



US00D905020S

(12) **United States Design Patent**  
**Du**

(10) **Patent No.:** **US D905,020 S**

(45) **Date of Patent:** **\*\* Dec. 15, 2020**

(54) **EARPHONE**

(71) Applicant: **DONGGUAN PINMI ELECTRONIC TECHNOLOGY CO., LTD**, Dongguan (CN)

(72) Inventor: **Zhanyuan Du**, Kaifeng (CN)

(73) Assignee: **DONGGUAN PINMI ELECTRONIC TECHNOLOGY CO., LTD**, Dongguan (CN)

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

(21) Appl. No.: **29/747,459**

(22) Filed: **Aug. 23, 2020**

(30) **Foreign Application Priority Data**

Jun. 8, 2020 (CN) ..... 2020 3 0285773

(51) **LOC (12) Cl.** ..... **14-01**

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

(58) **Field of Classification Search**  
USPC ..... D14/223, 205; D24/174; 128/864, 865, 128/866; 381/380, 381; 455/90.3, 575.1, 455/569.1

CPC ..... H04R 1/10; H04R 25/00; H04R 25/02; H04R 1/1066; H04R 1/1016; H04R 5/033; H04R 5/0335; H04R 1/105; H04R 1/1091; H04R 1/1083

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 4,972,492 A \* 11/1990 Tanaka ..... H04R 1/1016 181/130
- D337,118 S \* 7/1993 Seikita ..... D14/223
- 5,544,253 A \* 8/1996 Nagayoshi ..... H04R 1/1016 381/385

- D463,790 S \* 10/2002 Beraut ..... D14/205
- D482,348 S \* 11/2003 Villaverde ..... D14/223
- D499,397 S \* 12/2004 Hlas ..... D14/223
- D554,109 S \* 10/2007 Ledbetter ..... D14/223
- D583,804 S \* 12/2008 Mahler ..... D14/223
- D616,874 S \* 6/2010 Matsuoka ..... D14/223
- D618,672 S \* 6/2010 Harbeke ..... D14/223
- D619,998 S \* 7/2010 Birger ..... D14/223
- D626,948 S \* 11/2010 Nault ..... D14/223
- D632,677 S \* 2/2011 Brown ..... D14/223
- D634,306 S \* 3/2011 Pedersen ..... D14/223
- D641,008 S \* 7/2011 Lee ..... D14/223
- D641,737 S \* 7/2011 Krauss ..... D14/223
- D641,738 S \* 7/2011 Perez ..... D14/223

(Continued)

**FOREIGN PATENT DOCUMENTS**

- CN 305188208 \* 5/2019
- CN 305965130 \* 8/2020
- CN 305981034 \* 8/2020

*Primary Examiner* — Paula Allen Greene

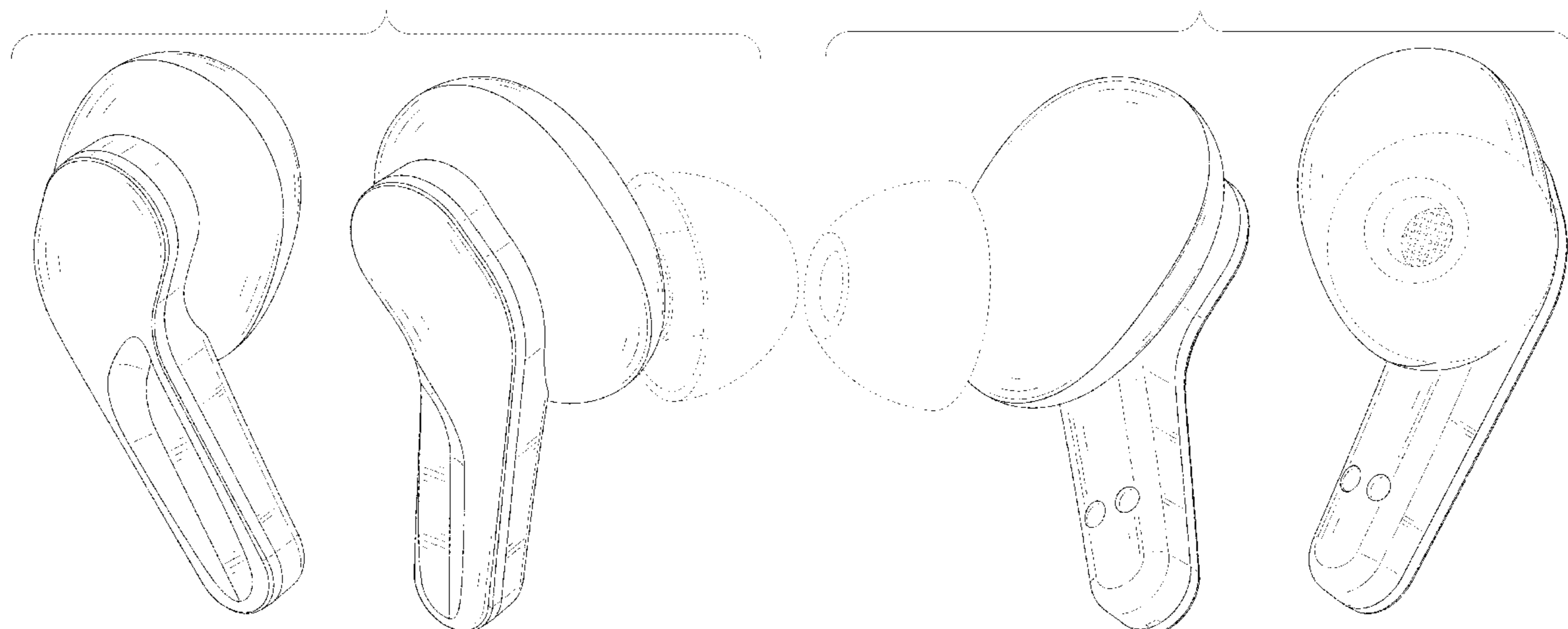
(57) **CLAIM**

The ornamental design for earphone, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of earphone showing my new design;  
 FIG. 2 is another 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;  
 FIG. 8 is a bottom plan view thereof; and,  
 FIG. 9 is a perspective of the earphone where the earphone are received in a charging case.  
 The broken lines in the drawings depict portions of the earphone that form no part of the claimed design.

**1 Claim, 9 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D643,417 S \* 8/2011 Lee ..... D14/223  
 D653,235 S \* 1/2012 McManigal ..... D14/205  
 D656,481 S \* 3/2012 McManigal ..... D14/205  
 D657,780 S \* 4/2012 Dahlberg ..... D14/223  
 D658,157 S \* 4/2012 McManigal ..... D14/205  
 D666,996 S \* 9/2012 Hardi ..... D14/223  
 D674,781 S \* 1/2013 Sakata ..... D14/223  
 8,391,533 B2 \* 3/2013 Sim ..... H04R 1/1041  
 381/380  
 D679,267 S \* 4/2013 Lee ..... D14/223  
 D694,220 S \* 11/2013 Lee ..... D14/223  
 D696,230 S \* 12/2013 Burgett ..... D14/223  
 8,712,087 B2 \* 4/2014 Ozawa ..... H04R 1/1016  
 381/380  
 D711,857 S \* 8/2014 Burgett ..... D14/223  
 D718,284 S \* 11/2014 Shibusawa ..... D14/223  
 D718,285 S \* 11/2014 Shibusawa ..... D14/223  
 9,042,588 B2 \* 5/2015 Aase ..... H04R 1/1041  
 381/380  
 D730,868 S \* 6/2015 Birger ..... D14/206  
 D730,876 S \* 6/2015 Dahlberg ..... D14/223  
 D732,008 S \* 6/2015 Akana ..... H04R 1/10  
 D14/223  
 D733,101 S \* 6/2015 Pi ..... D14/223  
 D733,689 S \* 7/2015 Narita ..... D14/223  
 D738,864 S \* 9/2015 Lee ..... D14/223  
 D741,287 S \* 10/2015 Harata ..... D14/205  
 D757,682 S \* 5/2016 Perez ..... D14/205  
 D760,202 S \* 6/2016 Hsieh ..... D14/223  
 D770,412 S \* 11/2016 Son ..... D14/205  
 D784,962 S \* 4/2017 Yang ..... D14/223  
 D801,314 S \* 10/2017 Akana ..... D14/223  
 D802,562 S \* 11/2017 Baba ..... D14/223  
 D810,720 S \* 2/2018 Lee ..... D14/205  
 D813,844 S \* 3/2018 Stiff ..... D14/223  
 D820,809 S \* 6/2018 Akana ..... D14/205

D822,009 S \* 7/2018 Matoba ..... D14/223  
 D830,336 S \* 10/2018 Cai ..... D14/205  
 D832,824 S \* 11/2018 Kim ..... D14/223  
 D847,125 S \* 4/2019 Akana ..... D14/223  
 D847,795 S \* 5/2019 Kim ..... D14/223  
 D852,171 S \* 6/2019 Cai ..... D14/223  
 D852,783 S 7/2019 Hueber  
 D861,647 S \* 10/2019 Chen ..... D14/223  
 D863,260 S 10/2019 Zheng  
 D864,169 S \* 10/2019 Min ..... D14/223  
 10,462,549 B2 \* 10/2019 Chou ..... H04R 25/652  
 D866,530 S \* 11/2019 Birger ..... D14/223  
 D869,445 S \* 12/2019 Hu ..... D14/223  
 D872,711 S \* 1/2020 Hu ..... D14/223  
 D875,713 S \* 2/2020 Kim ..... D14/205  
 D878,337 S \* 3/2020 Yang ..... D14/223  
 D883,260 S \* 5/2020 Hu ..... D14/223  
 D883,958 S \* 5/2020 Liu ..... D14/223  
 D887,396 S \* 6/2020 Wang ..... D14/223  
 D888,691 S \* 6/2020 Liu ..... D14/223  
 D889,436 S \* 7/2020 Zhang ..... D14/223  
 D890,138 S \* 7/2020 Peng ..... D14/223  
 D894,875 S \* 9/2020 Zhao ..... D14/223  
 D895,579 S \* 9/2020 Yang ..... D14/223  
 D895,582 S \* 9/2020 Wu ..... D14/223  
 D896,206 S \* 9/2020 Xu ..... D14/223  
 D896,207 S \* 9/2020 He ..... D14/223  
 D897,997 S \* 10/2020 Zhang ..... D14/223  
 D897,998 S \* 10/2020 Ma ..... D14/223  
 2012/0237074 A1 \* 9/2012 Aase ..... H04R 1/1075  
 381/380  
 2013/0004011 A1 \* 1/2013 Hayashida ..... H04R 1/345  
 381/380  
 2013/0343595 A1 \* 12/2013 Zorkendorfer ..... H04R 1/1016  
 381/380  
 2018/0167713 A1 \* 6/2018 Chou ..... H04R 1/1075  
 2020/0068283 A1 \* 2/2020 Chou ..... H04R 1/1025

\* cited by examiner

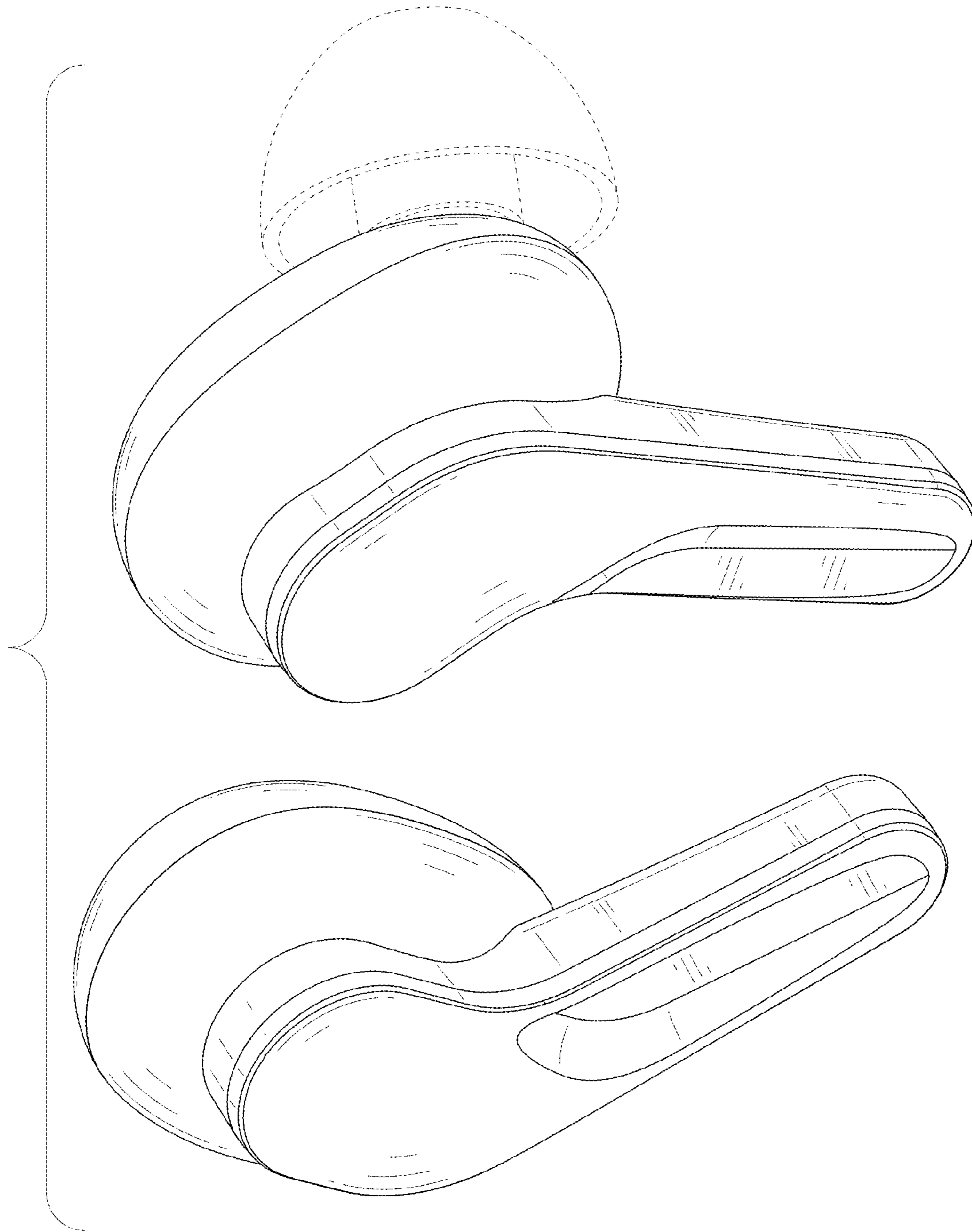


FIG. 1



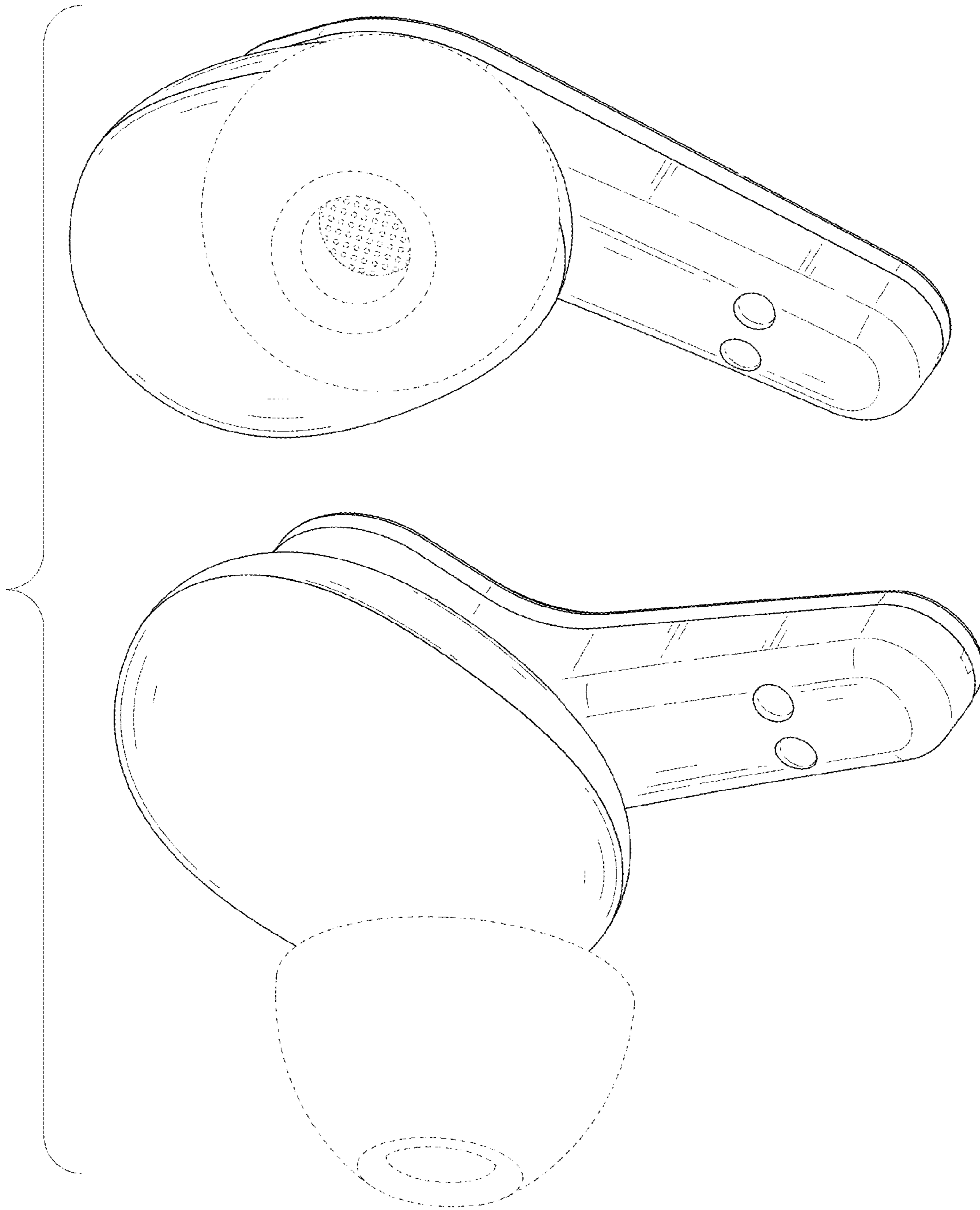


FIG. 2

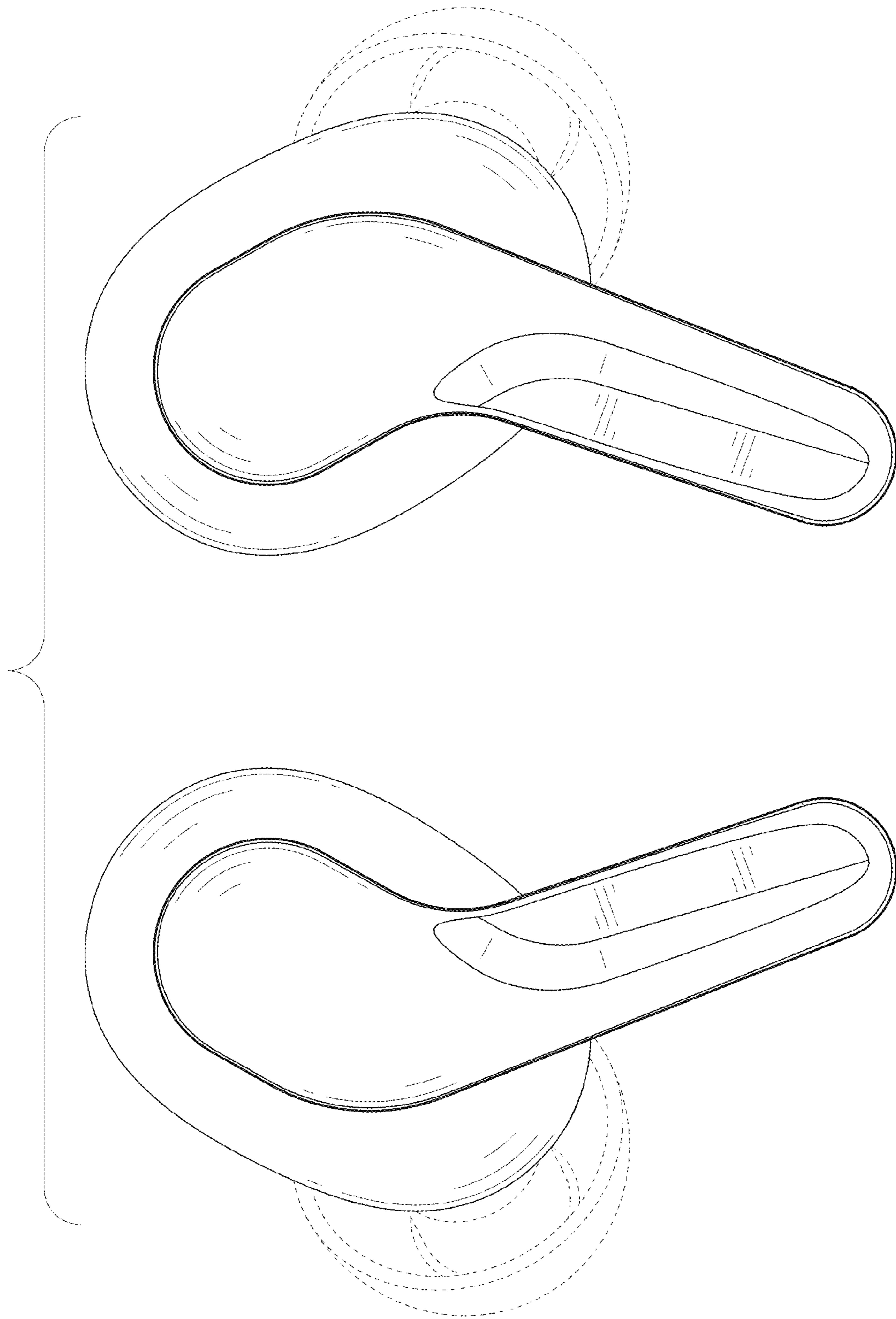


FIG. 3

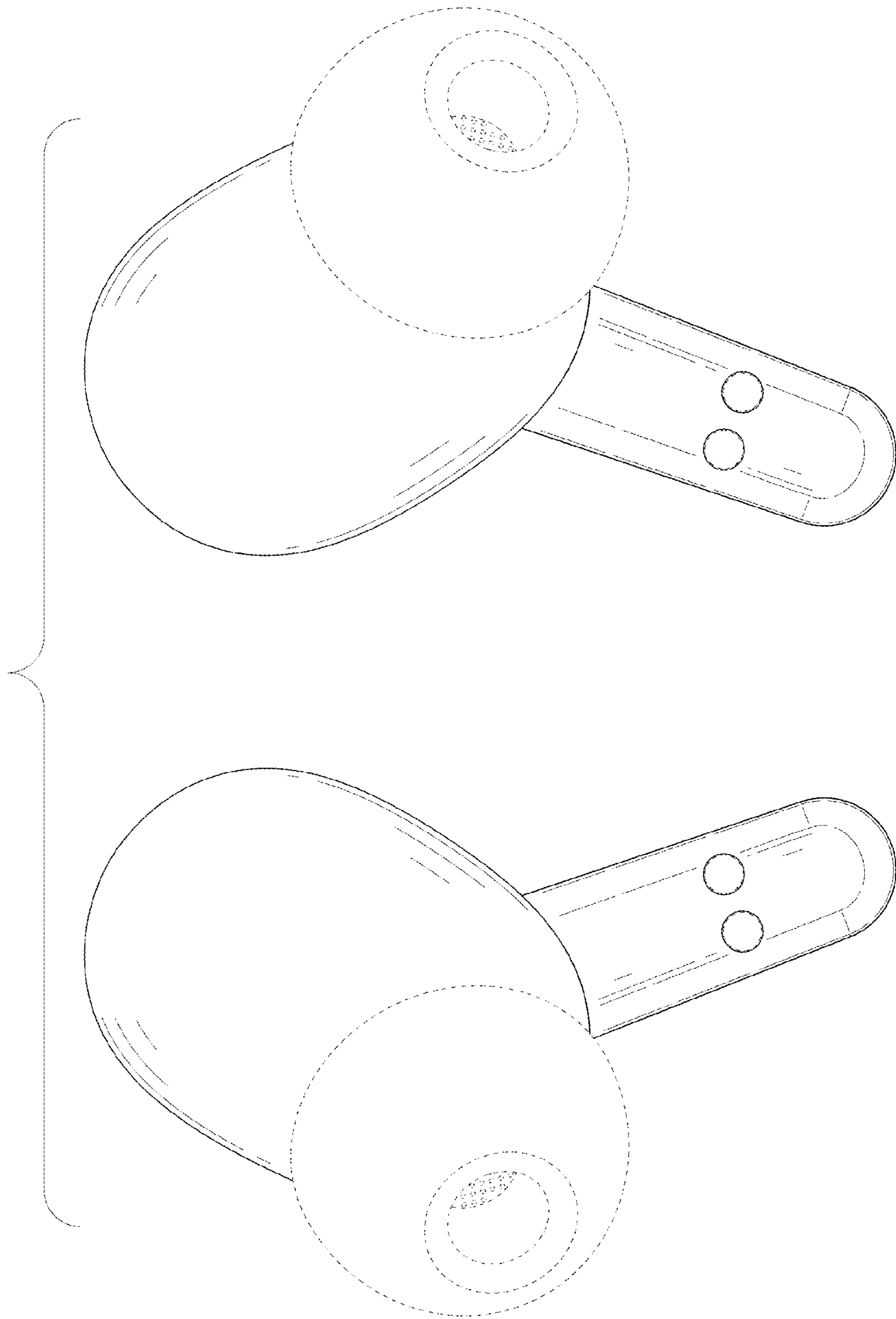


FIG. 4

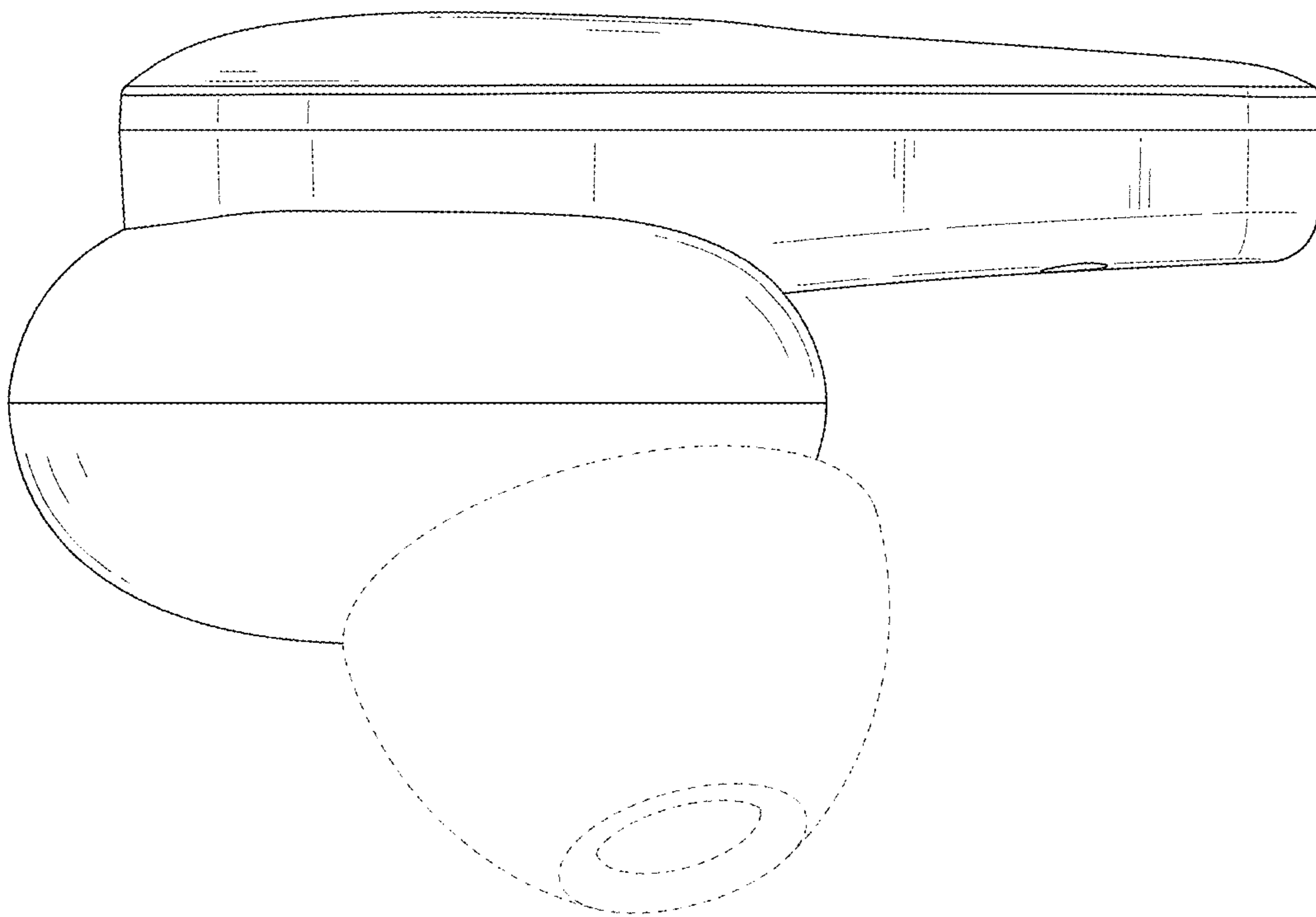


FIG. 5

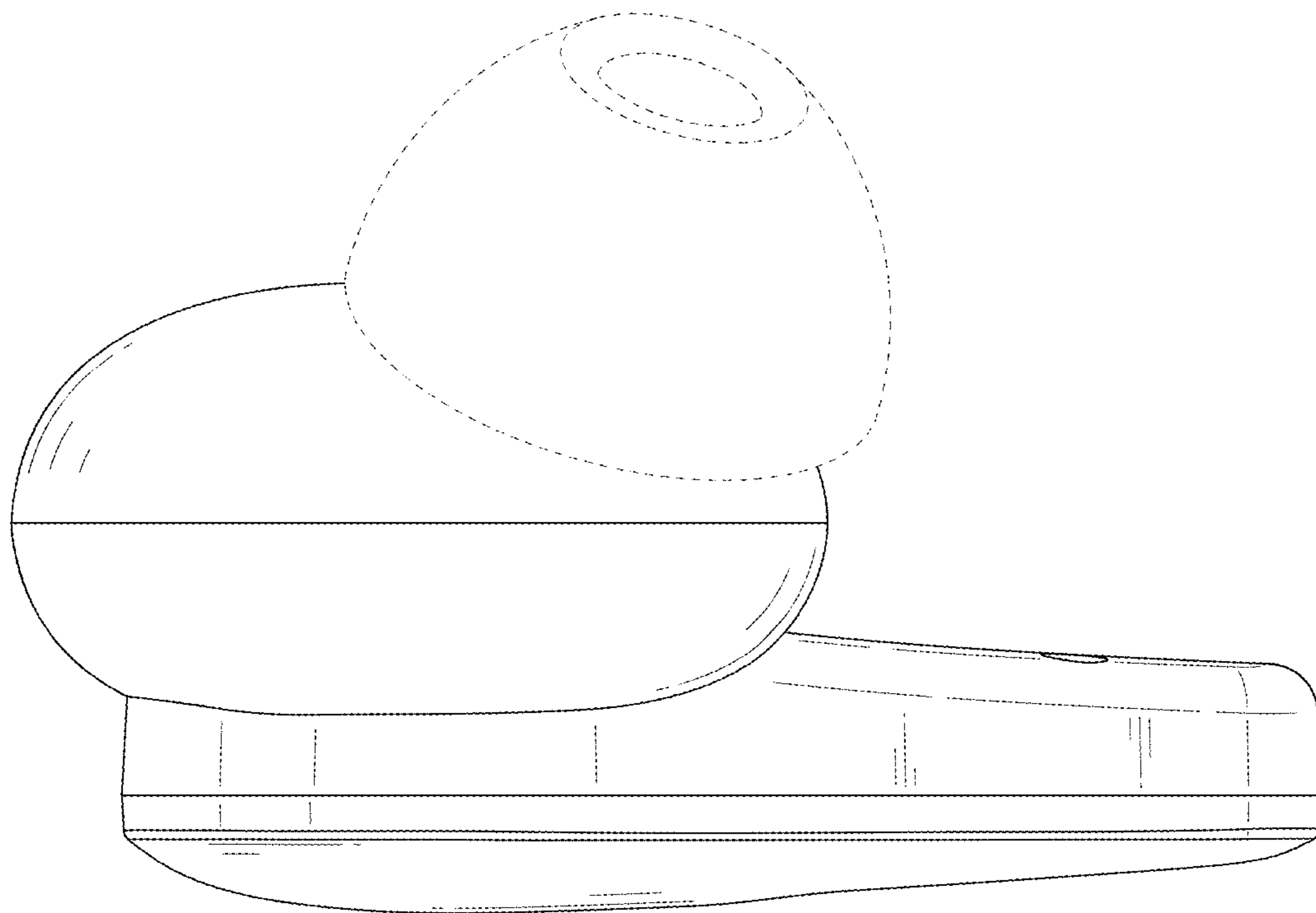


FIG. 6



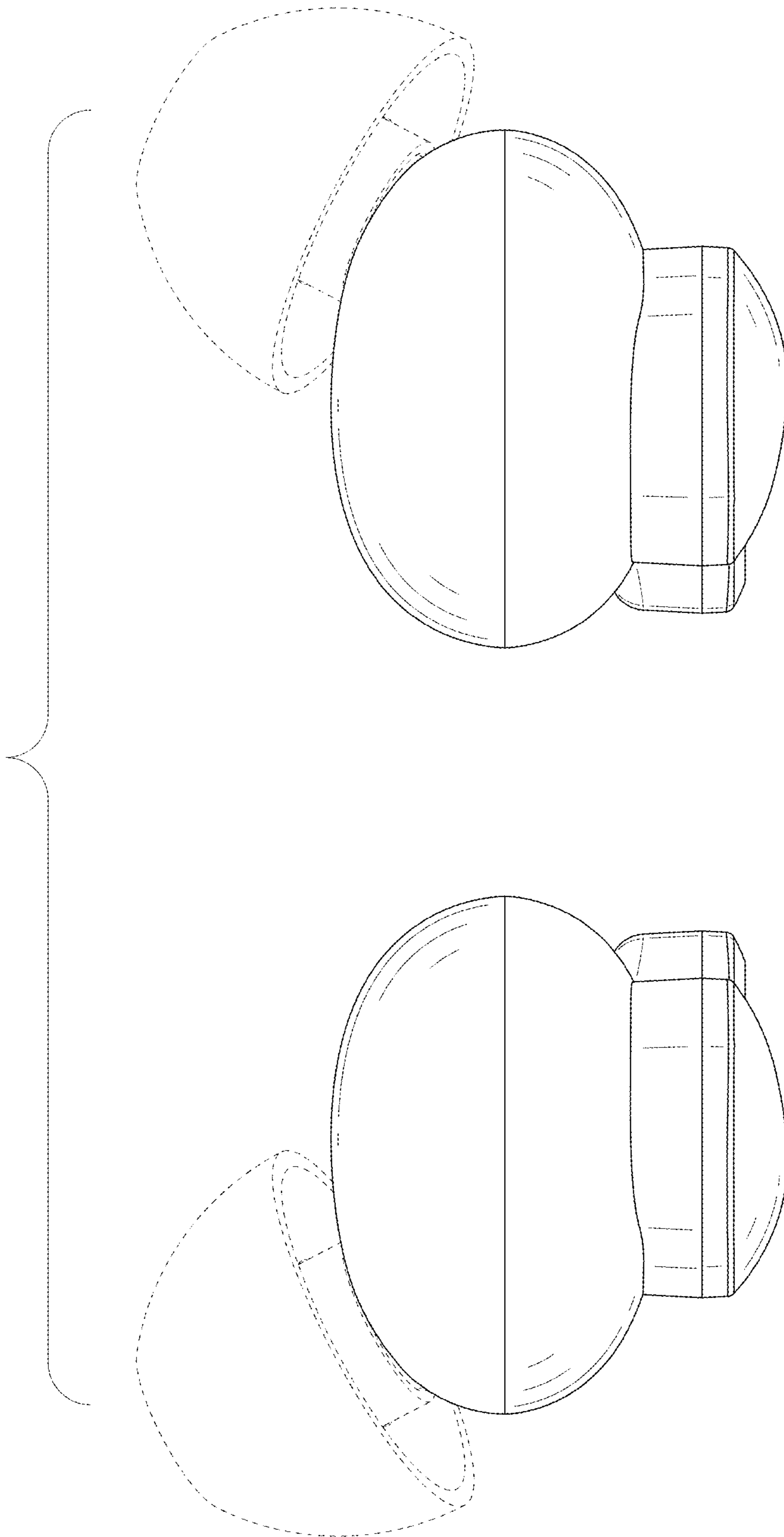


FIG. 7

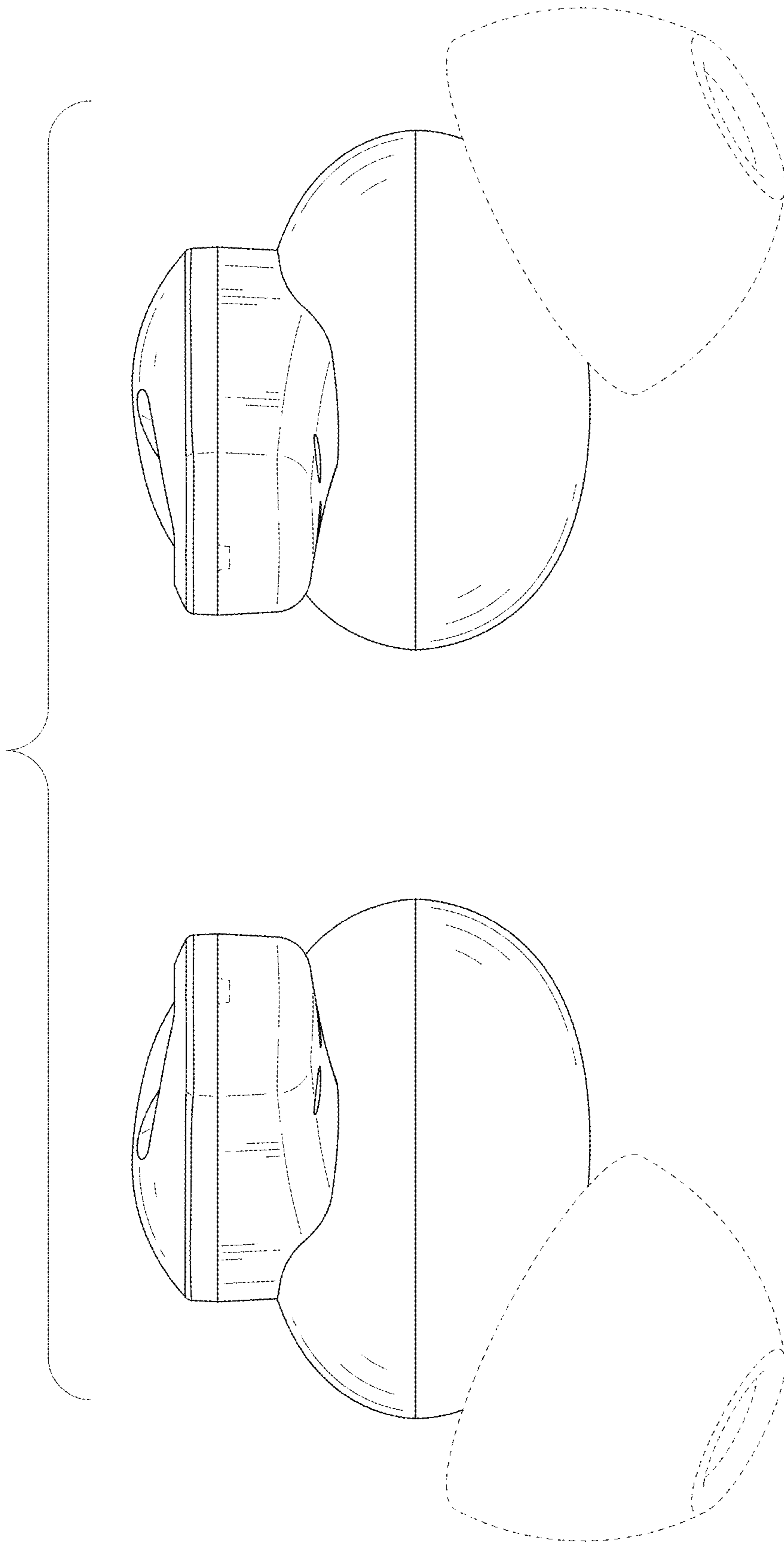


FIG. 8

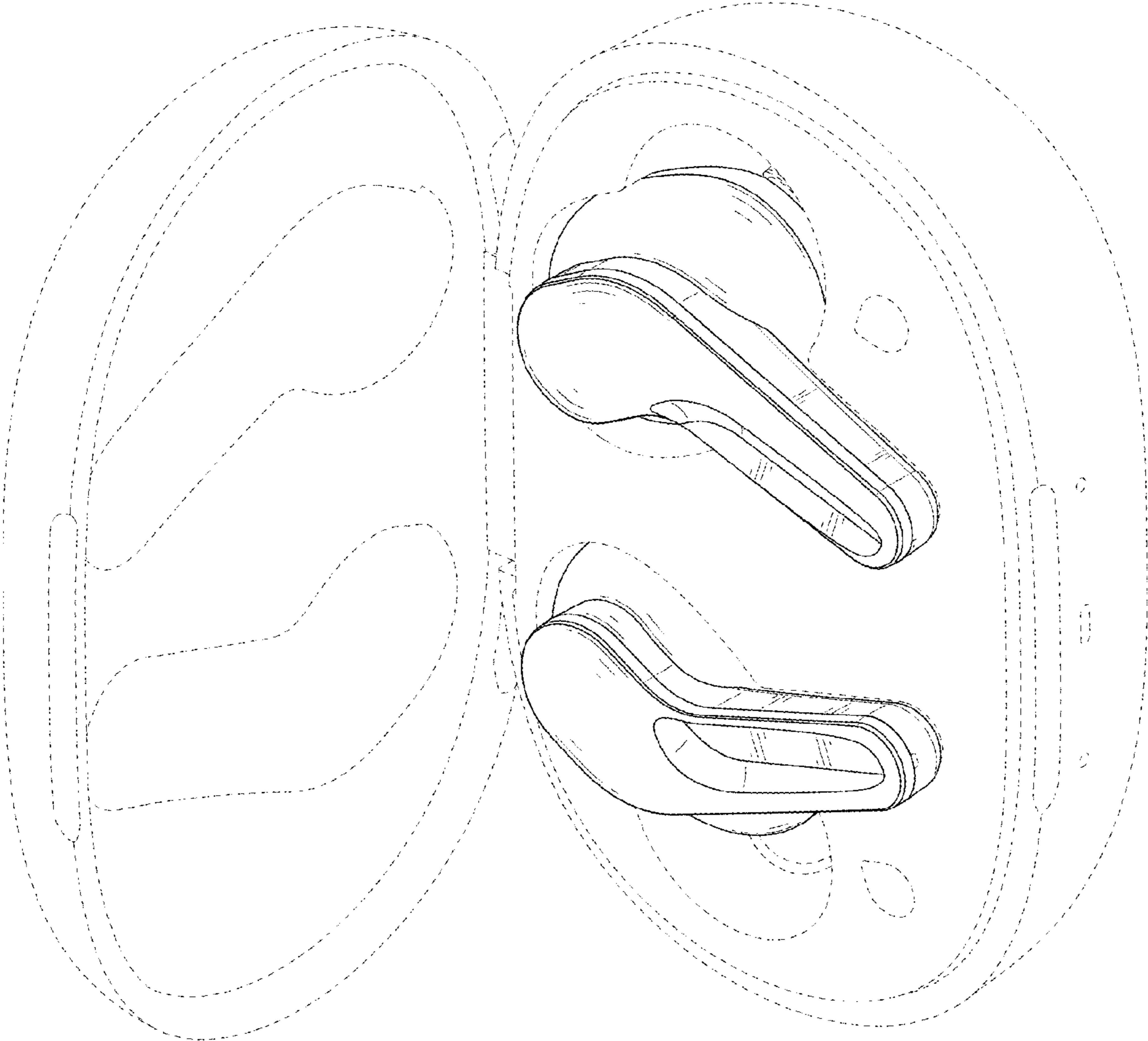


FIG. 9