



US00D904023S

(12) **United States Design Patent** (10) **Patent No.:** **US D904,023 S**  
**Wang** (45) **Date of Patent:** **\*\* Dec. 8, 2020**

(54) **WIRELESS EARPHONE**  
(71) Applicant: **ASKA ELECTRONICS CO., LTD.**,  
Guangdong (CN)  
(72) Inventor: **Yulei Wang**, Shenzhen (CN)  
(73) Assignee: **ASKA ELECTRONICS CO., LTD.**,  
Dongguan (CN)  
(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/687,521**  
(22) Filed: **Apr. 12, 2019**

4,447,678 A \* 5/1984 Fidi ..... H04R 23/02  
181/153  
4,539,708 A \* 9/1985 Norris ..... H04B 1/088  
455/100  
6,567,527 B1 \* 5/2003 Baker ..... H01M 2/0202  
381/322  
D514,094 S \* 1/2006 Griffin ..... D14/223  
D532,372 S \* 11/2006 Keating ..... D13/108  
7,264,081 B2 \* 9/2007 Bruck ..... A61F 11/08  
181/135  
D569,841 S \* 5/2008 Chung ..... D14/205  
D587,681 S \* 3/2009 Yanai ..... D14/205  
D595,690 S \* 7/2009 Fullerton ..... D14/205  
D614,168 S \* 4/2010 Rogers ..... D14/206  
D628,993 S \* 12/2010 Steyn ..... D14/225  
D639,280 S \* 6/2011 Hayes ..... D14/223

(Continued)

(30) **Foreign Application Priority Data**

Mar. 26, 2019 (CN) ..... 2019 3 0129848

(51) **LOC (12) Cl.** ..... **03-01**

(52) **U.S. Cl.**  
USPC ..... **D3/294; D14/223**

(58) **Field of Classification Search**  
USPC ..... D14/223, 205; D3/294, 201, 274, 265,  
D3/266, 218, 203.3; D9/420, 529, 734,  
D9/711, 455, 426, 424, 432, 428, 415,  
D9/423, 721; 381/380, 381, 374, 329,  
381/322, 323; D13/107, 108; 206/702;  
455/90.3, 575.1, 569.1, 573  
CPC ..... H04R 1/10; H04R 25/00; H04R 1/1016;  
H04R 1/1066; H04R 5/033; H04R  
5/0335; H04R 1/1091; H04R 1/1058;  
H04R 1/105; H04R 1/1083; B65D 85/00;  
A61F 11/08

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

968,008 A \* 8/1910 Waller ..... 128/866  
2,805,332 A \* 9/1957 Bell ..... H04R 9/047  
455/351

**FOREIGN PATENT DOCUMENTS**

CN 305766377 \* 5/2020

*Primary Examiner* — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Wayne & Ken, LLC;  
Tony Hom

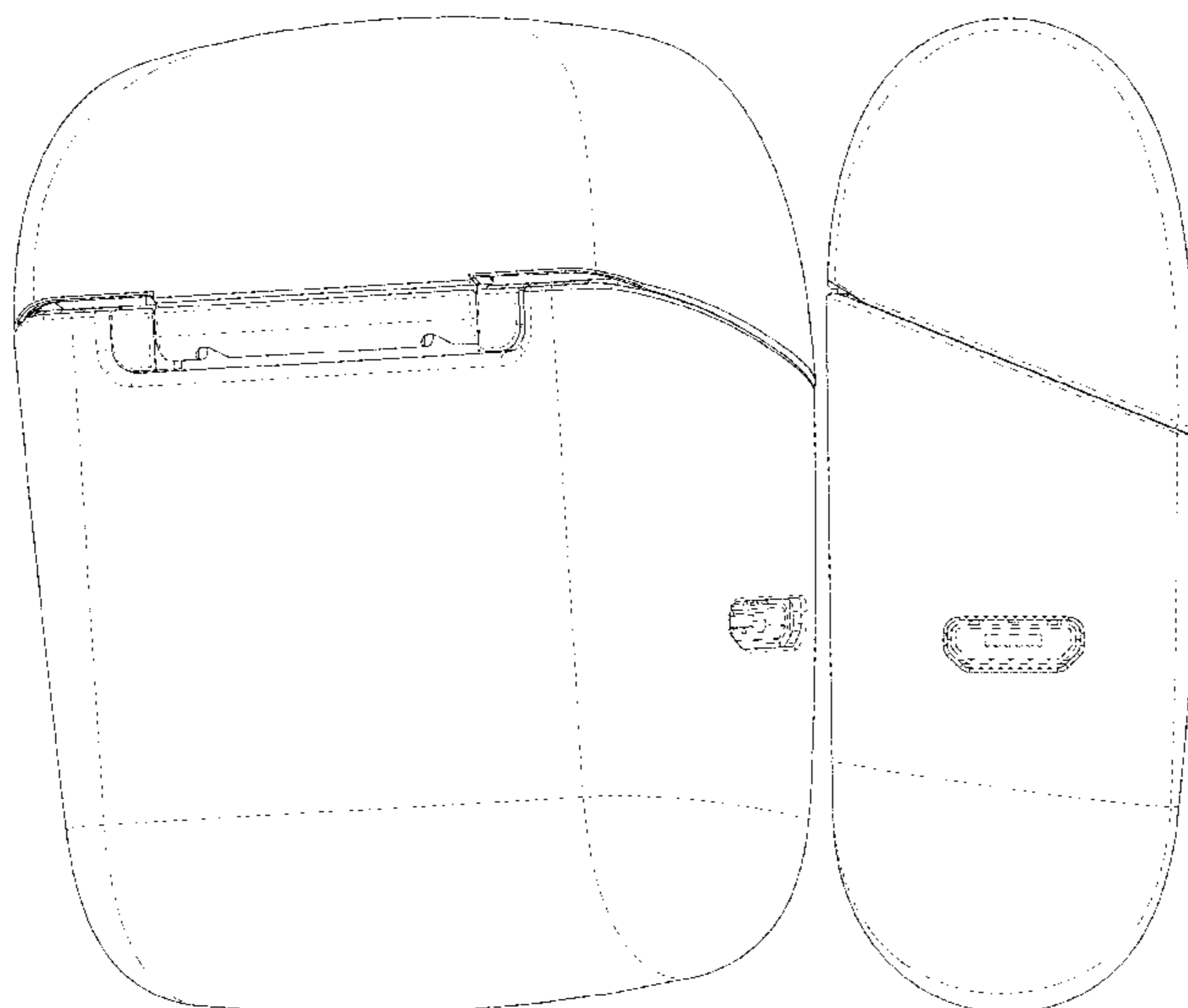
(57) **CLAIM**

The ornamental design for a wireless earphone, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a wireless earphone showing my new design;  
FIG. 2 is another perspective view thereof;  
FIG. 3 is a front elevation view thereof;  
FIG. 4 is a back elevation view thereof;  
FIG. 5 is a left side view thereof;  
FIG. 6 is a right side view thereof;  
FIG. 7 is a bottom plan view thereof;  
FIG. 8 is a top plan view thereof; and,  
FIG. 9 is a perspective view in an open position.  
The broken lines depict environment that forms no part of the claimed design.

**1 Claim, 9 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D656,922 S \* 4/2012 Massaro ..... D14/223  
8,275,166 B2 \* 9/2012 Wu ..... H04R 25/00  
381/380  
D684,253 S \* 6/2013 Ryan ..... A61F 11/08  
D24/106  
D698,750 S \* 2/2014 Yoon ..... D14/206  
8,731,227 B2 \* 5/2014 Hwang ..... H04R 1/1091  
381/379  
D718,286 S \* 11/2014 Yang ..... D14/223  
8,983,108 B2 \* 3/2015 Ho ..... H04R 1/1016  
381/380  
D746,792 S \* 1/2016 Kim ..... D14/205  
D751,053 S \* 3/2016 Shin ..... D14/205  
9,532,128 B2 \* 12/2016 Linden ..... H02J 7/0044  
D777,710 S \* 1/2017 Palmberg ..... D14/223  
D801,962 S \* 11/2017 Smith ..... D14/307  
D806,388 S \* 1/2018 Akana ..... D3/294  
D810,431 S \* 2/2018 Kim ..... D3/266  
D818,268 S \* 5/2018 Akana ..... D3/294  
D838,480 S \* 1/2019 Son ..... D3/294  
D840,684 S \* 2/2019 Luburic ..... D3/294  
D841,581 S \* 2/2019 Bonahoom ..... D13/108  
D846,264 S \* 4/2019 Wu ..... D3/201

D849,401 S \* 5/2019 Akana ..... D3/274  
D853,116 S \* 7/2019 Bergman ..... D3/294  
D853,350 S \* 7/2019 Linden ..... D14/205  
D863,261 S \* 10/2019 Zhu ..... D14/223  
D864,164 S \* 10/2019 Liu ..... D14/223  
D868,729 S \* 12/2019 Czaniecki ..... D14/205  
D870,451 S \* 12/2019 Birger ..... D3/201  
D870,707 S \* 12/2019 Yang ..... D14/223  
D872,062 S \* 1/2020 Cui ..... D14/223  
D878,045 S \* 3/2020 Akana ..... D3/274  
10,587,965 B2 \* 3/2020 Mueller ..... H04R 25/554  
D881,572 S \* 4/2020 Wang ..... D3/294  
D882,259 S \* 4/2020 Liu ..... D3/269  
D886,453 S \* 6/2020 Wright ..... D3/294  
D886,456 S \* 6/2020 Yeh ..... D3/306  
D888,408 S \* 6/2020 Lee ..... D3/201  
D888,662 S \* 6/2020 Cramer ..... D13/108  
D889,438 S \* 7/2020 Arimoto ..... D14/223  
2007/0154042 A1 \* 7/2007 Buckley ..... B65D 85/38  
381/322  
2008/0292123 A1 \* 11/2008 Jensen ..... H04R 25/00  
381/322  
2015/0195638 A1 \* 7/2015 Tseng ..... H04R 1/1058  
381/380  
2015/0350762 A1 \* 12/2015 Birger ..... H04R 1/1025  
381/74

\* cited by examiner

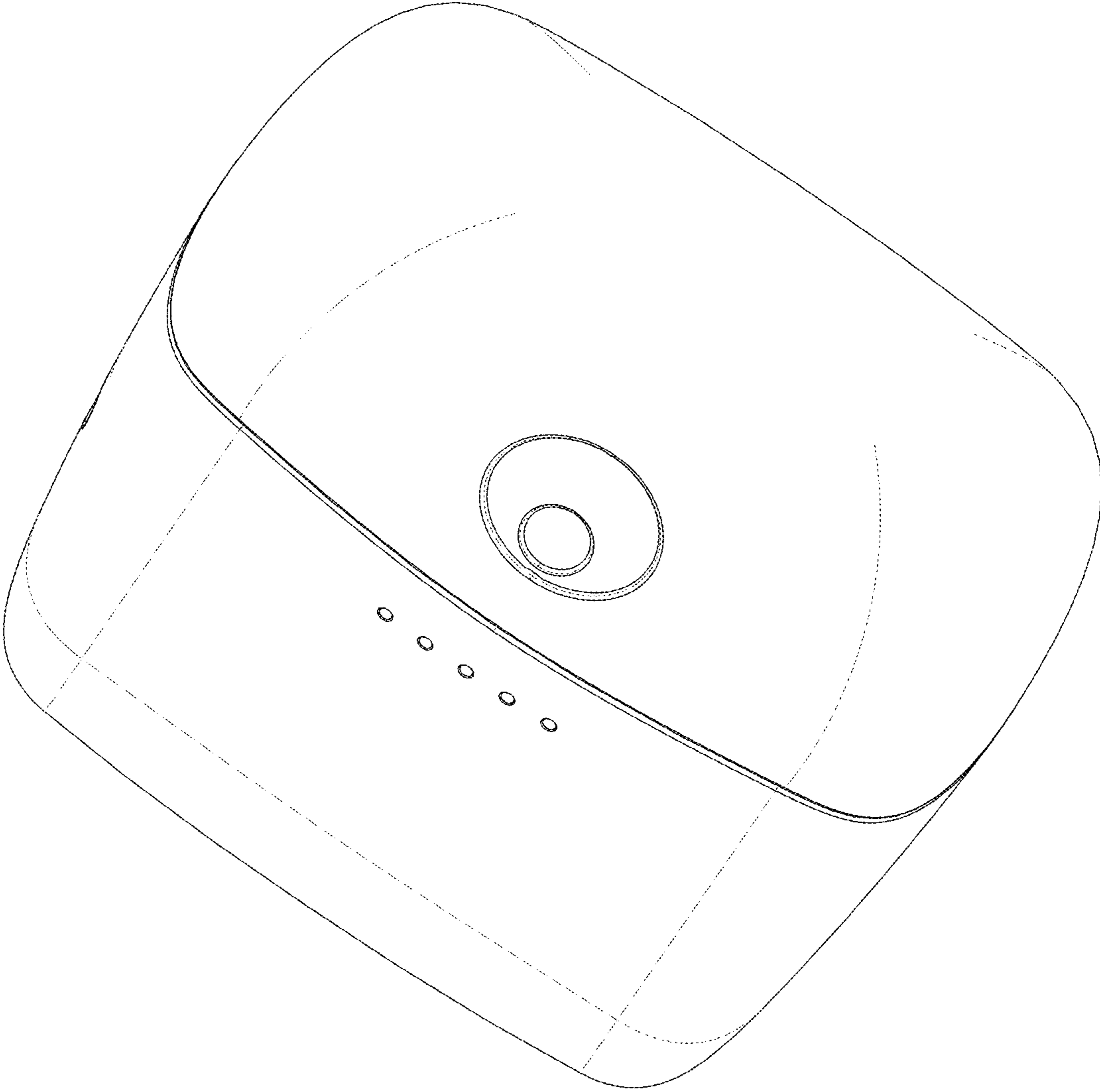


FIG. 1

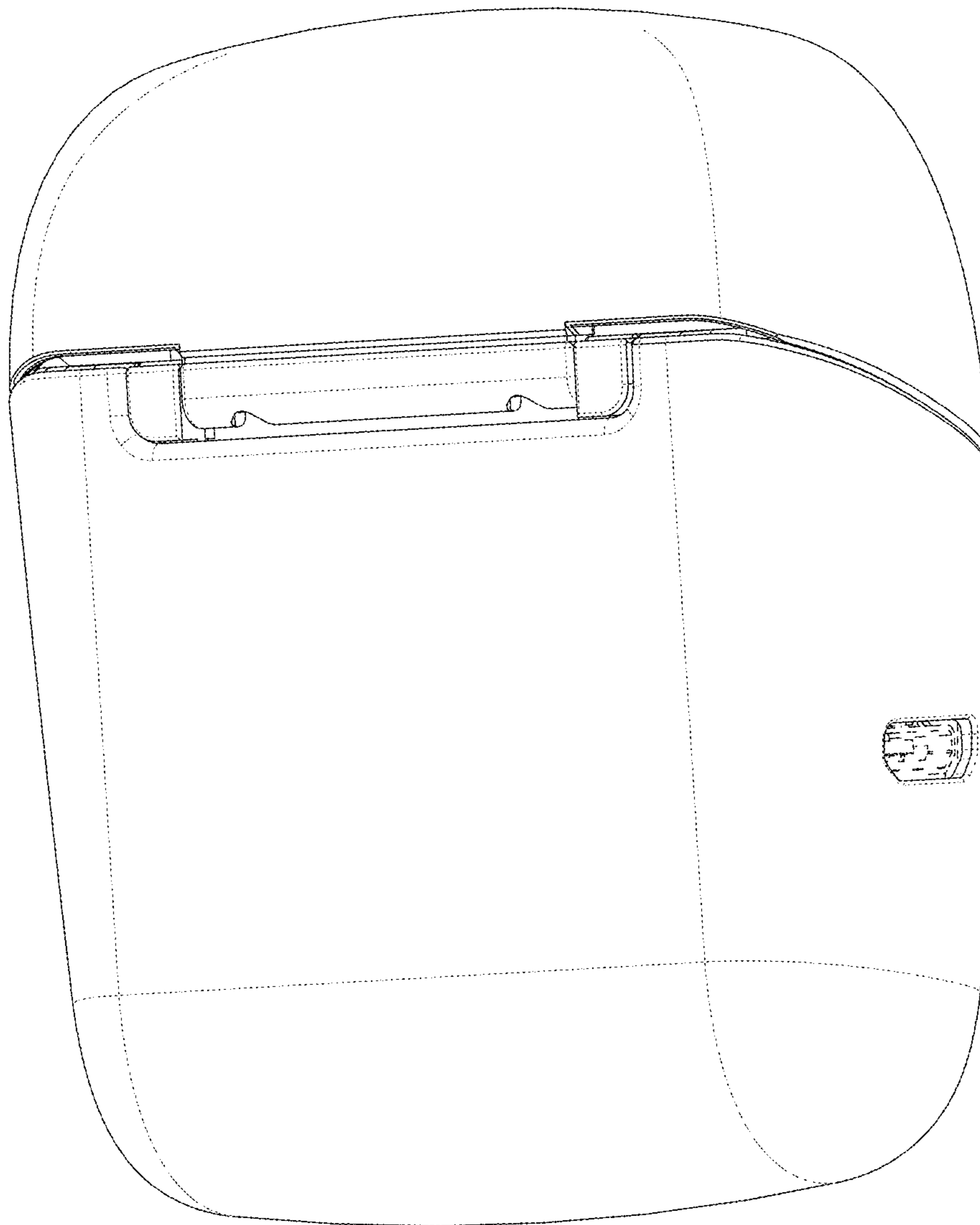


FIG. 2

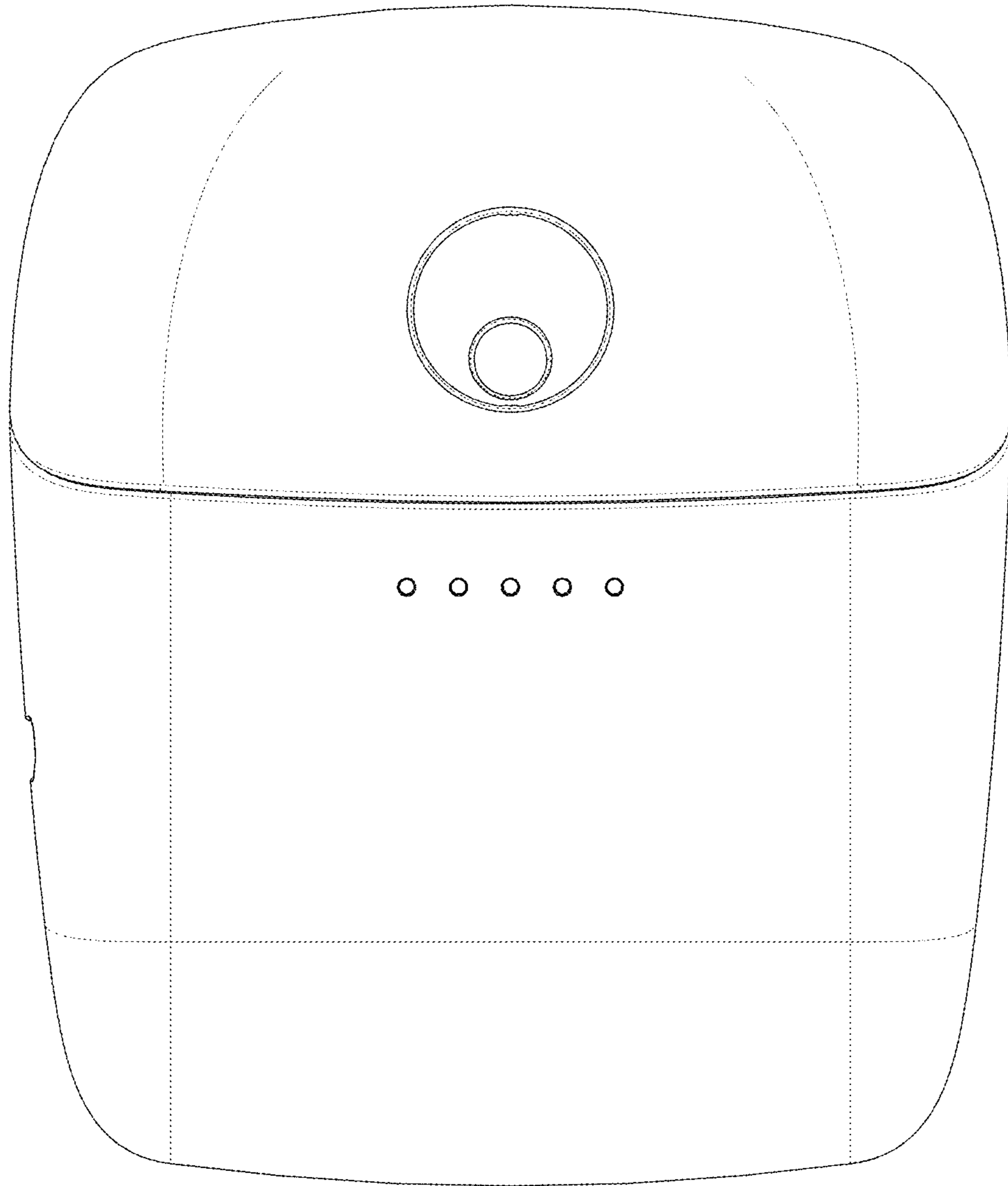


FIG. 3

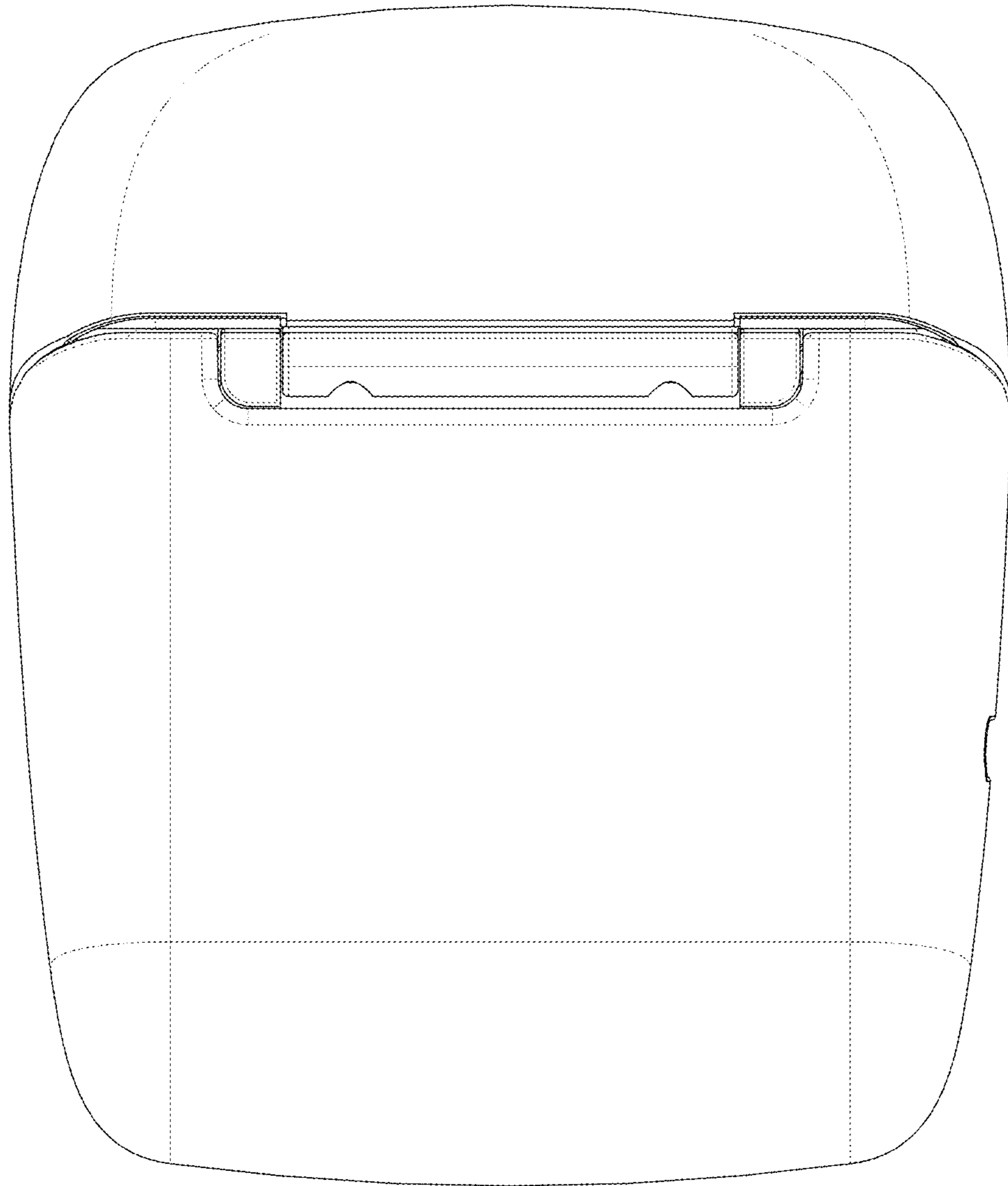


FIG. 4

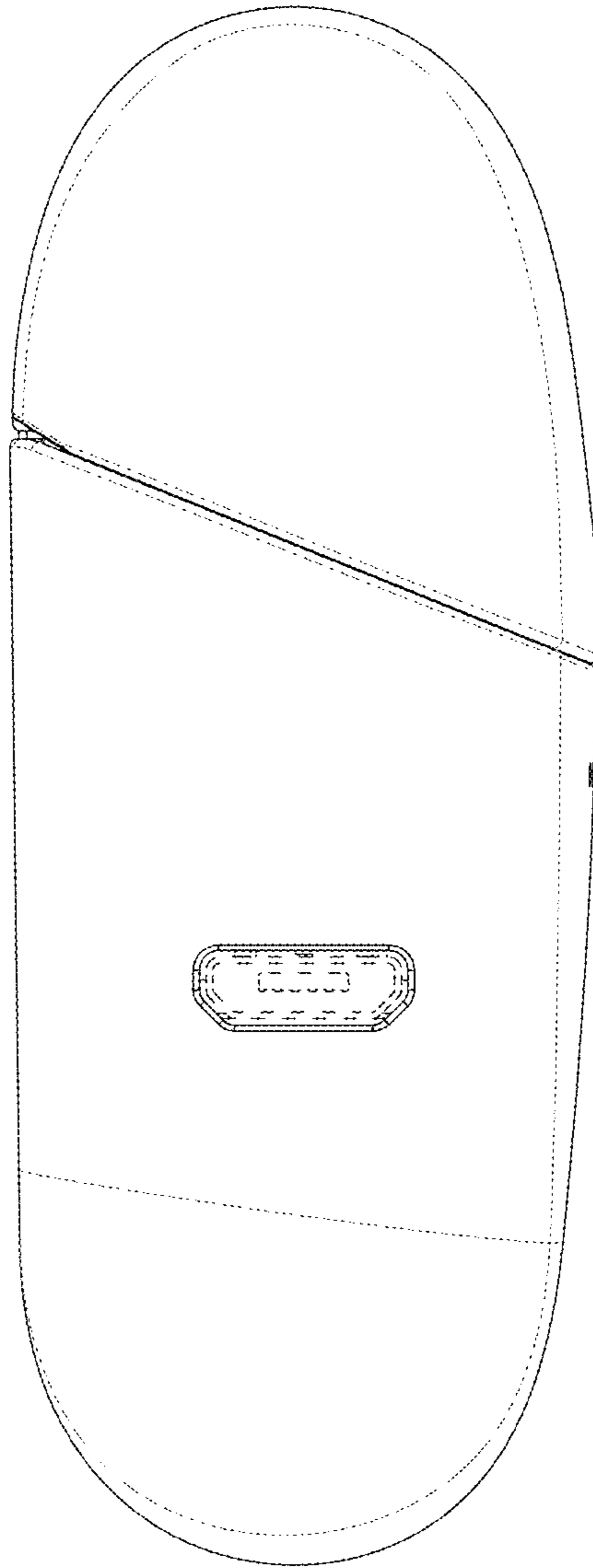


FIG. 5

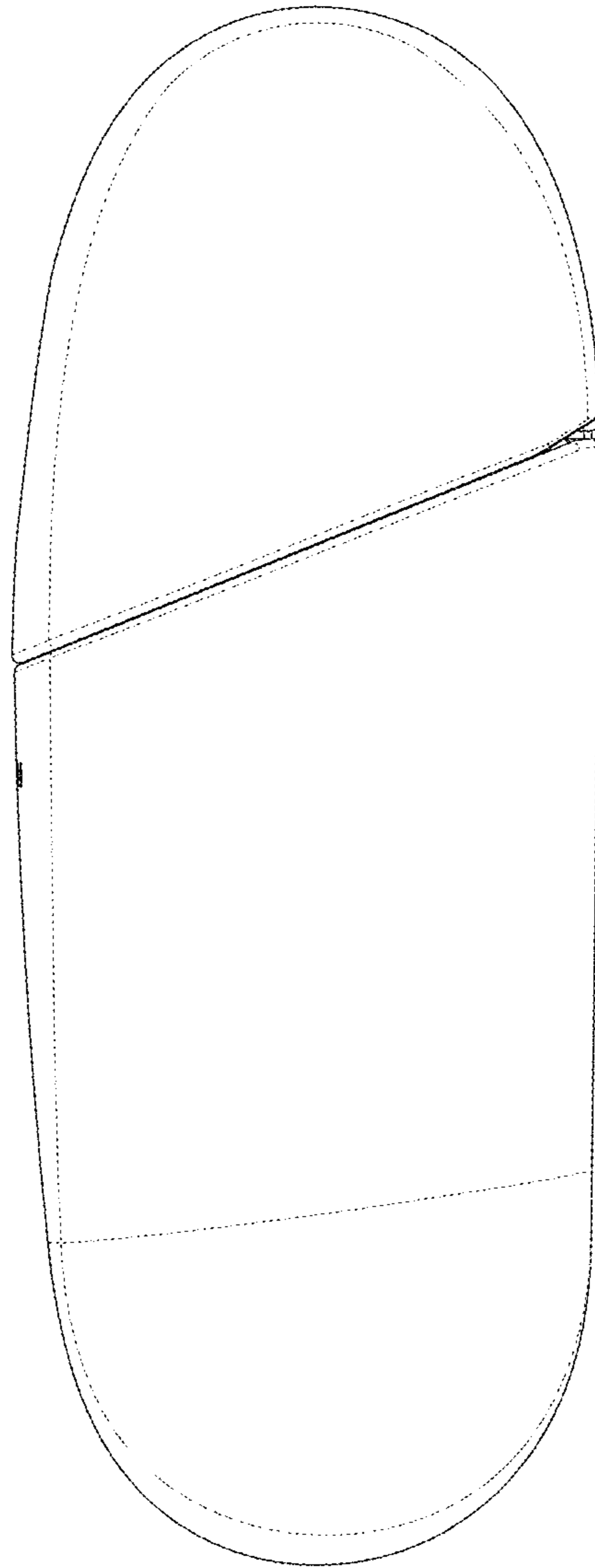


FIG. 6



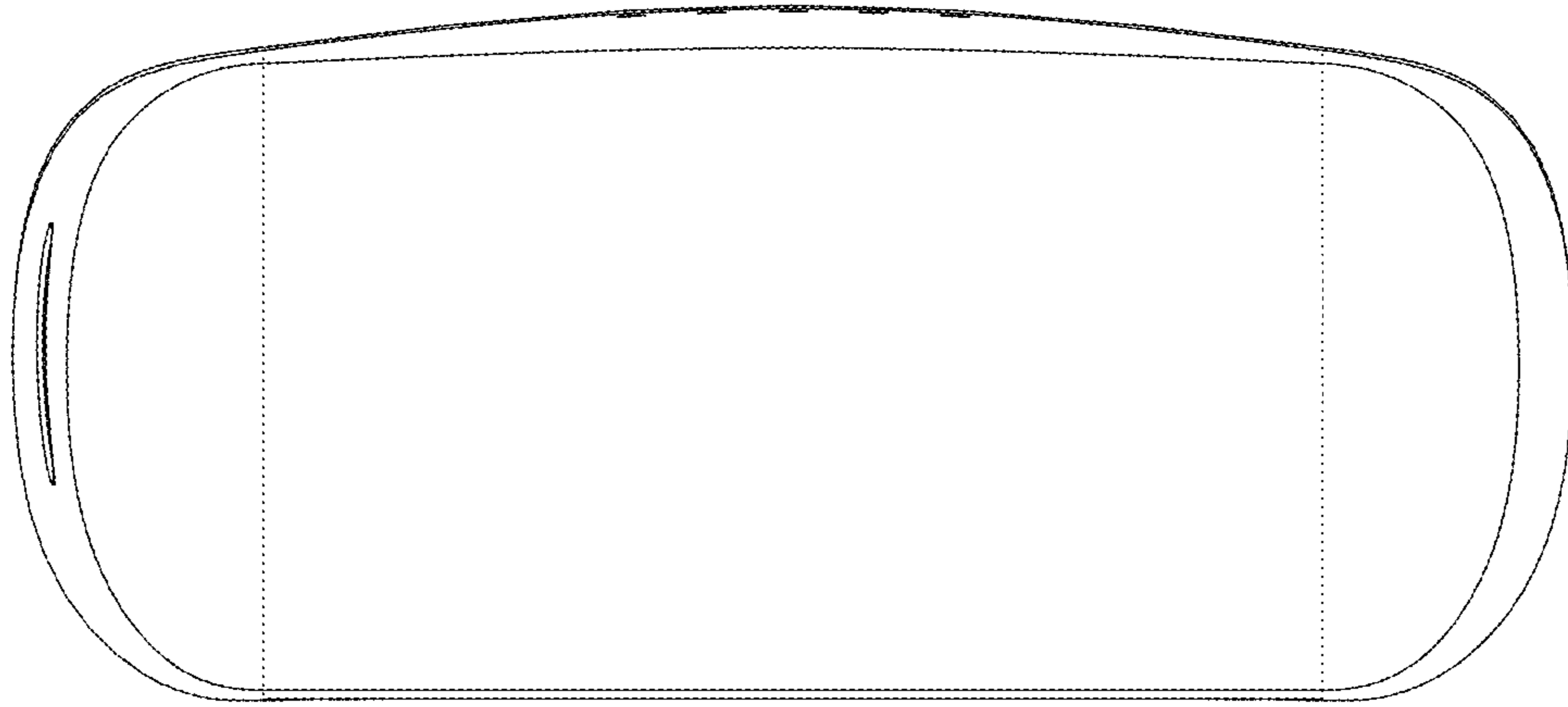


FIG. 7

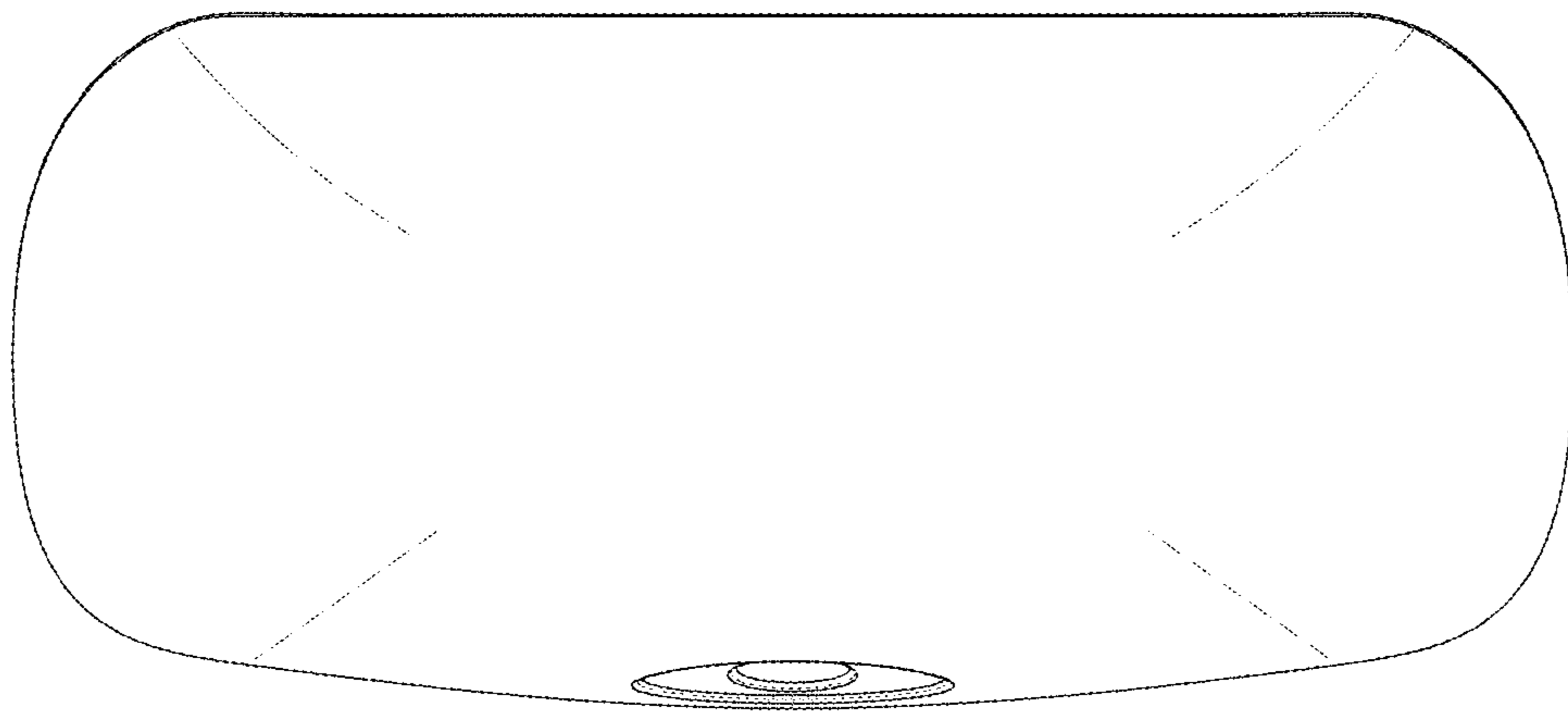


FIG. 8

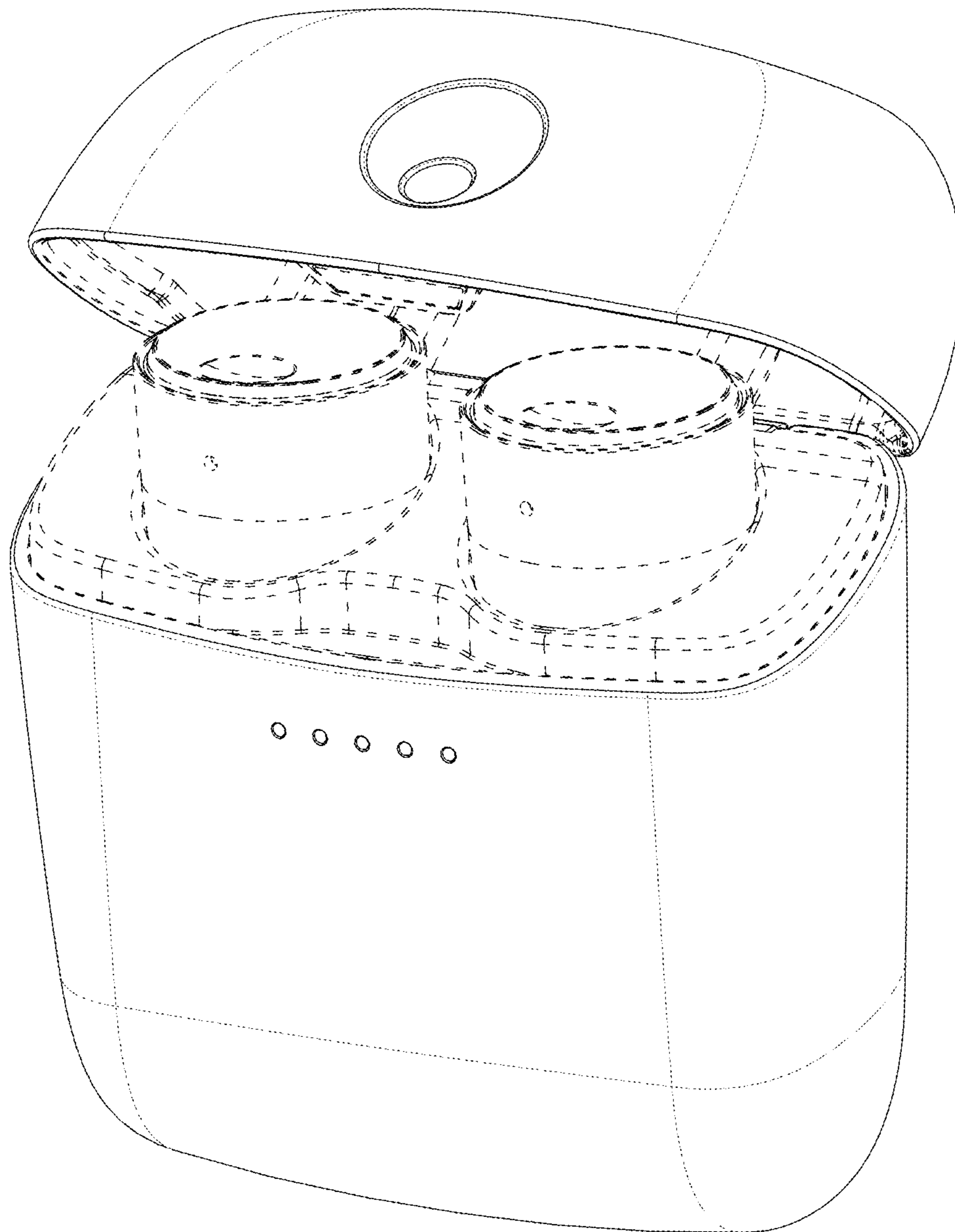


FIG. 9