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

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(54) **HEADPHONE**

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

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

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

(58) **Field of Classification Search**
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381/322, 328, 370, 380, 381; 455/90.3,
455/575.1, 569.1
CPC H04R 1/10; H04R 25/00; H04R 1/1066;
H04R 1/1016; H04R 5/033; H04R
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H04R 1/1083; H04R 1/1058
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 1,406,510 A * 2/1922 Louis Weber H04R 1/1016
381/380
- 3,527,902 A * 9/1970 Vanliempd H04R 1/38
381/356
- 4,646,872 A * 3/1987 Kamon H04R 1/225
181/129
- 4,972,492 A * 11/1990 Tanaka H04R 1/1016
181/130
- 4,981,194 A * 1/1991 Kamon H04R 1/22
181/129
- D331,061 S * 11/1992 Hyohgo D14/223
- D353,379 S * 12/1994 Nakamura D14/223

- D357,921 S * 5/1995 Ming-Chin D14/223
- 5,742,697 A * 4/1998 Ching-Chung H04R 1/083
381/355
- 6,574,345 B1 * 6/2003 Huang H04R 1/1016
379/430
- 6,668,064 B1 * 12/2003 Lin H04R 1/1016
381/328
- D487,077 S * 2/2004 Obata D14/223
- D509,210 S * 9/2005 Skulley D14/205
- D512,049 S * 11/2005 Yang D14/205
- D539,782 S * 4/2007 Lee D14/188
- D549,222 S * 8/2007 Huang A61F 11/08
D14/223

(Continued)

FOREIGN PATENT DOCUMENTS

- EM 006952644-0001 * 9/2019
- EM 007694153-0001 * 2/2020

(Continued)

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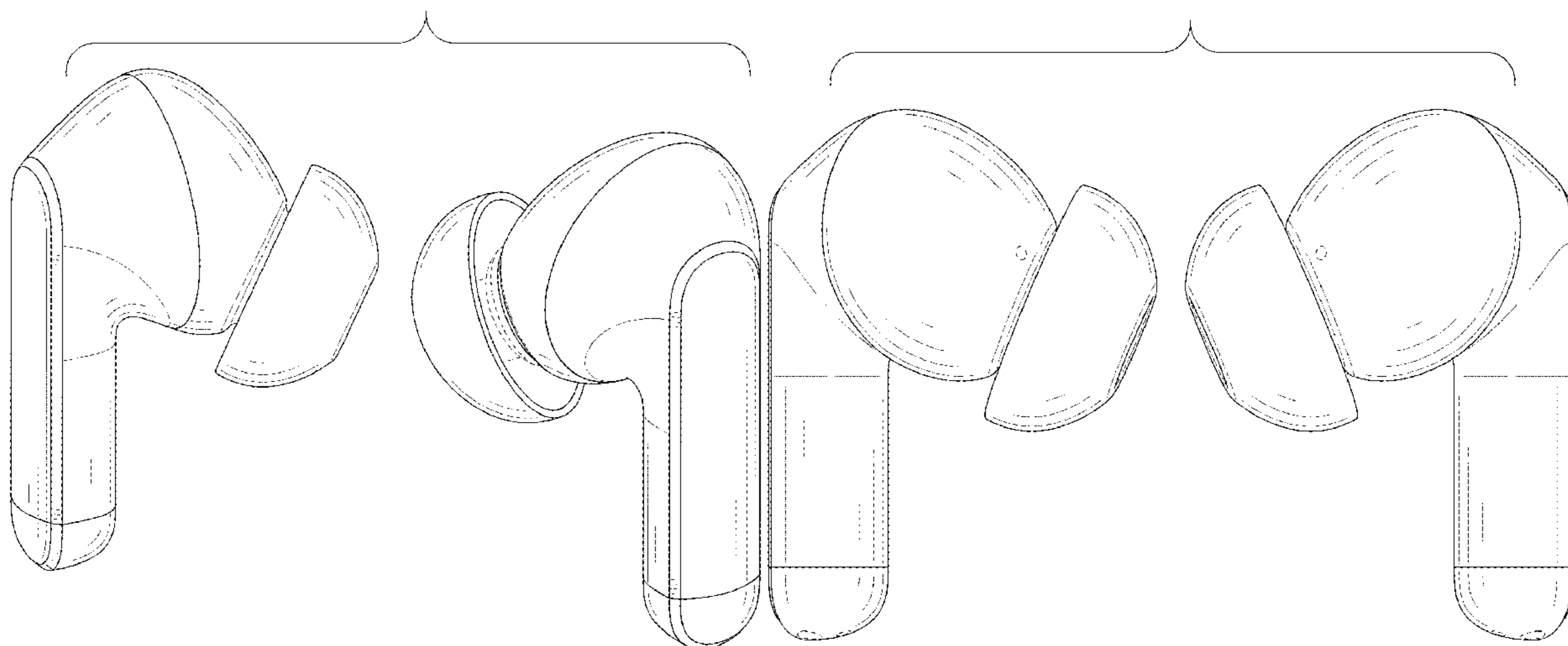
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a first perspective view of a headphone showing my new design;
 FIG. 2 is a second perspective view thereof;
 FIG. 3 is a front view thereof;
 FIG. 4 is a back view thereof;
 FIG. 5 is a left side view thereof;
 FIG. 6 is a right side view thereof;
 FIG. 7 is a top view thereof; and,
 FIG. 8 is a bottom view thereof.
 The broken lines depict environment that is for illustrative purposes only; the broken lines form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D554,109 S * 10/2007 Ledbetter D14/223
 D555,151 S * 11/2007 Eklund D14/223
 D555,152 S * 11/2007 Wang D14/223
 D556,741 S * 12/2007 Yeo D14/205
 D561,179 S * 2/2008 Sade D14/223
 D564,495 S * 3/2008 Sasaki D14/205
 D572,242 S * 7/2008 Yang D14/205
 D573,977 S * 7/2008 Ledbetter D14/205
 D574,366 S * 8/2008 Sade D14/223
 D575,269 S * 8/2008 Ledbetter D14/205
 D583,804 S * 12/2008 Mahler D14/223
 D590,378 S * 4/2009 Bradford D14/223
 D591,722 S * 5/2009 Densho D14/205
 D606,980 S * 12/2009 Bradford D14/218
 D617,779 S * 6/2010 Nylen D14/223
 D618,221 S * 6/2010 Fahrendorff D14/223
 D627,766 S * 11/2010 Arimoto D14/223
 D628,193 S * 11/2010 Zheng D14/223
 D632,680 S * 2/2011 Anneback D14/228
 D633,086 S * 2/2011 Chen D14/223
 D635,558 S * 4/2011 Zheng D14/206
 D639,279 S * 6/2011 Andre D14/223
 D641,738 S * 7/2011 Perez D14/223
 D652,823 S * 1/2012 Chen H04R 25/00
 D653,235 S * 1/2012 McManigal D14/205
 D656,481 S * 3/2012 McManigal D14/205
 D662,493 S * 6/2012 Chen D14/223
 D671,531 S * 11/2012 Kim D14/223
 D679,267 S * 4/2013 Lee D14/223
 D681,015 S * 4/2013 Akana H04R 1/1016
 D689,471 S * 9/2013 Hardi D14/223
 D701,197 S 3/2014 Kelly et al.
 8,712,087 B2 * 4/2014 Ozawa H04R 1/345
 D718,284 S * 11/2014 Shibusawa D14/223
 8,908,899 B1 * 12/2014 Yang H04R 1/1033
 381/370

9,042,583 B2 * 5/2015 Buyens H04R 25/50
 381/312
 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
 D764,445 S 8/2016 Czaniecki
 D773,439 S * 12/2016 Walker D14/205
 D801,314 S * 10/2017 Akana D14/223
 D803,184 S * 11/2017 Loh Jun Kern D14/205
 D820,809 S * 6/2018 Akana D14/205
 D830,336 S * 10/2018 Cai D14/205
 D832,823 S * 11/2018 Xiao D14/223
 D832,824 S * 11/2018 Kim D14/223
 D845,932 S 4/2019 Lu
 D847,125 S * 4/2019 Akana D14/223
 D847,794 S * 5/2019 Guo D14/223
 D848,983 S * 5/2019 Kim D14/223
 D861,647 S * 10/2019 Chen D14/223
 D863,262 S * 10/2019 Roberts D14/223
 D864,165 S * 10/2019 Roberts D14/223
 D864,169 S * 10/2019 Min D14/223
 D869,445 S * 12/2019 Hu D14/223
 D872,711 S * 1/2020 Hu D14/223
 D883,260 S * 5/2020 Hu D14/223
 2012/0237074 A1 * 9/2012 Aase H04R 1/1075
 381/380
 2012/0275635 A1 * 11/2012 Chen H04R 1/1075
 381/380
 2013/0343585 A1 * 12/2013 Bennett H04R 25/554
 381/315
 2015/0382100 A1 * 12/2015 Azmi H04R 1/2811
 381/380
 2017/0164087 A1 * 6/2017 Kurtz H04R 1/1066

FOREIGN PATENT DOCUMENTS

EM 007810056-0001 * 4/2020
 GB 6081444 * 1/2020

* cited by examiner

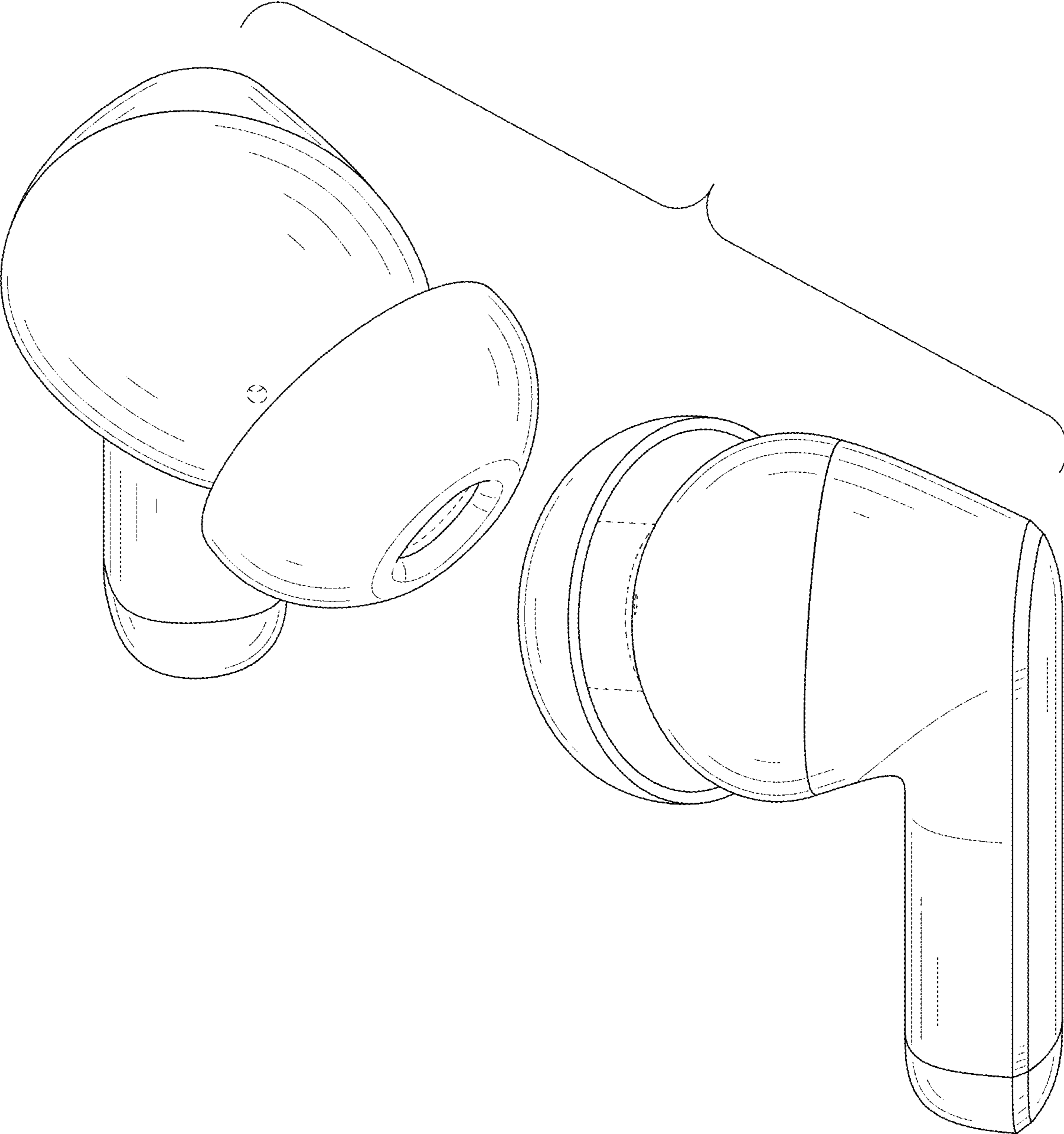


FIG. 1

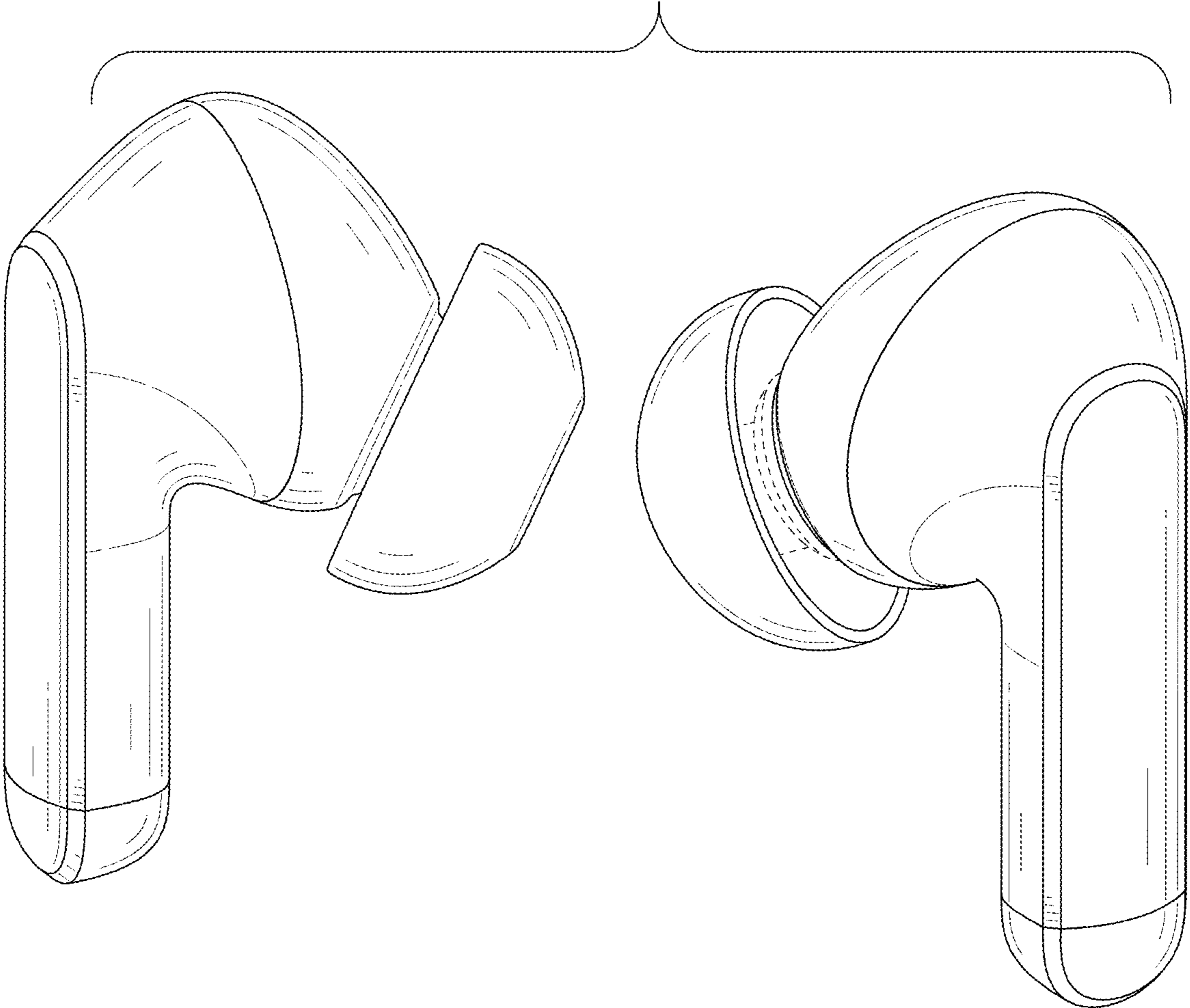


FIG. 2

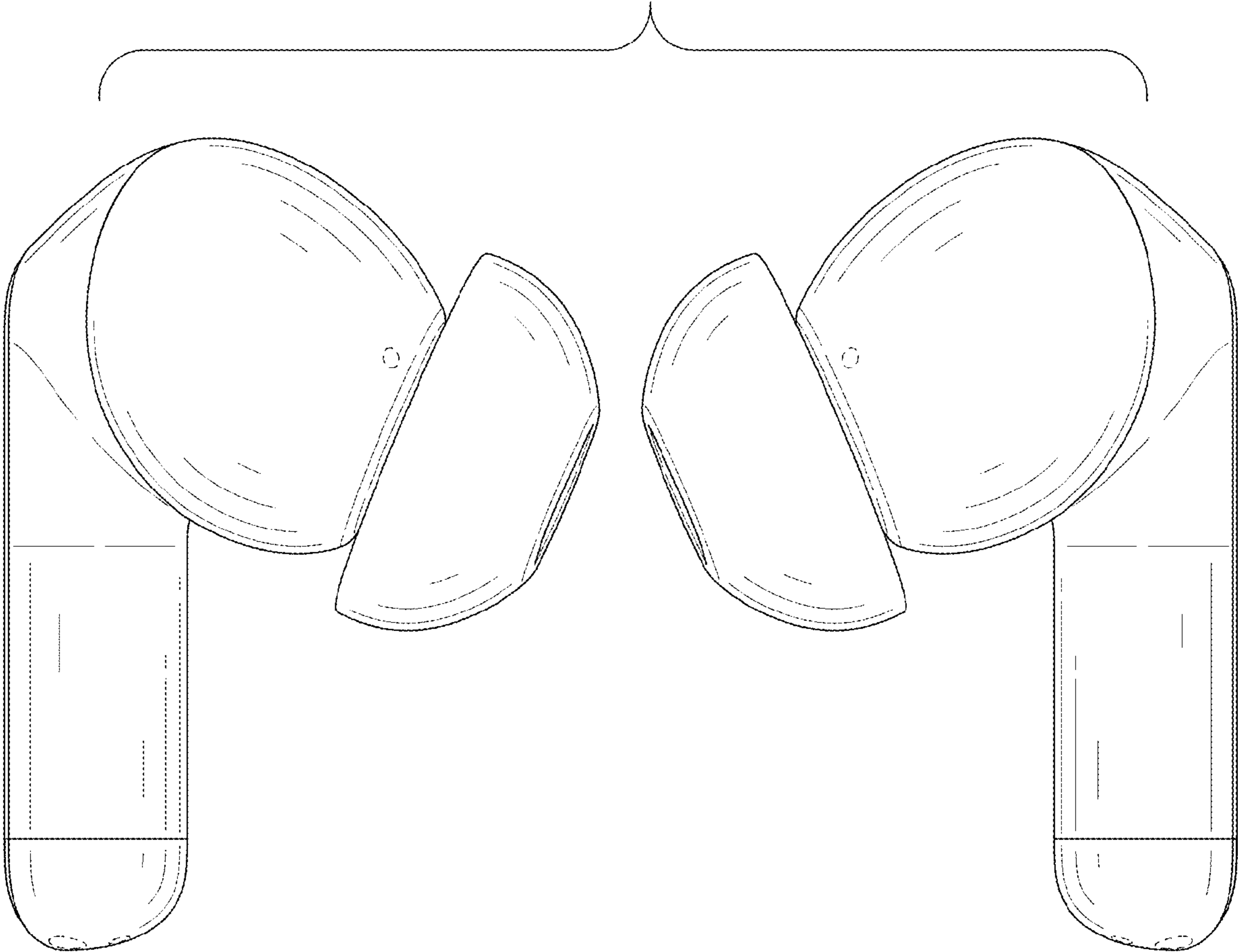


FIG. 3

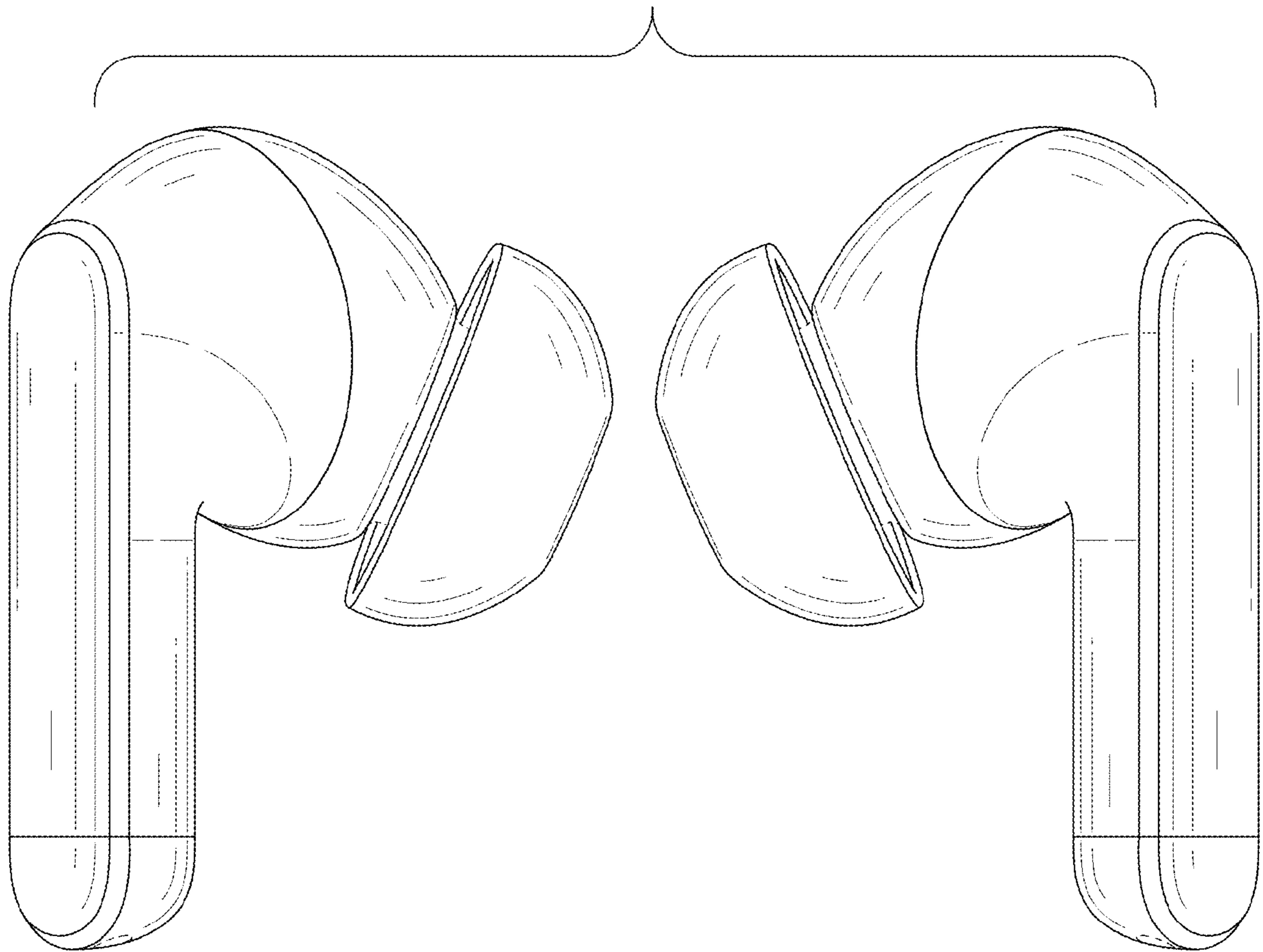


FIG. 4

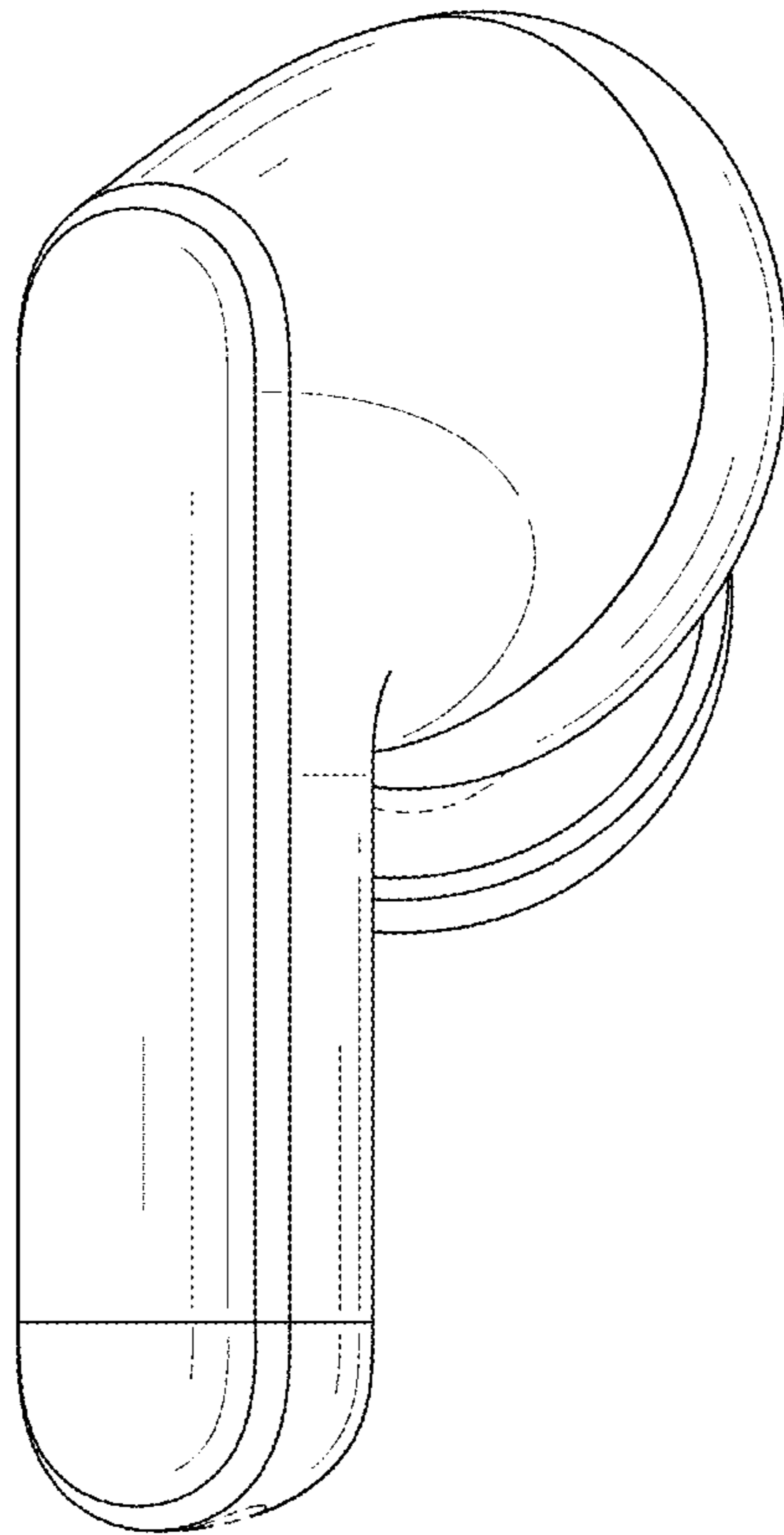


FIG. 5

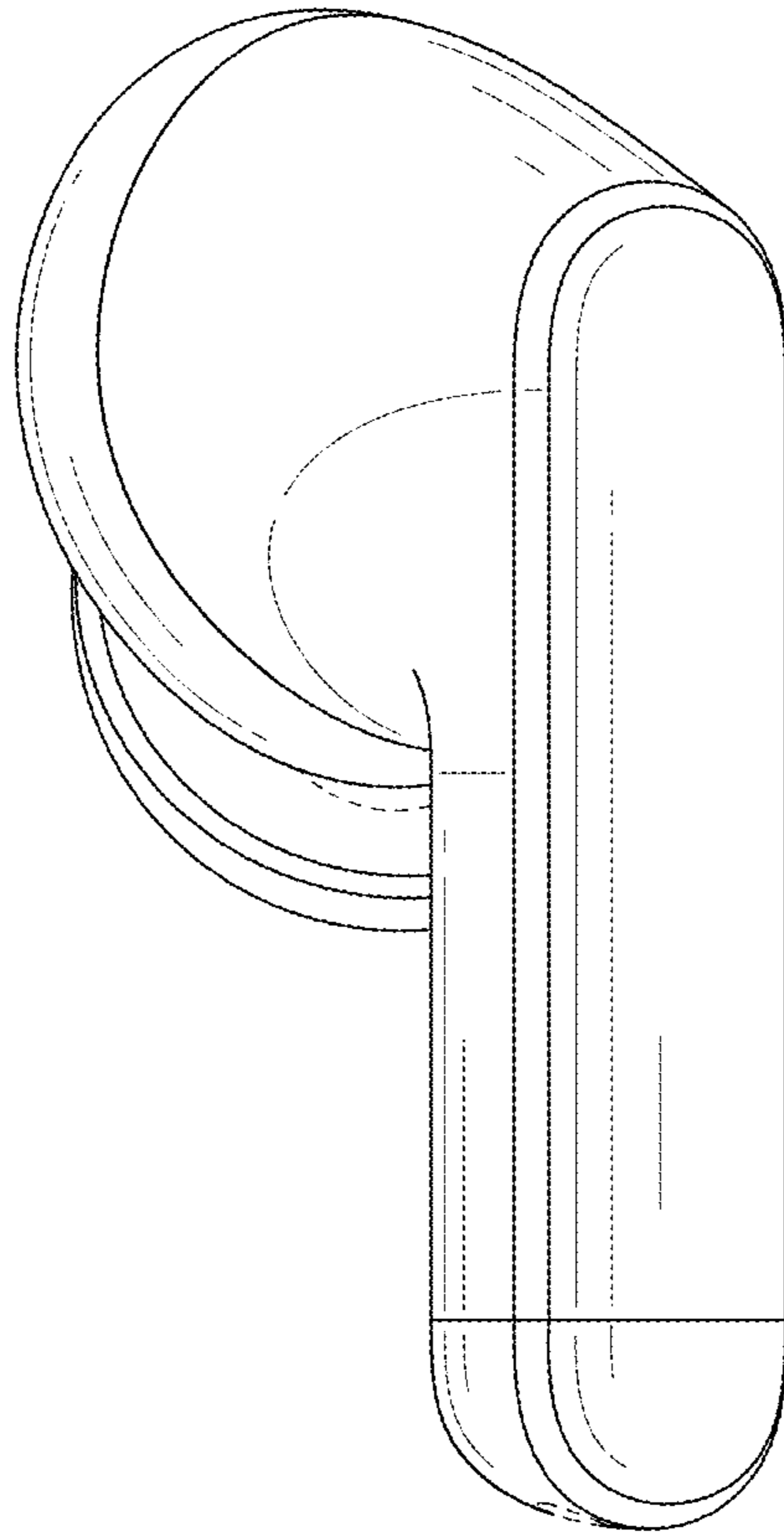


FIG. 6

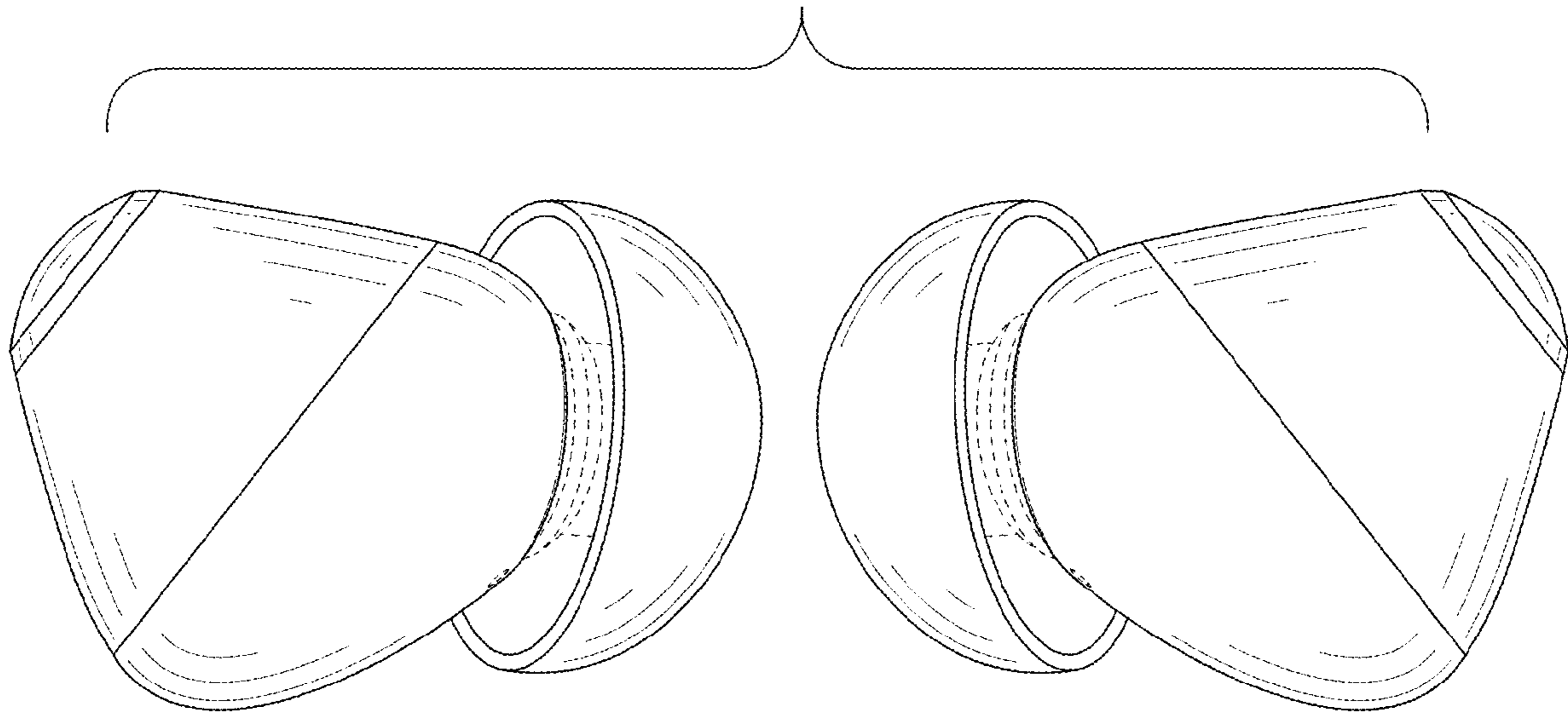


FIG. 7

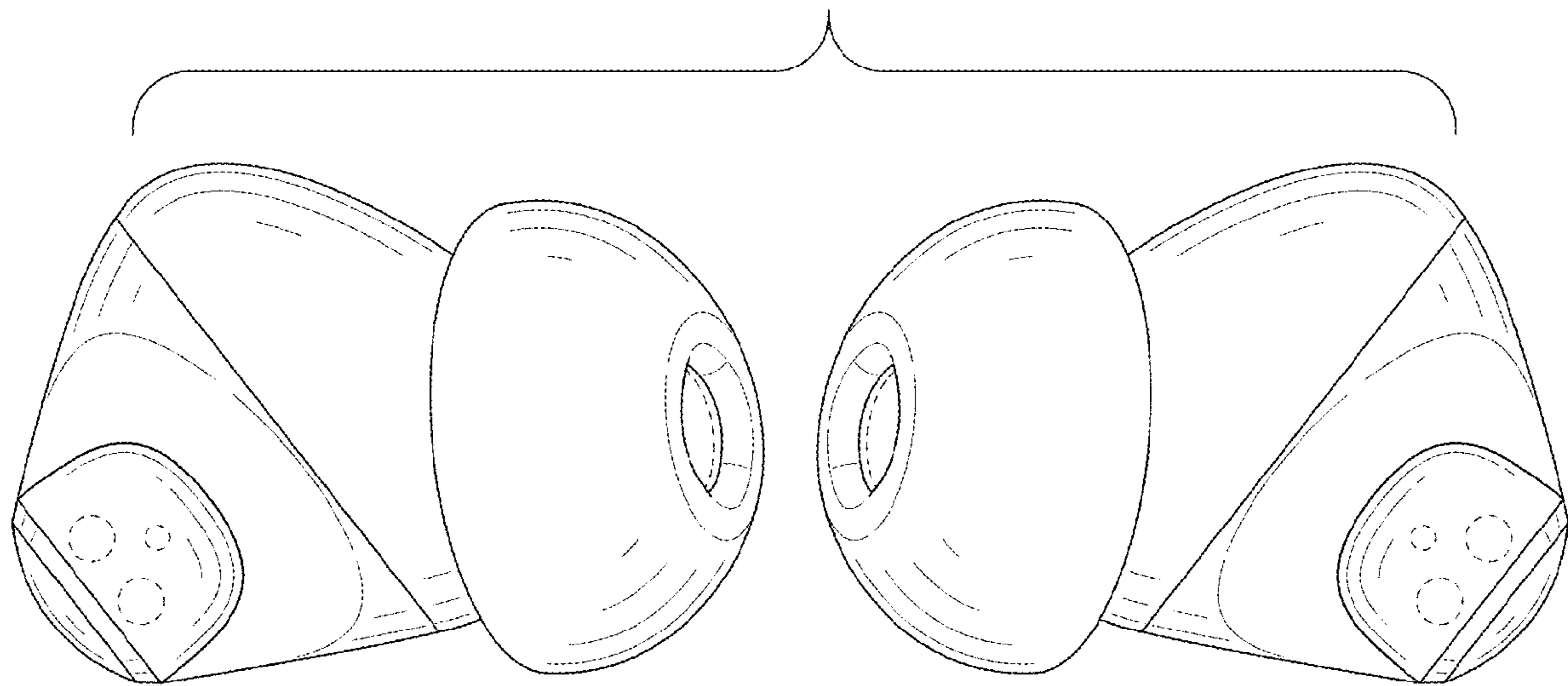


FIG. 8