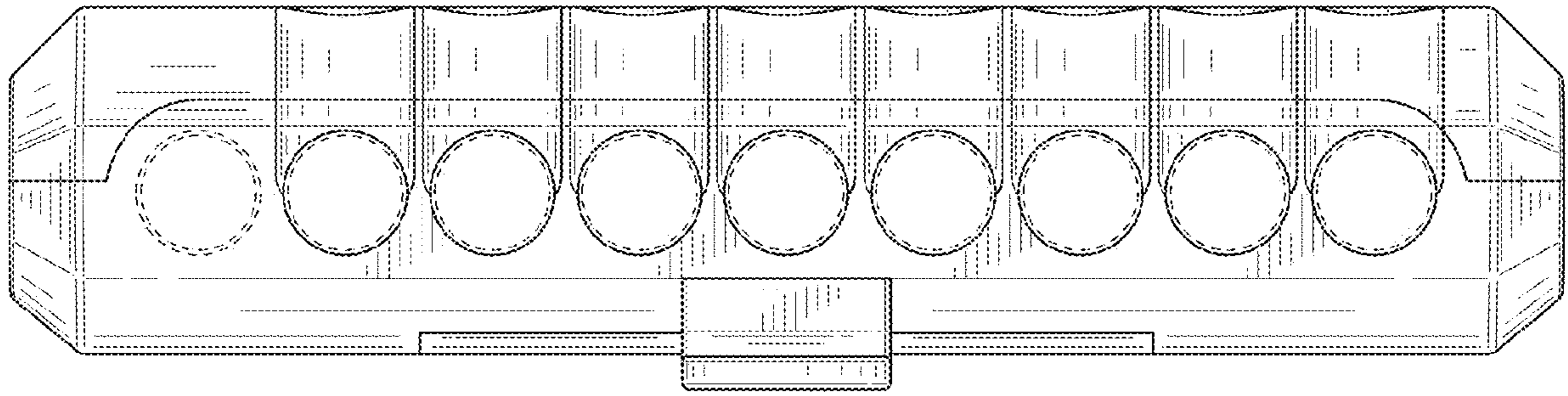


FIG. 9

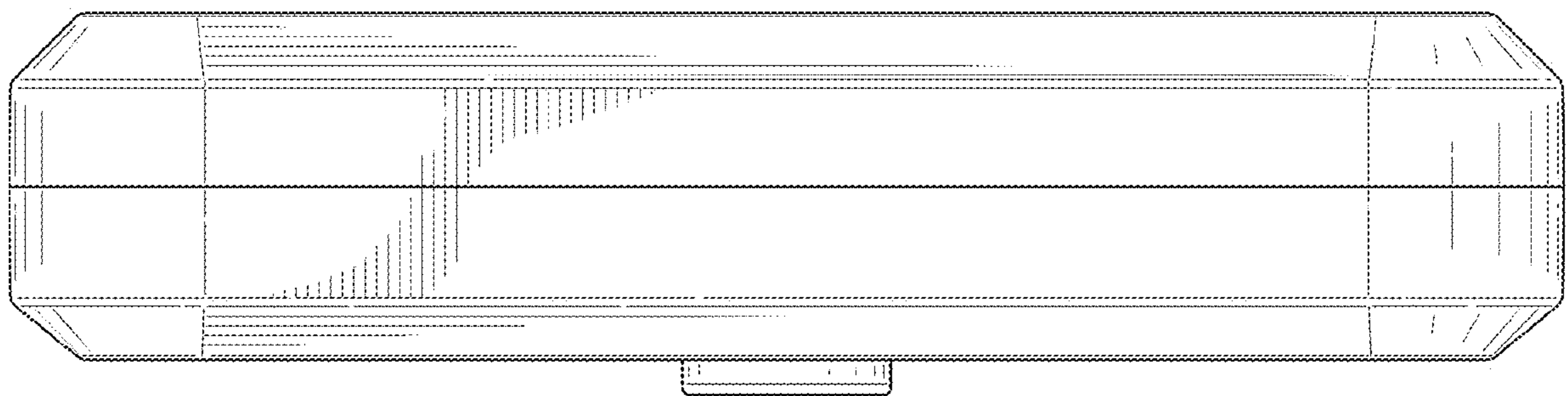


FIG. 10

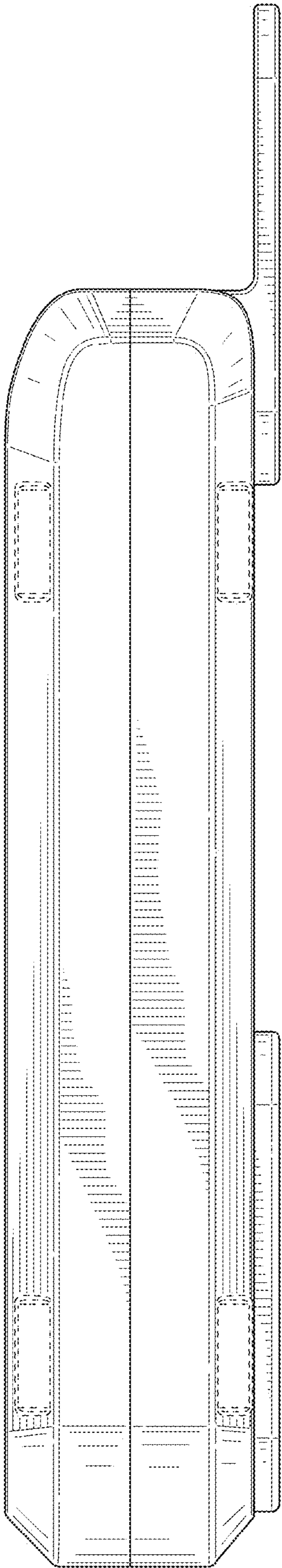


FIG. 11

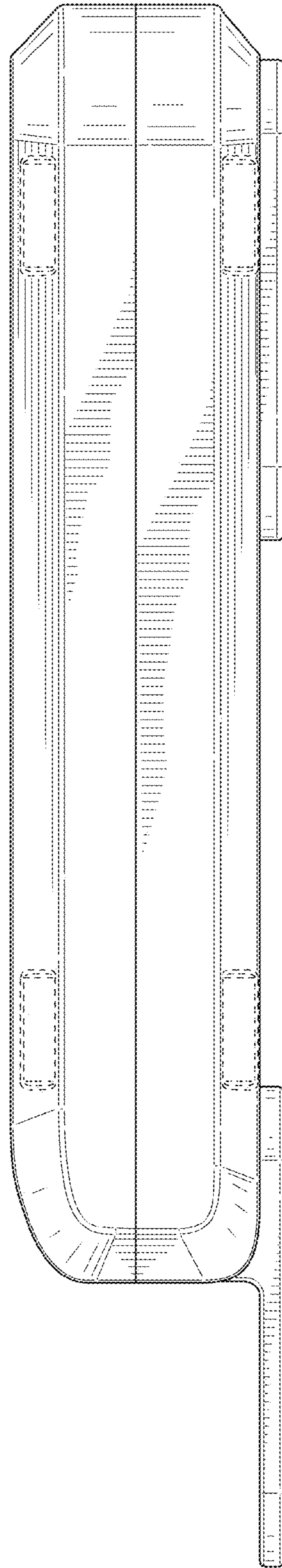


FIG. 12

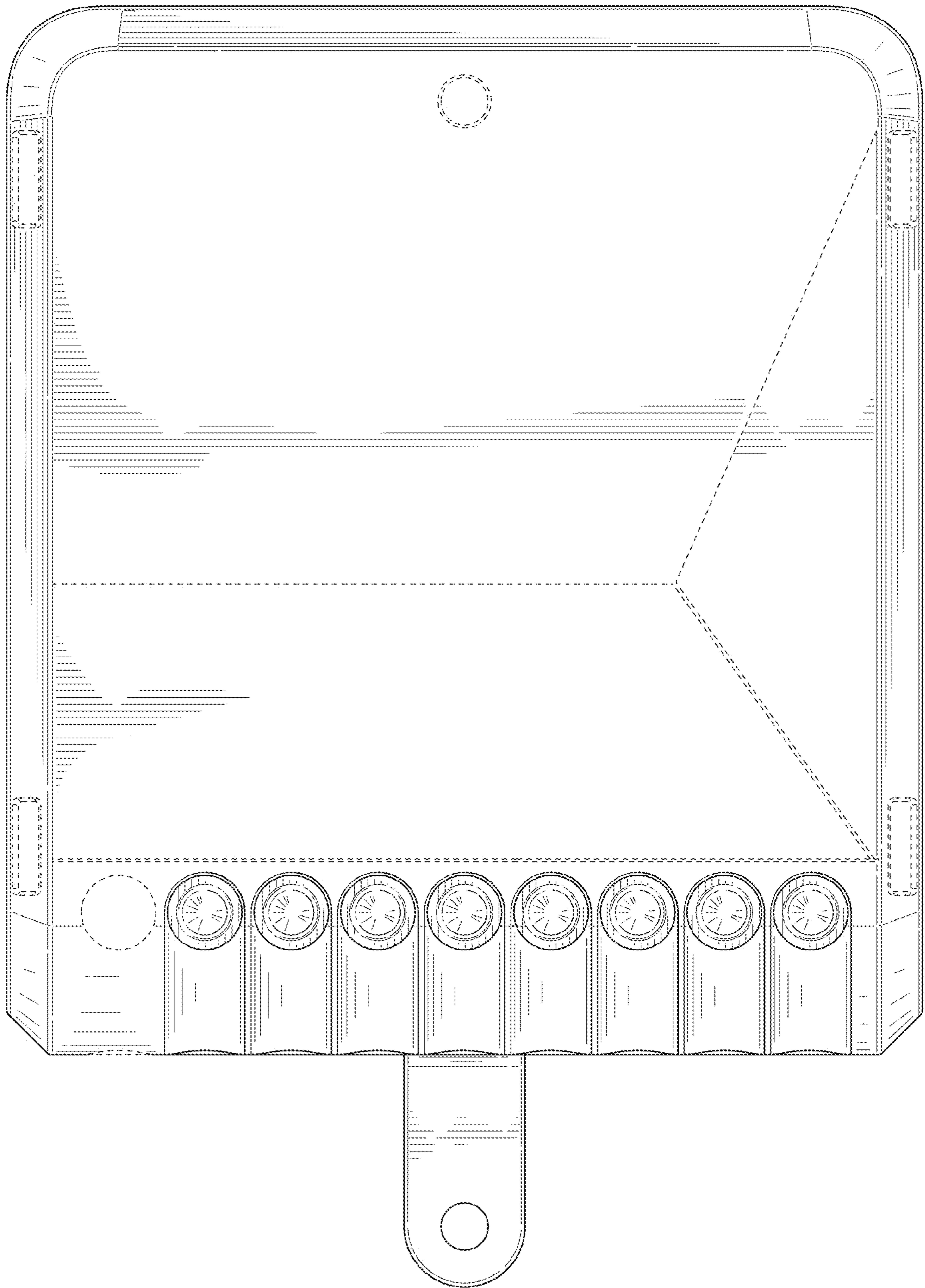


FIG. 13

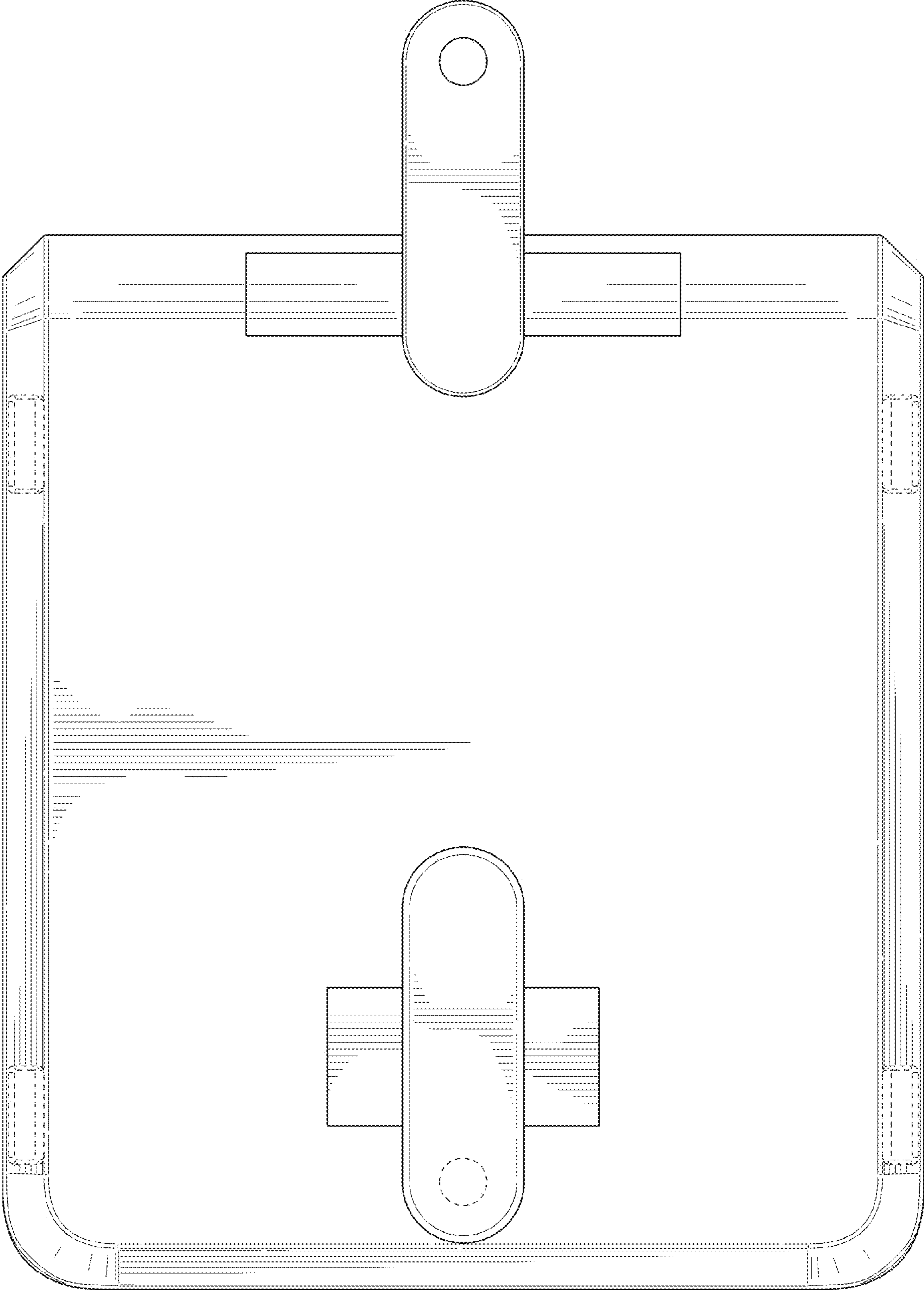


FIG. 14

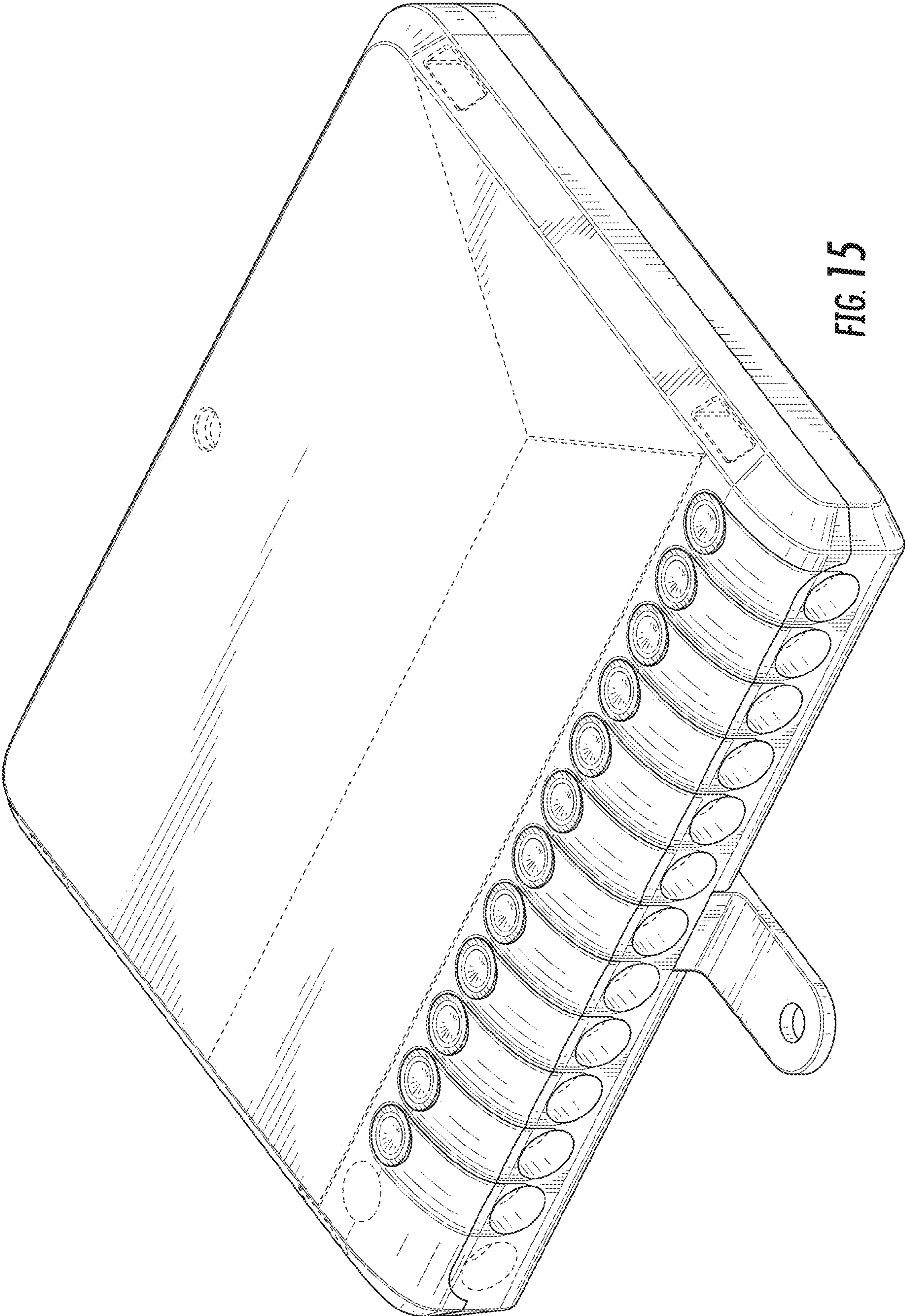


FIG. 15

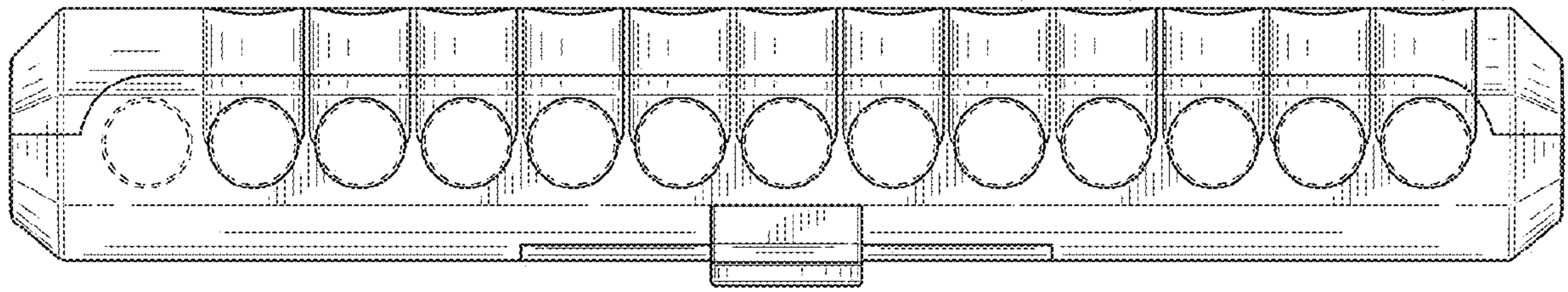


FIG. 16

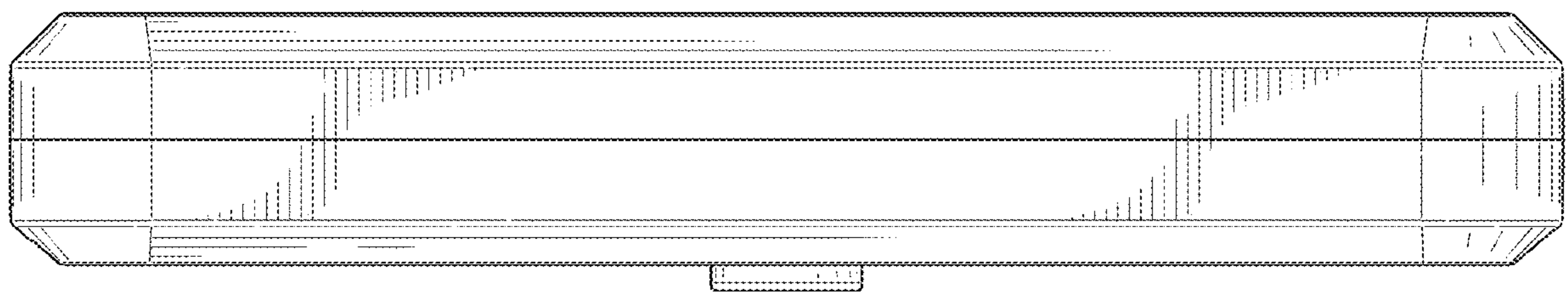


FIG. 17

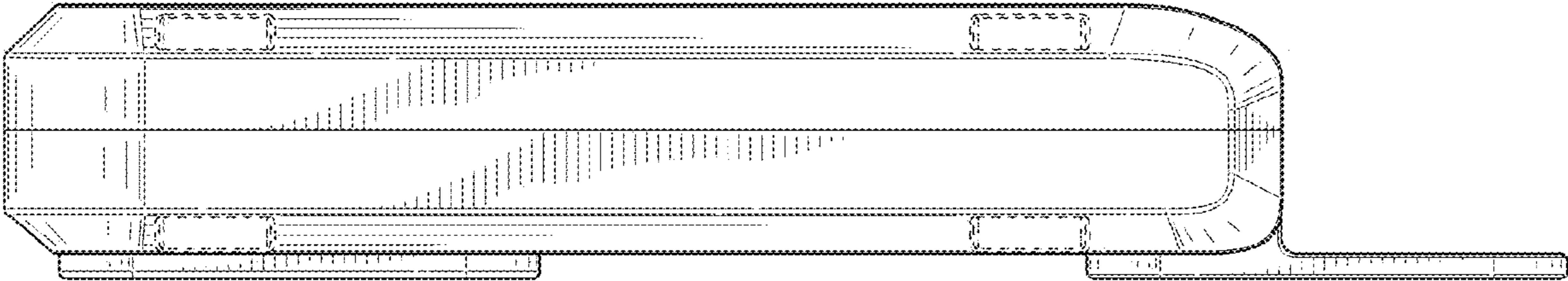


FIG. 18

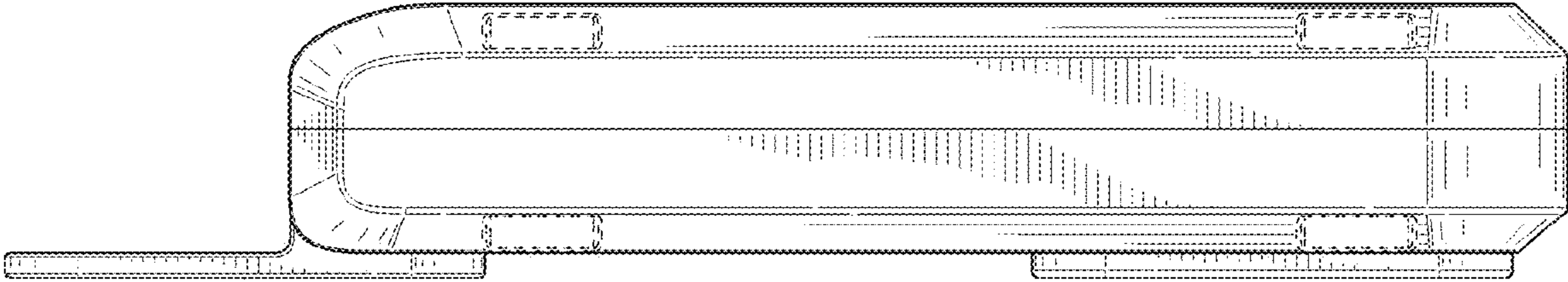


FIG. 19

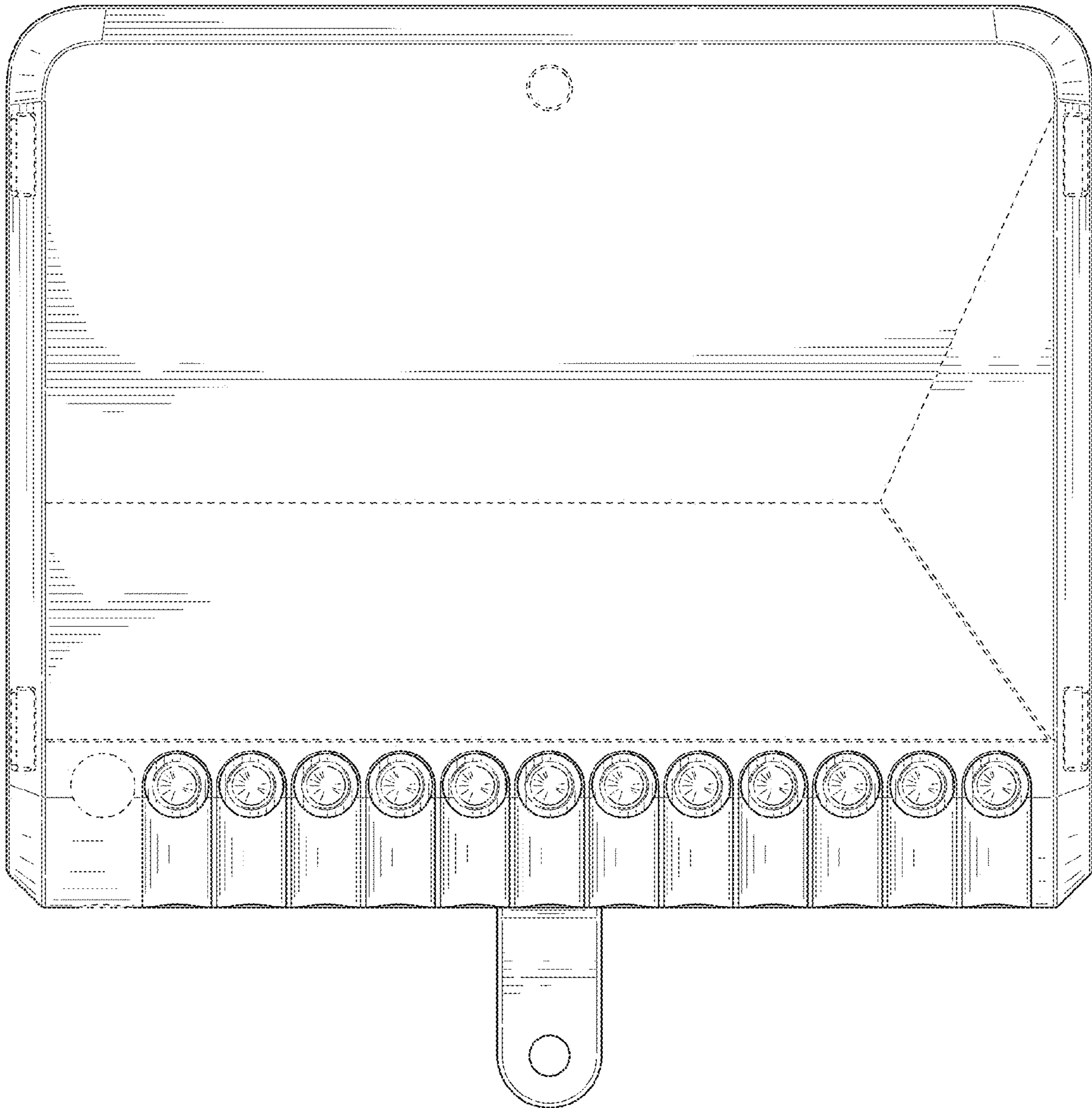


FIG. 20

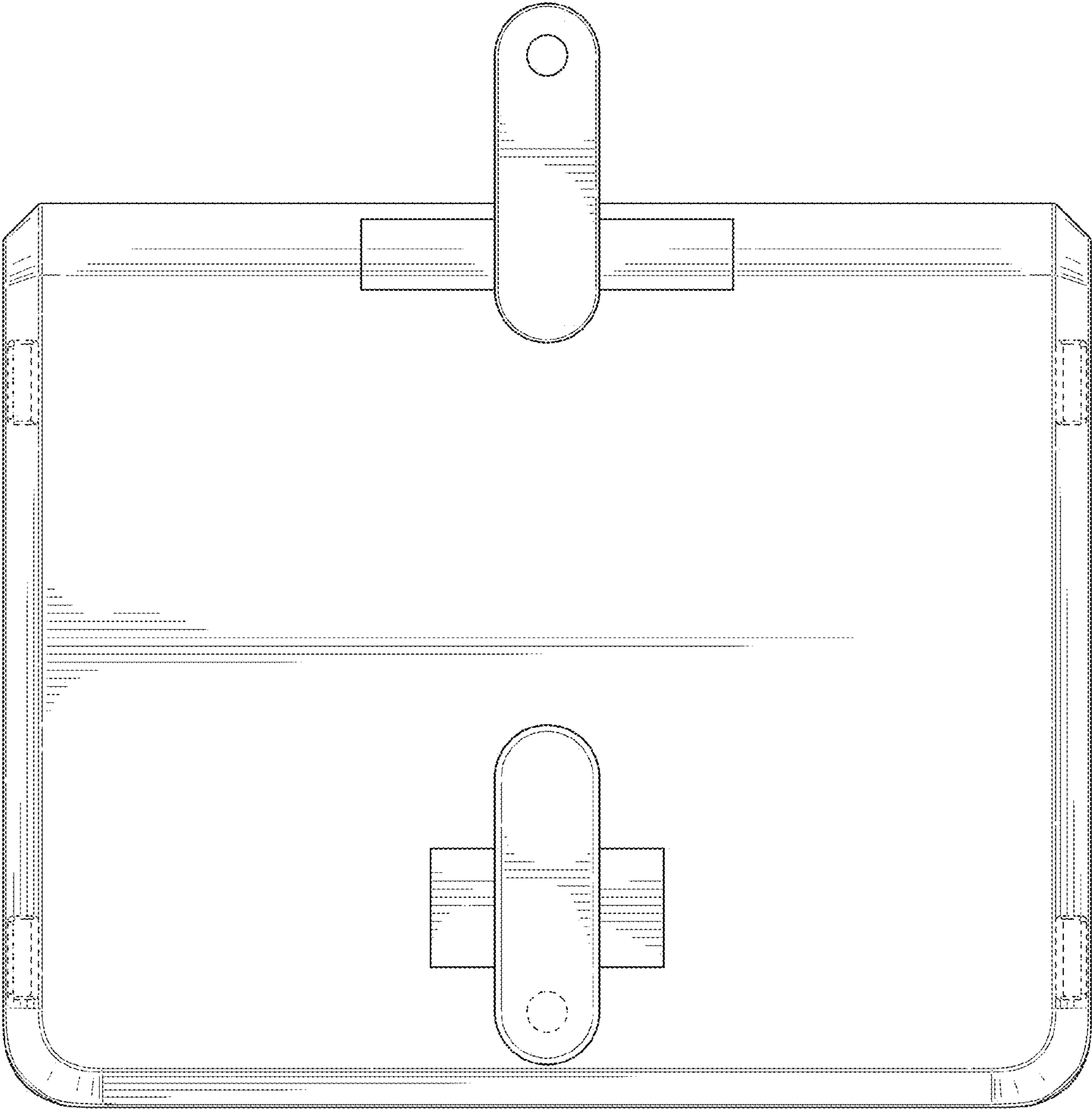


FIG. 21