



US00D968362S

(12) **United States Design Patent** (10) **Patent No.:** **US D968,362 S**
Guo (45) **Date of Patent:** **** Nov. 1, 2022**

(54) **EARPHONE**

(71) Applicant: **Shenzhen Apwill Electronic Co., Ltd.**,
Guangdong (CN)

(72) Inventor: **Dehua Guo**, Guangdong (CN)

(73) Assignee: **Shenzhen Apwill Electronic Co., Ltd.**,
Shenzhen (CN)

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

(21) Appl. No.: **29/806,017**

(22) Filed: **Aug. 31, 2021**

(30) **Foreign Application Priority Data**

Aug. 19, 2021 (CN) 202130540149.X

(51) **LOC (13) Cl.** **14-01**

(52) **U.S. Cl.**
USPC **D14/205**

(58) **Field of Classification Search**
USPC D14/205, 223, 218; D13/133, 154;
D24/106; D29/112; 2/209;
381/380-381, 322, 328
CPC H04R 25/00; H04R 25/02; H04R 1/10;
H04R 1/1016; H04R 5/033; H04R
5/0335; H04R 1/1033; H04R 1/1041;
H04R 1/1091

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,049,582 A * 8/1962 Shinn H01R 4/70
D13/133
D241,881 S * 10/1976 Peterson D24/106
4,867,149 A * 9/1989 Falco A61F 11/08
128/864
5,113,967 A * 5/1992 Killion A61F 11/08
181/135

D344,522 S * 2/1994 Taniguchi D14/218
5,819,745 A * 10/1998 Mobley A61F 11/08
128/867
5,887,070 A * 3/1999 Iseberg H04R 1/1016
381/328
D427,304 S * 6/2000 Magidson D24/106
D468,301 S 1/2003 Fushimi

(Continued)

FOREIGN PATENT DOCUMENTS

CN 306670705 * 7/2021
CN 306760693 * 8/2021

(Continued)

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Dragon Sun Law Firm,
PC; Jinggao Li; Nathaniel Perkins

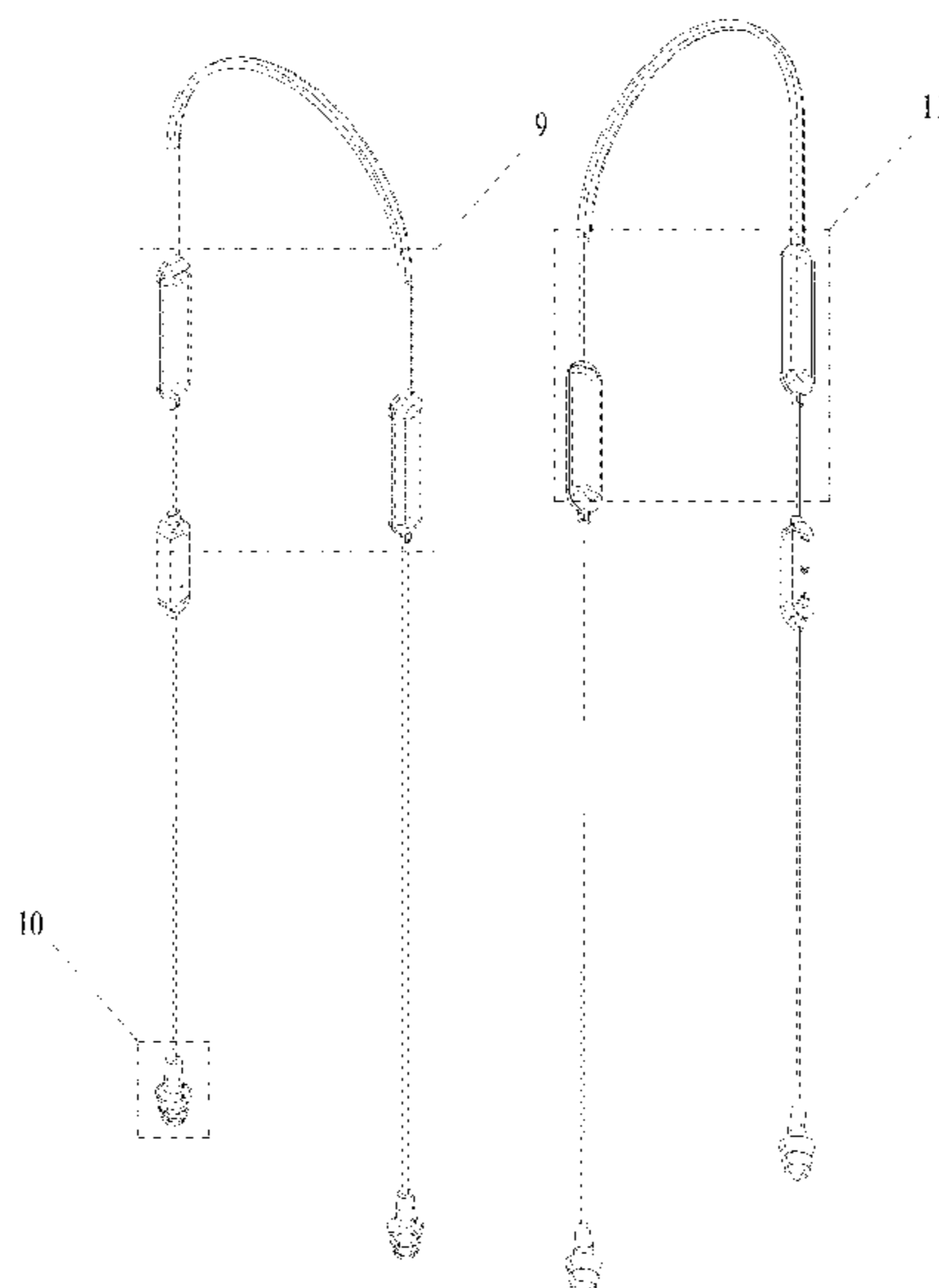
(57) **CLAIM**

The ornamental design for earphone, as shown and described.

DESCRIPTION

FIG. 1 is a front, top perspective view of an earphone showing my new design;
FIG. 2 is a rear, bottom perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left view thereof;
FIG. 6 is a right view thereof;
FIG. 7 is a top view thereof;
FIG. 8 is a bottom view thereof;
FIG. 9 is a partially enlarged view of FIG. 1,
FIG. 10 is a partially enlarged view of FIG. 1,
FIG. 11 is a partially enlarged view of FIG. 2; and,
FIG. 12 is a partially enlarged view of FIG. 3.
The broken lines surrounding the earphone in FIGS. 1, 2, and 3 and illustrated in the enlarged views of FIGS. 9, 10, 11, and 12 form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D492,765 S * 7/2004 Falco A61F 11/08
 D539,782 S * 4/2007 Lee D24/106
 D599,778 S * 9/2009 Ando D14/188
 D614,166 S * 4/2010 Brickstad D14/218
 D625,294 S * 10/2010 Wada D14/218
 8,743,533 B2 * 6/2014 Stanley H05K 5/023
 381/384
 D715,254 S * 10/2014 Lee D14/205
 D716,272 S * 10/2014 Yang D14/223
 D718,286 S * 11/2014 Yang D14/223
 D718,744 S * 12/2014 Thompson D14/223
 D719,550 S * 12/2014 Yang D14/223
 D722,040 S * 2/2015 Tan D14/205
 D726,145 S * 4/2015 Hsieh D14/205
 D727,871 S * 4/2015 Orbach D14/205
 D729,775 S * 5/2015 Seo D14/223
 D733,101 S * 6/2015 Pi D14/223
 D733,689 S * 7/2015 Narita D14/223
 D743,381 S * 11/2015 Pi D14/218
 D745,489 S * 12/2015 Bjelle D14/205
 D755,759 S * 5/2016 Cai D14/223
 D757,682 S * 5/2016 Perez D14/205
 D758,353 S * 6/2016 Akana D14/218
 D760,189 S * 6/2016 Loh Jun Kern D14/205
 D773,435 S * 12/2016 Ott D14/223
 D776,083 S * 1/2017 Lee D14/205
 D777,139 S * 1/2017 Fletcher D14/205
 D780,155 S * 2/2017 Levine D14/223
 D780,157 S * 2/2017 Uggla D14/223
 D782,442 S * 3/2017 Chen D14/205
 D782,997 S * 4/2017 Shin D14/205
 D784,962 S * 4/2017 Yang D14/223
 D785,594 S * 5/2017 Zaihui D14/205
 D793,995 S * 8/2017 Nakagawa D14/218
 D803,184 S * 11/2017 Loh Jun Kern D14/223

D803,185 S * 11/2017 Loh Jun Kern D14/223
 D810,047 S * 2/2018 Tzeng D14/223
 D812,038 S * 3/2018 Nakajima D14/205
 D817,301 S * 5/2018 Aoyagi D14/205
 D820,810 S * 6/2018 Levine D14/205
 D821,999 S * 7/2018 Guo D14/205
 D830,345 S * 10/2018 Cai D14/223
 D849,714 S * 5/2019 Shin D14/205
 D855,581 S * 8/2019 Li D14/205
 D856,307 S * 8/2019 Maeda D14/218
 D859,358 S * 9/2019 Wang et al.
 D865,707 S * 11/2019 Bian
 D875,070 S * 2/2020 Carr D14/205
 D875,709 S * 2/2020 Yuanfa et al.
 D890,128 S * 7/2020 Kim et al.
 D904,347 S * 12/2020 Yamamoto et al.
 D921,608 S * 6/2021 Aoyagi D14/218
 D923,601 S * 6/2021 Kim D14/205
 D924,841 S * 7/2021 Yuan D14/205
 D932,002 S * 9/2021 Yuan D24/106
 D941,800 S * 1/2022 Aoyagi D14/205
 D955,549 S * 6/2022 Cai D24/106
 2013/0077815 A1 * 3/2013 Stephenson H04R 1/1016
 381/370
 2014/0112520 A1 * 4/2014 Knudsen H04R 1/1083
 381/380
 2015/0047651 A1 * 2/2015 Haapapuro A61F 11/12
 128/866
 2016/0261946 A1 * 9/2016 Chen H04R 1/1016
 2016/0316290 A1 * 10/2016 Shen H04R 1/1025
 2018/0070165 A1 * 3/2018 Hatfield H04R 1/1058
 2022/0095038 A1 * 3/2022 Xie H04R 5/0335

FOREIGN PATENT DOCUMENTS

CN 306892866 * 10/2021
 CN 307326194 * 5/2022

* cited by examiner

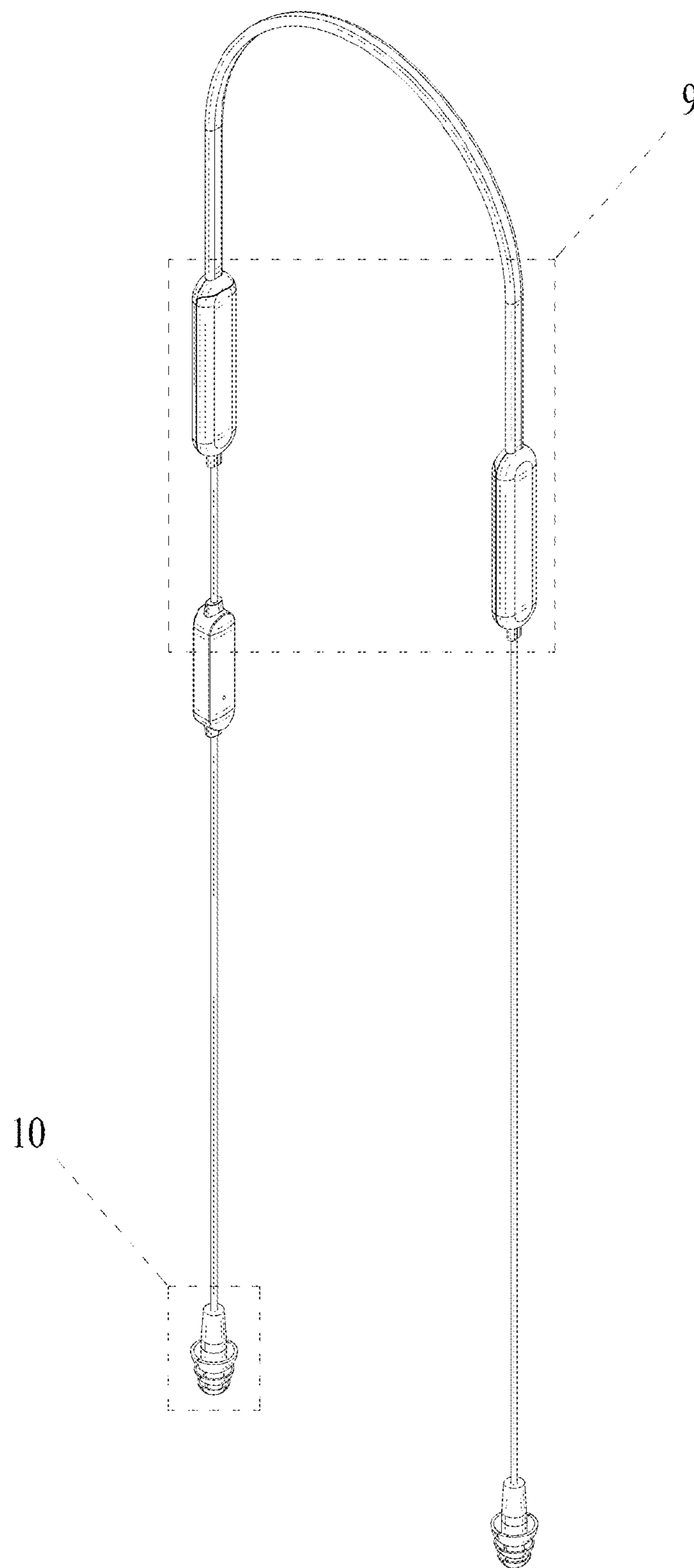


FIG. 1

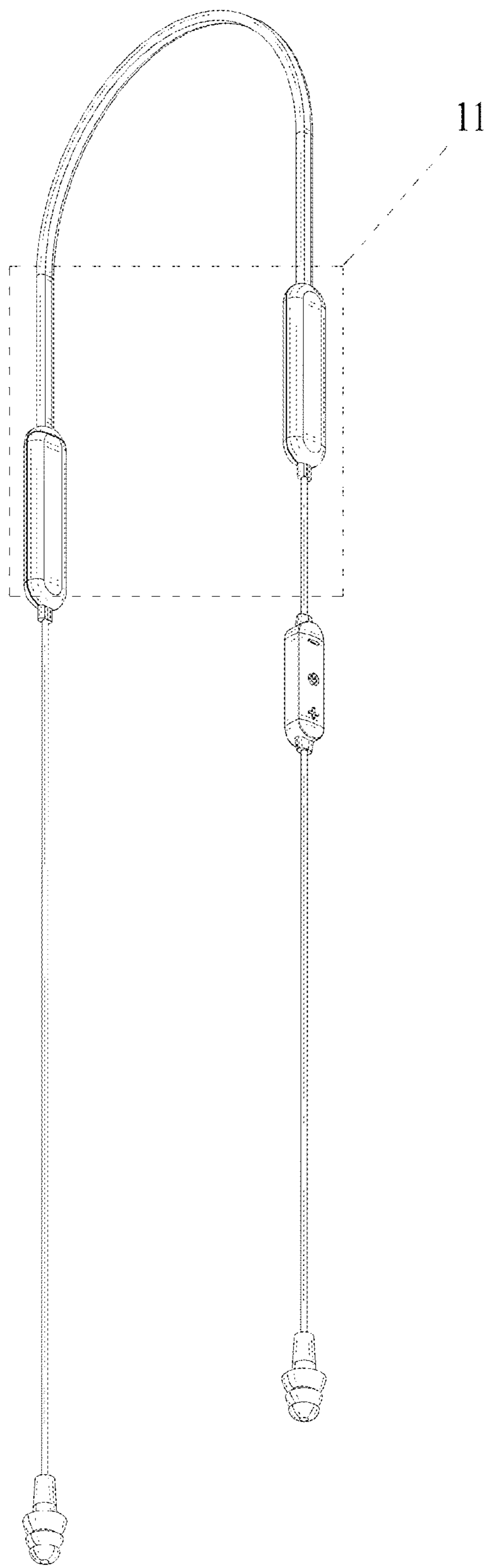


FIG. 2

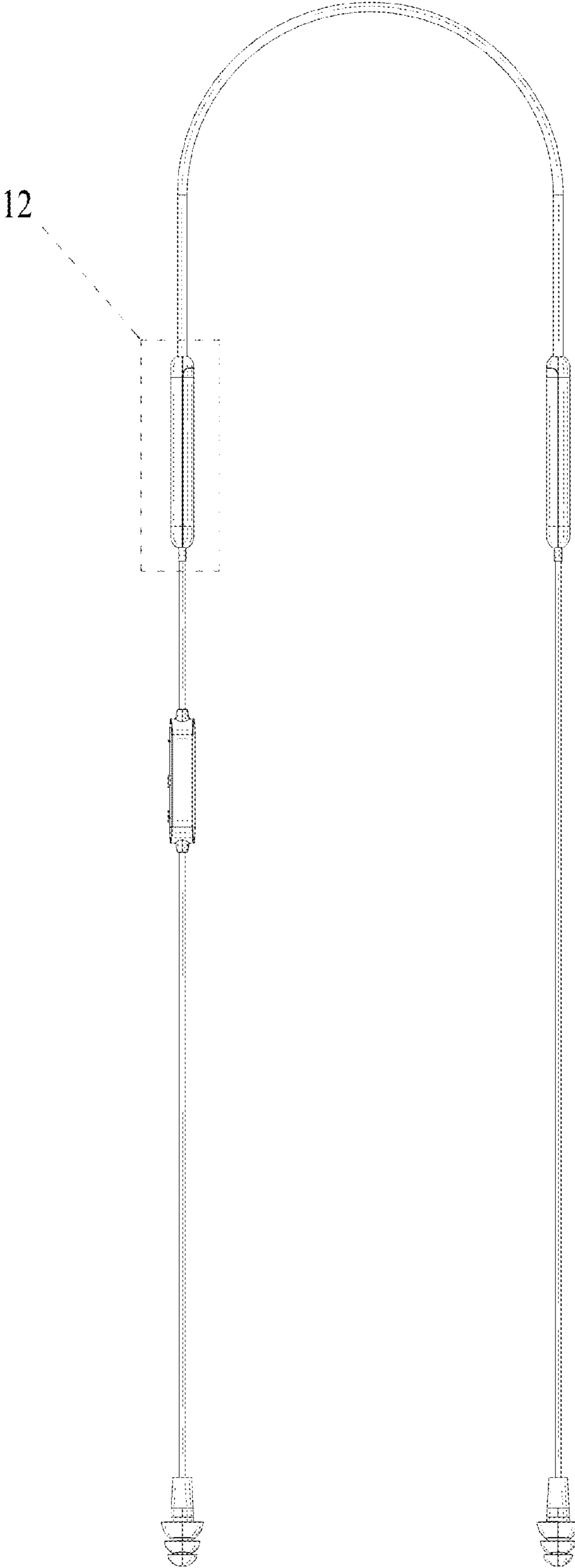


FIG. 3

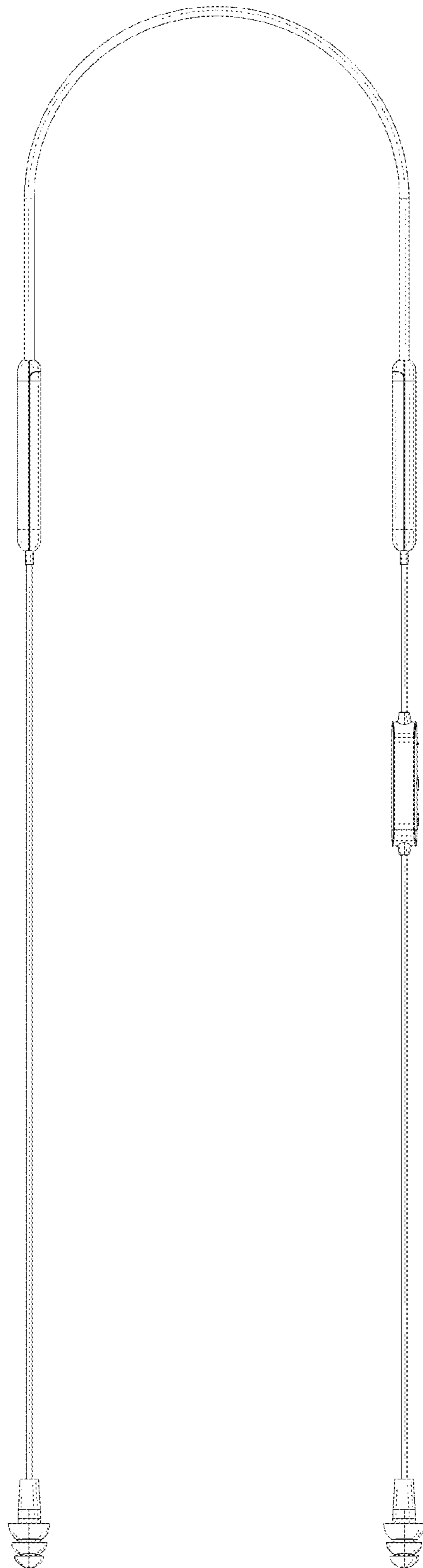


FIG. 4



FIG. 5

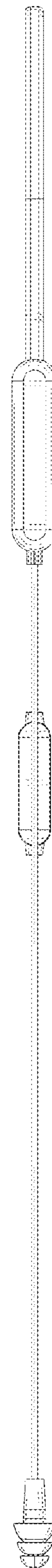


FIG. 6

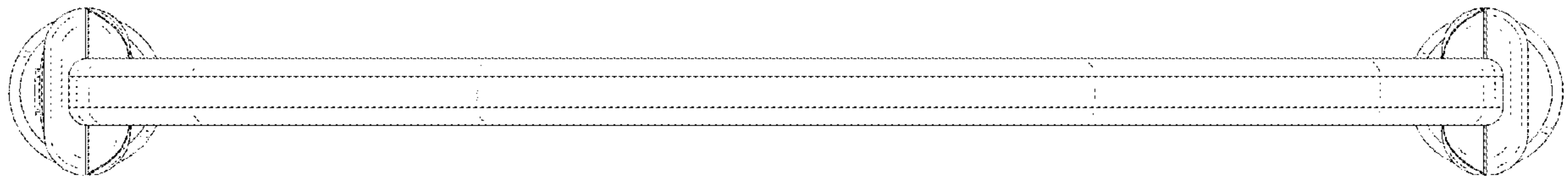


FIG. 7

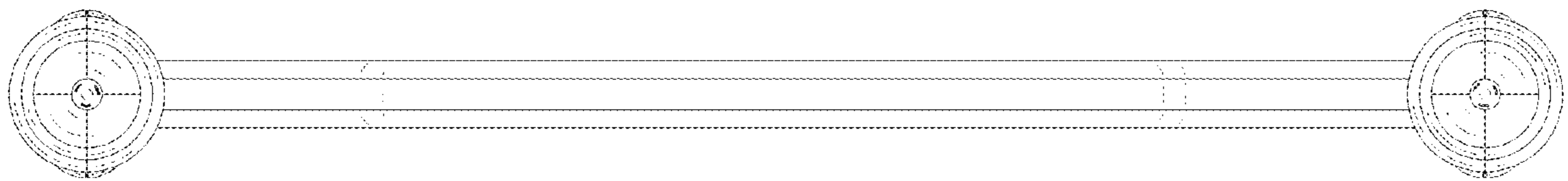


FIG. 8

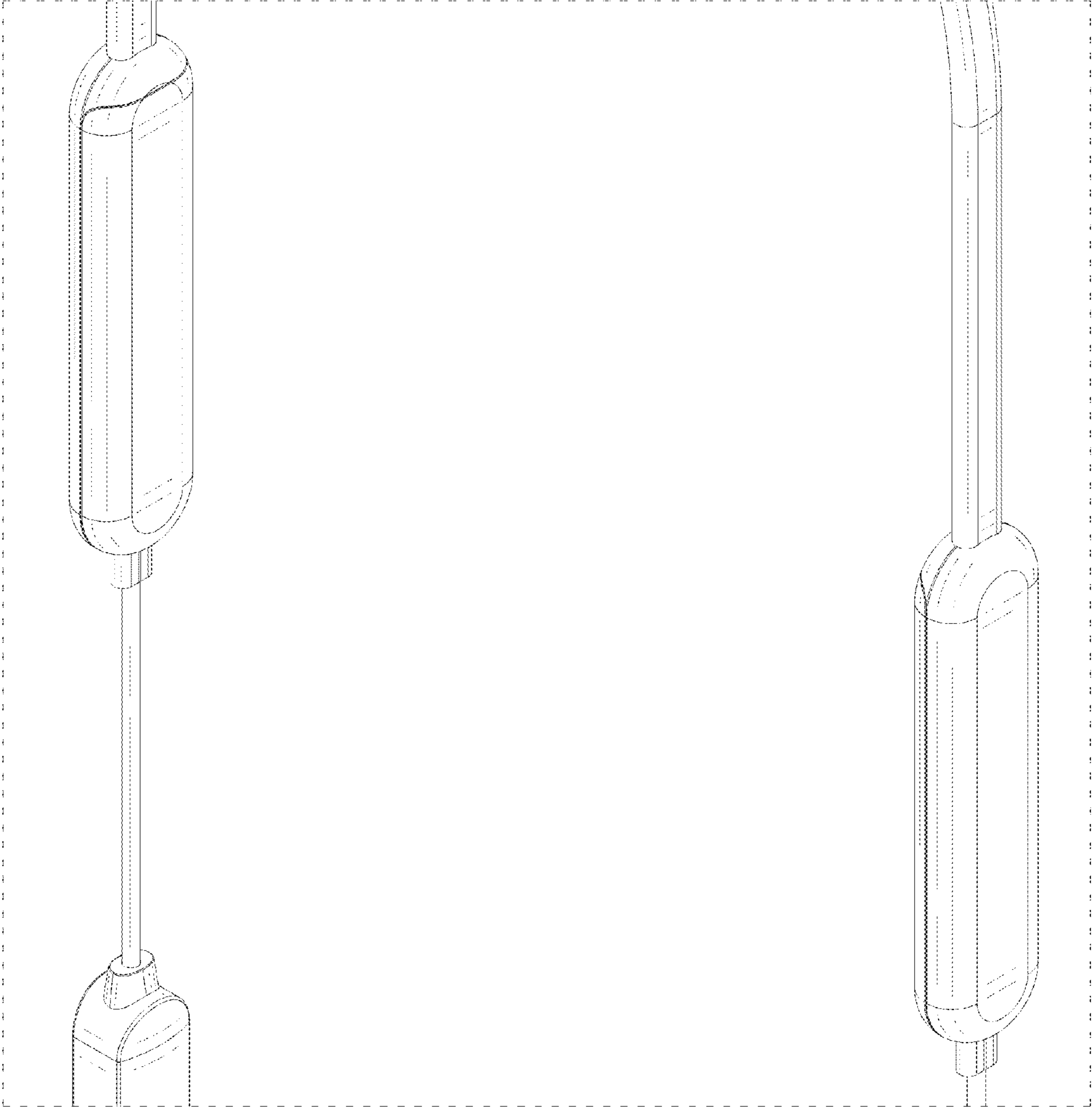


FIG. 9

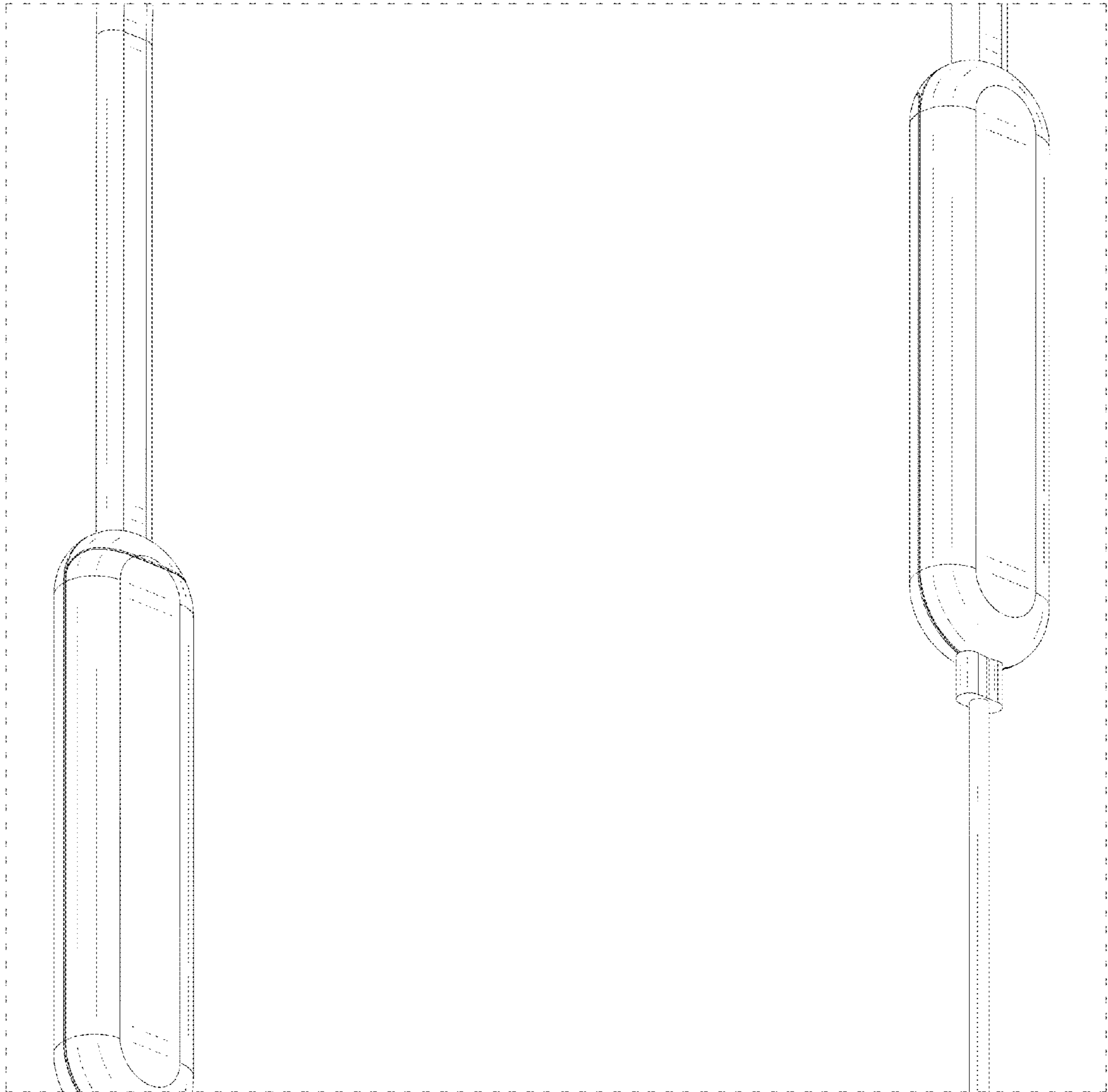


FIG. 10

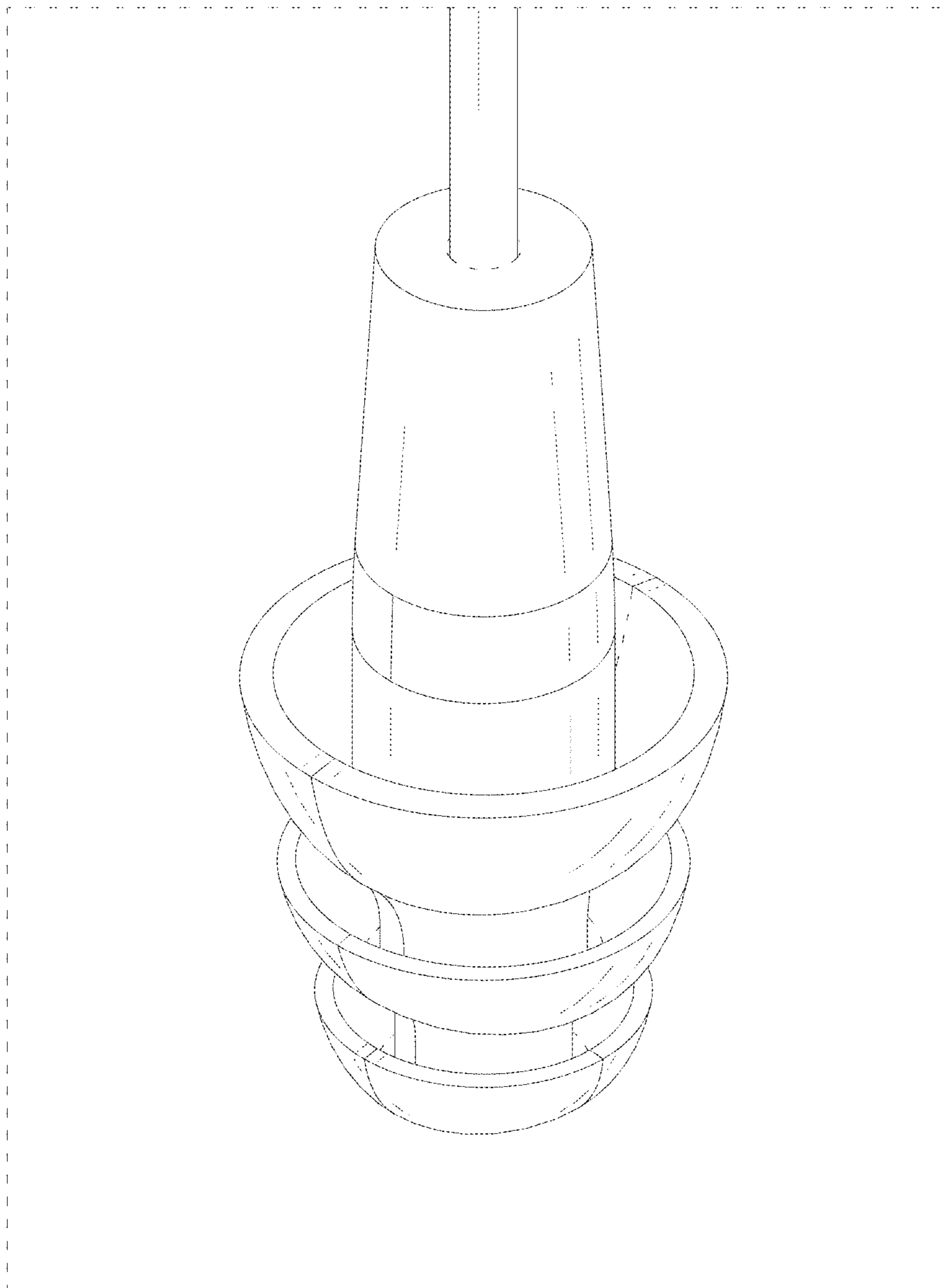


FIG. 11

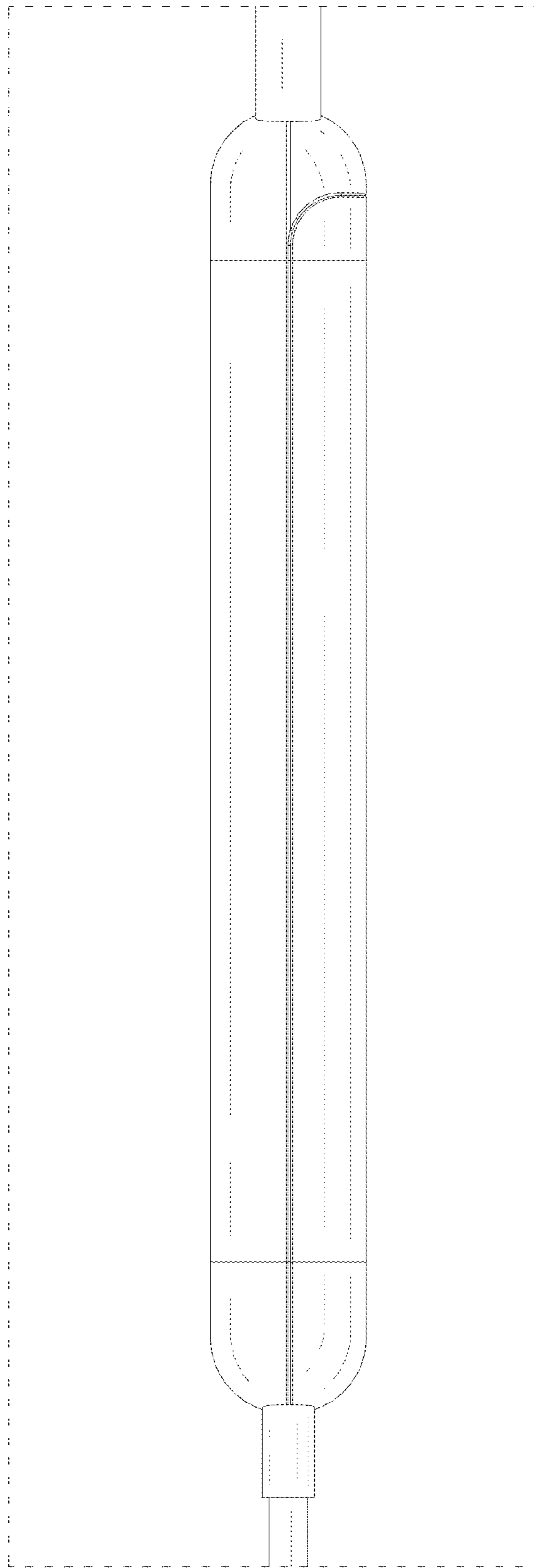


FIG. 12