US00D923500S

# (12) United States Design Patent
**Jiang**

(10) **Patent No.: US D923,500 S**

(45) **Date of Patent: ** Jun. 29, 2021**

---

(54) **MULTIMETER**

(71) Applicant: **ShenZhen AIMOmeter Co., Ltd.**, Shenzhen (CN)

(72) Inventor: **Chuang Jiang**, Shenzhen (CN)

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

(21) Appl. No.: **29/719,801**

(22) Filed: **Jan. 8, 2020**

(51) **LOC (13) Cl.** ............................................. **10-05**

(52) **U.S. Cl.**
USPC ........................................................ **D10/78**

(58) **Field of Classification Search**
USPC .............. D10/46, 61, 70–80, 52, 53, 65, 69; 324/114, 127, 126, 149, 115, 508, 133, 324/156, 556, 555, 72.5
CPC ........ G01R 15/186; G01R 15/18; G01R 1/00; G01R 1/22; G01R 1/20; G01R 31/041; G01R 31/67; G01R 31/50; G01R 31/04; G01R 31/02; G01R 31/52; G01R 31/54; G01R 19/145; G01R 31/69; G01R 1/06788; G01R 31/024; G01R 15/125; G01R 1/04; G01R 19/2509; G01R 13/02; G01R 1/025; G01D 18/008; G01D 11/24; G01K 15/005; H04L 67/303; H04L 67/12; G05B 19/0426; G05B 2219/25428; G08C 17/02; H04B 10/11; H04B 10/114; G01C 15/004; G01C 15/00; G01C 15/002; G01C 15/06; G01B 11/26; G02B 7/001; Y10T 29/49826; H04Q 2209/40
See application file for complete search history.

## (56) References Cited

### U.S. PATENT DOCUMENTS

| | | | | | |
|---|---|---|---|---|---|
| D460,923 | S | * | 7/2002 | Chen | D10/52 |
| D551,997 | S | * | 10/2007 | Kesler | D10/78 |
| D695,394 | S | * | 12/2013 | Takemoto | D24/113 |
| D695,395 | S | * | 12/2013 | Tani | D24/113 |
| D721,605 | S | * | 1/2015 | Sallander | D10/78 |
| D771,244 | S | * | 11/2016 | Takemoto | D24/113 |
| 9,698,609 | B2 | * | 7/2017 | Gilbert | G01R 15/186 |
| D820,128 | S | * | 6/2018 | Wong | D10/78 |
| D883,114 | S | * | 5/2020 | Nordahl | D10/81 |

(Continued)

### FOREIGN PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| CN | 3510976 | * | 5/2005 |
| CN | 301793673 | * | 6/2011 |

(Continued)

### OTHER PUBLICATIONS

BSIDE, EBTN LCD Multimeter, Date first available Nov. 19, 2020, [online]retrieved Feb. 24, 2021,available from https://www.amazon.com/BSIDE-Multimeter-Auto-Ranging-Resistance-Continuity/dp/B08JHQ5NGT/ref=sr_1_24?dchild=1&keywords=Three-mode+voltage+detection+multimeter&qid=1614129278&sr=8-24 (Year: 2020).*

(Continued)

*Primary Examiner* — Keli L Hill
*Assistant Examiner* — Sara S Sahneh

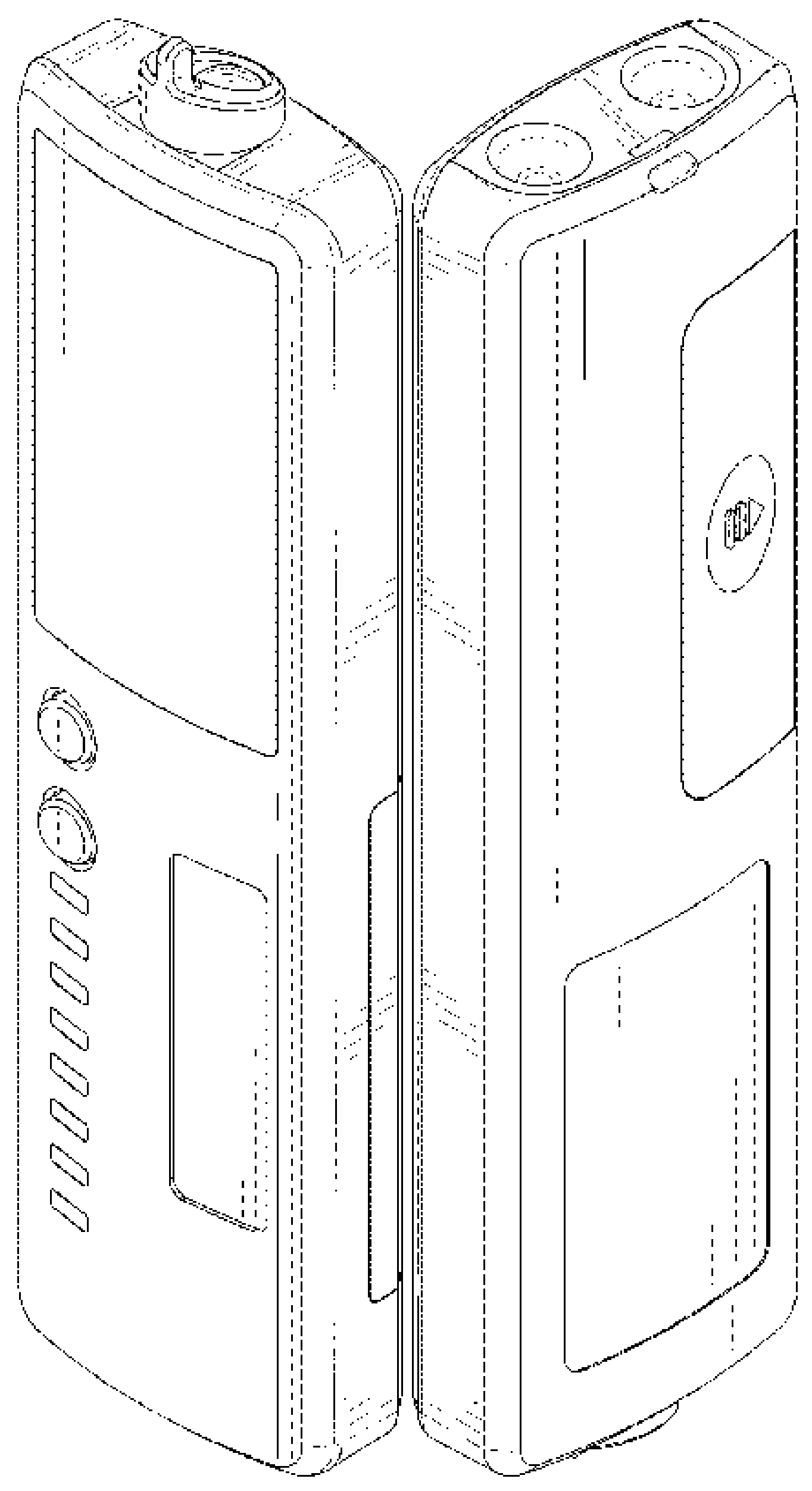
## (57) CLAIM

The ornamental design for a multimeter, as shown and described.

## DESCRIPTION

FIG. **1** is a front and top perspective view of a multimeter, showing my new design;
FIG. **2** is a rear and bottom perspective view thereof;
FIG. **3** is a front elevational view thereof;
FIG. **4** is a rear elevational view thereof;
FIG. **5** is a left side elevational view thereof;
FIG. **6** is a right side elevational view thereof;
FIG. **7** is a top plan view thereof; and,
FIG. **8** is a bottom plan view thereof.
The broken lines in the figures illustrate portions of the multimeter that form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



## (56) References Cited

### U.S. PATENT DOCUMENTS

| | | | | |
|---|---|---|---|---|
| 2002/0135349 | A1* | 9/2002 | Steber | G01R 1/06788<br>324/72.5 |
| 2011/0012589 | A1* | 1/2011 | Greenberg | G01R 15/186<br>324/127 |
| 2011/0156696 | A1* | 6/2011 | Cheek | G01R 19/2503<br>324/115 |
| 2016/0084879 | A1* | 3/2016 | Luo | G01R 1/0416<br>324/127 |

### FOREIGN PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| CN | 303231458 | * | 3/2015 |
| CN | 304868618 | * | 3/2018 |
| CN | 305609208 | * | 8/2019 |
| EM | 001617044-0002 | * | 9/2009 |
| KR | 300389703.0000 | * | 12/2004 |

### OTHER PUBLICATIONS

BSIDE, Voltage Tester, Date first available Jan. 18, 2021, [online]retrieved Feb. 24, 2021,available from https://www.amazon.com/BSIDE-Non-contact-Adjustable-Sensitivity-Breakpoint/dp/B08T9NJD4L/ref=pd_di_sccai_6?pd_rd_w=AA35J&pf_rd_p=c9443270-b914-4430-a90b-72e3e7e784e0&pf_rd_r=TPDT6ZD7YW9XYMBSBR73&pd_rd_r(Year: 2021).*

BSIDE, Electricians Digital Multimeter, Date first available Aug. 14, 2019, [online]retrieved Feb. 24, 2021,available from https://www.amazon.com/Multimeter-Auto-Ranging-Resistance-Frequency-Continuity/dp/B07WGPLHTD/ref=pd_di_sccai_8?pd_rd_w=wPzgF&pf_rd_p=c9443270-b914-4430-a90b-72e3e7e784e0&pf_rd_r=KW05BW (Year: 2019).*

* cited by examiner

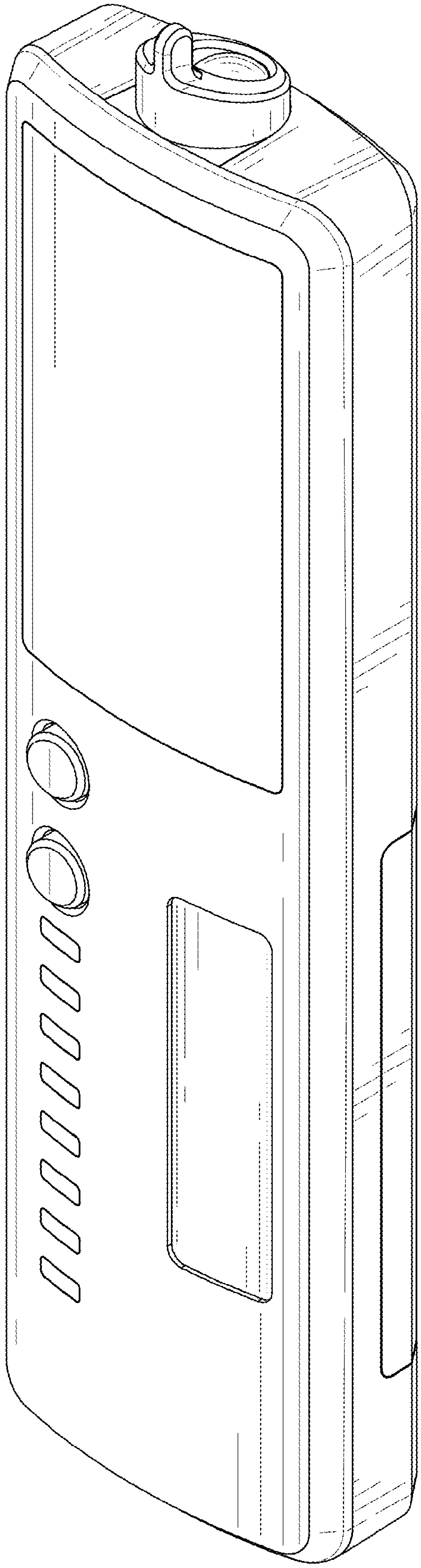


FIG. 1

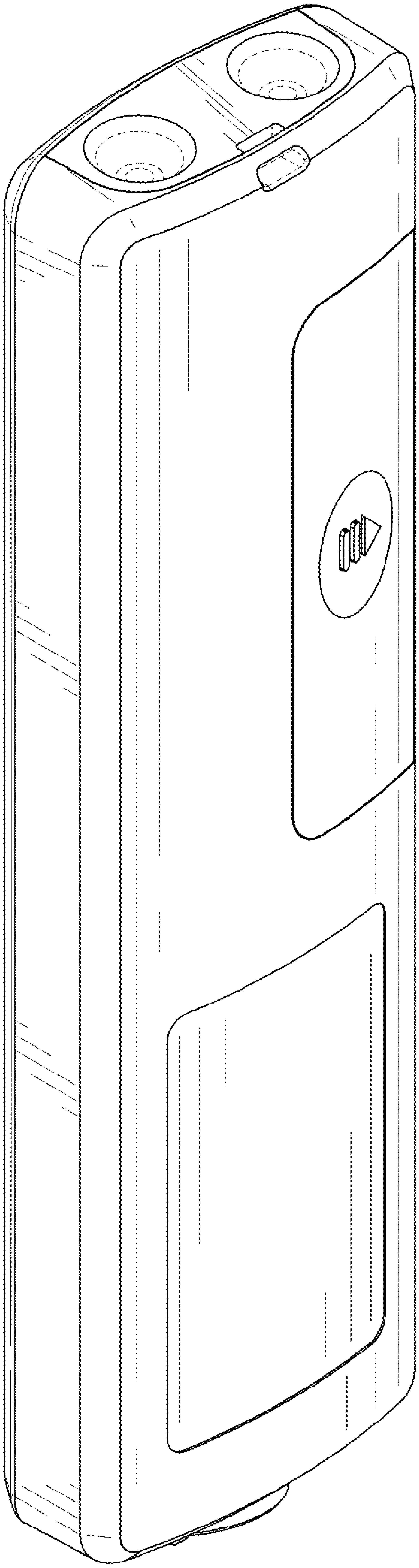


FIG. 2

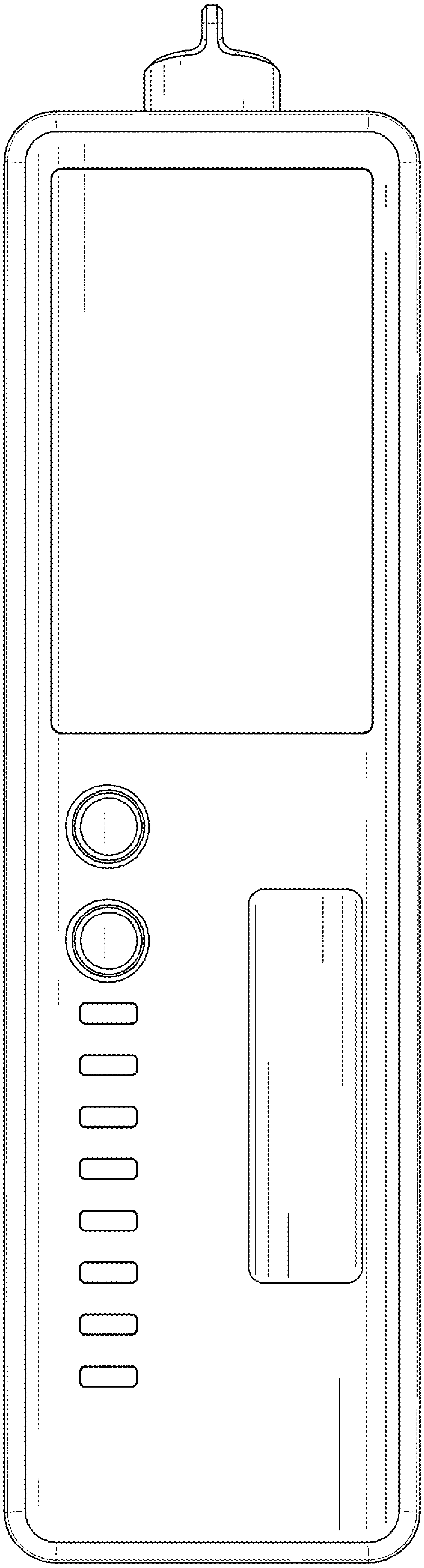


FIG. 3

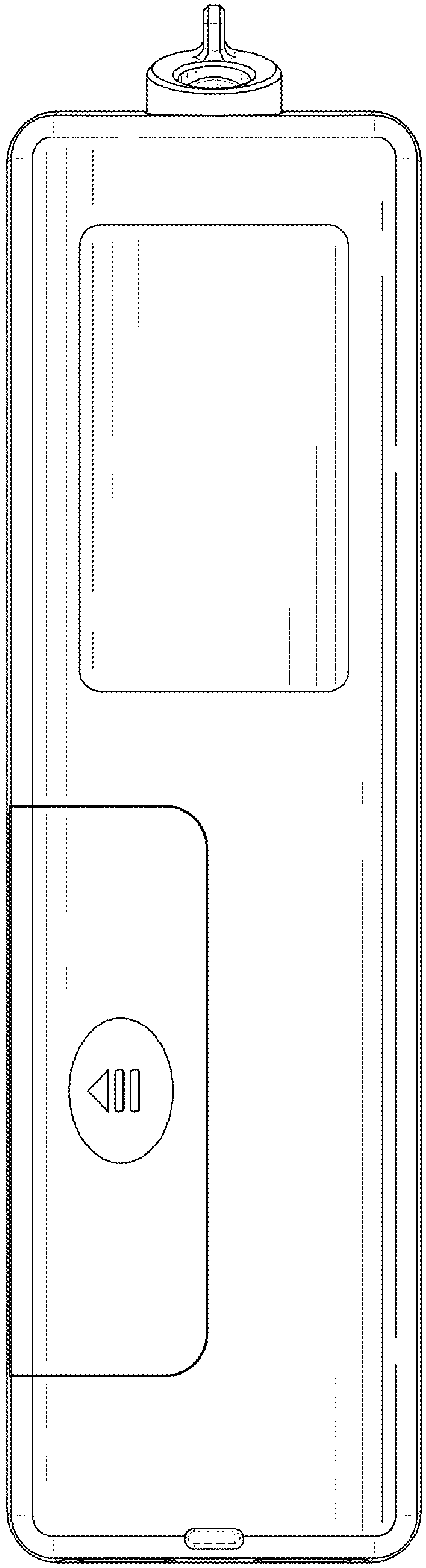


FIG. 4

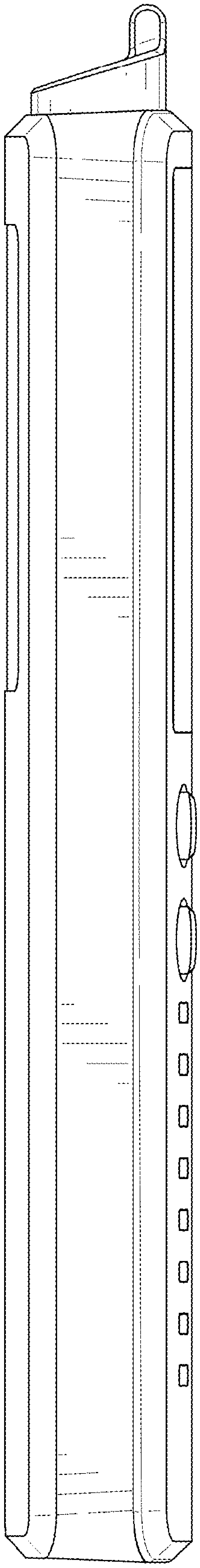


FIG. 5

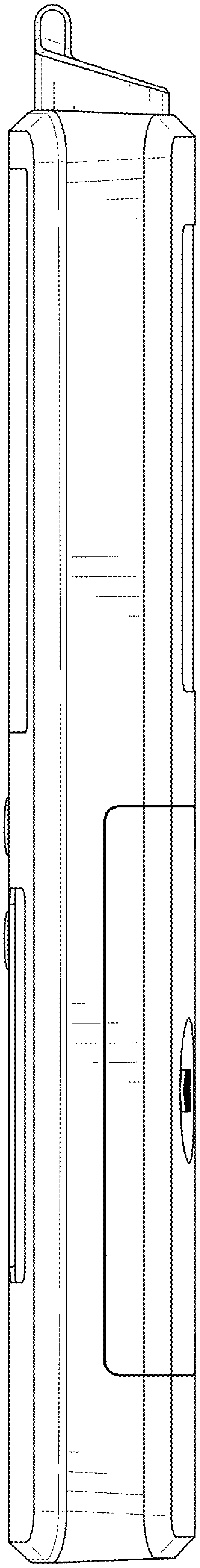


FIG. 6

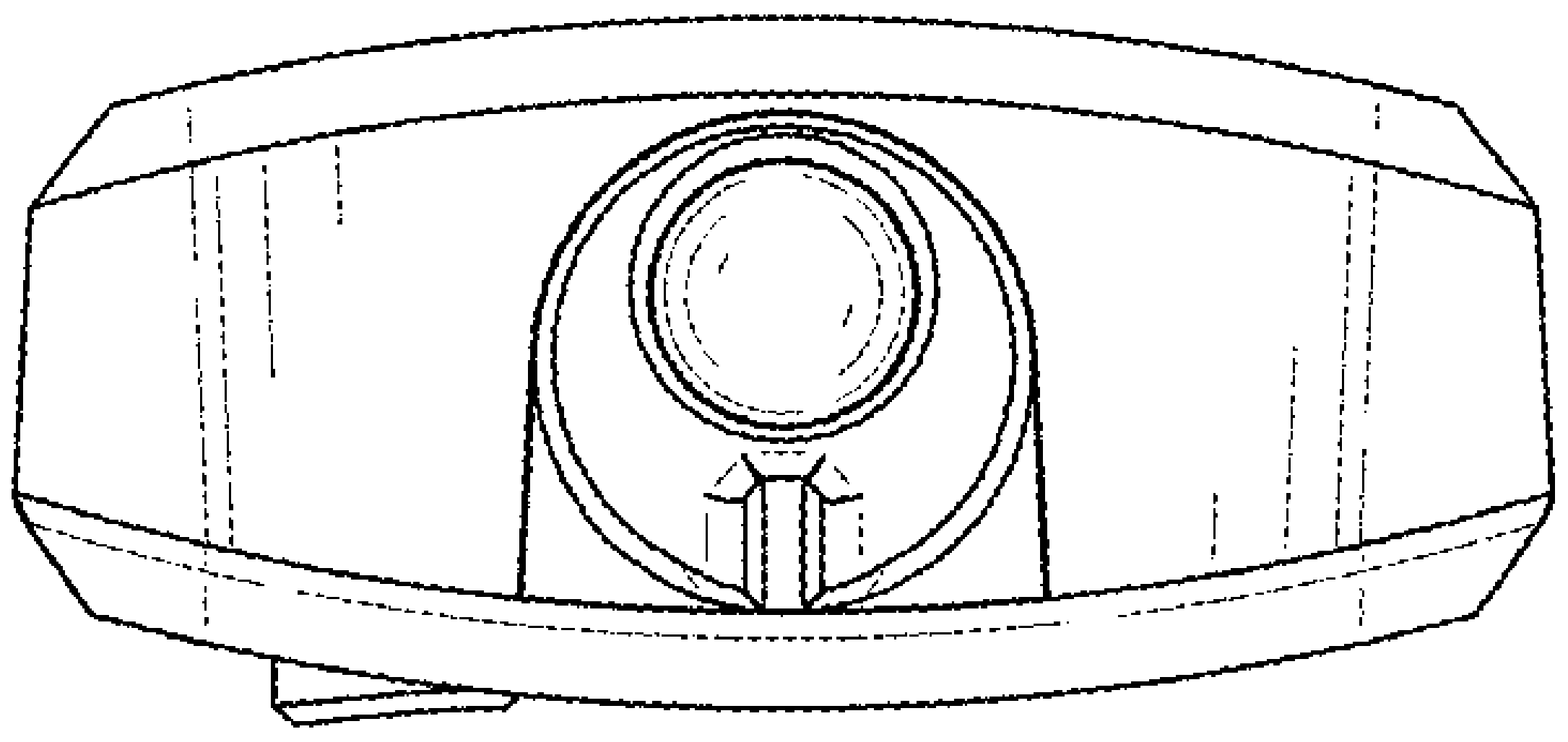


FIG. 7

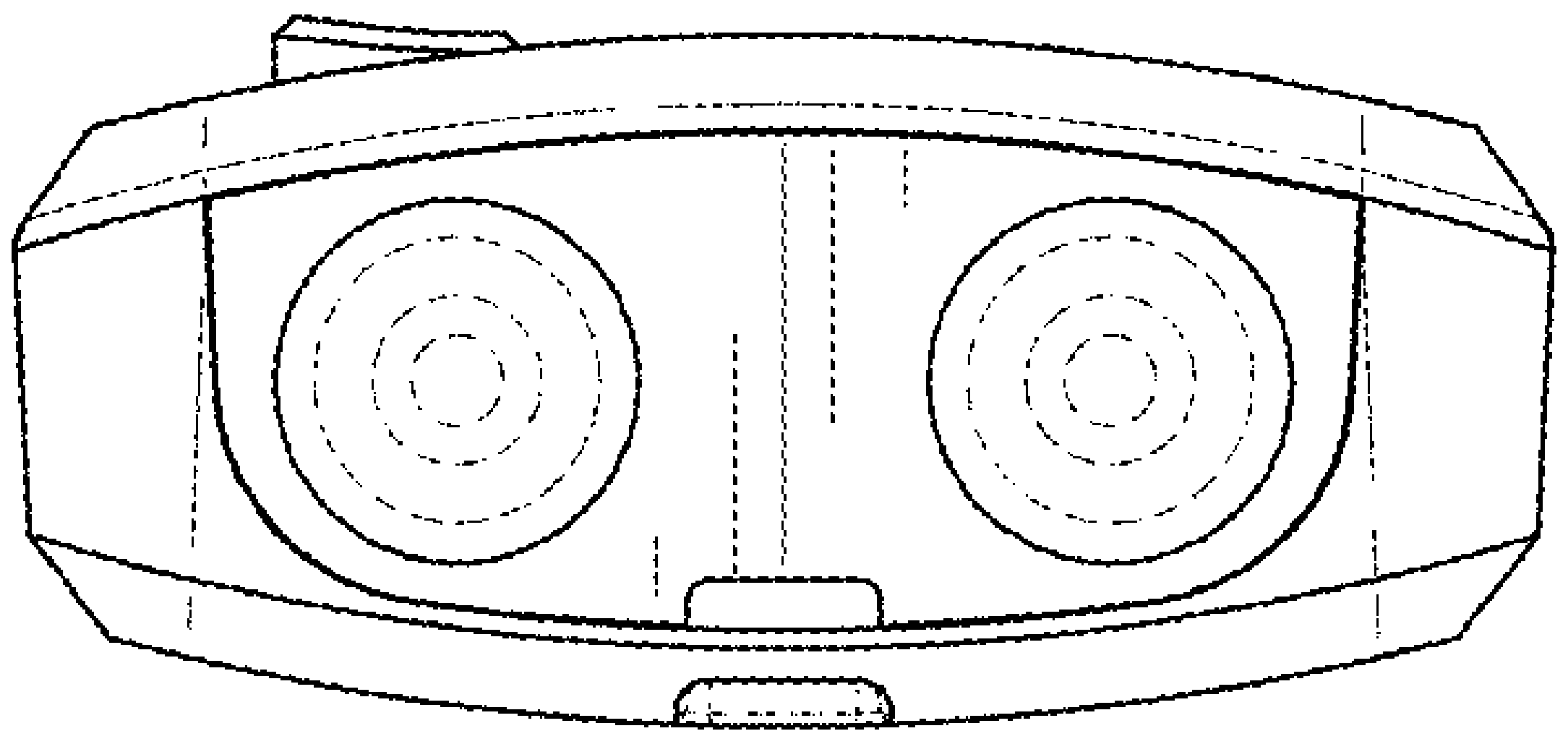


FIG. 8