



US00D958679S

(12) **United States Design Patent** (10) **Patent No.:** **US D958,679 S**  
**Son** (45) **Date of Patent:** **\*\* Jul. 26, 2022**

(54) **PH METER**  
(71) Applicant: **HM DIGITAL LTD.**, Seoul (KR)  
(72) Inventor: **Yun-Ho Son**, Seoul (KR)  
(73) Assignee: **HM DIGITAL LTD.**, Seoul (KR)  
(\*\*) Term: **15 Years**

D906,143 S \* 12/2020 Amamiya ..... D24/140  
(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 303133-0001 \* 3/2018  
CN 2018300626283 8/2018  
(Continued)

(21) Appl. No.: **29/728,963**  
(22) Filed: **Mar. 23, 2020**  
(51) **LOC (13) Cl.** ..... **10-04**  
(52) **U.S. Cl.**  
USPC ..... **D10/81**  
(58) **Field of Classification Search**  
USPC ..... D10/81-86, 94-103; D24/216, 185, 232  
CPC ..... G01R 27/22; G01R 27/07; G01R 27/06;  
G01R 27/08; G01N 33/1886; G01N  
33/24; G01N 27/02; G01N 27/06; G01N  
27/00; G01N 27/4166; G01N 27/07;  
G01N 27/283; G01N 27/403; G01N  
27/28; Y10T 137/1963; G04F 10/00  
See application file for complete search history.

**OTHER PUBLICATIONS**

HM Digital, PH-80 pH Meter, Date first available May 14, 2015,  
[online]retrieved Nov. 15, 2021, available from [https://www.amazon.com/HM-Digital-Waterproof-Tester-HydroTester/dp/B078XJQ6HM/ref=sr\\_1\\_3?keywords=h-80%3A+ph+hydro+tester+series&qid=1636998047&qsid=134-5564337-2927451&sr=8-3&sres=B08HLXBBK4%2CB0](https://www.amazon.com/HM-Digital-Waterproof-Tester-HydroTester/dp/B078XJQ6HM/ref=sr_1_3?keywords=h-80%3A+ph+hydro+tester+series&qid=1636998047&qsid=134-5564337-2927451&sr=8-3&sres=B08HLXBBK4%2CB0) (Year: 2015).  
(Continued)

*Primary Examiner* — Keli L Hill  
*Assistant Examiner* — Sara S Sahneh  
(74) *Attorney, Agent, or Firm* — Polsinelli LLP

(57) **CLAIM**

I claim the ornamental design for a PH meter, as shown and described.

(56) **References Cited**

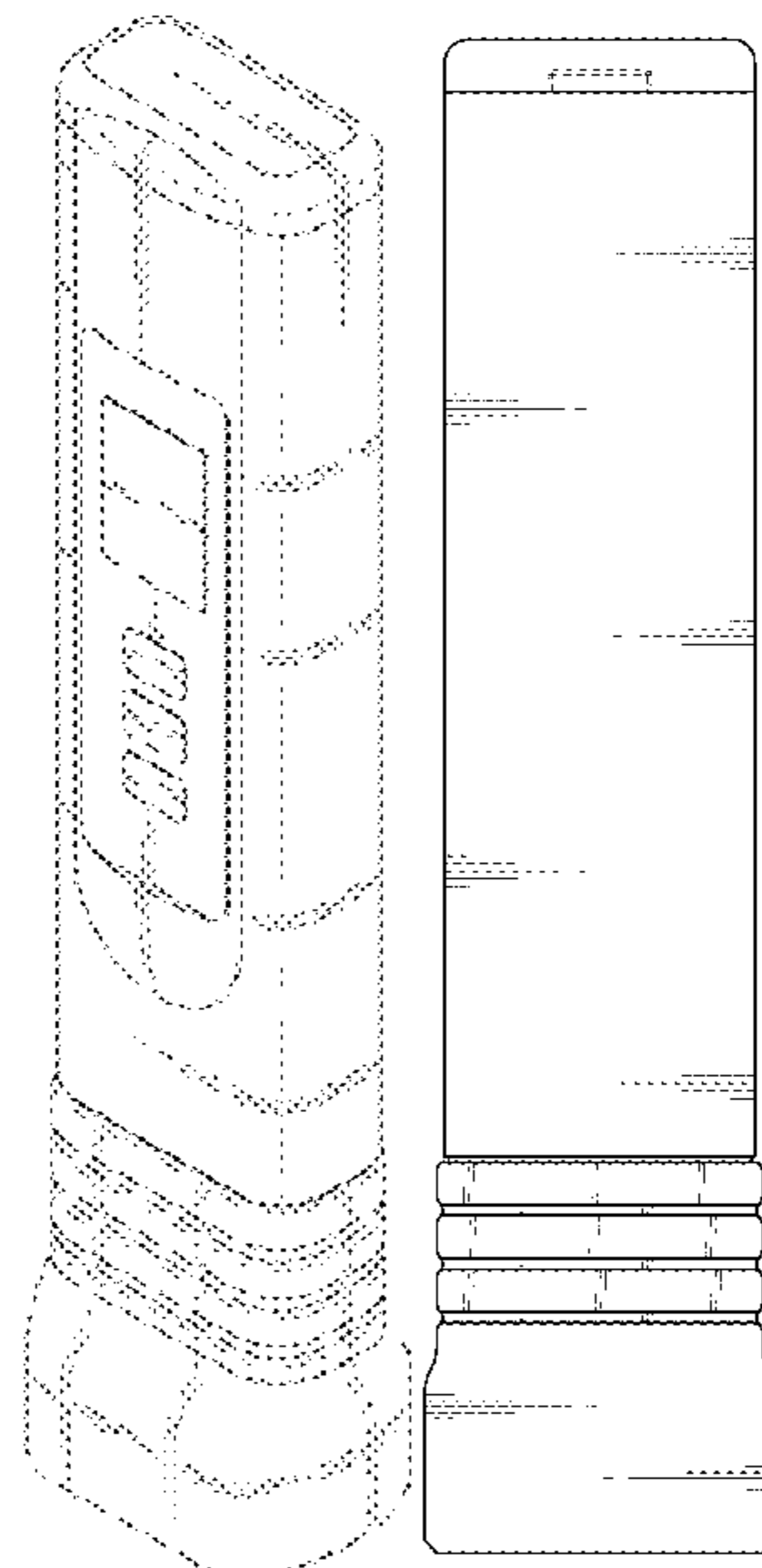
**DESCRIPTION**

**U.S. PATENT DOCUMENTS**

D360,840 S \* 8/1995 Brockway ..... D10/78  
D453,905 S \* 2/2002 Cheng ..... D10/81  
D462,024 S \* 8/2002 Nardo ..... D10/62  
D520,888 S \* 5/2006 Sydlowski ..... D10/81  
D602,384 S \* 10/2009 Samborn ..... D10/81  
D608,670 S \* 1/2010 Samborn ..... D10/81  
D681,487 S \* 5/2013 Lee ..... D10/81  
D692,335 S \* 10/2013 Waaler ..... D10/81  
D732,411 S \* 6/2015 Waaler ..... D10/81  
9,435,760 B2 \* 9/2016 Wan ..... G01N 27/07  
D788,623 S \* 6/2017 Amamiya ..... D10/103  
D876,258 S \* 2/2020 Rabasco ..... D10/81

FIG. 1 is a perspective view of a PH meter, showing my new design;  
FIG. 2 is a front elevational view thereof;  
FIG. 3 is a rear elevational view thereof;  
FIG. 4 is a left side elevational view thereof;  
FIG. 5 is a right side elevational 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 depict portions of the PH meter that form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

OTHER PUBLICATIONS

U.S. PATENT DOCUMENTS

D935,923 S \* 11/2021 Liu ..... D10/78  
 2009/0246083 A1 \* 10/2009 Samborn ..... G01N 27/06  
 422/82.02  
 2011/0140704 A1 \* 6/2011 Son ..... G01N 27/06  
 324/441  
 2012/0286761 A1 \* 11/2012 Cheng ..... G01N 27/286  
 324/71.1  
 2013/0330245 A1 \* 12/2013 Duncan ..... B01L 3/502715  
 422/502  
 2015/0226721 A1 \* 8/2015 Son ..... G01N 33/18  
 324/694  
 2017/0108457 A1 \* 4/2017 Son ..... G01R 27/22

FOREIGN PATENT DOCUMENTS

CN 305826959 \* 12/2019  
 CN 306202591 \* 7/2020  
 CN 306283674 \* 8/2020  
 CN 306685947 \* 3/2021  
 CN 306869367 \* 6/2021  
 GB 6139413 \* 5/2021

Allprettyall Store,Digital PH Meter, Date first available Sep. 1, 2020, [online]retrieved Nov. 15, 2021,available from [https://www.amazon.com/dp/B08GX8TQH7/ref=sspa\\_dk\\_detail\\_1?psc=1&pd\\_rd\\_w=C3FQY&pf\\_rd\\_p=54ed5474-54a8-4c7f-a88a-45f748d18166&pd\\_rd\\_wg=UM34D&pf\\_rd\\_r=XJD75D6T229FH67VRY8V&pd\\_rd\\_r=f83be92](https://www.amazon.com/dp/B08GX8TQH7/ref=sspa_dk_detail_1?psc=1&pd_rd_w=C3FQY&pf_rd_p=54ed5474-54a8-4c7f-a88a-45f748d18166&pd_rd_wg=UM34D&pf_rd_r=XJD75D6T229FH67VRY8V&pd_rd_r=f83be92) (Year: 2020).\*

HORIBA Store,LAQUAtwin No. 3-11 Compact Nitrate Ion Meter, Date first available Oct. 26, 2017, [online]retrieved Nov. 15, 2021, available from <https://www.amazon.com/HORIBA-LAQUAtwin-3200689162-Comp> (Year: 2017).\*

KOMITASUI Store,TDS Meter, Water Quality Tester Filter Pen,Date first available Apr. 9, 2019, [online]retrieved Nov. 15, 2021,available from [https://www.amazon.com/dp/B07QDRWSWS/ref=sspa\\_dk\\_detail\\_5?psc=1&pd\\_rd\\_w=PUM6T&pf\\_rd\\_p=9fd3ea7c-b77c-42ac-b43b-c872d3f37c38&pd\\_rd\\_wg=rsKqO&pf\\_rd\\_r=4VGNNM57JZ11N42X2](https://www.amazon.com/dp/B07QDRWSWS/ref=sspa_dk_detail_5?psc=1&pd_rd_w=PUM6T&pf_rd_p=9fd3ea7c-b77c-42ac-b43b-c872d3f37c38&pd_rd_wg=rsKqO&pf_rd_r=4VGNNM57JZ11N42X2) (Year: 2019).\*

\* cited by examiner

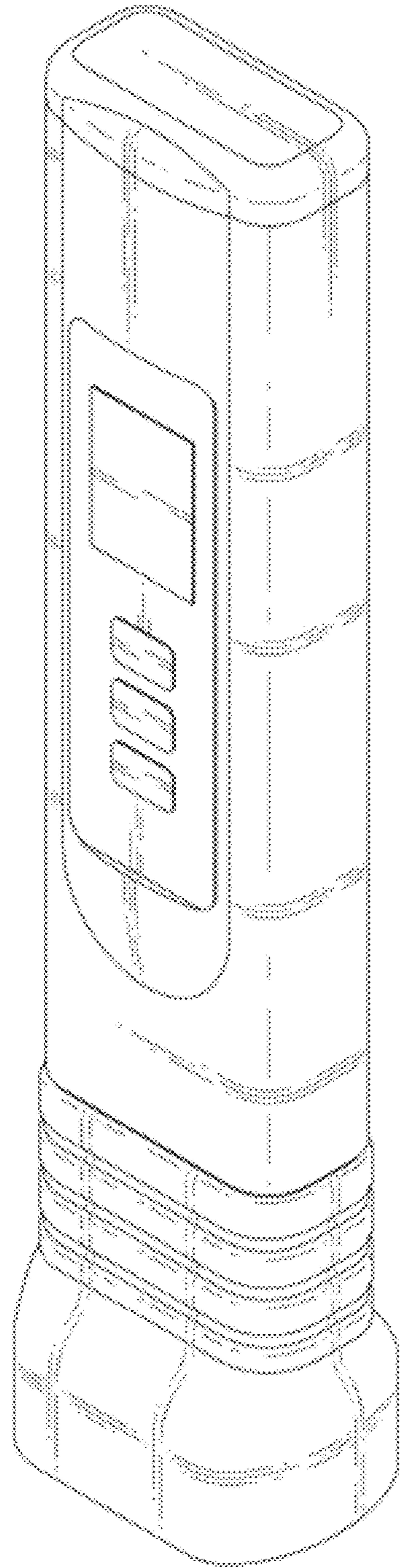


FIG. 1

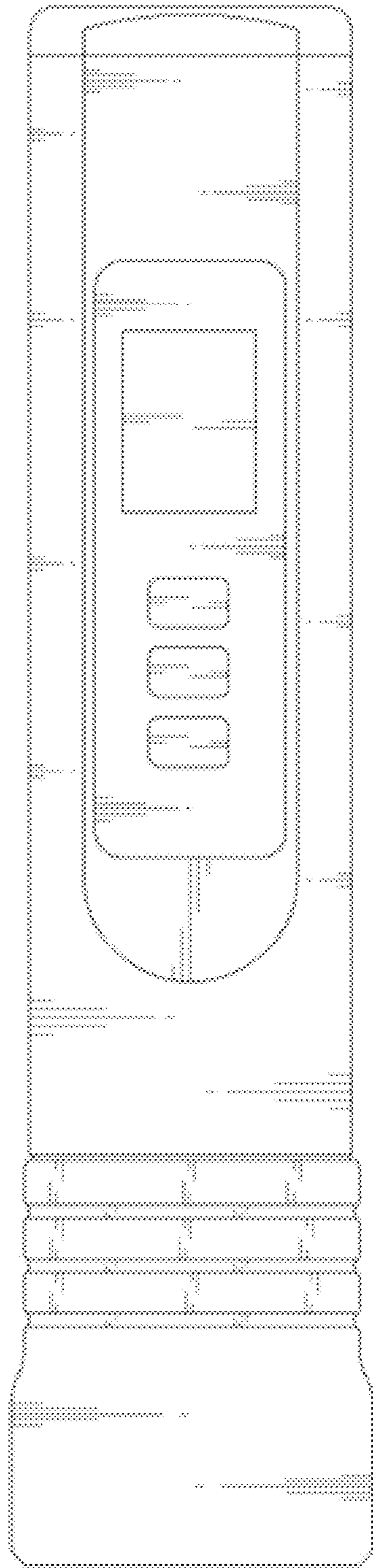


FIG. 2

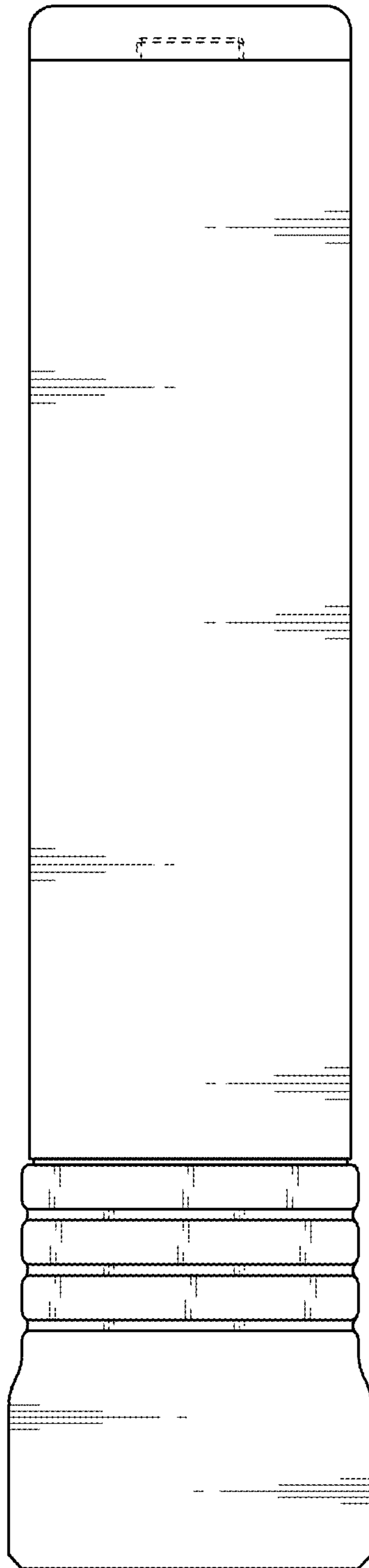


FIG. 3



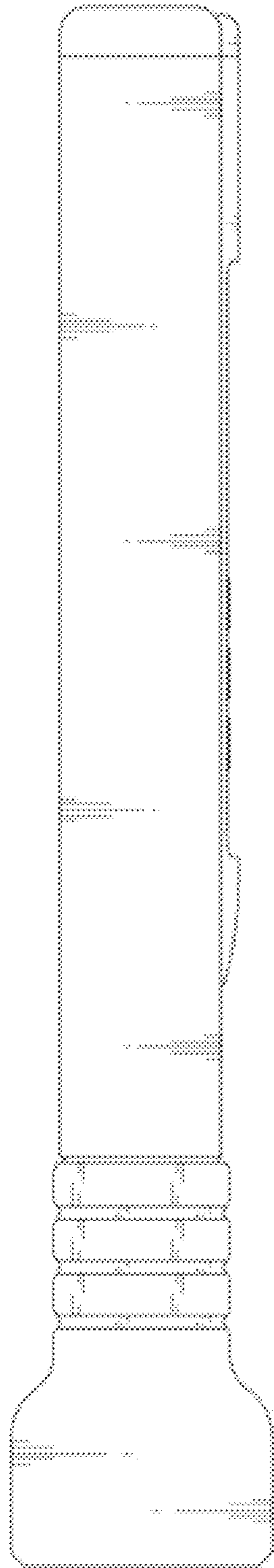


FIG. 4

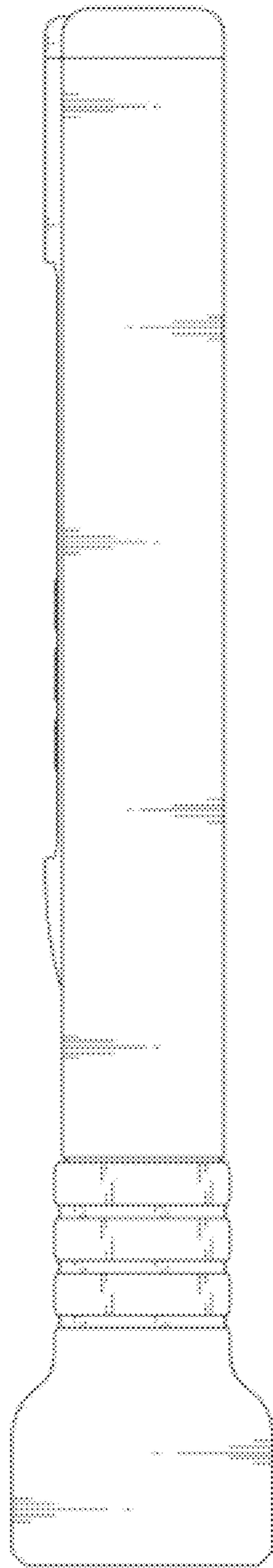


FIG. 5

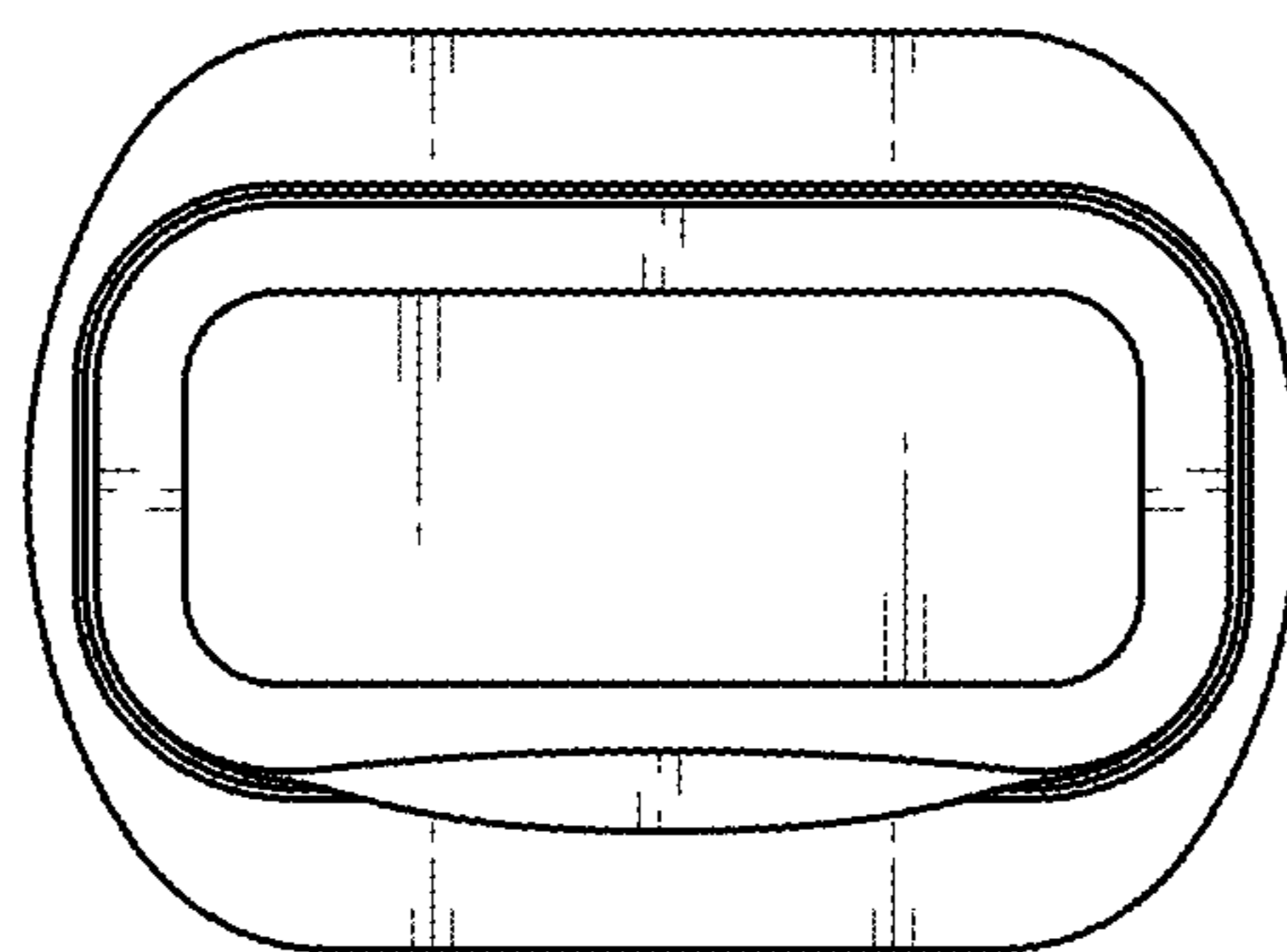


FIG. 6

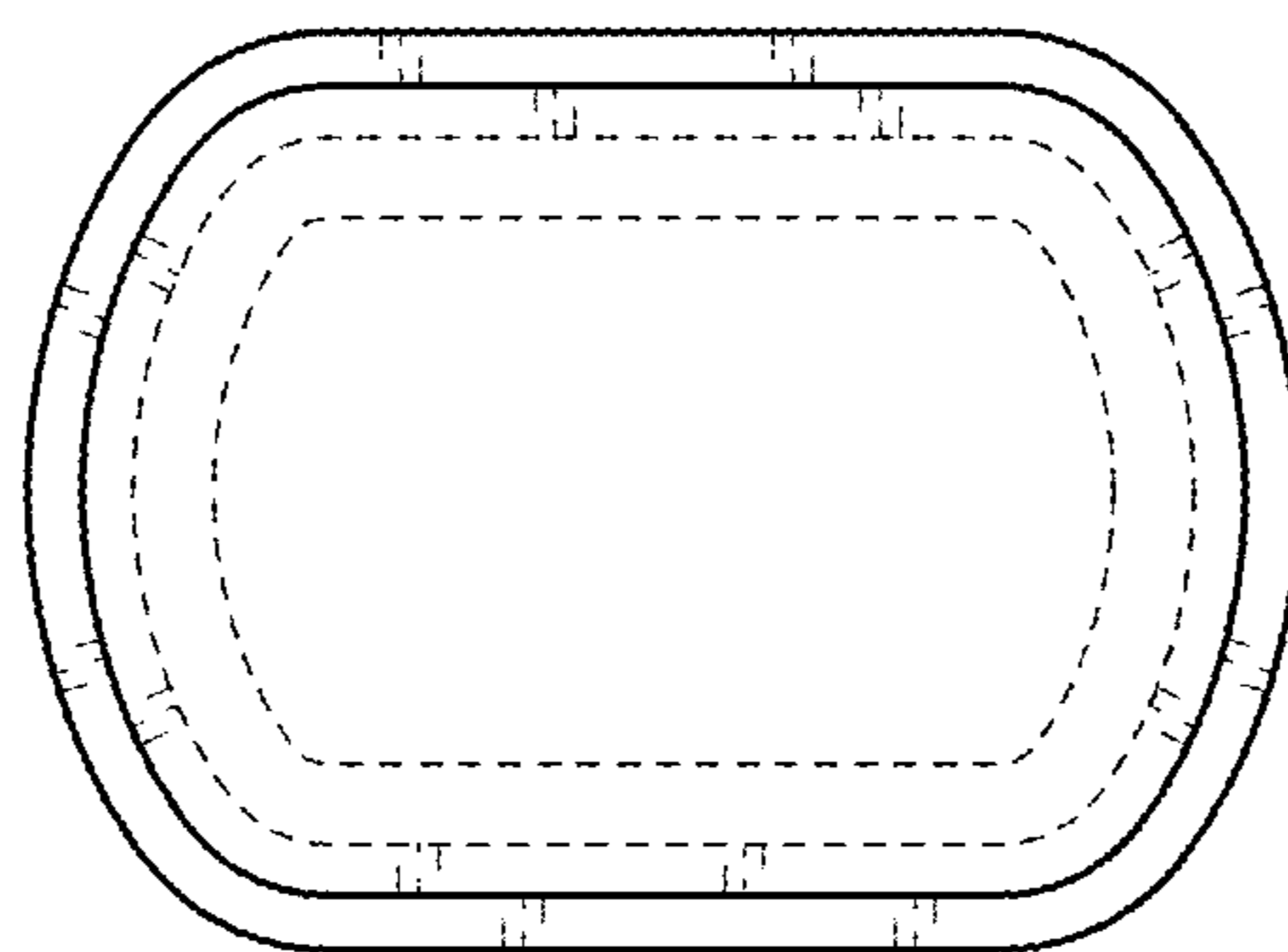


FIG. 7