



US00D853995S

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

(10) **Patent No.:** **US D853,995 S**
(45) **Date of Patent:** **** Jul. 16, 2019**

(54) **EARPHONE**
(71) Applicant: **Guangzhou Lanshidun Electronic Limited Company, Guangzhou (CN)**
(72) Inventor: **Hejin Cai, Guangzhou (CN)**
(73) Assignee: **Guangzhou Lanshidun Electronic Limited Company, Guangzhou (CN)**
(**) Term: **15 Years**

D575,269 S * 8/2008 Ledbetter D14/205
D578,518 S * 10/2008 Ewert D14/223
D579,923 S * 11/2008 Andre D14/205
D587,677 S * 3/2009 Andre D14/205
D589,491 S * 3/2009 Andre D14/205
D590,375 S * 4/2009 Komiyama D14/223
D593,537 S * 6/2009 Arimoto D14/205
D596,616 S * 7/2009 Andre D14/205
D599,330 S * 9/2009 Andre D14/223
D601,134 S * 9/2009 Elabidi D14/223
D616,874 S * 6/2010 Matsuoka D14/223
D618,209 S * 6/2010 Andre D14/205

(Continued)

(21) Appl. No.: **29/677,832**
(22) Filed: **Jan. 24, 2019**
(51) **LOC (11) Cl.** **14-01**
(52) **U.S. Cl.**
USPC **D14/223**
(58) **Field of Classification Search**
USPC D14/223, 205; 181/129, 130, 135;
379/430, 431; 381/380, 381, 374;
455/90.3, 575.1, 569.1
CPC H04R 1/10; H04R 25/00; H04R 1/1091;
H04R 1/1016; H04R 1/1066; H04R
5/033; H04R 5/0335
See application file for complete search history.

FOREIGN PATENT DOCUMENTS

CN 304080999 3/2017
EM 004112118-0001 7/2017

Primary Examiner — Paula Allen Greene
(74) Attorney, Agent, or Firm — JCIPRNET

(57) **CLAIM**

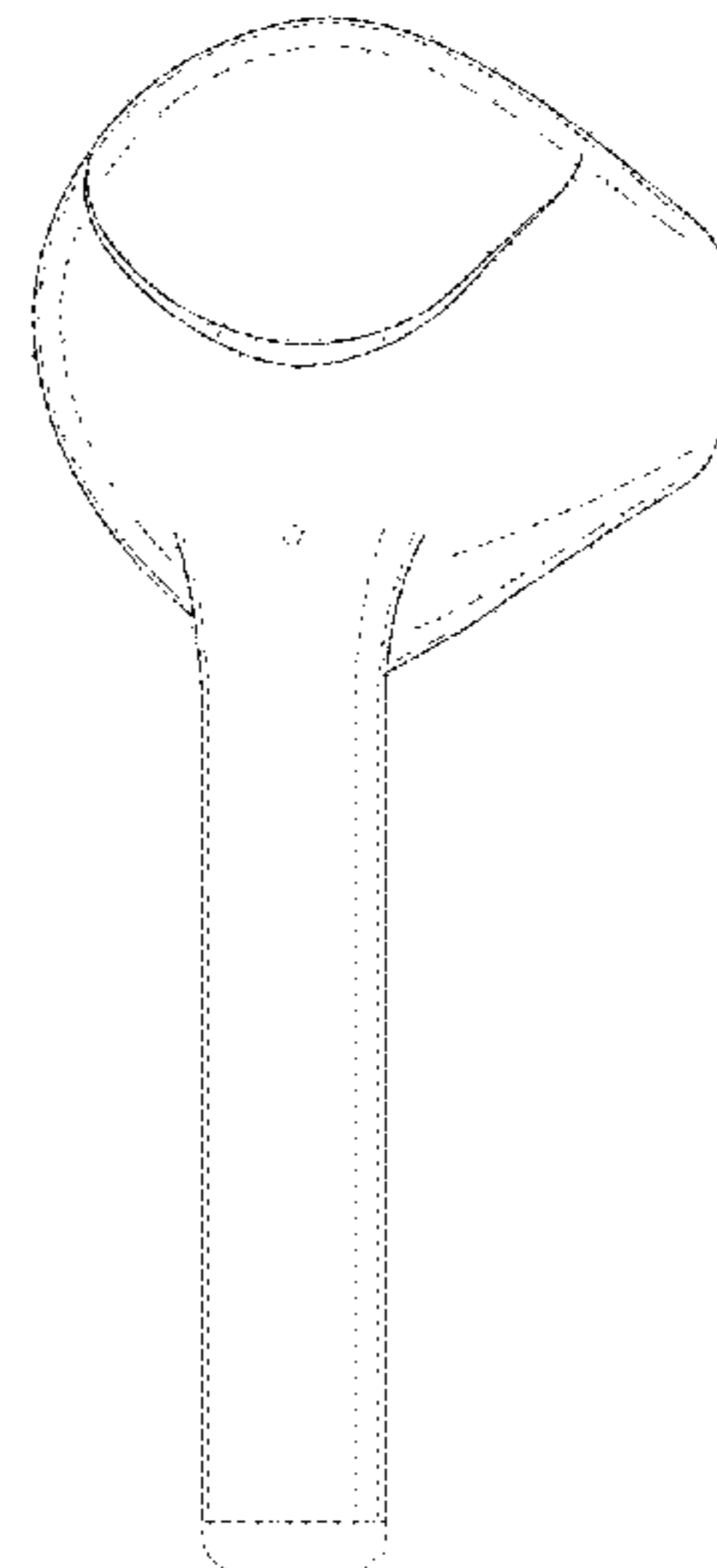
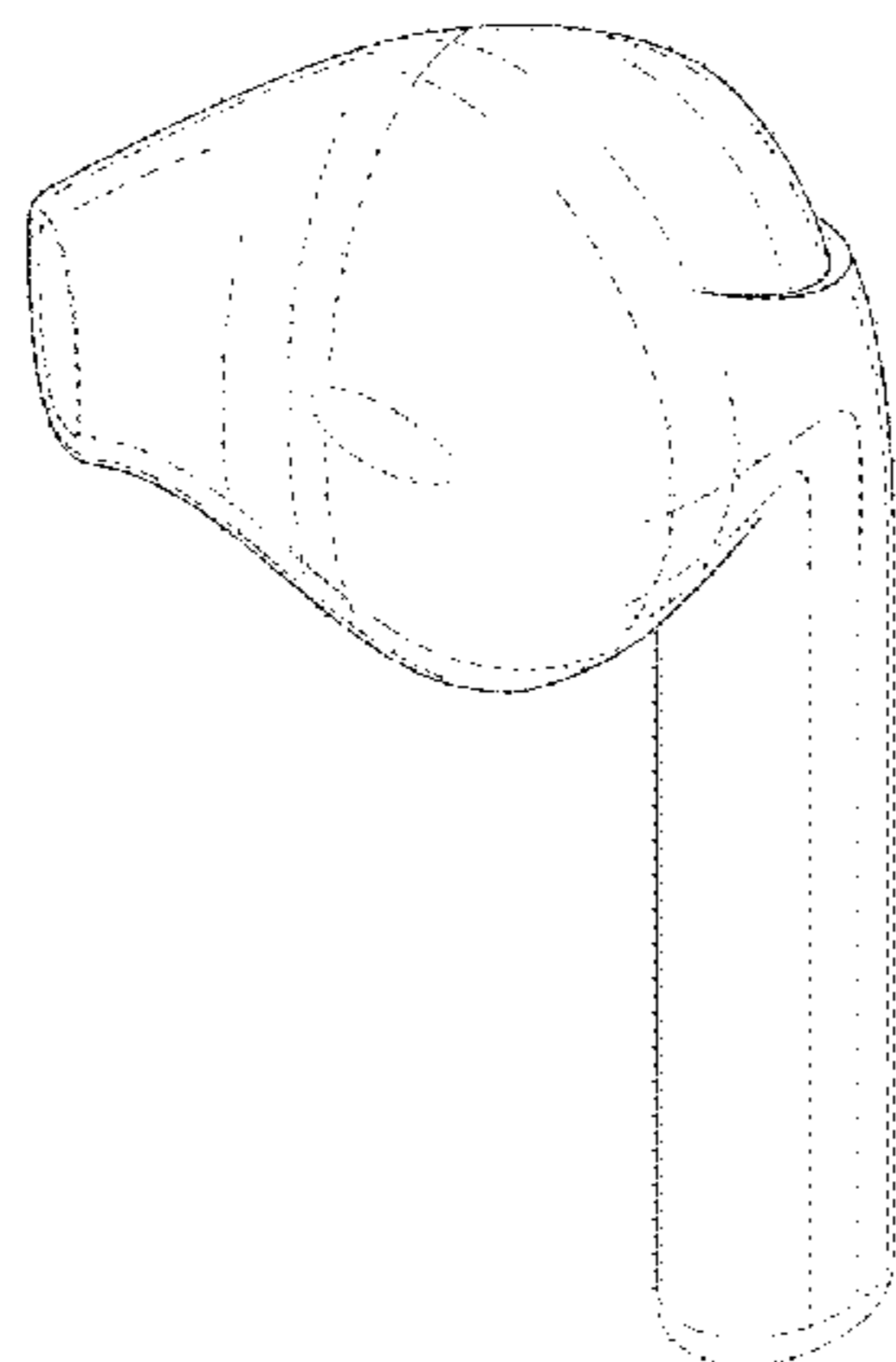
The ornamental design for an earphone, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an earphone showing one embodiment of my new design for the right ear;
FIG. 2 is another perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear 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.
Another embodiment for the left ear is provided, which is a mirror image of the embodiment for the right ear shown in FIGS. 1 through 8. The broken lines shown in the drawings represent portions of the earphone that form no part of the claimed design.

1 Claim, 7 Drawing Sheets

(56) **References Cited**
U.S. PATENT DOCUMENTS
4,972,492 A * 11/1990 Tanaka H04R 1/1016
181/130
6,122,369 A * 9/2000 Hwang H04M 1/6058
379/420.03
D469,753 S * 2/2003 Andre D14/205
6,690,807 B1 * 2/2004 Meyer G02C 5/143
2/12
6,731,722 B2 * 5/2004 Coffey G06Q 20/1085
379/265.01
D506,744 S * 6/2005 Andre D14/205
D515,070 S * 2/2006 Andre D14/205
D568,291 S * 5/2008 Andre D14/205
D573,977 S * 7/2008 Ledbetter D14/205



(56)

References Cited

U.S. PATENT DOCUMENTS

D618,219 S * 6/2010 Burgett D14/223
 D622,265 S * 8/2010 Rye D14/223
 D626,948 S * 11/2010 Nault D14/223
 D627,766 S * 11/2010 Arimoto D14/223
 D628,193 S * 11/2010 Zheng D14/223
 D632,282 S * 2/2011 Kitayama D14/223
 D633,086 S * 2/2011 Chen D14/223
 D635,960 S * 4/2011 Gondo D14/223
 D639,279 S * 6/2011 Andre D14/223
 D641,738 S * 7/2011 Perez D14/223
 D652,823 S * 1/2012 Chen D14/223
 D656,481 S * 3/2012 McManigal D14/205
 D662,493 S * 6/2012 Chen D14/223
 D662,495 S * 6/2012 Andre D14/223
 D664,523 S * 7/2012 Naitou D14/223
 D666,580 S * 9/2012 Lee D14/223
 D669,058 S * 10/2012 Lee D14/223
 D669,453 S * 10/2012 Katsuraku D14/223
 D674,781 S * 1/2013 Sakata D14/223
 D675,194 S * 1/2013 Andre D14/205
 8,345,912 B2 * 1/2013 Akihiko H04R 1/105
 379/430
 D676,427 S * 2/2013 Yang D14/223
 8,391,533 B2 * 3/2013 Sim H04R 1/1041
 381/380
 D681,015 S * 4/2013 Akana H04R 1/10
 D14/223
 D687,418 S * 8/2013 Godfrey D14/223
 D687,419 S * 8/2013 Andre D14/223
 8,515,116 B2 * 8/2013 Lee H04R 1/1041
 381/338
 D691,594 S * 10/2013 Akana D14/223
 D694,220 S * 11/2013 Lee D14/223
 D706,643 S * 6/2014 Akana D9/432

D707,206 S * 6/2014 Akana H04R 1/10
 D14/223
 D711,857 S * 8/2014 Burgett D14/223
 8,800,712 B2 * 8/2014 Campbell H04R 25/652
 181/135
 D712,279 S * 9/2014 Akana D9/721
 D718,284 S * 11/2014 Shibusawa D14/223
 D718,285 S * 11/2014 Shibusawa D14/223
 8,965,030 B2 * 2/2015 Aase H04R 1/1016
 381/380
 D728,533 S * 5/2015 Poulsen D14/223
 D732,007 S * 6/2015 Oksman 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
 D747,295 S * 1/2016 Eastwood D14/223
 D755,759 S * 5/2016 Cai D14/223
 D757,682 S * 5/2016 Perez D14/205
 D801,314 S 10/2017 Akana et al.
 D829,193 S * 9/2018 Cai D14/223
 D830,336 S * 10/2018 Cai D14/205
 D830,345 S * 10/2018 Cai D14/223
 2012/0155692 A1 * 6/2012 Chen H04R 1/1058
 381/380
 2012/0237074 A1 * 9/2012 Aase H04R 1/1016
 381/380
 2013/0004011 A1 * 1/2013 Hayashida H04R 1/1016
 381/380
 2013/0243595 A1 * 9/2013 Falkenberg F03D 1/0658
 416/25
 2013/0343593 A1 * 12/2013 Howes H04R 1/1016
 381/380
 2015/0382100 A1 * 12/2015 Azmi H04R 1/1091
 381/380
 2017/0164087 A1 * 6/2017 Kurtz H04R 1/1091

* cited by examiner

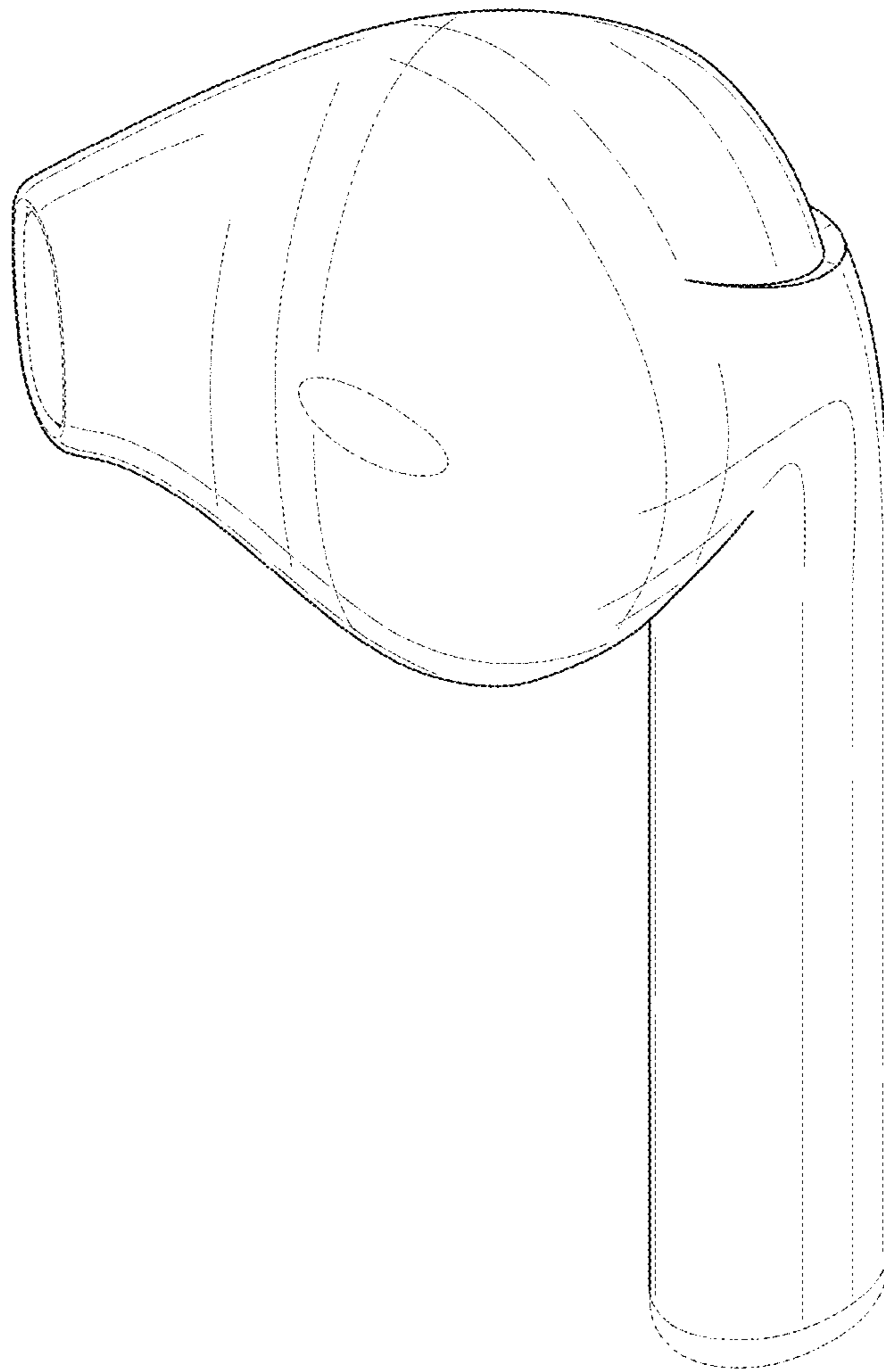


FIG. 1

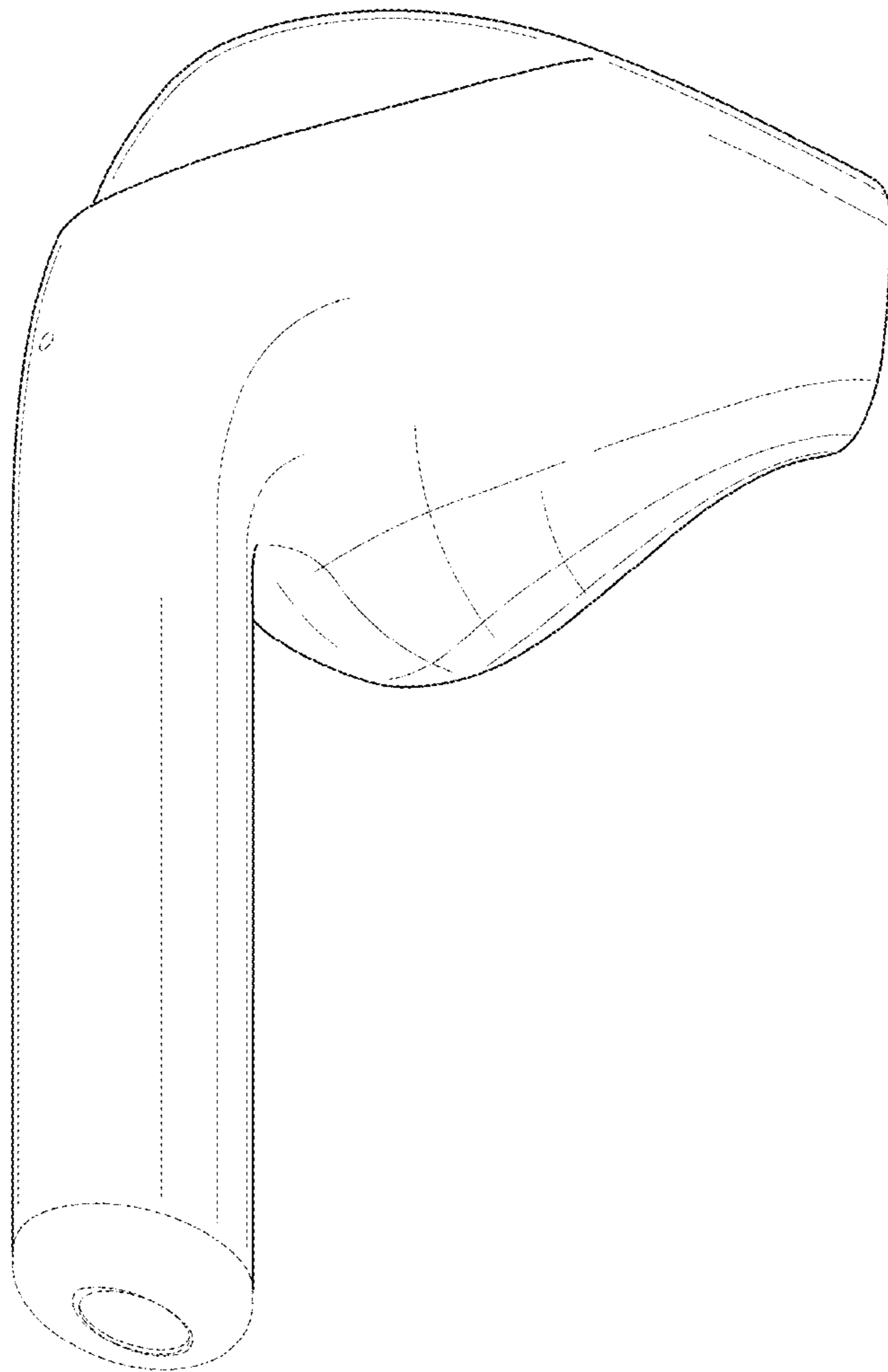


FIG. 2

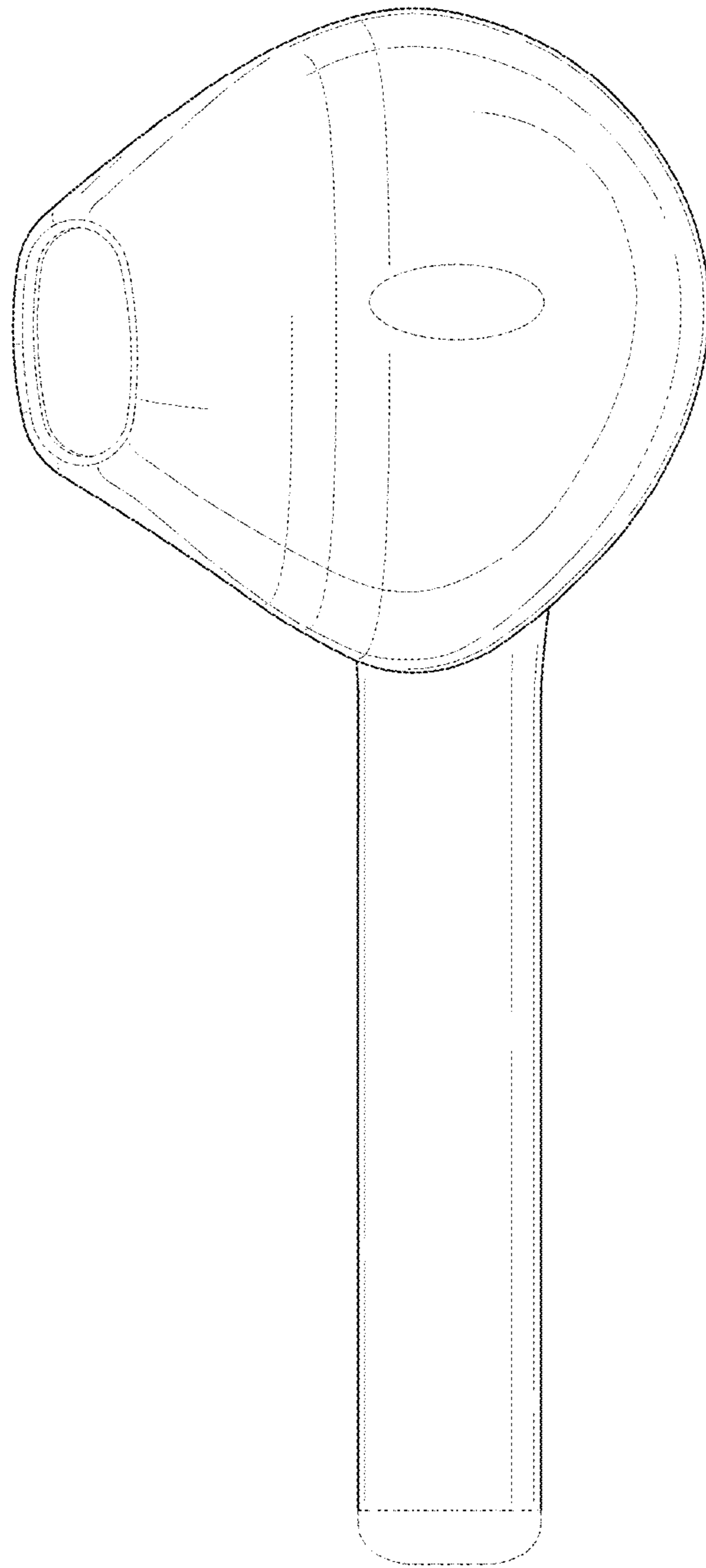


FIG. 3

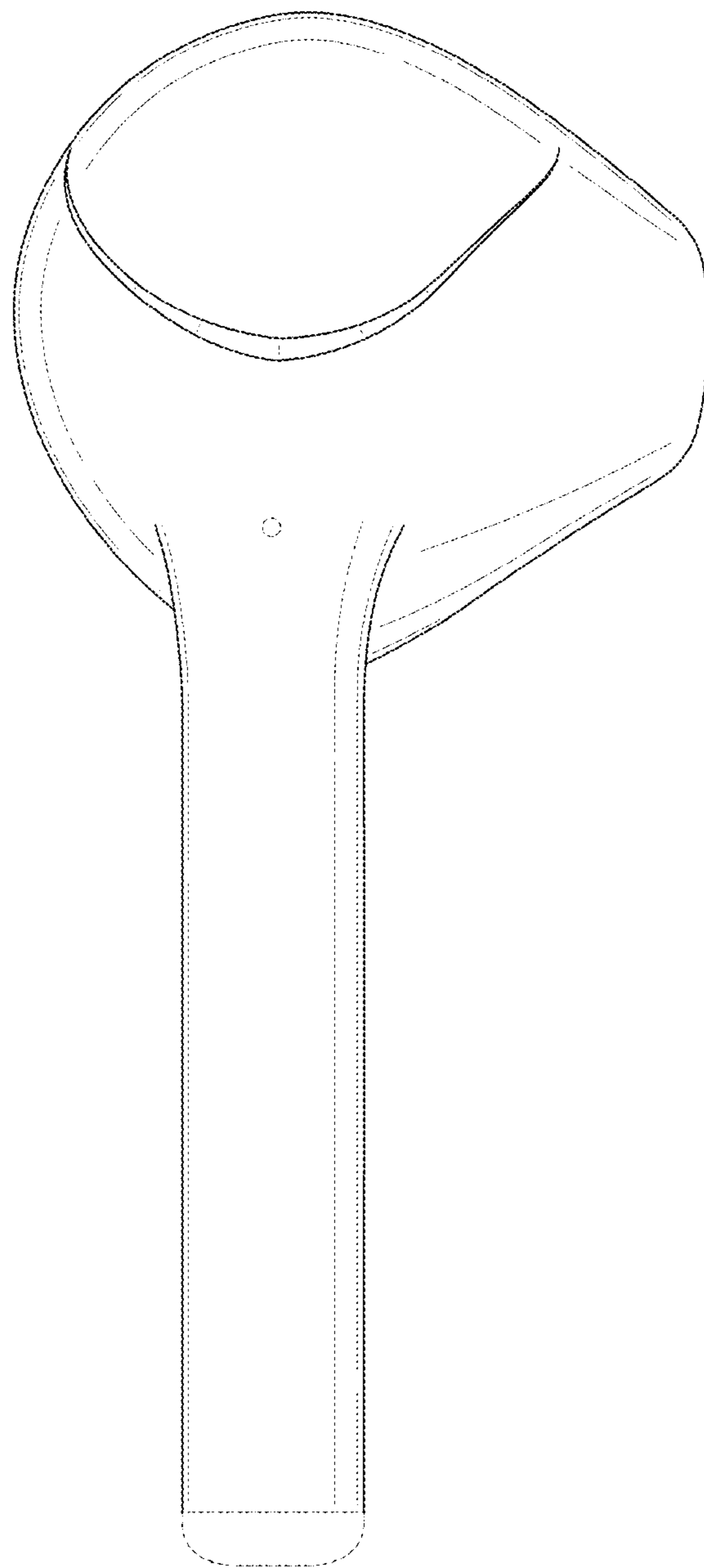


FIG. 4

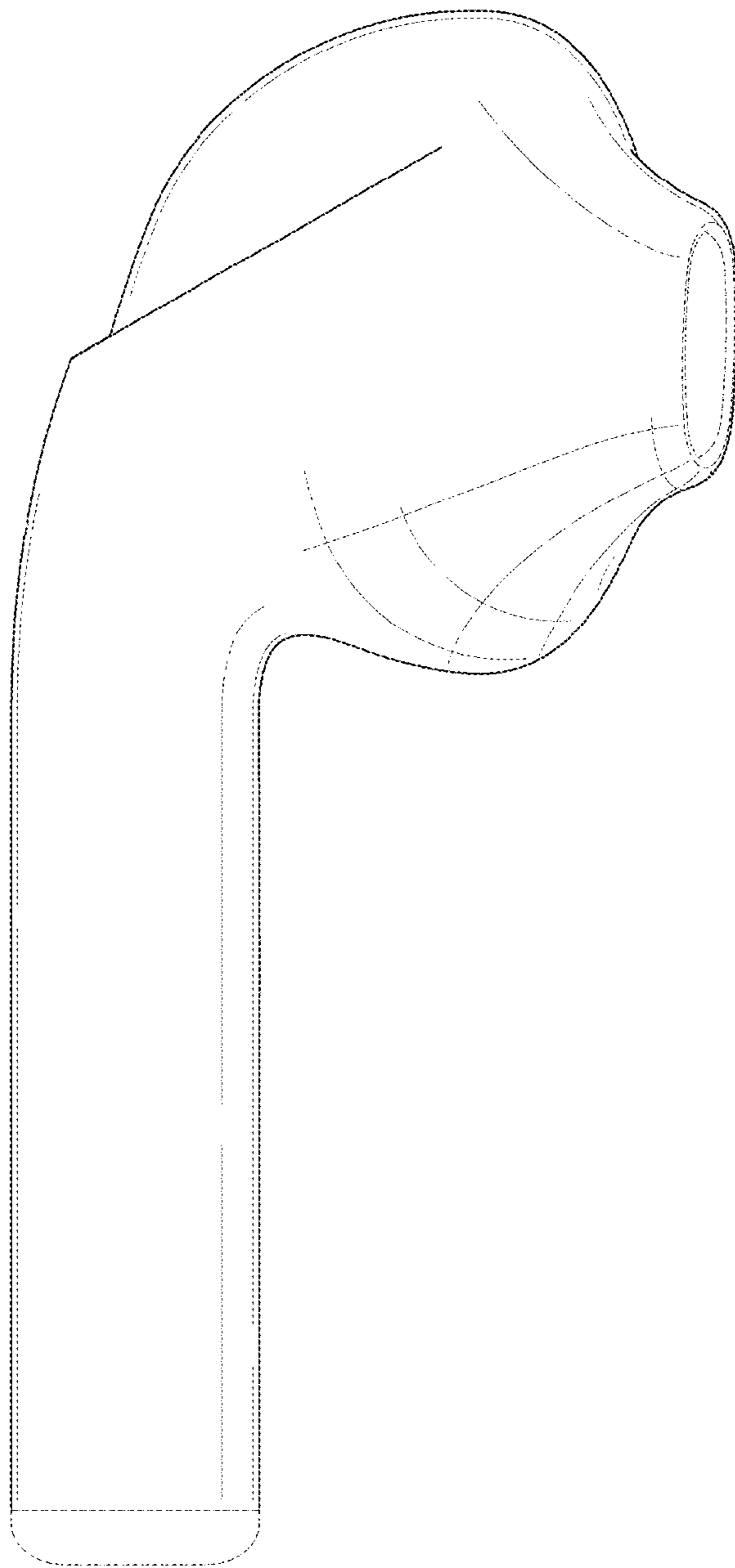


FIG. 5

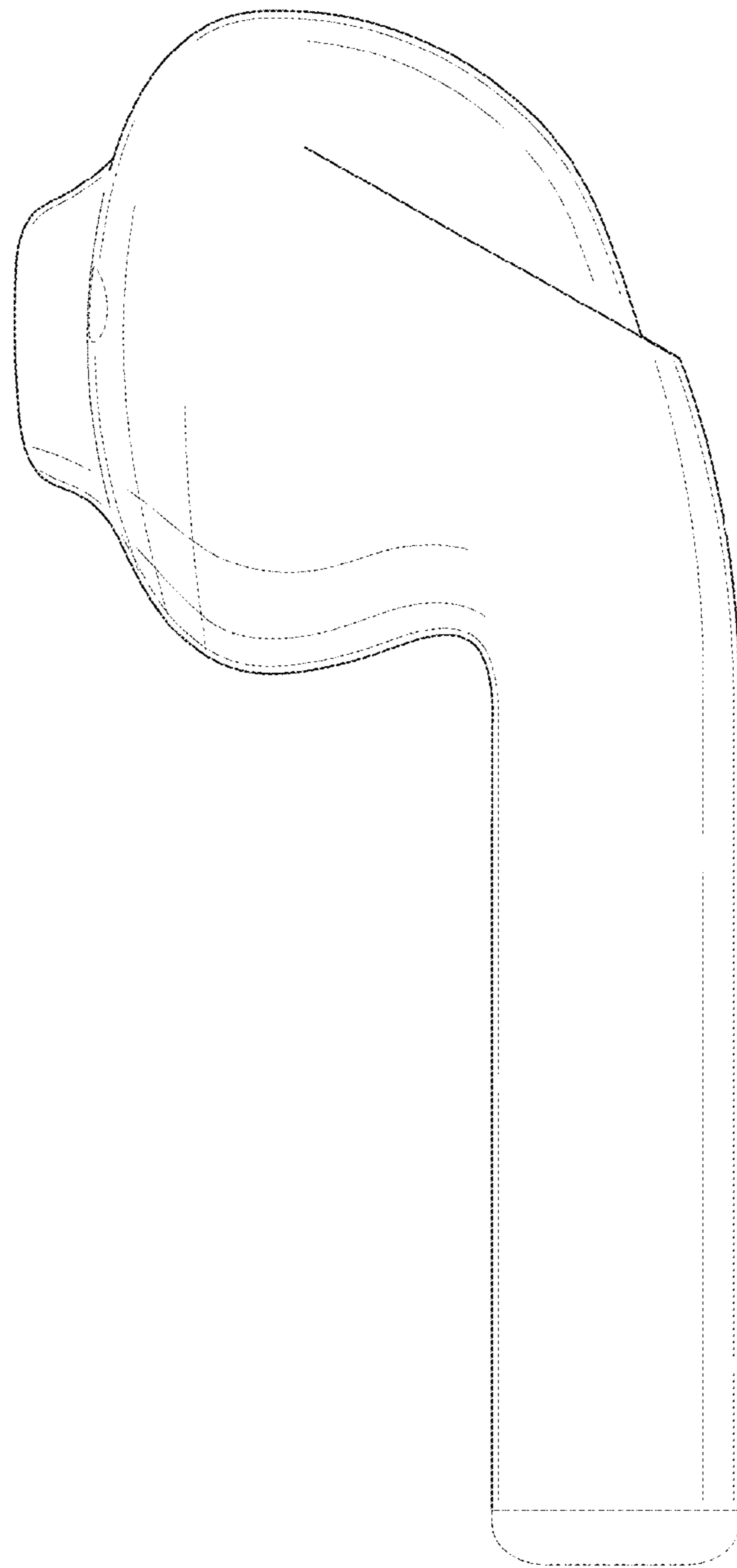


FIG. 6

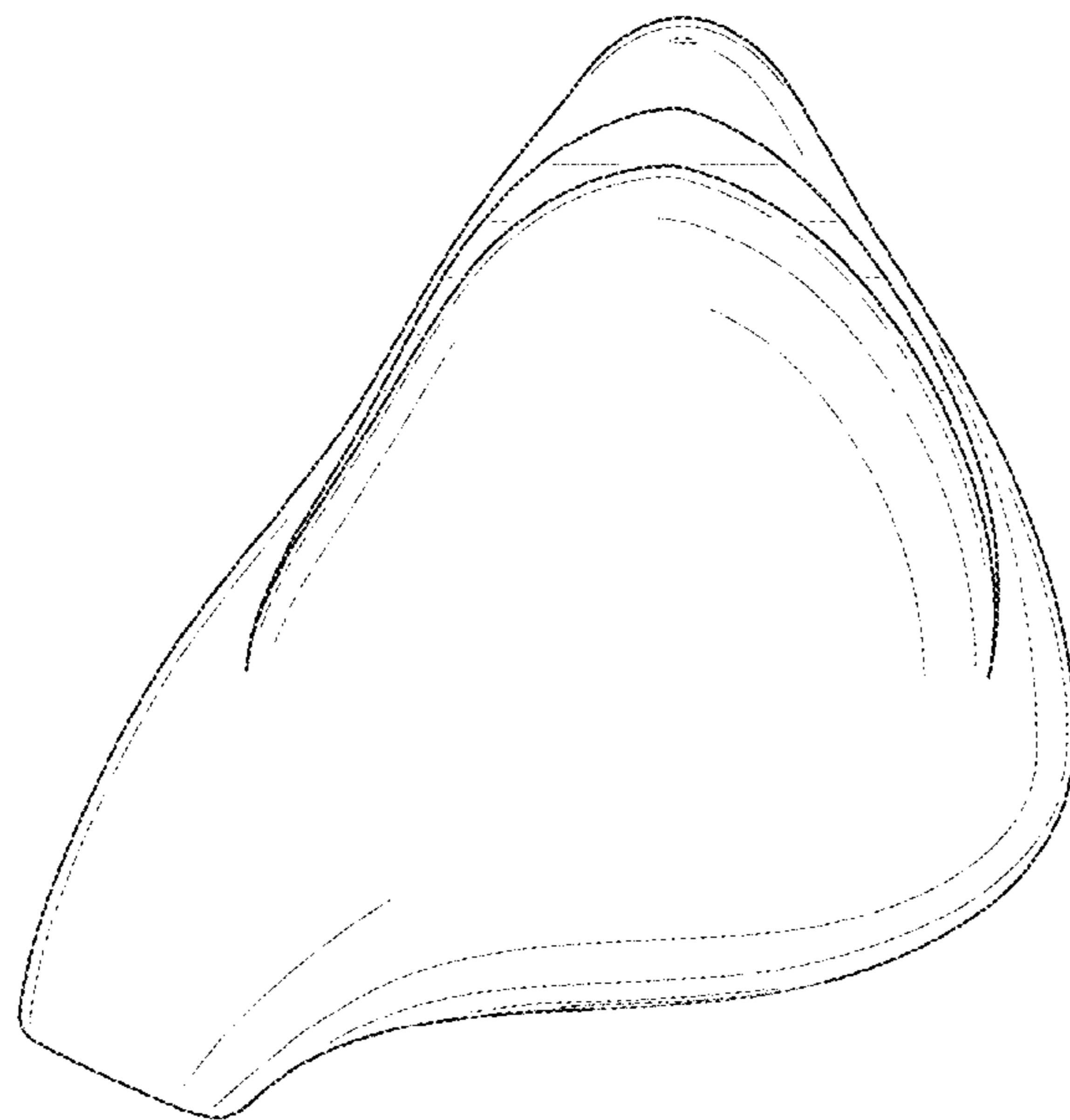


FIG. 7

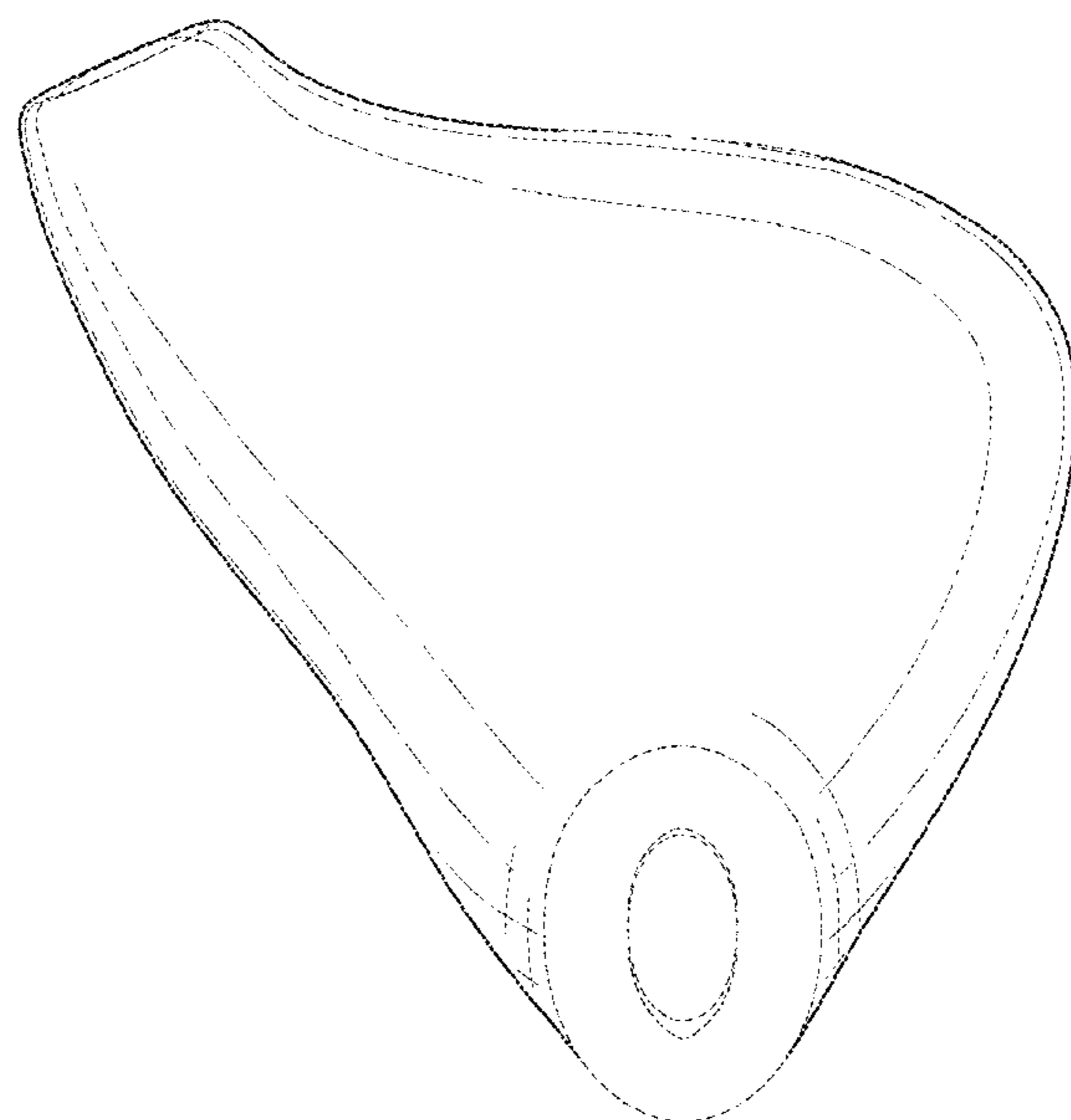


FIG. 8