US00D962804S

(12) United States Design Patent

Li et al.

(10) Patent No.: US D962,804 S
(45) Date of Patent: ** Sep. 6, 2022

(54) **WATER QUALITY DETECTOR**

(71) Applicant: **SHENZHEN YIMU TECHNOLOGY CO., LTD.**, Shenzhen (CN)

(72) Inventors: **Zhiqiang Li**, Shenzhen (CN); **Hao Zhong**, Beijing (CN)

(73) Assignee: **SHENZHEN YIMU TECHNOLOGY CO., LTD.**, Shen Zhen (CN)

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

(21) Appl. No.: **29/733,070**

(22) Filed: **Apr. 29, 2020**

(30) **Foreign Application Priority Data**

Dec. 2, 2019 (CN) 20193066869.9

(51) **LOC (13) Cl.** **10-04**

(52) **U.S. Cl.**
USPC **D10/84**

(58) **Field of Classification Search**
USPC D10/75, 81, 70, 77, 78; D24/233, 231, D24/216; D14/137
CPC G01N 33/18; G01N 21/33; G01N 21/59; G01N 21/85; G01N 33/1826; G01N 21/51; G01N 2021/8571; G01N 2201/062; B01D 29/60; B01D 35/143; B01D 29/96; C02F 1/003; C02F 1/283; C02F 2209/06; C02F 2209/10; C02F 2209/20; C02F 2307/06; Y02A 20/20
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D316,682	S	*	5/1991	Eng	D10/75
D346,753	S	*	5/1994	Barbookies, Jr.	D10/78
D371,516	S	*	7/1996	Guber	D10/78
D421,401	S	*	3/2000	Schwarz	D10/78
D470,627	S	*	2/2003	Kuo	D14/138 AC
D478,522	S	*	8/2003	Geist	D10/81
D487,733	S	*	3/2004	Lucaci	D14/137
D537,978	S	*	3/2007	Chen	D14/137
D570,718	S	*	6/2008	Morris	D10/78
D585,314	S	*	1/2009	Schvetz	D10/78

(Continued)

FOREIGN PATENT DOCUMENTS

JP	D1668253	*	8/2020

OTHER PUBLICATIONS

Red Dot Design Award: Water Quality Analyzer Shenzhen Yimu Technology Co. Ltd., publication date Apr. 20, 2021, (online) URL: https://www.red-dot.org/project/water-quality-analyzer-53904 (Year: 2021).*

Primary Examiner — George D. Kirschbaum
Assistant Examiner — Antoinette Martine Suiter
(74) *Attorney, Agent, or Firm* — Treasure IP Group, LLC

(57) **CLAIM**

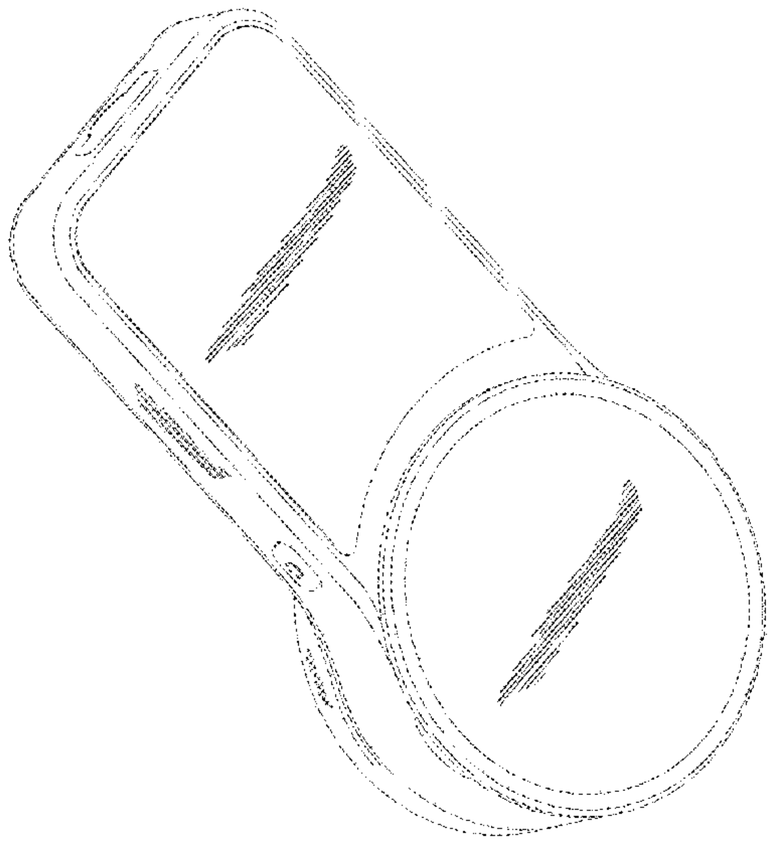
The ornamental design for a water quality detector, as shown and described.

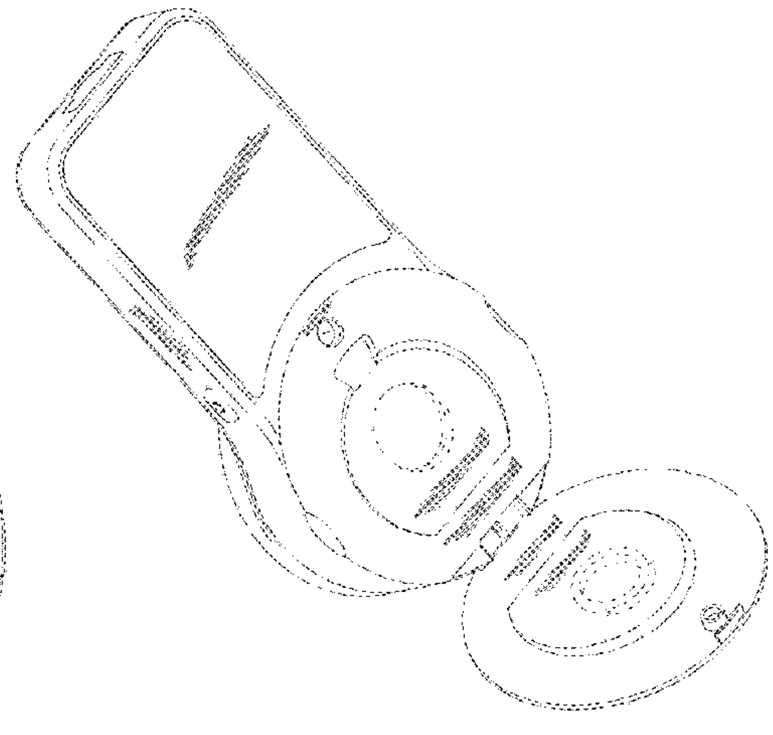
DESCRIPTION

FIG. **1** is a front view of a portable water quality detector, showing our new design;
FIG. **2** is a rear view thereof;
FIG. **3** is a right side view thereof;
FIG. **4** is a left side view thereof;
FIG. **5** is a top view thereof;
FIG. **6** is a bottom view thereof;
FIG. **7** is a perspective view thereof; and,
FIG. **8** is a perspective view of the portable water quality detector, in an open configuration, as a possible condition of use.

The broken lines depict portions of the article that form no part of the claimed design.

1 Claim, 8 Drawing Sheets





(56) **References Cited**

U.S. PATENT DOCUMENTS

7,791,056	B2 *	9/2010	Schumann	G01N 33/0032 340/630
D651,925	S *	1/2012	Faulkner	D10/78
D653,566	S *	2/2012	Gonzales	D10/106.3
8,940,522	B2 *	1/2015	Soykan	G01N 21/8507 435/287.1
D729,661	S *	5/2015	Dickinson	D10/81
D738,527	S *	9/2015	Benarieh	D13/110
D757,295	S *	5/2016	Benarieh	D13/110
D828,578	S *	9/2018	Benarieh	D24/233
D836,472	S *	12/2018	Zhiyuan	D10/70
D864,772	S *	10/2019	Jablonski	D24/216
D865,995	S *	11/2019	Benarieh	D24/233
D907,232	S *	1/2021	Reber	D24/216
D918,070	S *	5/2021	Franco	D10/70
D938,607	S *	12/2021	Lambie	D24/216
2016/0356713	A1 *	12/2016	Chen	B01D 35/143

* cited by examiner

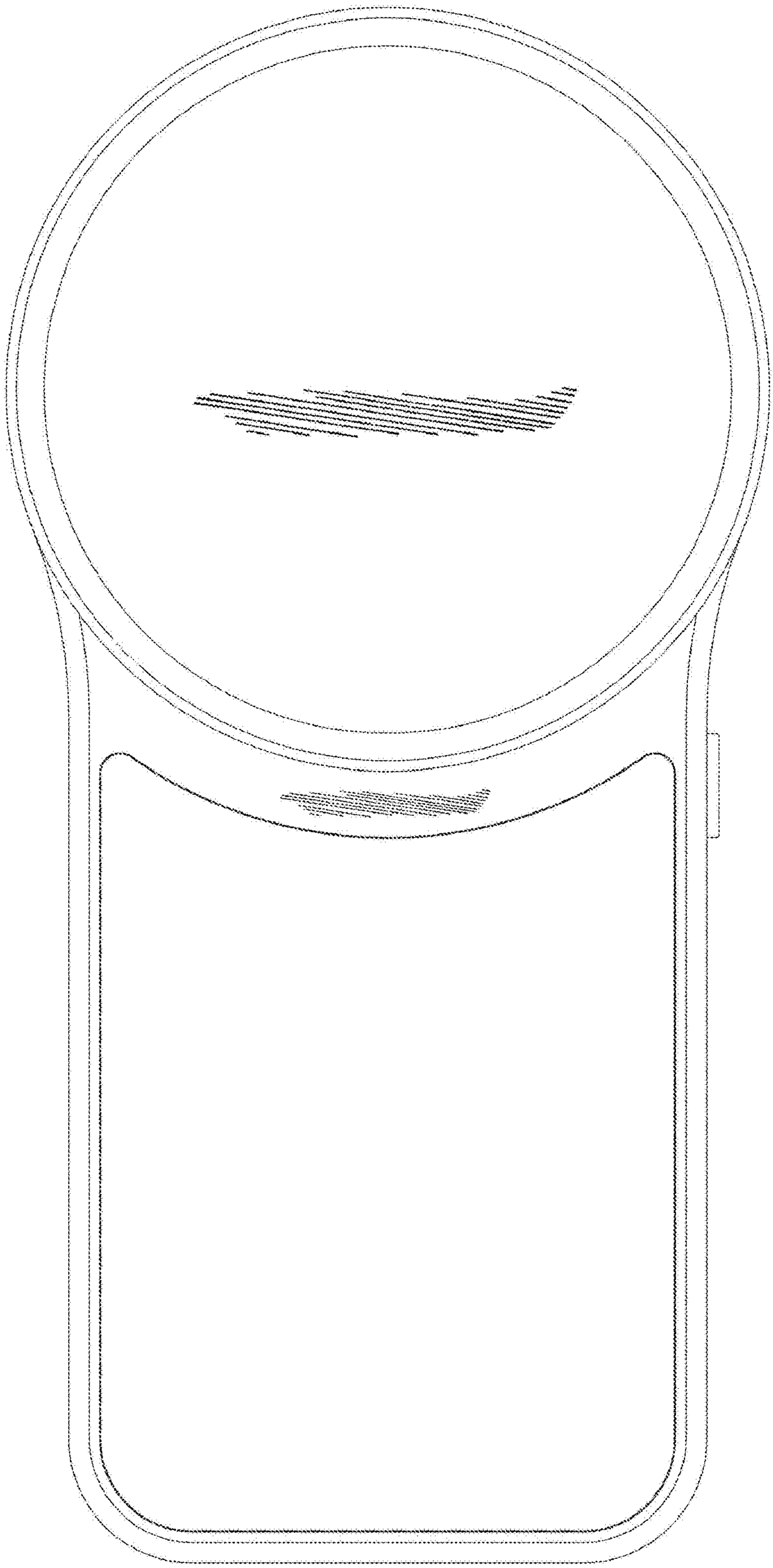


FIG.1

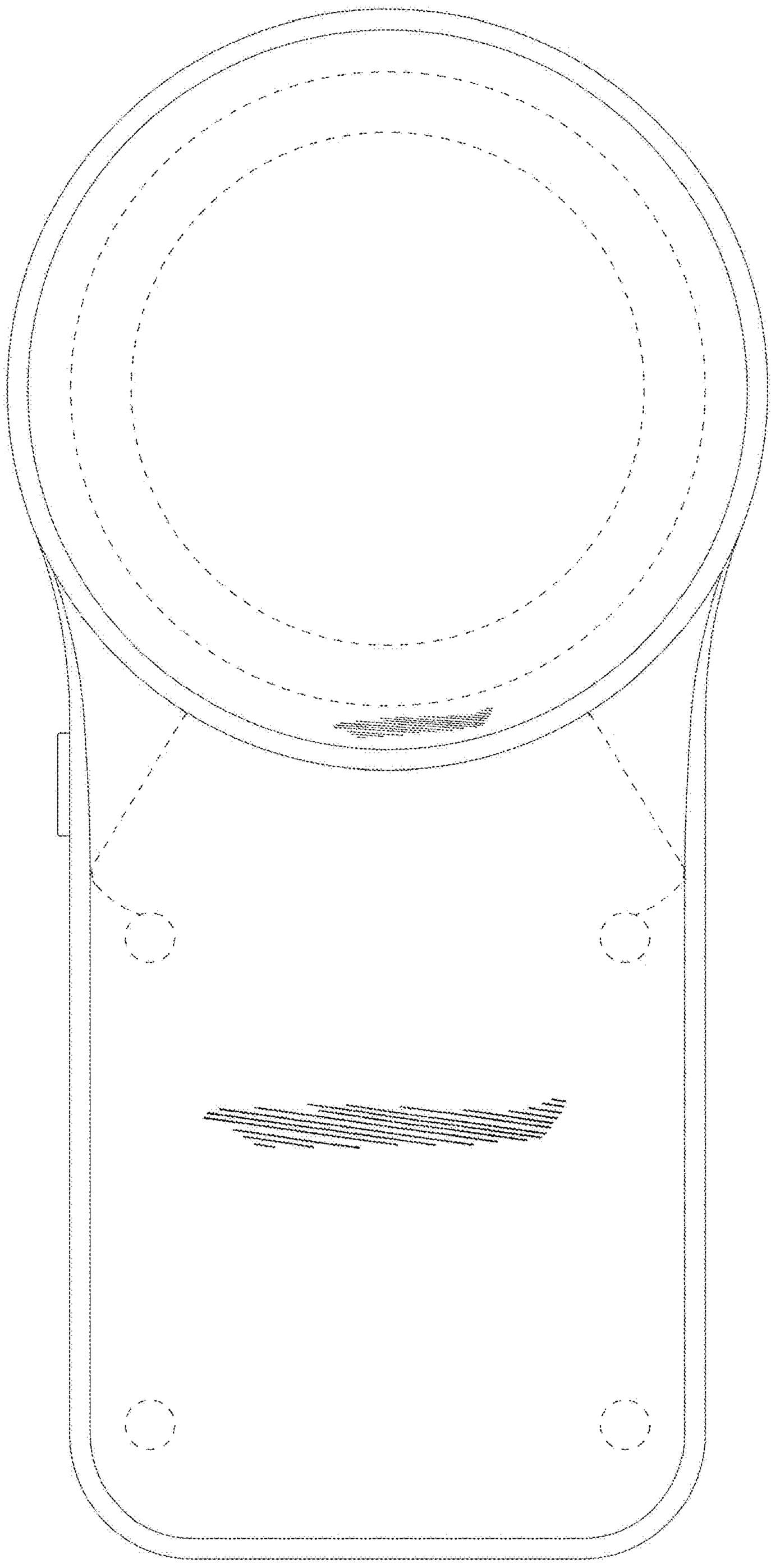


FIG.2

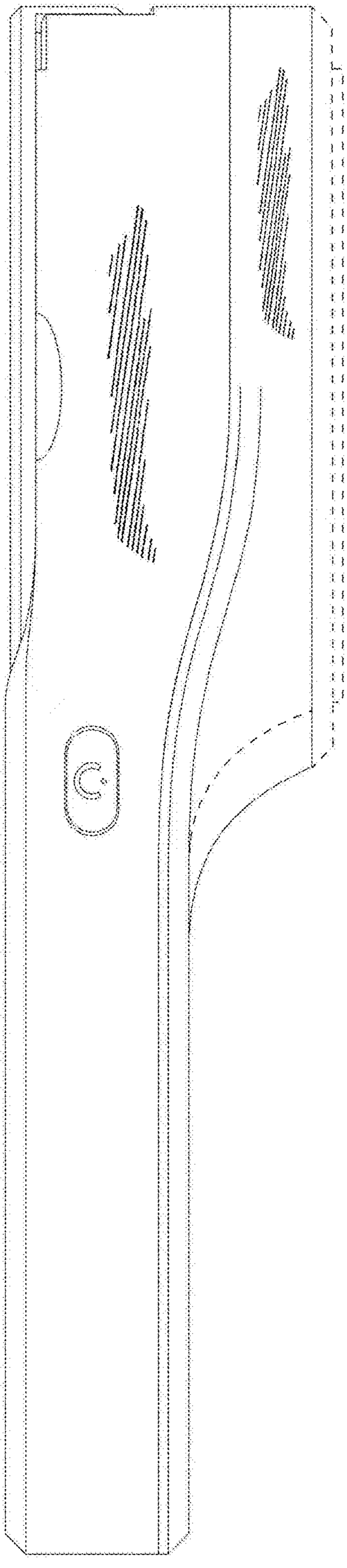


FIG.3

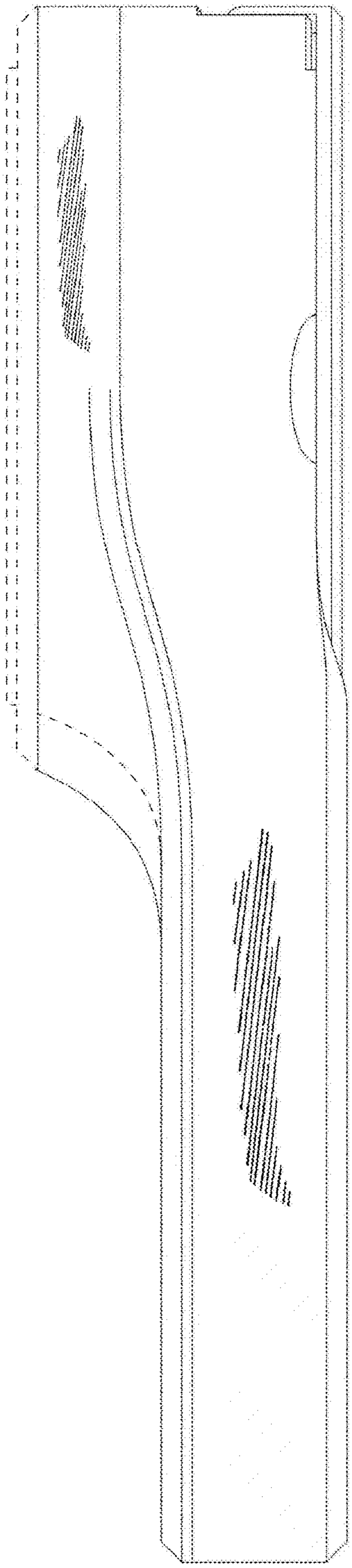


FIG.4

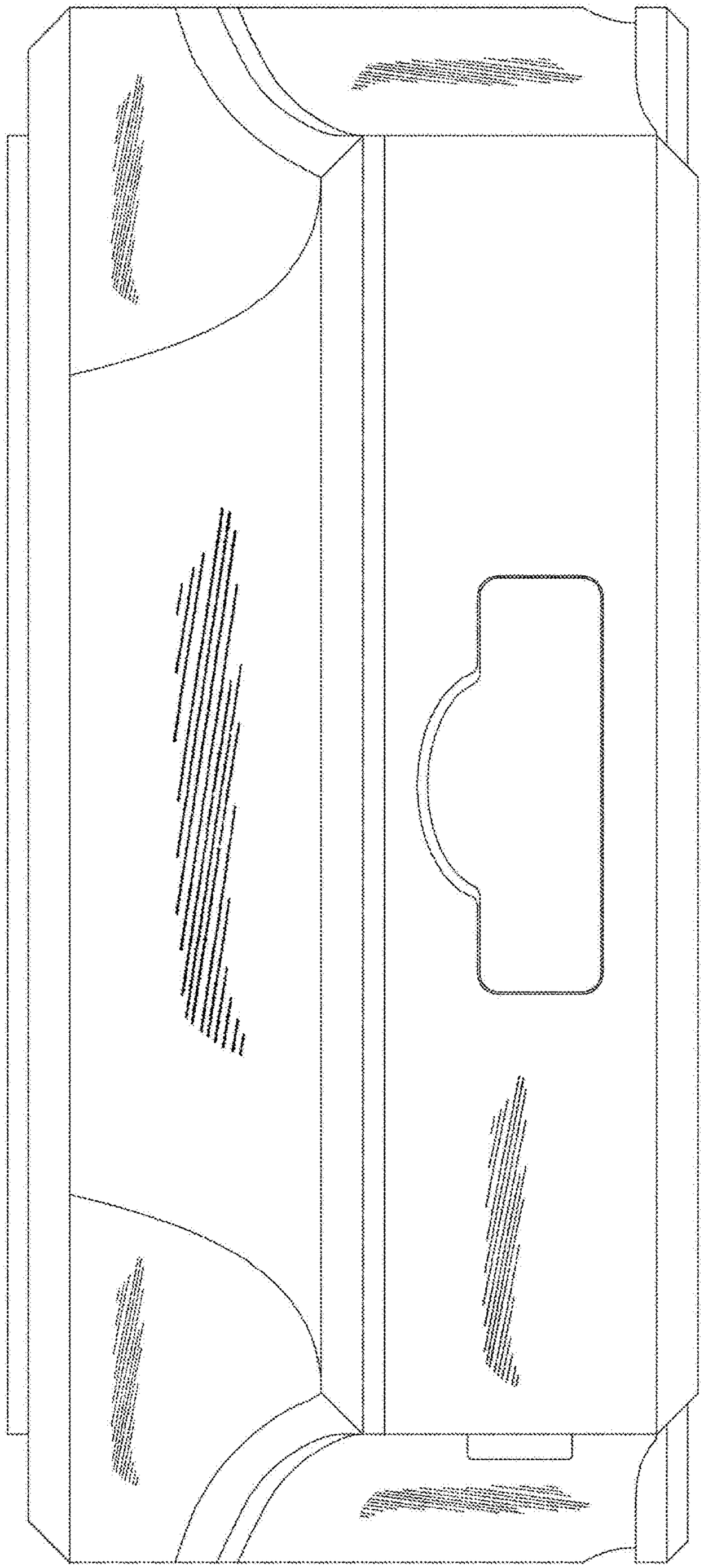


FIG.5

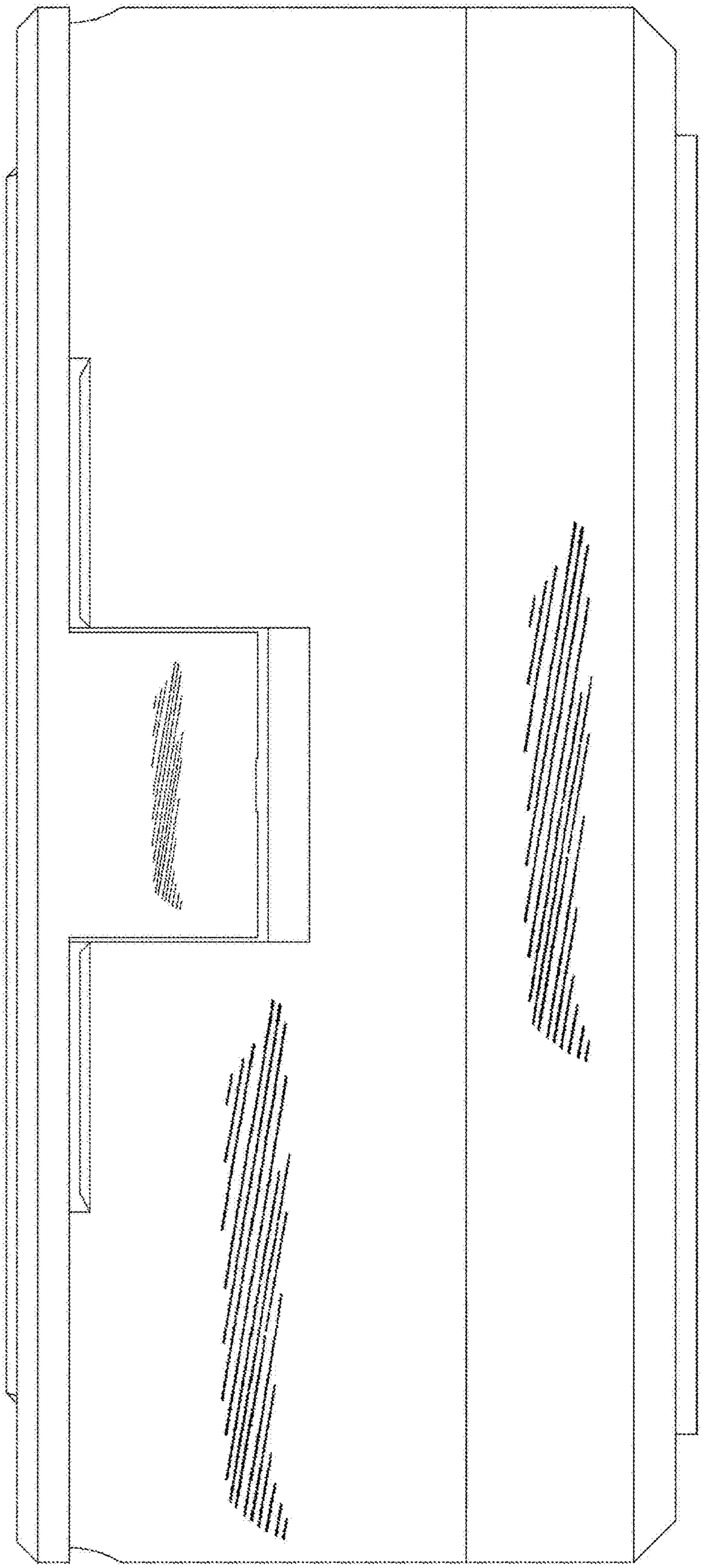


FIG.6

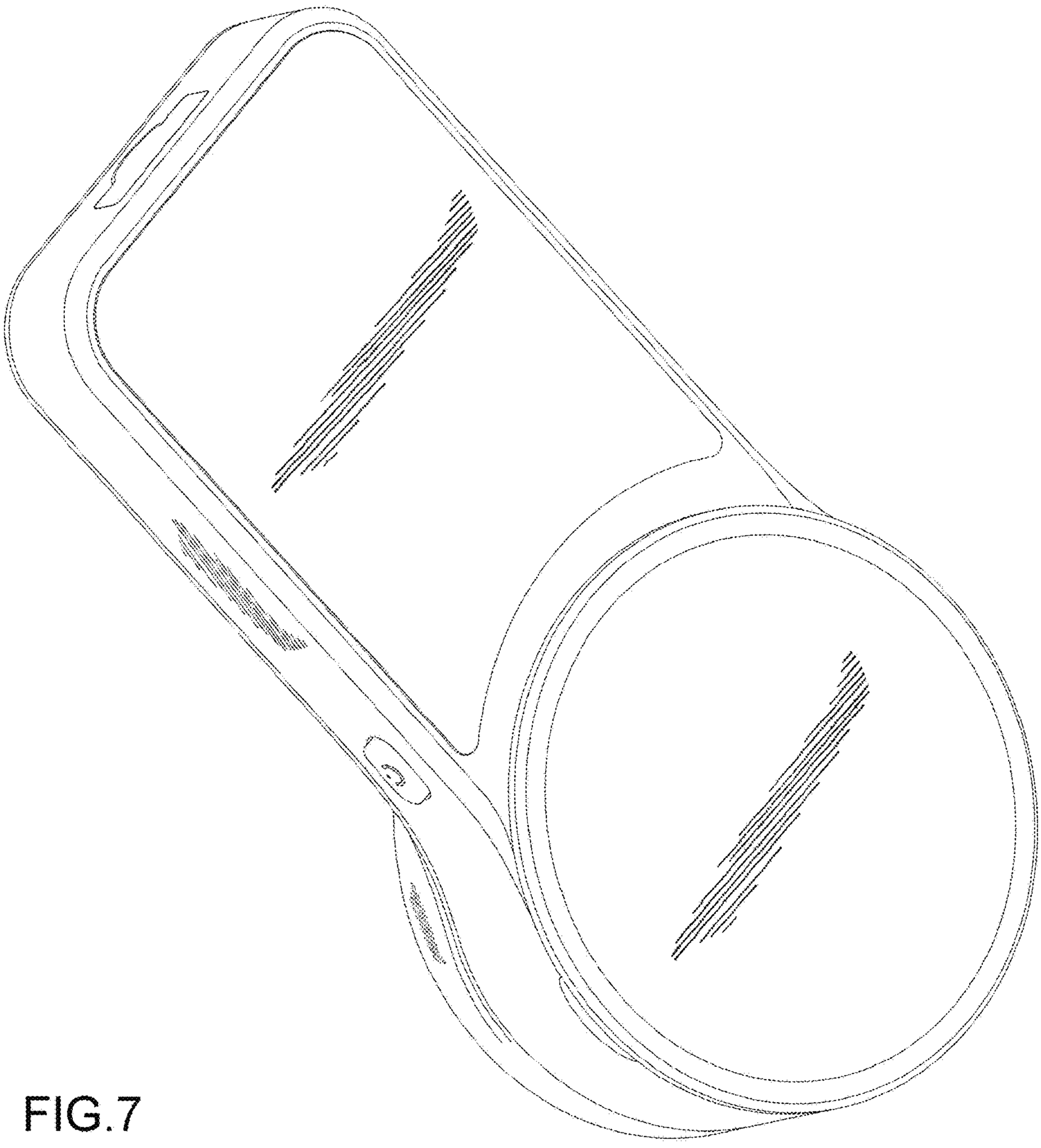


FIG.7

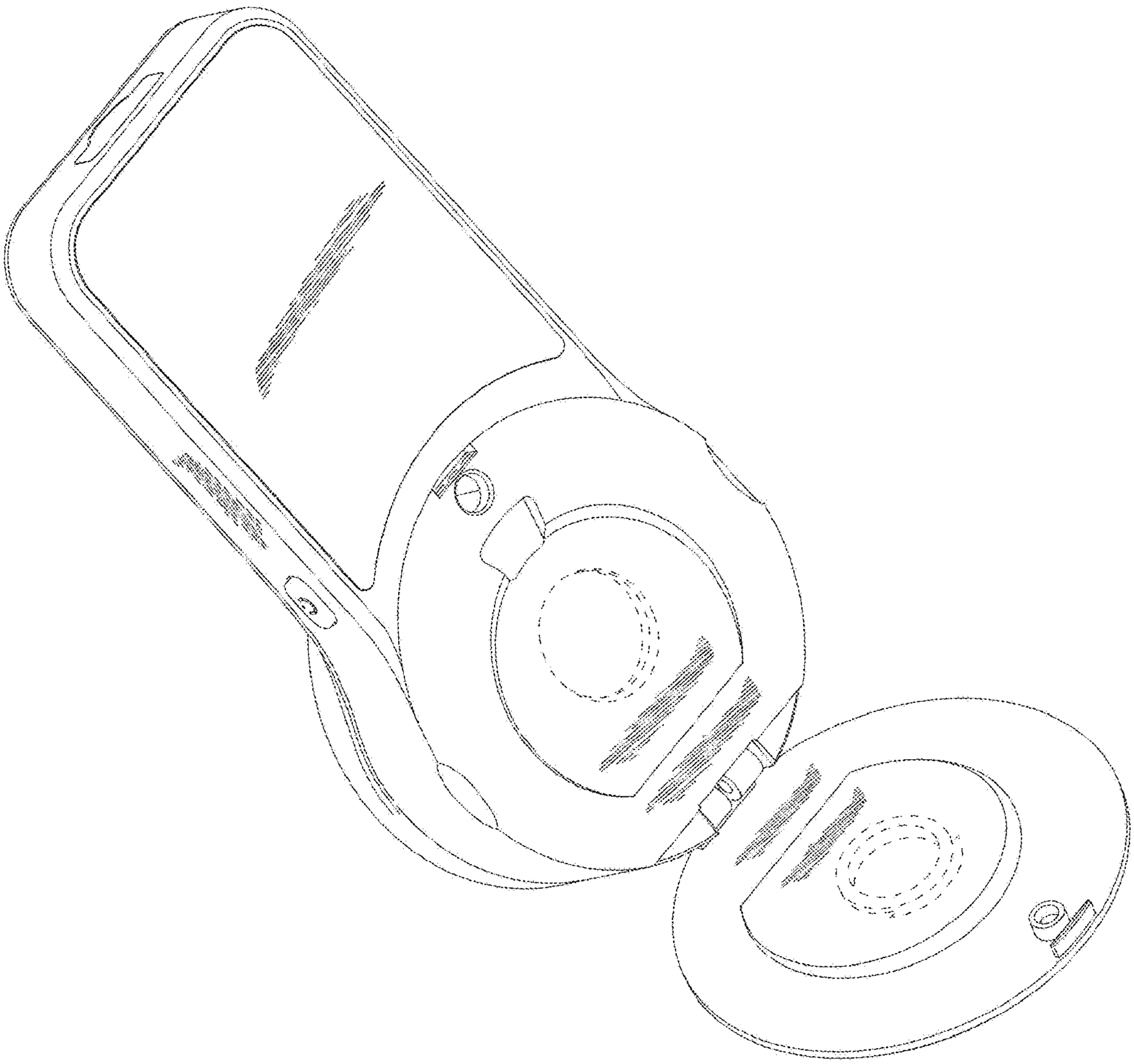


FIG.8