



(12) **United States Design Patent**  
**Kim et al.**

(10) **Patent No.:** **US D929,967 S**  
(45) **Date of Patent:** **\*\* Sep. 7, 2021**

(54) **EARPHONE**

(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)

(72) Inventors: **Goang-Tae Kim**, Suwon-si (KR);  
**Sang-Sung Woo**, Suwon-si (KR);  
**Yong-Seok Bang**, Suwon-si (KR)

(73) Assignee: **SAMSUNG ELECTRONICS CO., LTD.**, Gyeonggi-Do (KR)

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

(21) Appl. No.: **29/712,866**

(22) Filed: **Nov. 12, 2019**

(30) **Foreign Application Priority Data**

Aug. 14, 2019 (KR) ..... 30-2019-0039017

(51) **LOC (13) 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

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D374,658 S \* 10/1996 Bever ..... D13/171  
D531,169 S \* 10/2006 Tokioka ..... D14/223  
D539,268 S \* 3/2007 Suzuki ..... D14/206  
D554,627 S \* 11/2007 Gondo ..... D14/223  
D556,741 S \* 12/2007 Yeo ..... D14/205

D567,217 S \* 4/2008 Kamo ..... D14/205  
D572,703 S \* 7/2008 Ledbetter ..... D14/205  
D576,154 S \* 9/2008 Ledbetter ..... D14/223  
D579,005 S \* 10/2008 Wilhelmsen ..... D14/223  
D587,681 S \* 3/2009 Yanai ..... D14/205  
D587,685 S \* 3/2009 Densho ..... D14/206  
D589,498 S \* 3/2009 Komiyama ..... D14/223  
D597,084 S \* 7/2009 Gondo ..... D14/223  
D598,894 S \* 8/2009 Masuda ..... D14/205  
D599,778 S \* 9/2009 Ando ..... D14/205  
D618,211 S \* 6/2010 Oguro ..... D14/205  
D626,117 S \* 10/2010 Lowry ..... D14/223  
D627,764 S \* 11/2010 Tsai ..... D14/223  
D628,564 S \* 12/2010 Chong ..... D14/223  
D629,395 S \* 12/2010 Lee ..... D14/223  
D639,282 S \* 6/2011 Ohori ..... D14/223  
D641,011 S \* 7/2011 Gondo ..... D14/223

(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 306267706 \* 1/2021  
GB 9007481684-0001 \* 1/2020  
WO D205131-001 \* 8/2019

*Primary Examiner* — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Cantor Colburn LLP

(57) **CLAIM**

The ornamental design for an earphone, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of an earphone, showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left-side view thereof;

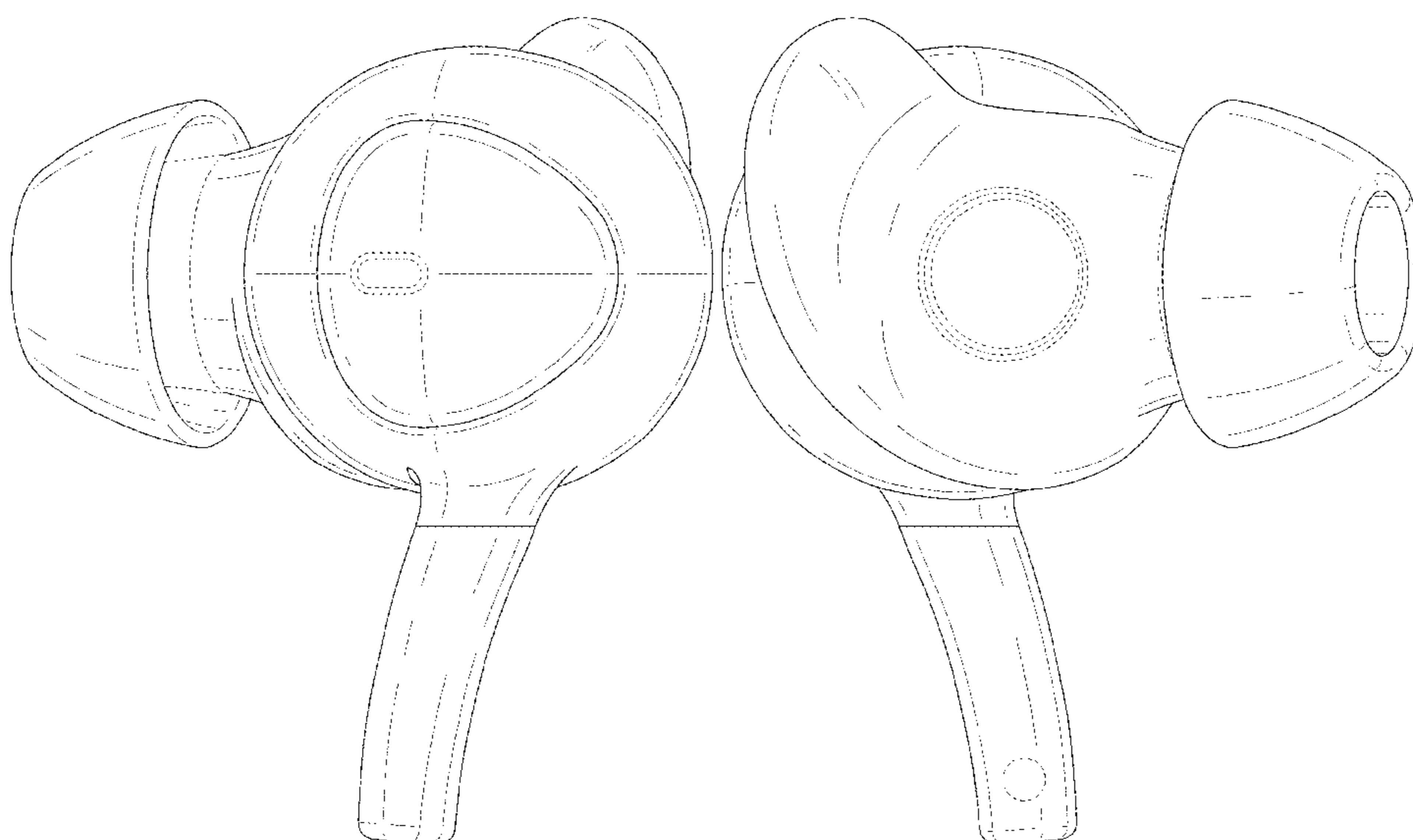
FIG. 5 is a right-side view thereof;

FIG. 6 is a top view thereof; and,

FIG. 7 is a bottom view thereof.

The even-dashed broken lines illustrating portions of the form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D642,163 S \* 7/2011 Lee ..... D14/223  
 D643,416 S \* 8/2011 Chong ..... D14/223  
 D647,081 S \* 10/2011 Kwon ..... D14/223  
 D660,290 S \* 5/2012 Weedon ..... D14/223  
 8,175,315 B2 \* 5/2012 Tanaka ..... H04R 1/1016  
 381/370  
 D664,523 S \* 7/2012 Naitou ..... D14/223  
 D666,580 S \* 9/2012 Lee ..... D14/223  
 D668,244 S \* 10/2012 Matsumura ..... D14/223  
 D678,251 S \* 3/2013 Cantoni ..... D14/223  
 8,422,717 B2 \* 4/2013 Lin ..... H04R 1/1091  
 381/372  
 D683,332 S \* 5/2013 Lee ..... D14/223  
 D689,848 S \* 9/2013 Lee ..... D14/223  
 D694,220 S \* 11/2013 Lee ..... D14/223  
 8,712,087 B2 \* 4/2014 Ozawa ..... H04R 1/1016  
 381/380  
 D718,286 S \* 11/2014 Yang ..... D14/223  
 D719,548 S \* 12/2014 Thompson ..... D14/223  
 D732,509 S \* 6/2015 Brunner ..... H04R 1/1016  
 D14/223  
 D735,699 S \* 8/2015 Yasuda ..... D14/223

D740,255 S \* 10/2015 Samrelius ..... D14/206  
 D742,860 S \* 11/2015 Miyake ..... D14/223  
 D744,456 S \* 12/2015 Pedersen ..... D14/223  
 D746,268 S \* 12/2015 Karayiannis ..... D14/223  
 D746,792 S \* 1/2016 Kim ..... D14/205  
 D751,530 S \* 3/2016 Kolton ..... D14/205  
 D760,202 S \* 6/2016 Hsieh ..... D14/223  
 D762,196 S \* 7/2016 Hsieh ..... D14/223  
 D762,616 S \* 8/2016 Hsieh ..... D14/205  
 D809,487 S \* 2/2018 Lee ..... D14/223  
 D813,196 S \* 3/2018 Yang ..... D14/205  
 D814,438 S \* 4/2018 Brunner ..... D14/205  
 D815,069 S \* 4/2018 Xiong ..... D14/223  
 D825,534 S \* 8/2018 Kim ..... D14/223  
 D876,398 S \* 2/2020 Cai ..... D14/223  
 D904,350 S \* 12/2020 Zhou ..... D14/223  
 D908,114 S \* 1/2021 Jung ..... D14/223  
 D911,315 S \* 2/2021 Hutchison ..... D14/223  
 D913,993 S \* 3/2021 Sugiura ..... D14/223  
 2007/0189570 A1 \* 8/2007 Matsuo ..... H04R 1/02  
 381/382  
 2008/0013774 A1 \* 1/2008 Hosaka ..... H04R 1/2842  
 381/380  
 2011/0249856 A1 \* 10/2011 Takei ..... H04R 1/1016  
 381/380

\* cited by examiner

FIG. 1

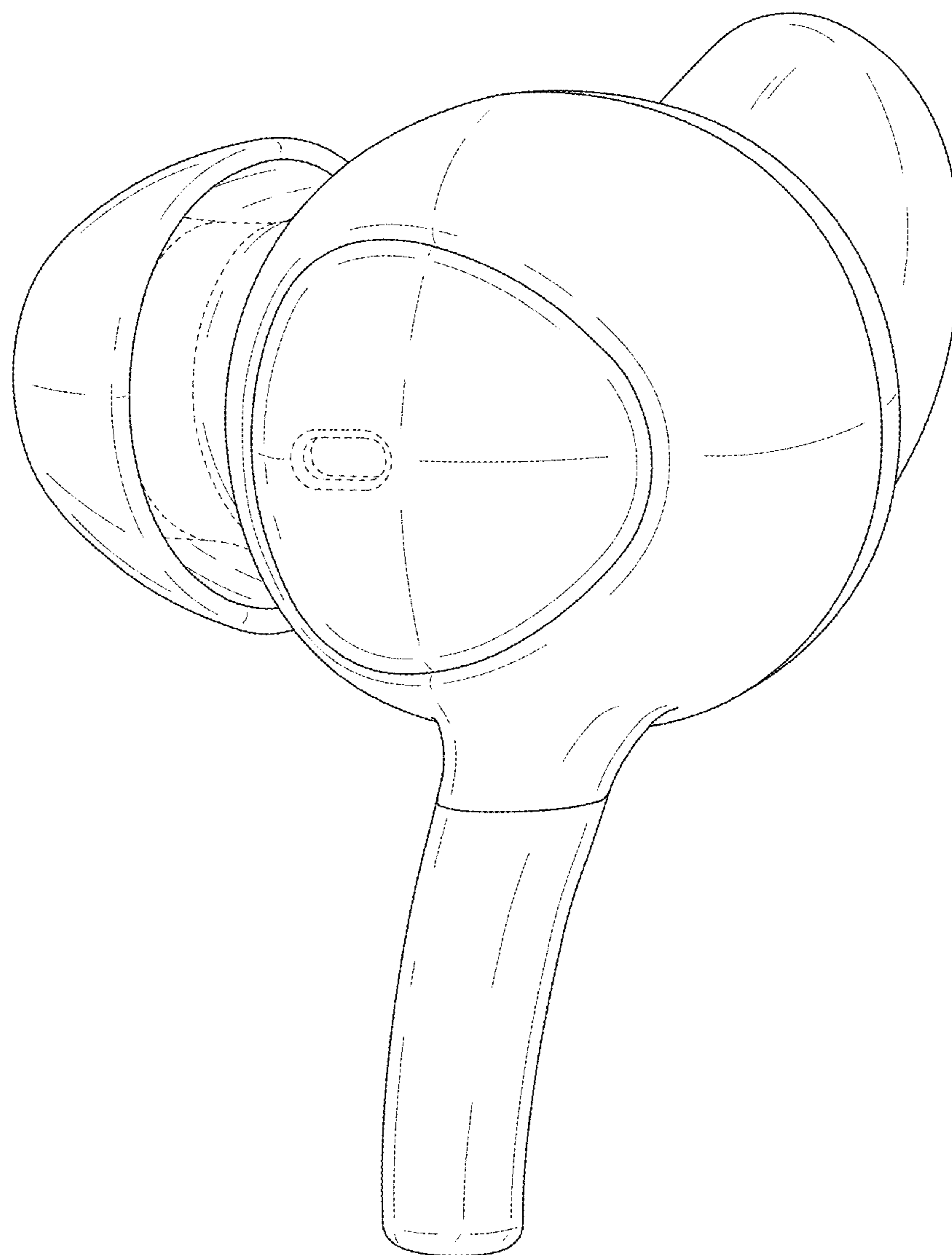


FIG. 2

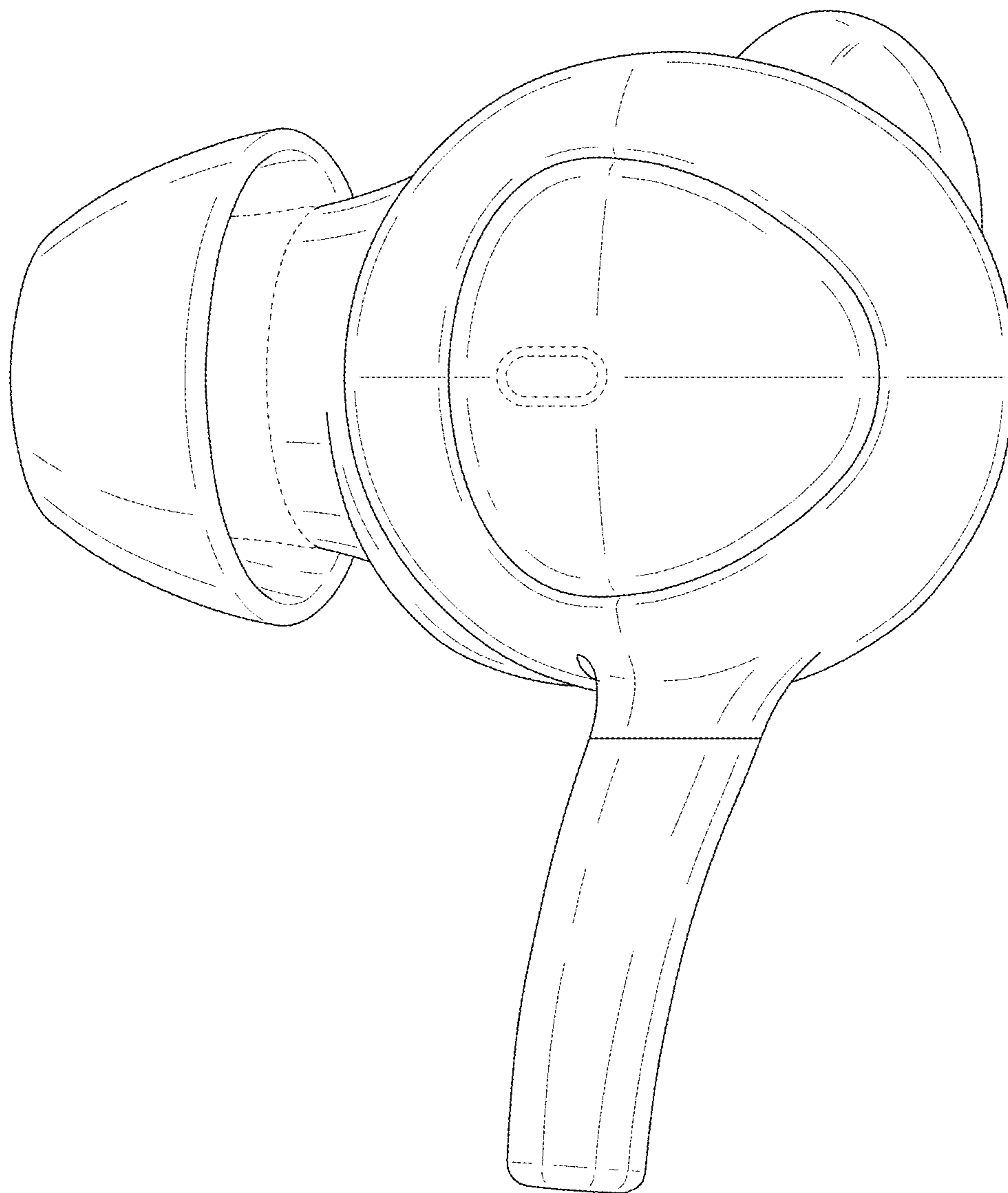


FIG. 3

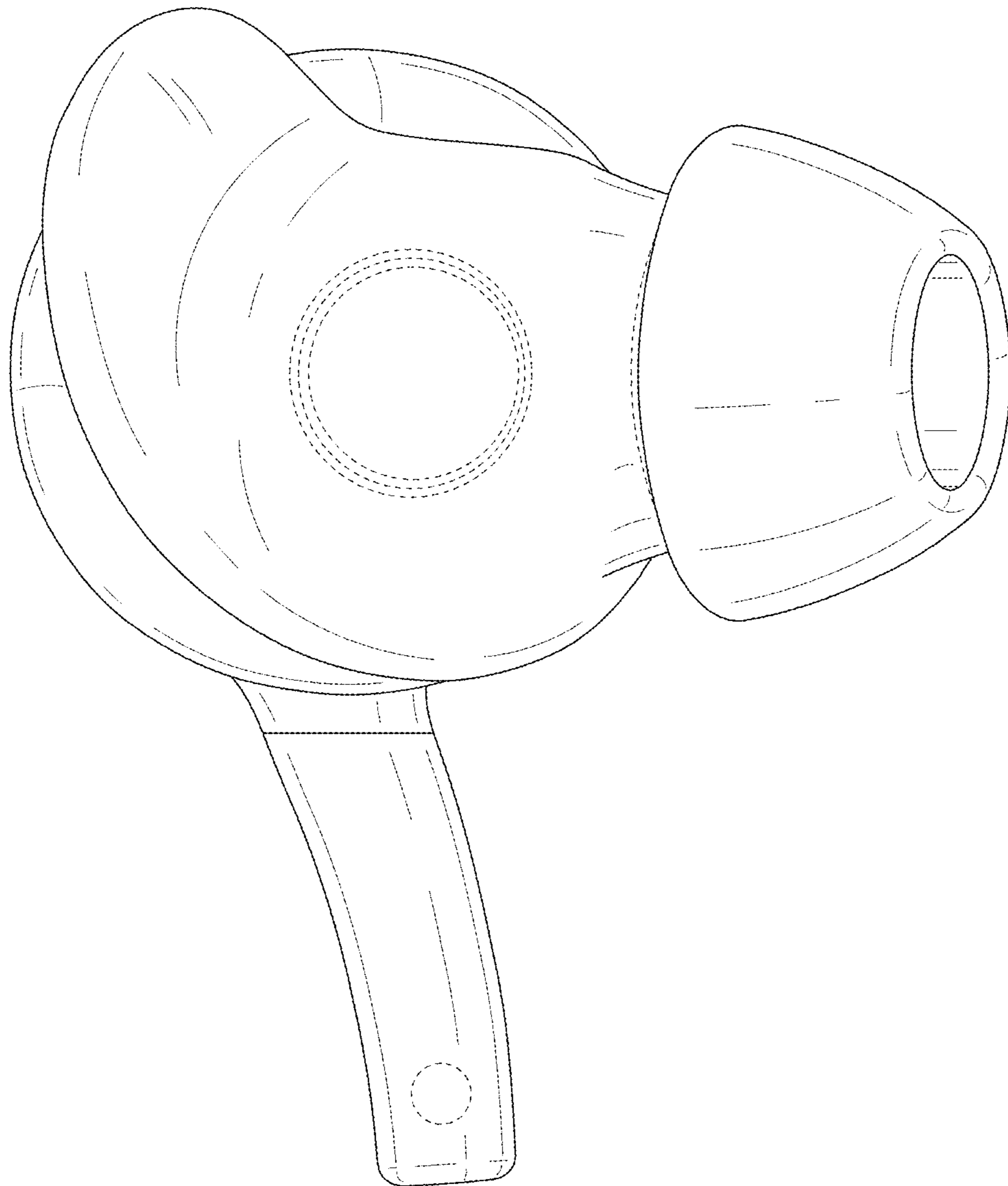




FIG. 4

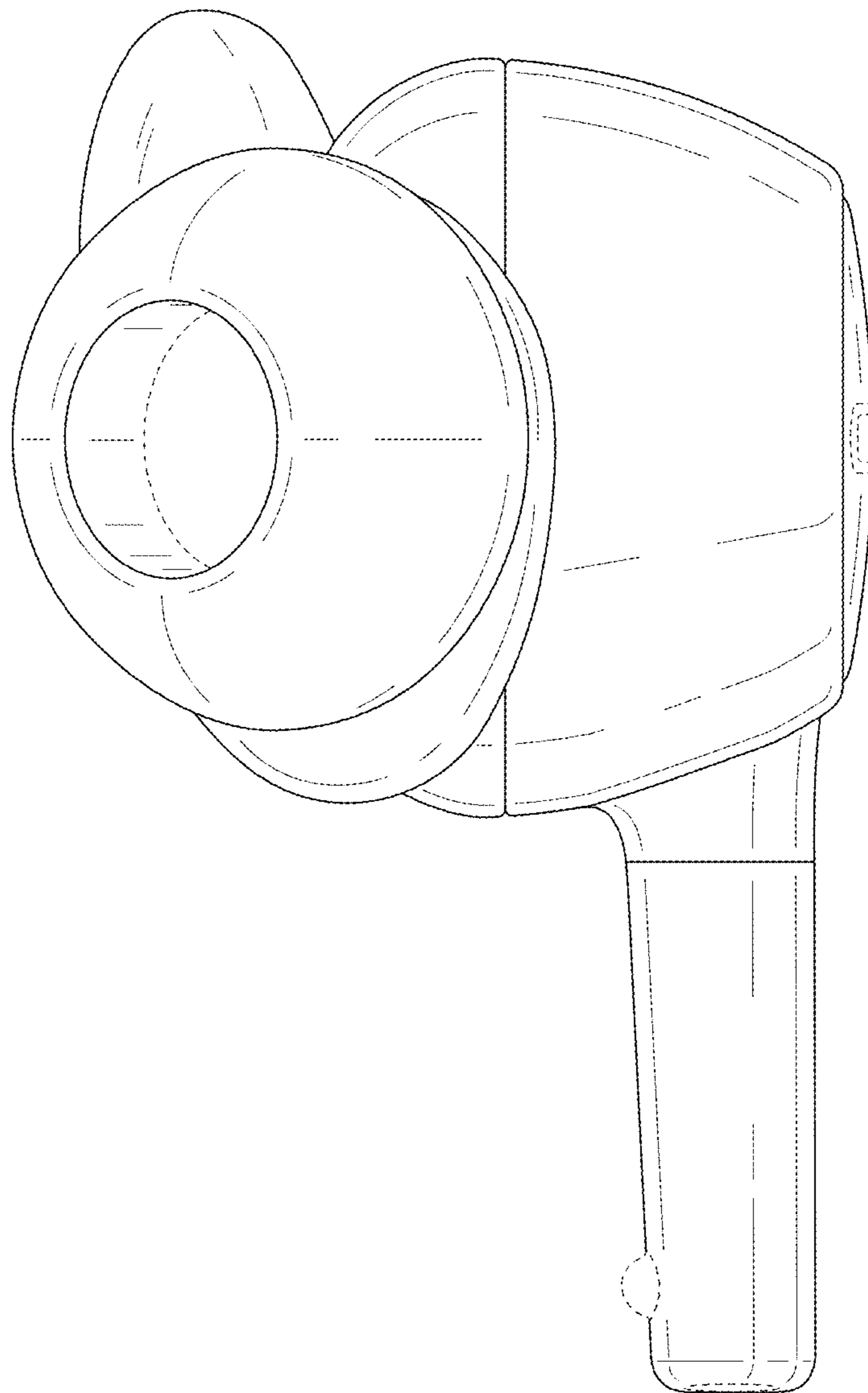


FIG. 5

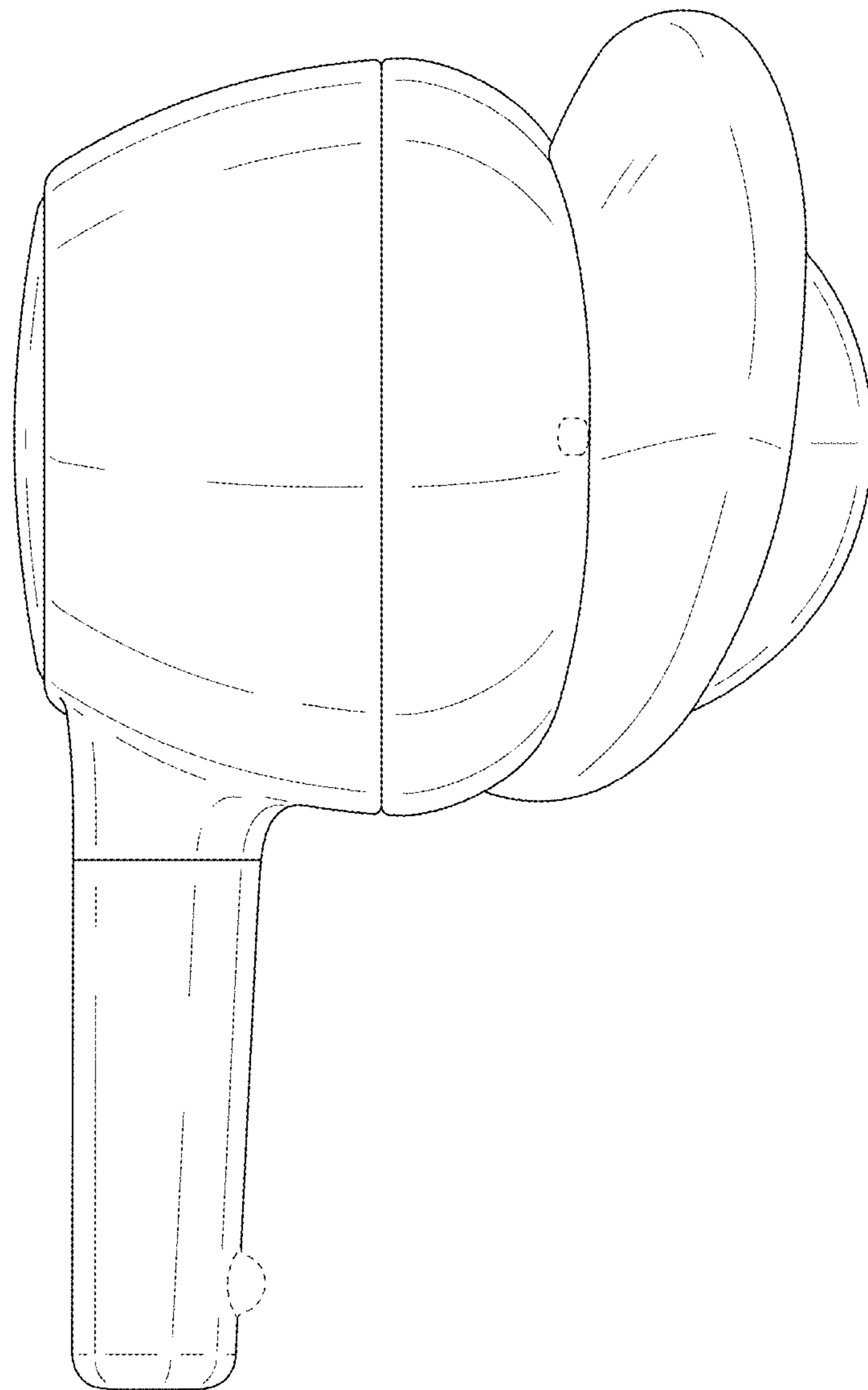


FIG. 6

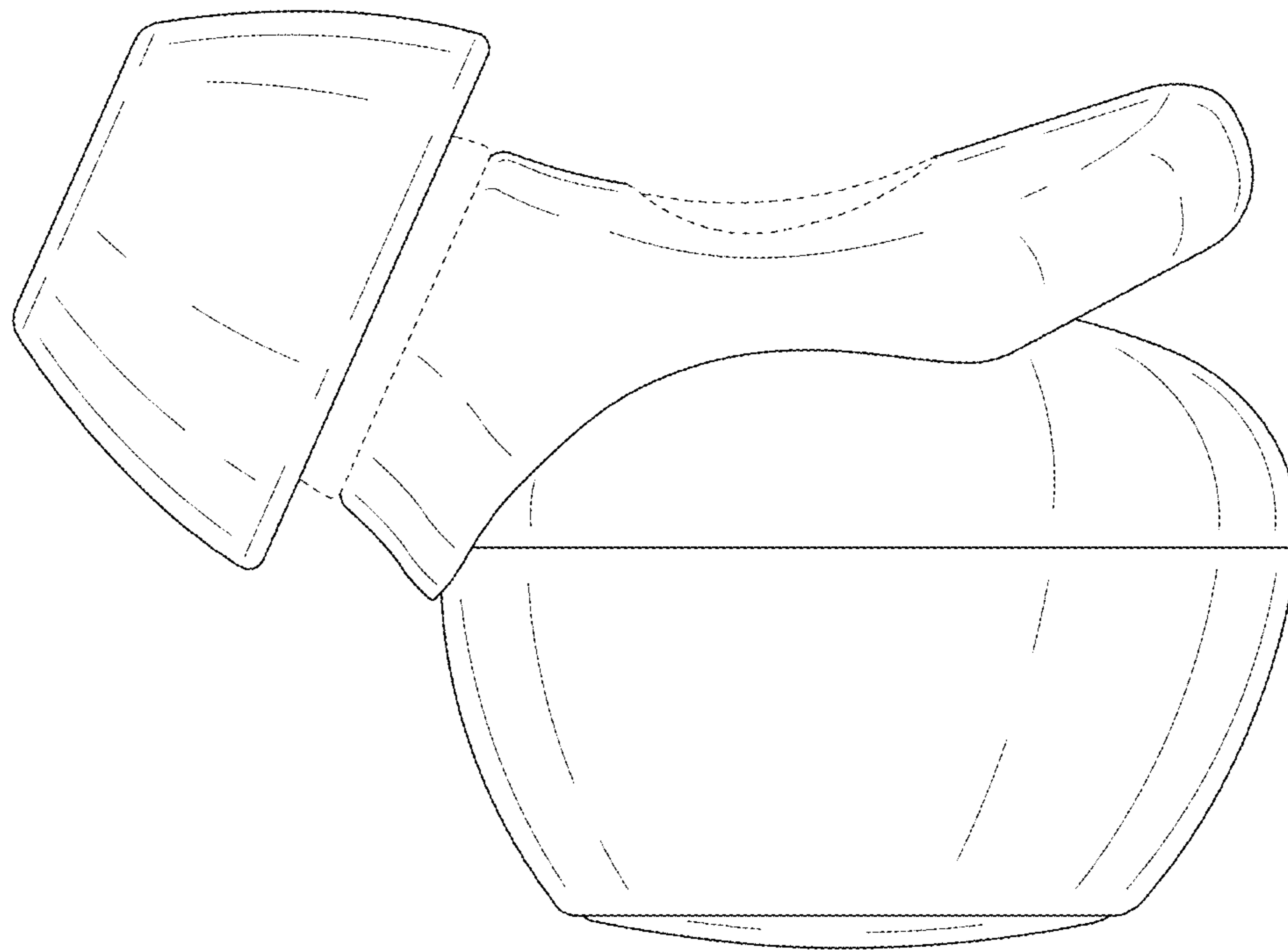




FIG. 7

