



US00D941800S

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

(54) **HEADPHONES**

(71) Applicant: **Apple Inc.**, Cupertino, CA (US)

(72) Inventors: **Shota Aoyagi**, San Francisco, CA (US);
Robert Boyd, Los Angeles, CA (US);
Robert Brunner, Glen Ellen, CA (US);
Monica Fernandez, Reseda, CA (US);
Christopher Kuh, San Francisco, CA
(US); **Christopher J. Stringer**,
Woodside, CA (US)

(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

(**) 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)

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Sterne, Kessler,
Goldstein & Fox P.L.L.C.

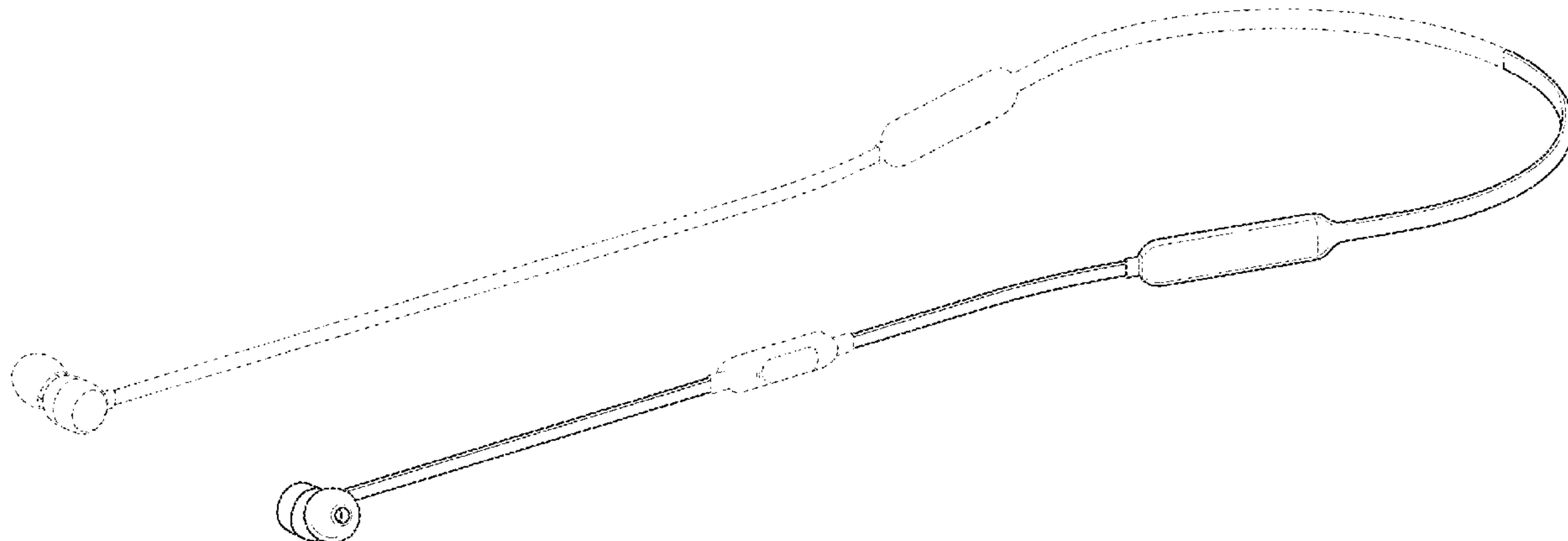
(57) **CLAIM**

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 Otori 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

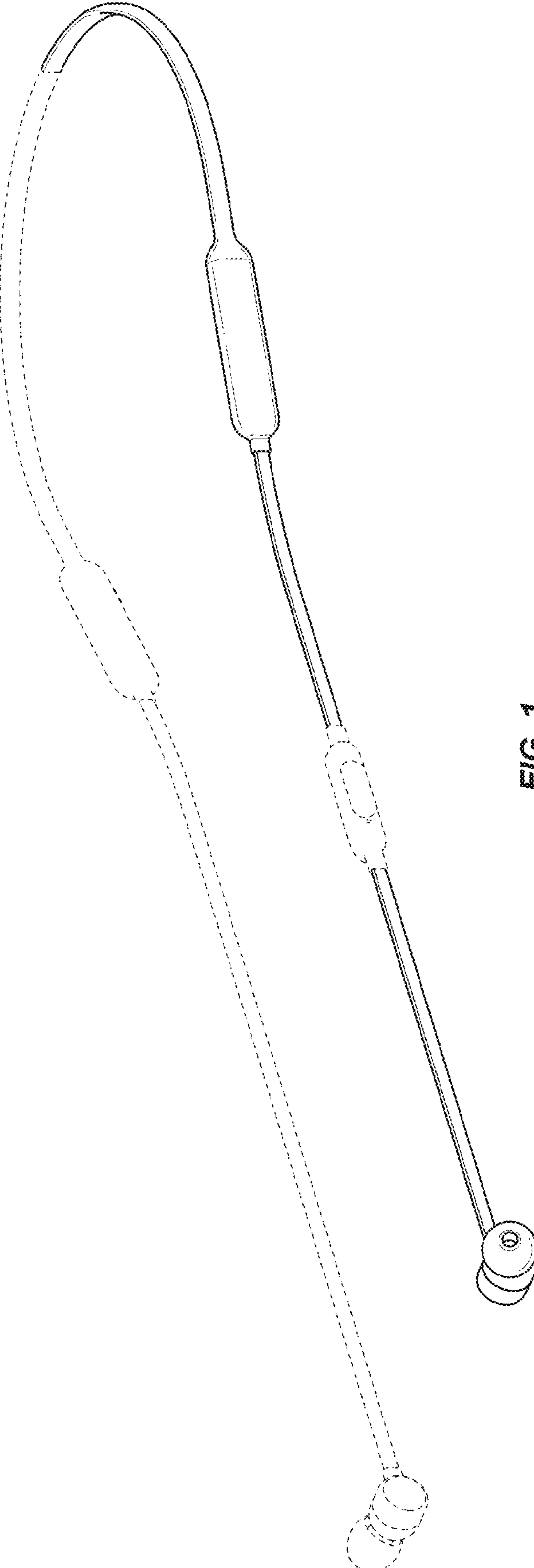


FIG. 1

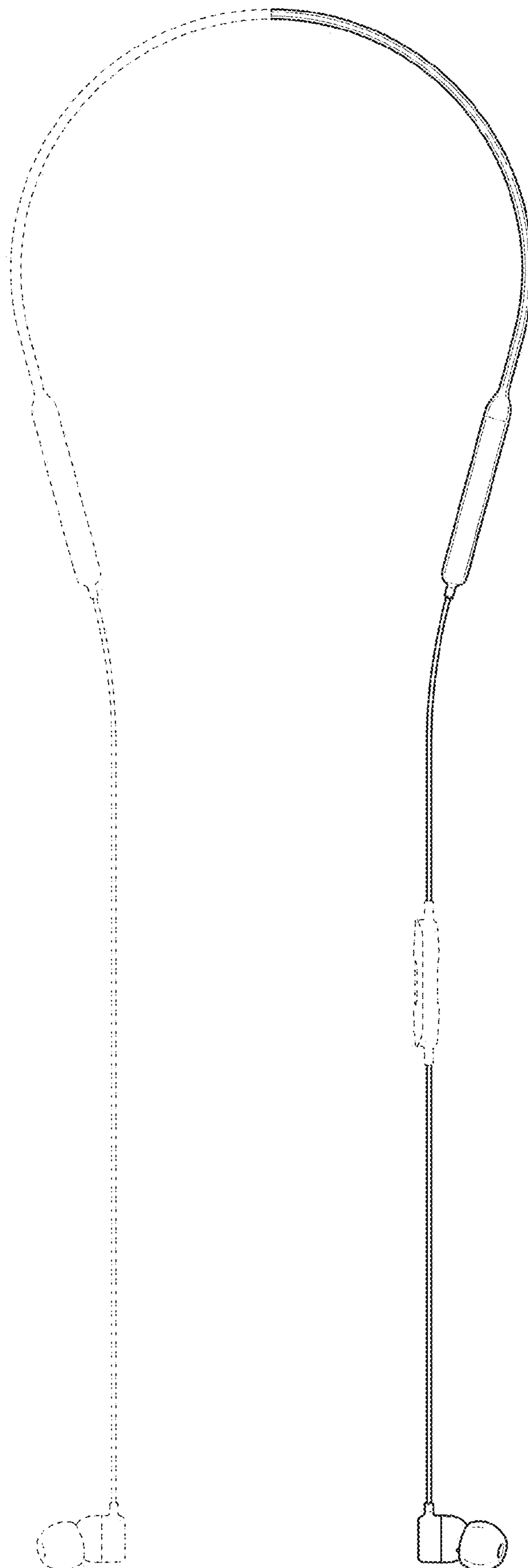


FIG. 2

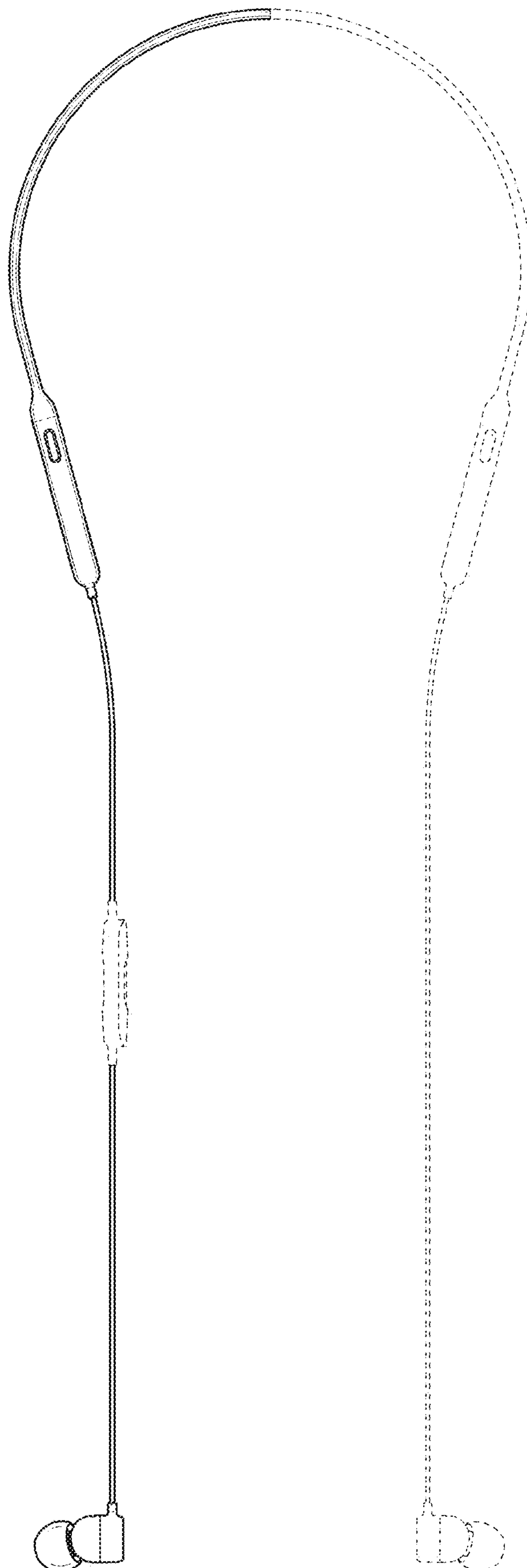


FIG. 3

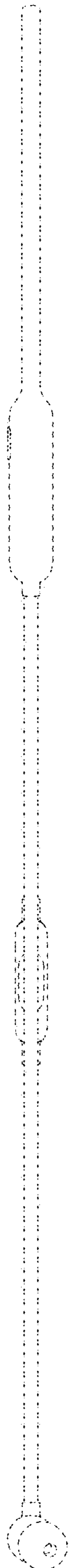


FIG. 4

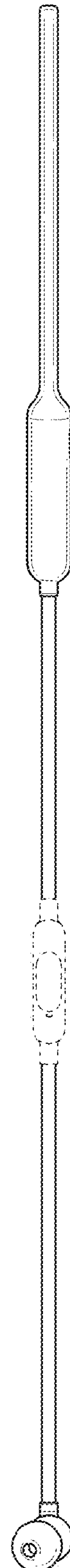


FIG. 5

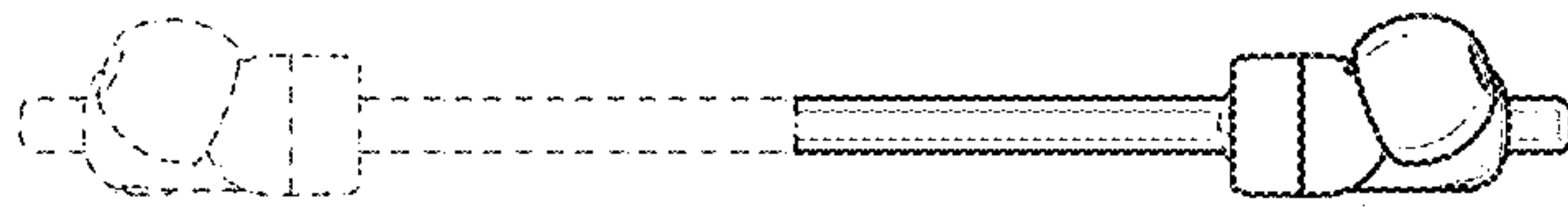


FIG. 6

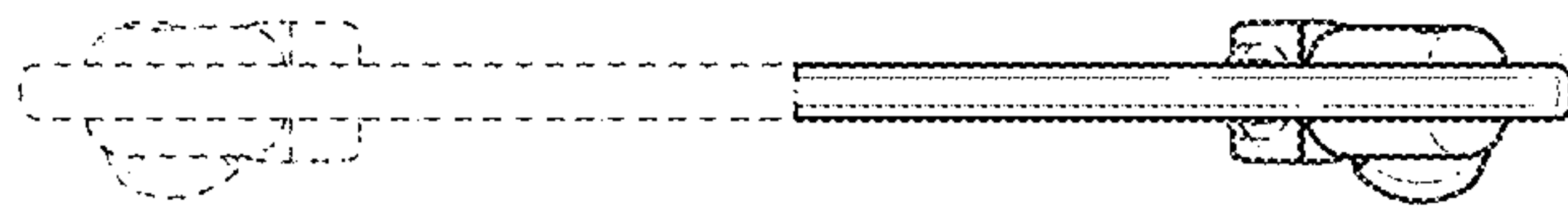


FIG. 7