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(12) **United States Design Patent** (10) **Patent No.:** **US D941,800 S**  
**Aoyagi et al.** (45) **Date of Patent:** **\*\* Jan. 25, 2022**

(54) **HEADPHONES**

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

(21) Appl. No.: **29/787,490**

(22) Filed: **Jun. 7, 2021**

**Related U.S. Application Data**

(63) Continuation of application No. 29/720,426, filed on Jan. 13, 2020, now Pat. No. Des. 921,608, which is a continuation of application No. 29/667,339, filed on Oct. 19, 2018, now Pat. No. Des. 874,429, which is a continuation of application No. 29/622,980, filed on Oct. 20, 2017, now Pat. No. Des. 831,610, said application No. 29/720,426 is a continuation of application No. 29/667,334, filed on Oct. 19, 2018, now Pat. No. Des. 873,791, which is a continuation of  
(Continued)

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

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

(58) **Field of Classification Search**  
USPC ..... D14/205, 223; 181/130, 135; D24/174;  
128/864, 865, 866; 381/380, 381;  
455/90.3  
CPC ..... H04R 1/1016; H04R 25/00; H04R 5/033;  
H04R 5/0335; H04R 1/1033; H04R  
1/1041; H04R 1/1091; H04R 25/02

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,248,837 A 7/1941 Walters  
2,430,229 A 11/1947 Kelsey  
(Continued)

**FOREIGN PATENT DOCUMENTS**

CA 190012 \* 5/2021  
CN 206323524 U 8/2013  
(Continued)

**OTHER PUBLICATIONS**

John Schettino, Nyrius NAEB500 Noise Isolating In-Ear Earphones Review, Online Review, Feb. 23, 2012.  
(Continued)

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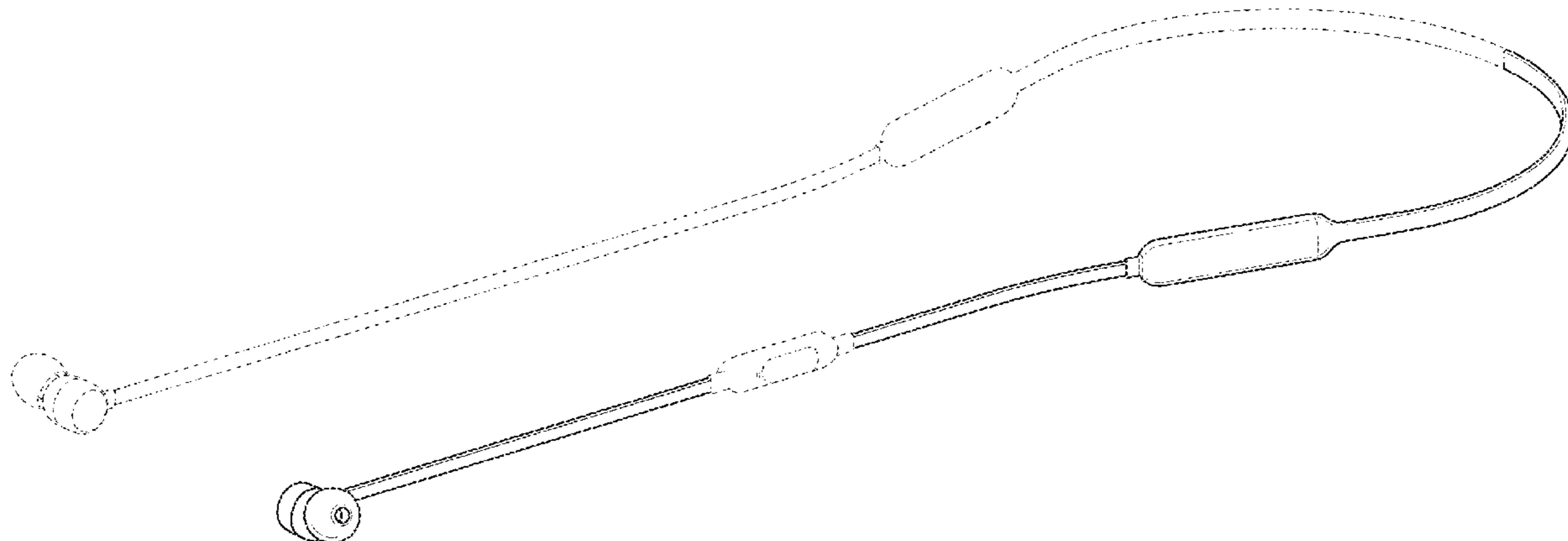
(57) **CLAIM**

The ornamental design for headphones, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of headphones showing the claimed 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 bottom view thereof; and,  
FIG. 7 is a top view thereof.  
The broken lines in the figures shown portions of the headphones that form no part of the claimed design.  
The dot-dash lines in the figures show boundaries that form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**



**Related U.S. Application Data**

application No. 29/622,980, filed on Oct. 20, 2017, now Pat. No. Des. 831,610, said application No. 29/720,426 is a continuation of application No. 29/667,333, filed on Oct. 19, 2018, now Pat. No. Des. 881,838, which is a continuation of application No. 29/622,980, filed on Oct. 20, 2017, now Pat. No. Des. 831,610, which is a continuation of application No. 29/575,696, filed on Aug. 26, 2016, now Pat. No. Des. 817,301.

(56)

**References Cited**

U.S. PATENT DOCUMENTS

2,501,107 A 3/1950 Volkmann  
 2,545,731 A 3/1951 French  
 D168,240 S 11/1952 Rodriguez  
 2,739,660 A 3/1956 French  
 3,195,392 A 7/1965 Guy  
 3,301,253 A 1/1967 Aram  
 D241,881 S 10/1976 Peterson et al.  
 D278,234 S 4/1985 Saito  
 D309,306 S 7/1990 Weiser et al.  
 D337,587 S 7/1993 Nakayama  
 D350,354 S 9/1994 Nakamura  
 5,625,171 A 4/1997 Marshall  
 5,659,156 A 8/1997 Mauney et al.  
 5,749,373 A 5/1998 Dix  
 5,792,998 A 8/1998 Gardner et al.  
 5,829,062 A 11/1998 Magidson  
 6,010,216 A 1/2000 Jesiek  
 6,233,345 B1 5/2001 Urwyler  
 D458,245 S 6/2002 Masuda  
 D466,100 S 11/2002 Obata et al.  
 6,603,863 B1 8/2003 Nagayoshi  
 D482,348 S 11/2003 Villaverde et al.  
 6,741,719 B1 5/2004 Orten  
 6,799,018 B1 9/2004 Lam  
 D504,177 S 4/2005 Erfan  
 7,010,139 B1 3/2006 Smeehuyzen  
 D535,642 S 1/2007 Garcia et al.  
 D546,321 S 7/2007 Kim  
 D550,202 S 9/2007 Meier et al.  
 D550,657 S 9/2007 Gan et al.  
 D554,109 S 10/2007 Ledbetter et al.  
 D575,268 S 8/2008 Christopher et al.  
 D576,149 S 9/2008 Malik et al.  
 D576,154 S 9/2008 Ledbetter et al.  
 D578,507 S 10/2008 Ando  
 D579,005 S 10/2008 Wilhelmsen  
 D579,444 S 10/2008 Ewert et al.  
 D587,678 S 3/2009 Yuyama  
 D587,681 S 3/2009 Yanai  
 D587,685 S 3/2009 Densho  
 D589,493 S 3/2009 Densho  
 D593,067 S 5/2009 Millora et al.  
 D594,441 S \* 6/2009 Lee ..... D14/205  
 D594,442 S 6/2009 Chon et al.  
 D596,617 S \* 7/2009 Devlas ..... D14/205  
 D598,901 S \* 8/2009 Lee ..... D14/223  
 D599,781 S \* 9/2009 Lee ..... D14/205  
 D600,675 S \* 9/2009 Lee ..... D14/205  
 D604,269 S \* 11/2009 Choe ..... D14/205  
 D604,272 S \* 11/2009 Kitayama ..... D14/223  
 D606,971 S \* 12/2009 Christopher ..... D14/205  
 D607,875 S \* 1/2010 Pedersen, II ..... H04R 1/1033  
 D609,698 S \* 2/2010 Ng ..... D14/223  
 D614,167 S \* 4/2010 Brickstad ..... D14/205  
 D621,389 S \* 8/2010 Nagayama ..... D14/223  
 D622,707 S \* 8/2010 Chen ..... D14/223  
 D623,630 S \* 9/2010 Ohori ..... D14/223  
 D625,294 S \* 10/2010 Wada ..... D14/218  
 D627,764 S \* 11/2010 Tsai ..... D14/223  
 D627,765 S \* 11/2010 Zheng ..... D14/223

D629,793 S \* 12/2010 Goransson ..... D14/223  
 D630,179 S \* 1/2011 Park ..... D14/138 AA  
 D631,037 S \* 1/2011 Park ..... D14/223  
 D636,763 S \* 4/2011 Walter ..... D14/223  
 7,920,902 B2 \* 4/2011 Carroll ..... H04R 1/1008  
 455/569.1  
 D637,585 S \* 5/2011 Nagayama ..... D14/223  
 D637,998 S \* 5/2011 Brunner ..... D14/205  
 D637,999 S \* 5/2011 Brunner ..... D14/205  
 D643,014 S \* 8/2011 Goransson ..... D14/205  
 D643,830 S \* 8/2011 Fish ..... D14/205  
 D648,708 S \* 11/2011 Katsuraku ..... D14/223  
 D650,368 S \* 12/2011 Lee ..... D14/223  
 D653,234 S \* 1/2012 Lee ..... D14/205  
 D654,056 S \* 2/2012 Hoggarth ..... D14/223  
 D656,489 S \* 3/2012 Kumagai ..... D14/223  
 D656,491 S \* 3/2012 Nomura ..... D14/223  
 D663,702 S \* 7/2012 Naitou ..... D13/168  
 D663,714 S \* 7/2012 Kang ..... D14/205  
 D666,581 S \* 9/2012 Perez ..... D14/223  
 D667,798 S \* 9/2012 Burwell ..... D13/168  
 D669,881 S \* 10/2012 Clements ..... D14/205  
 8,290,193 B2 \* 10/2012 Pang ..... H04R 1/1033  
 381/374  
 8,314,354 B2 \* 11/2012 Prest ..... H01H 9/0228  
 200/406  
 8,391,536 B2 \* 3/2013 Hashimoto ..... H04R 1/1016  
 381/380  
 D680,102 S \* 4/2013 Chen ..... D14/223  
 8,433,082 B2 \* 4/2013 Abolfathi ..... H04R 25/554  
 381/151  
 D683,334 S \* 5/2013 Gondo ..... D14/223  
 8,456,864 B2 \* 6/2013 Stiehl ..... H01H 9/02  
 361/832  
 D685,764 S \* 7/2013 Coulter ..... D14/205  
 D695,724 S \* 12/2013 Ishikura ..... D14/223  
 8,611,581 B2 \* 12/2013 Matsuo ..... H04R 1/10  
 381/380  
 D698,750 S \* 2/2014 Yoon ..... D14/206  
 D699,226 S \* 2/2014 Yoon ..... D14/223  
 8,712,087 B2 \* 4/2014 Ozawa ..... H04R 1/1016  
 381/380  
 D707,652 S 6/2014 Brunner et al.  
 D707,660 S \* 6/2014 Yang ..... H04R 1/10  
 D14/223  
 8,743,533 B2 \* 6/2014 Stanley ..... H01H 9/0228  
 361/679.01  
 8,776,801 B2 \* 7/2014 McIntosh ..... H04R 25/656  
 128/864  
 D711,356 S \* 8/2014 Yang ..... D14/223  
 D712,371 S \* 9/2014 Henning ..... D14/205  
 8,831,266 B1 \* 9/2014 Huang ..... H04R 1/2811  
 381/380  
 D716,759 S \* 11/2014 Ha ..... D14/205  
 D718,286 S \* 11/2014 Yang ..... D14/223  
 8,879,768 B2 11/2014 Podoloff  
 D721,673 S \* 1/2015 Park ..... D14/205  
 8,934,654 B2 1/2015 Fullam  
 D722,040 S \* 2/2015 Tan ..... D14/205  
 D726,145 S \* 4/2015 Hsieh ..... D14/205  
 D727,871 S \* 4/2015 Orbach ..... D14/205  
 D728,528 S \* 5/2015 Akana ..... D14/218  
 D731,999 S \* 6/2015 Cephress ..... D14/205  
 D736,178 S \* 8/2015 Tsou ..... D14/206  
 D737,251 S \* 8/2015 Thompson ..... D14/223  
 D743,381 S \* 11/2015 Pi ..... D14/218  
 D743,947 S \* 11/2015 Yoshimura ..... D14/223  
 9,197,959 B2 \* 11/2015 Fukushima ..... H04R 1/1058  
 D756,958 S \* 5/2016 Lee ..... D14/205  
 D756,959 S \* 5/2016 Lee ..... D14/205  
 D758,353 S \* 6/2016 Akana ..... D14/218  
 D762,196 S \* 7/2016 Hsieh ..... D14/223  
 D762,616 S \* 8/2016 Hsieh ..... D14/205  
 D771,010 S \* 11/2016 Louis ..... D14/205  
 D775,108 S \* 12/2016 Hsieh ..... D14/223  
 D776,083 S \* 1/2017 Lee ..... D14/205  
 D777,136 S \* 1/2017 Erbeus ..... D14/205  
 D777,137 S \* 1/2017 Erbeus ..... D14/205

(56)

References Cited

U.S. PATENT DOCUMENTS

D777,138 S \* 1/2017 Fletcher ..... D14/205  
 D777,139 S \* 1/2017 Fletcher ..... D14/205  
 D777,710 S \* 1/2017 Palmborg ..... D14/223  
 D778,267 S \* 2/2017 Hsieh ..... D14/223  
 D780,155 S \* 2/2017 Levine ..... D14/205  
 D781,269 S \* 3/2017 Choe ..... D14/223  
 D782,997 S \* 4/2017 Shin ..... D14/205  
 D782,998 S \* 4/2017 Shin ..... D14/205  
 D786,217 S \* 5/2017 Stoch ..... D14/205  
 9,648,407 B2 \* 5/2017 Harper ..... H04R 1/1033  
 D806,053 S \* 12/2017 Lee ..... D14/205  
 D812,038 S \* 3/2018 Nakajima ..... D14/205  
 D816,636 S \* 5/2018 Birger ..... D14/205  
 D817,301 S \* 5/2018 Aoyagi ..... D14/205  
 D821,999 S \* 7/2018 Guo ..... D14/205  
 D830,336 S \* 10/2018 Cai ..... D14/205  
 D830,992 S \* 10/2018 Hardi ..... D14/205  
 D830,994 S \* 10/2018 Lee ..... D14/205  
 D831,610 S \* 10/2018 Aoyagi ..... D14/205  
 D839,238 S \* 1/2019 Hu ..... D14/205  
 D840,372 S \* 2/2019 Carr ..... D14/205  
 D840,972 S \* 2/2019 Luo ..... D14/205  
 D844,586 S \* 4/2019 Sweet ..... D14/205  
 D845,272 S \* 4/2019 Birger ..... D14/205  
 D845,926 S \* 4/2019 Aoyagi ..... D14/205  
 D850,407 S \* 6/2019 Li ..... D14/205  
 D859,357 S \* 9/2019 Lin ..... D14/205  
 D859,358 S \* 9/2019 Wang ..... D14/205  
 D865,707 S \* 11/2019 Bian ..... D14/205  
 D873,791 S \* 1/2020 Aoyagi ..... D14/205  
 D874,429 S \* 2/2020 Aoyagi ..... D14/205  
 D875,070 S \* 2/2020 Carr ..... D14/205  
 D876,386 S \* 2/2020 Birger ..... D14/205  
 D881,838 S \* 4/2020 Aoyagi ..... D14/205  
 D890,121 S \* 7/2020 Tsubone ..... D14/205  
 D890,127 S \* 7/2020 Kim ..... D14/205  
 D890,128 S \* 7/2020 Kim ..... D14/205  
 D894,152 S \* 8/2020 Sweet ..... D14/205  
 D895,569 S \* 9/2020 Roberts ..... D14/205  
 D907,599 S \* 1/2021 Dryden ..... D14/205  
 D908,109 S \* 1/2021 Birger ..... D14/205  
 D909,990 S \* 2/2021 Birger ..... D14/205

D920,951 S \* 6/2021 Dryden ..... D14/205  
 D921,608 S \* 6/2021 Aoyagi ..... D14/205  
 D923,601 S \* 6/2021 Kim ..... D14/205  
 2013/0170692 A1 7/2013 Kaneko et al.  
 2016/0050487 A1 \* 2/2016 Kim ..... H04R 5/02  
 381/74  
 2017/0295421 A1 \* 10/2017 Hung ..... H04R 1/1041  
 2018/0048953 A1 \* 2/2018 Park ..... G06F 3/162  
 2018/0070165 A1 \* 3/2018 Hatfield ..... H04R 1/1016  
 2019/0313177 A1 \* 10/2019 Shiang ..... H04R 1/1025  
 2021/0152916 A1 \* 5/2021 Kohler ..... H04R 1/1025

FOREIGN PATENT DOCUMENTS

CN 303159413 4/2015  
 CN 303190103 4/2015  
 CN 303297640 7/2015  
 CN 303634597 4/2016  
 CN 303647619 4/2016  
 CN 303654967 4/2016  
 CN 303691284 6/2016  
 CN 303841127 9/2016  
 CN 304122715 S 1/2017  
 CN 306196610 \* 11/2020  
 EM 006645370-0002 \* 7/2019  
 EM 008383848-0001 \* 1/2021  
 JP D1322444 S 1/2008  
 JP 2013168981 A 8/2013  
 JP D1490815 1/2014  
 JP D1567615 S 12/2016  
 JP D1577262 S 4/2017  
 KR D30-0796056 5/2015  
 KR D30-0852003 4/2016

OTHER PUBLICATIONS

Chester Tan, Beoplay H3: Earphones Review, Online Review, Jun. 4, 2014.  
 Japanese Patent Office Document HJ19003319, dated by JPO Mar. 2007.  
 Dime, Japanese Patent Office Document HA27001939, dated by JPO Apr. 16, 2015.

\* cited by examiner

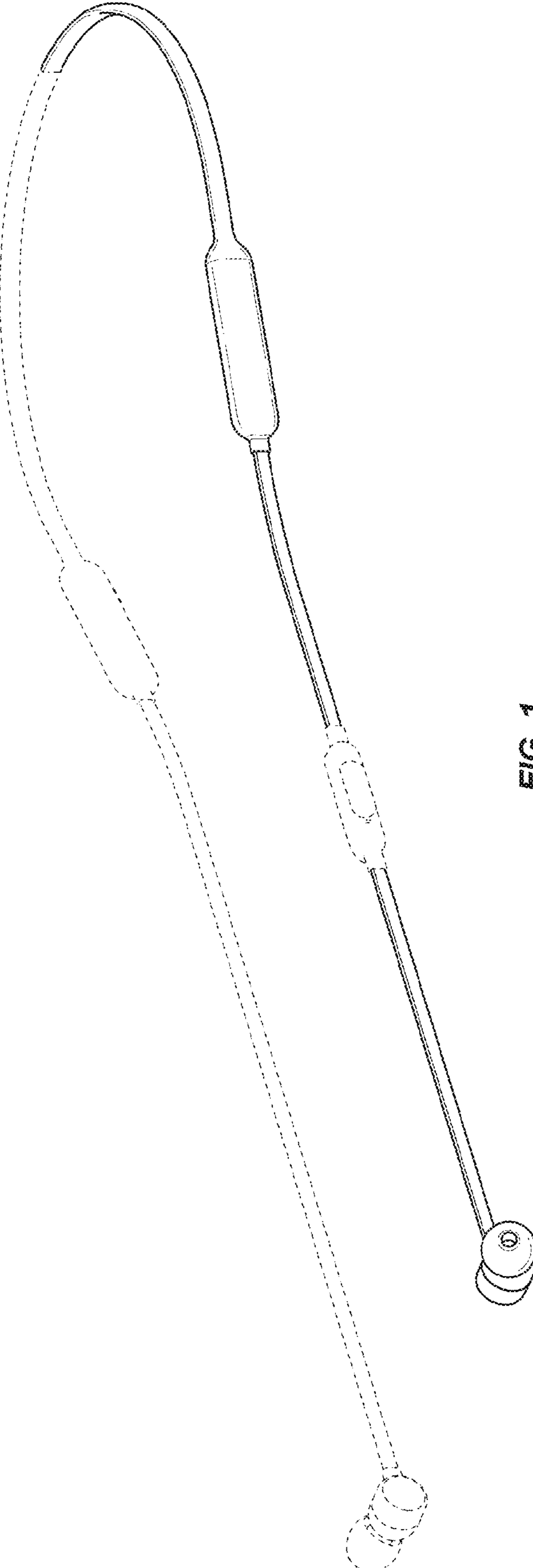


FIG. 1

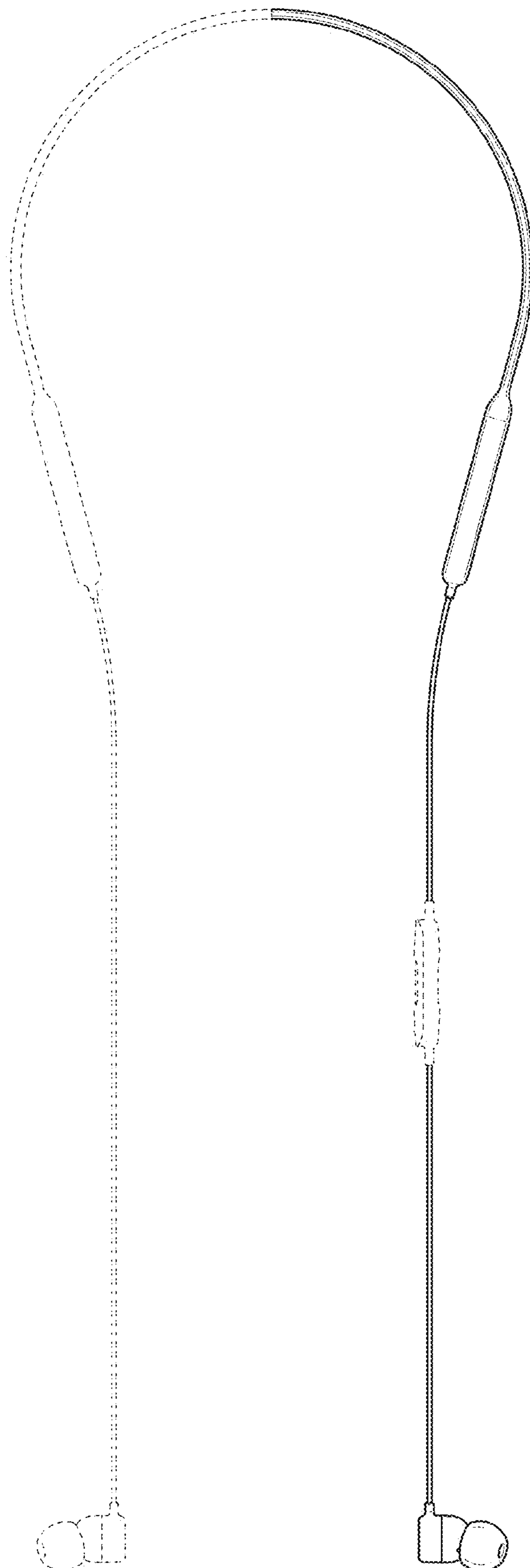


FIG. 2

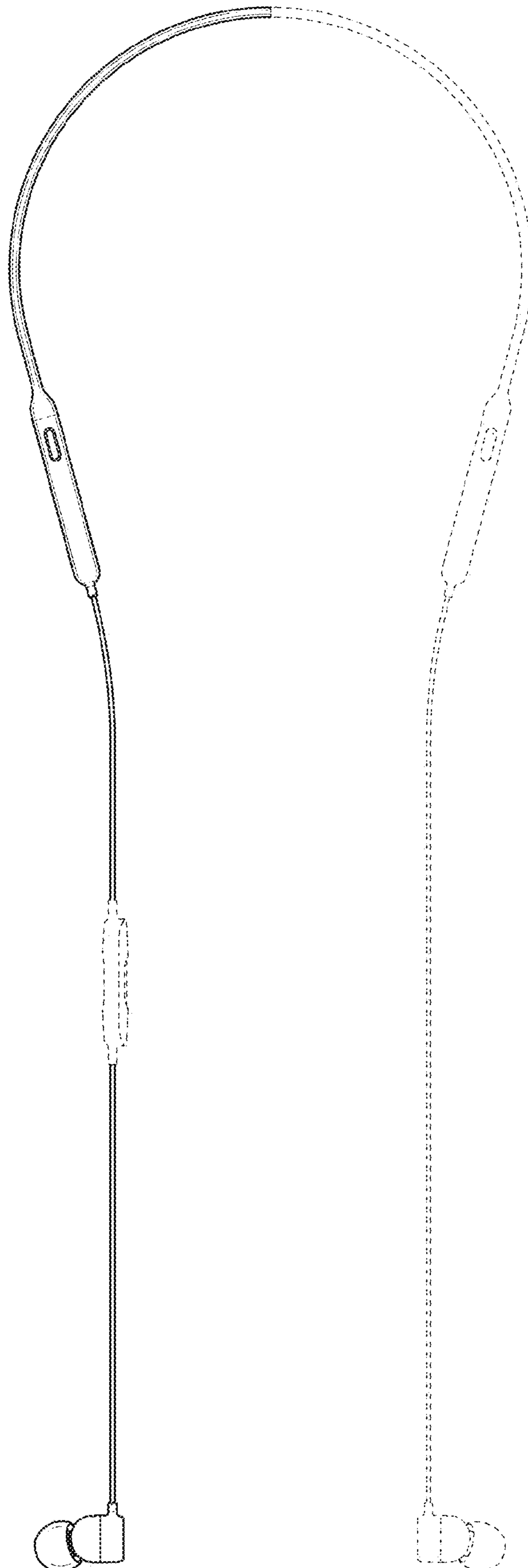
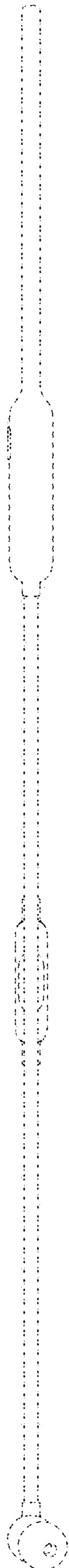
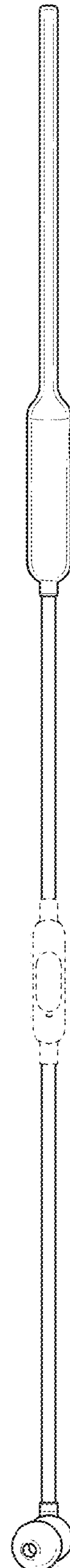


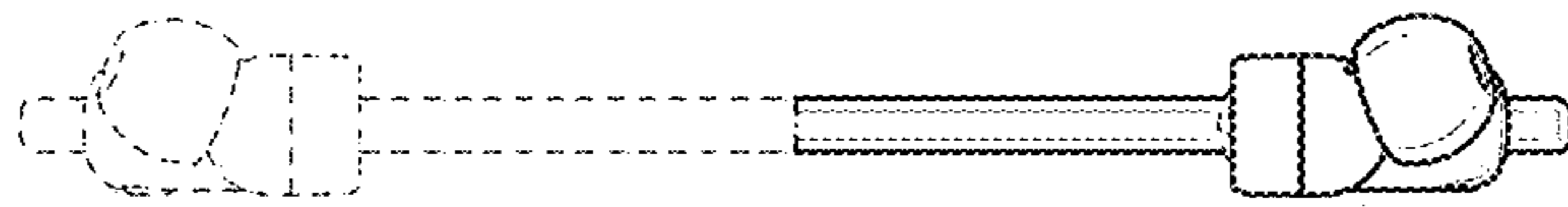
FIG. 3



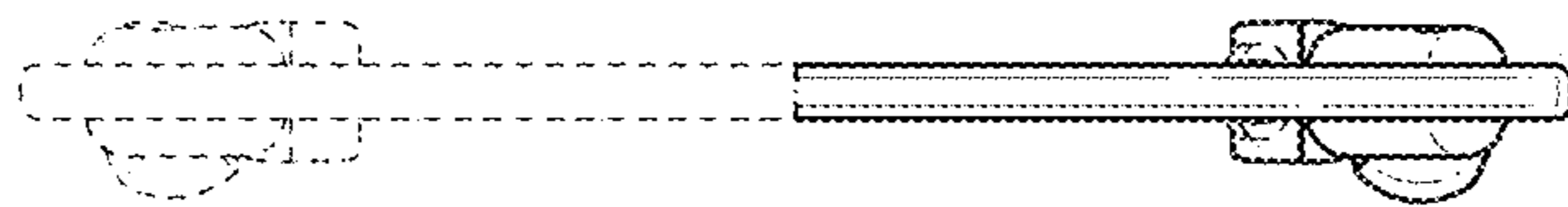
**FIG. 4**



**FIG. 5**



**FIG. 6**



**FIG. 7**