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(12) **United States Design Patent** (10) **Patent No.:** **US D921,608 S**  
**Aoyagi et al.** (45) **Date of Patent:** **\*\* Jun. 8, 2021**

(54) **HEADPHONES**

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- (73) Assignee: **Apple Inc.**, Cupertino, CA (US)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/720,426**
- (22) Filed: **Jan. 13, 2020**

**Related U.S. Application Data**

- (63) 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, application No. 29/720,426, filed on Jan. 13, 2020, which 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 application No. 29/622,980, (Continued)

- (51) **LOC (13) Cl.** ..... **14-01**
- (52) **U.S. Cl.**  
USPC ..... **D14/205**; D14/218
- (58) **Field of Classification Search**  
USPC ..... D14/205, 218, 223, 240, 433; D13/168, D13/158; D10/104.1, 106.1; D21/333, D21/516, 517; 379/420.04; 381/380, 381/381; 455/90.3, 575.1, 569.1  
CPC ..... H04R 1/10; H04R 25/00; H04R 1/1016; H04R 1/1041; H04M 1/00; H03J 9/02; G06F 3/01

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 1,312,493 A 8/1919 Theis
  - 2,248,837 A 7/1941 Walters
- (Continued)

FOREIGN PATENT DOCUMENTS

- CA 184755 \* 8/2017
  - CA 173260 S 9/2017
- (Continued)

OTHER PUBLICATIONS

Japanese Patent Office Document HJ19003319, dated by JPO Mar. 2007.

(Continued)

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(57) **CLAIM**

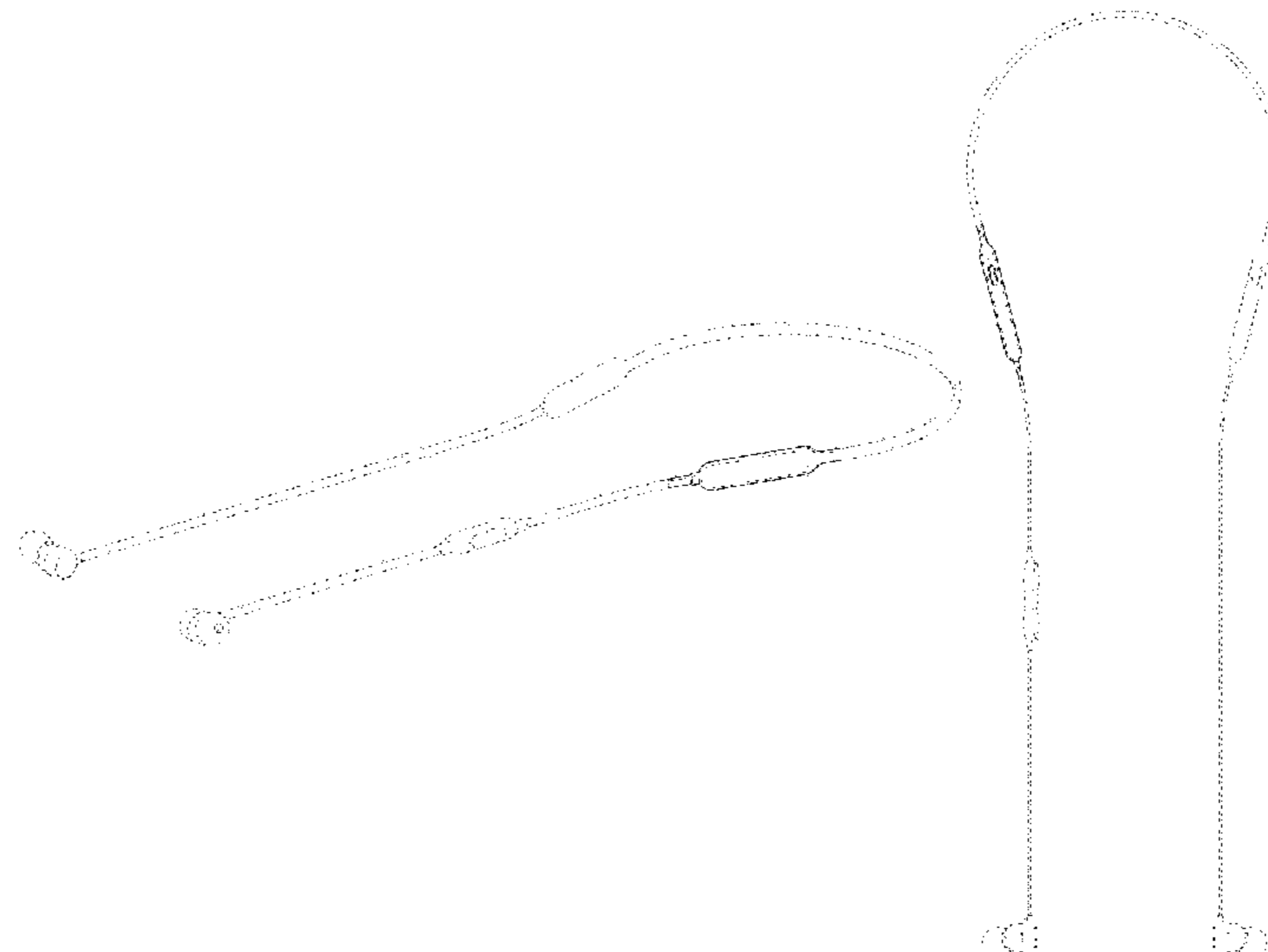
The ornamental design for headphones, as shown and described.

**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 show 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. 29/720,426, filed on Jan. 13, 2020, which 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, 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

2,430,229 A 11/1947 Kelsey  
 2,501,107 A 3/1950 Volkmann  
 2,545,731 A 3/1951 French  
 D168,240 S 11/1952 Rodrieguez  
 2,739,660 A 3/1956 French  
 3,195,392 A 7/1965 Guy  
 3,301,253 A 1/1967 Glorig  
 D241,881 S 10/1976 Peterson et al.  
 4,457,396 A 7/1984 James  
 D278,234 S 4/1985 Saito  
 4,539,708 A 9/1985 Norris  
 4,550,227 A 10/1985 Topholm  
 D287,280 S 12/1986 Topholm  
 D287,764 S 1/1987 Topholm  
 D287,765 S 1/1987 Topholm  
 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, Jr. et al.  
 5,829,062 A 11/1998 Magidson  
 6,010,216 A 1/2000 Jesiek  
 6,198,821 B1 \* 3/2001 Yang ..... H01R 13/70  
 379/420.04  
 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  
 D479,225 S \* 9/2003 De Saulles ..... D14/218  
 D482,348 S 11/2003 Villaverde et al.  
 6,741,719 B1 5/2004 Orten  
 D494,571 S \* 8/2004 Polito ..... D14/223  
 6,799,018 B1 9/2004 Lam  
 D504,177 S 4/2005 Erfan  
 7,010,139 B1 3/2006 Smeehuizen  
 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.  
 D569,841 S 5/2008 Chung 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.  
 D584,292 S \* 1/2009 Knight ..... D14/218  
 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 et al.  
 D594,442 S 6/2009 Chon et al.  
 D596,617 S 7/2009 Devlas et al.  
 D598,901 S 8/2009 Lee et al.  
 D599,781 S 9/2009 Lee et al.  
 D600,675 S 9/2009 Lee et al.  
 D604,269 S 11/2009 Choe  
 D604,272 S 11/2009 Kitayama

D606,971 S 12/2009 Christopher et al.  
 D607,875 S 1/2010 Pedersen, II  
 D609,698 S 2/2010 Ng  
 D614,167 S \* 4/2010 Brickstad ..... D14/205  
 D621,389 S 8/2010 Nagayama et al.  
 D622,707 S 8/2010 Chen et al.  
 D623,630 S 9/2010 Ohori et al.  
 D625,294 S \* 10/2010 Wada ..... D14/218  
 D627,764 S 11/2010 Tsai et al.  
 D627,765 S 11/2010 Zheng  
 D629,793 S 12/2010 Göransson  
 D630,179 S 1/2011 Park et al.  
 D631,037 S 1/2011 Park et al.  
 D636,763 S 4/2011 Walter  
 7,920,902 B2 4/2011 Carroll  
 D637,585 S 5/2011 Nagayama et al.  
 D637,998 S 5/2011 Brunner et al.  
 D637,999 S 5/2011 Brunner et al.  
 D643,014 S \* 8/2011 Goransson ..... D14/205  
 D643,830 S 8/2011 Fish  
 D648,708 S 11/2011 Katsuraku et al.  
 D650,368 S 12/2011 Lee et al.  
 D653,234 S 1/2012 Lee et al.  
 D654,056 S 2/2012 Hoggarth et al.  
 D656,489 S 3/2012 Kumagai et al.  
 D656,491 S 3/2012 Nomura  
 D663,702 S \* 7/2012 Naitou ..... D13/168  
 D663,714 S 7/2012 Kang et al.  
 D666,581 S 9/2012 Perez  
 D667,798 S \* 9/2012 Burwell ..... D13/168  
 D669,881 S 10/2012 Clements et al.  
 8,290,193 B2 10/2012 Pang et al.  
 8,314,354 B2 11/2012 Prest et al.  
 8,391,536 B2 3/2013 Hashimoto  
 D680,102 S 4/2013 Chen  
 8,433,082 B2 4/2013 Abolfathi  
 D683,334 S 5/2013 Gondo  
 8,456,864 B2 6/2013 Stiehl et al.  
 D685,764 S 7/2013 Coulter  
 D695,724 S 12/2013 Ishikura  
 8,611,581 B2 12/2013 Matsuo et al.  
 D698,750 S 2/2014 Yoon  
 D699,226 S 2/2014 Yoon  
 8,712,087 B2 4/2014 Ozawa  
 D707,660 S 6/2014 Yang  
 8,743,533 B2 6/2014 Stanley  
 8,776,801 B2 7/2014 McIntosh  
 D711,356 S 8/2014 Yang  
 D712,371 S 9/2014 Henning  
 8,831,266 B1 9/2014 Huang  
 D716,759 S 11/2014 Ha et al.  
 D718,286 S 11/2014 Yang  
 D721,673 S 1/2015 Park et al.  
 8,934,654 B2 1/2015 Fullam  
 D722,040 S 2/2015 Tan et al.  
 8,983,108 B2 3/2015 Ho  
 D726,145 S 4/2015 Hsieh et al.  
 D727,871 S 4/2015 Orbach  
 D728,528 S 5/2015 Akana et al.  
 D731,999 S 6/2015 Cepress et al.  
 D736,178 S 8/2015 Tsou  
 D737,251 S 8/2015 Thompson et al.  
 D739,999 S 10/2015 Hardy  
 D743,381 S 11/2015 Pi et al.  
 D743,947 S 11/2015 Yoshimura  
 9,197,959 B2 11/2015 Fukushima et al.  
 D756,958 S 5/2016 Lee et al.  
 D756,959 S 5/2016 Lee et al.  
 D758,353 S 6/2016 Akana et al.  
 D762,196 S 7/2016 Hsieh et al.  
 D762,616 S 8/2016 Hsieh et al.  
 D771,010 S 11/2016 Louis  
 D775,108 S 12/2016 Hsieh et al.  
 D776,083 S 1/2017 Lee et al.  
 D777,136 S 1/2017 Erbeus  
 D777,137 S 1/2017 Erbeus  
 D777,138 S 1/2017 Fletcher et al.  
 D777,139 S 1/2017 Fletcher et al.  
 D777,710 S 1/2017 Palmborg et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

D778,267 S 2/2017 Hsieh et al.  
 D780,155 S 2/2017 Levine et al.  
 D781,269 S 3/2017 Choe et al.  
 D782,997 S 4/2017 Shin et al.  
 D782,998 S 4/2017 Shin et al.  
 D786,217 S 5/2017 Stoch  
 D806,053 S 12/2017 Lee  
 D812,038 S 3/2018 Nakajima  
 D816,636 S 5/2018 Birger  
 D817,301 S 5/2018 Aoyagi et al.  
 D821,999 S 7/2018 Guo  
 D830,336 S 10/2018 Cai  
 D830,992 S 10/2018 Hardi  
 D830,994 S 10/2018 Lee  
 D831,610 S 10/2018 Aoyagi et al.  
 D839,238 S 1/2019 Hu  
 D840,372 S 2/2019 Carr  
 D840,972 S 2/2019 Luo  
 D844,586 S 4/2019 Sweet et al.  
 D845,272 S 4/2019 Birger  
 D845,926 S 4/2019 Aoyagi et al.  
 D850,407 S 6/2019 Li  
 D859,357 S 9/2019 Lin et al.  
 D859,358 S 9/2019 Wang et al.  
 D865,707 S 11/2019 Bian  
 D873,791 S \* 1/2020 Aoyagi ..... D14/205  
 D874,429 S \* 2/2020 Aoyagi ..... D14/205  
 D881,838 S \* 4/2020 Aoyagi ..... D14/205  
 2007/0098201 A1 5/2007 Chen  
 2011/0176700 A1 7/2011 Hashimoto  
 2013/0058516 A1 3/2013 Sullivan et al.  
 2013/0077815 A1 3/2013 Stephenson  
 2013/0170692 A1 7/2013 Kaneko et al.  
 2016/0050487 A1 2/2016 Kim

2017/0134845 A1 5/2017 Milam et al.  
 2017/0208383 A1\* 7/2017 Park ..... H04R 1/1041  
 2017/0295421 A1 10/2017 Hung  
 2018/0070165 A1 3/2018 Hatfield et al.  
 2019/0306609 A1 10/2019 Lee

FOREIGN PATENT DOCUMENTS

CN 206323524 U 8/2013  
 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  
 EM 007463211-0001 \* 12/2019  
 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 D 30-0796056 5/2015  
 KR D 30-0852003 4/2016

OTHER PUBLICATIONS

John Schettino, Nyrius NAEB500 Noise Isolating In-Ear Earphones Review, Online Review, Feb. 23, 2012.  
 Chester Tan, Beoplay H3: Earphones Review, Online Review, Jun. 4, 2014.  
 Dime, Japanese Patent Office Document HA27001939, dated by JPO Apr. 16, 2015.

\* cited by examiner

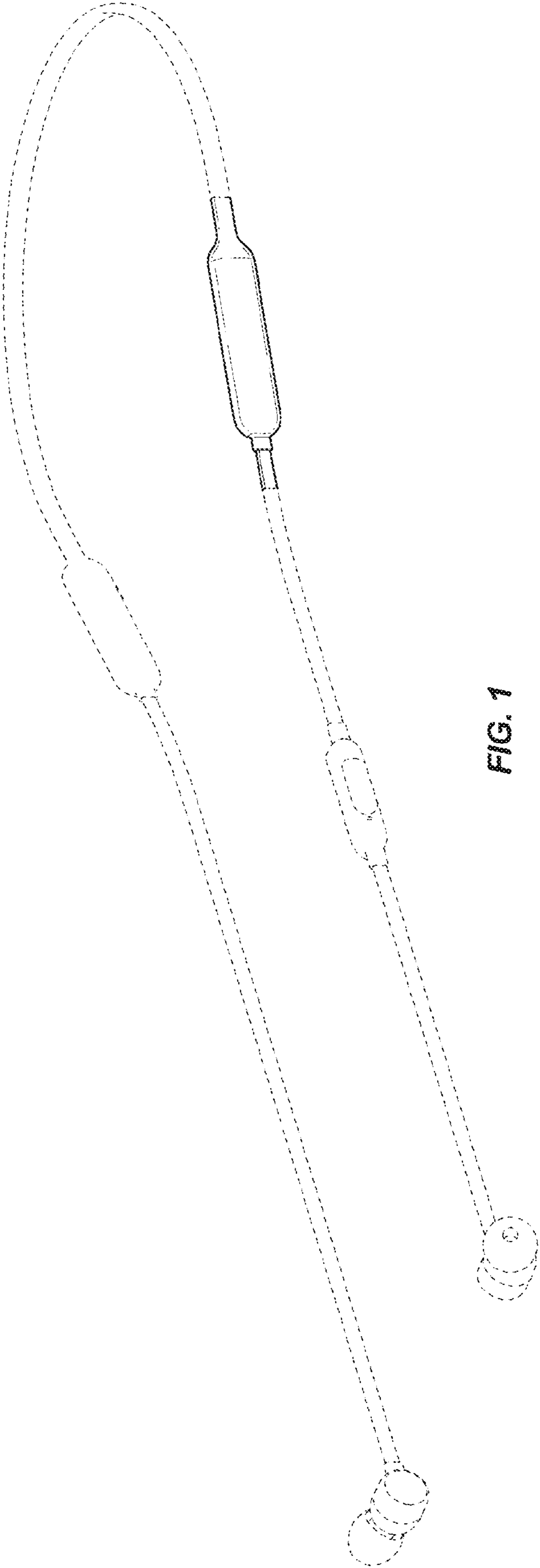


FIG. 1

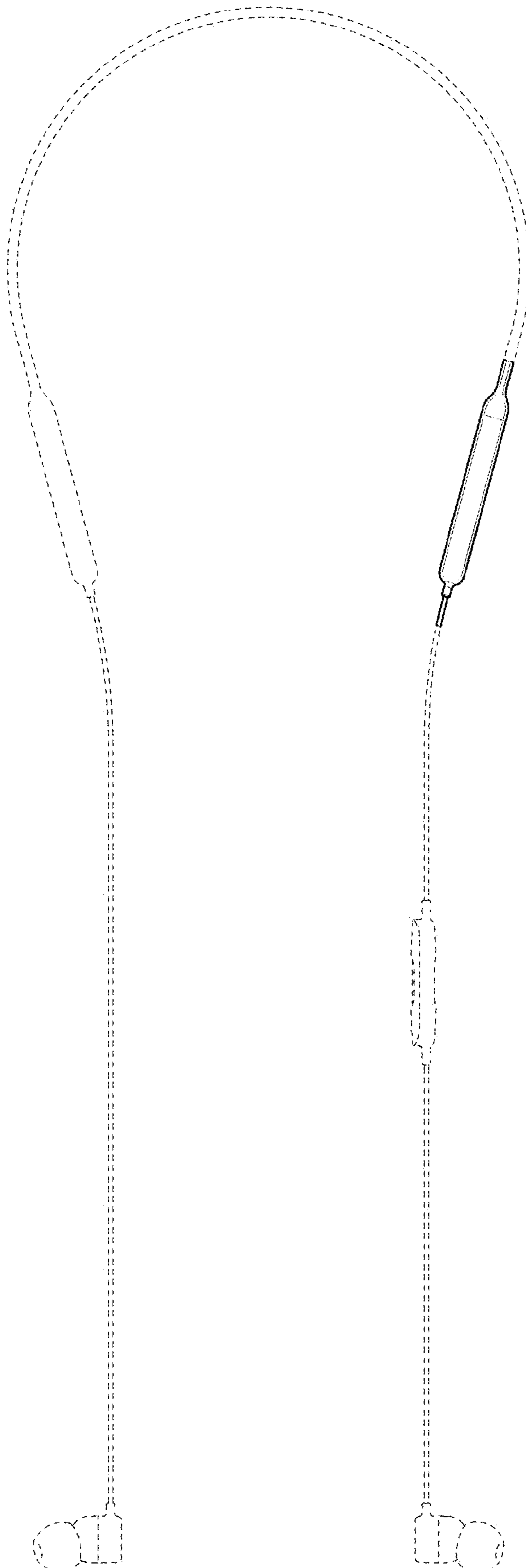


FIG. 2

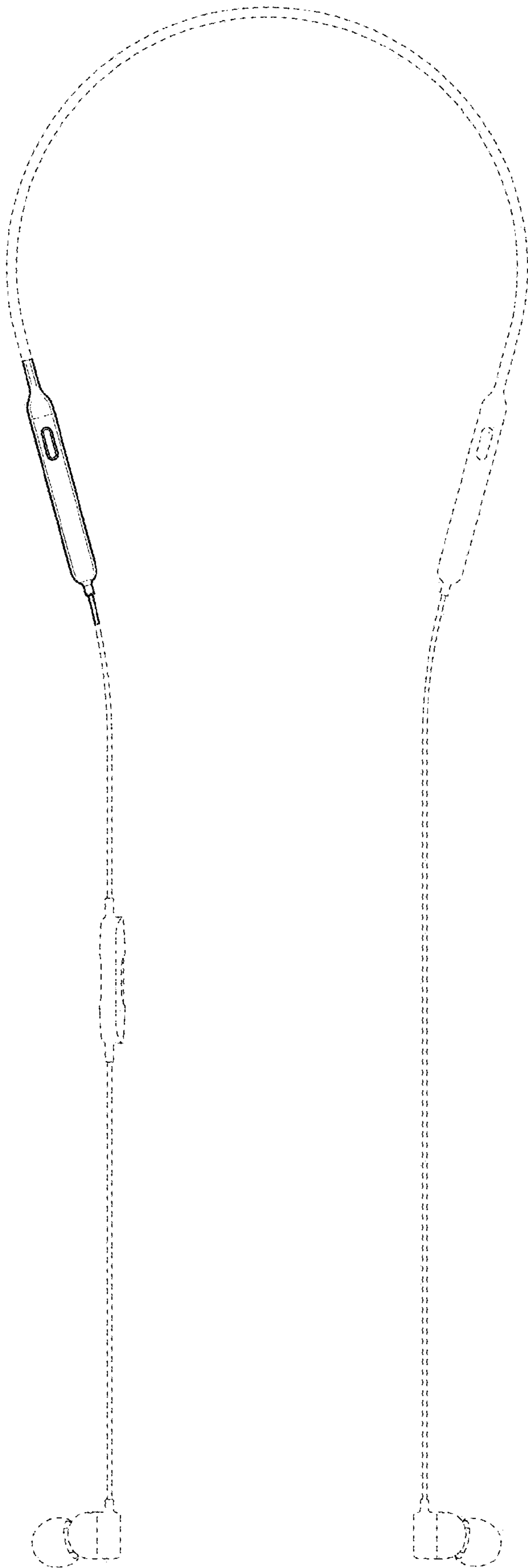
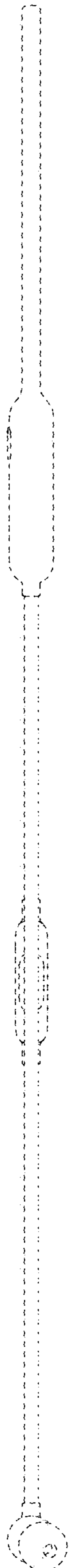
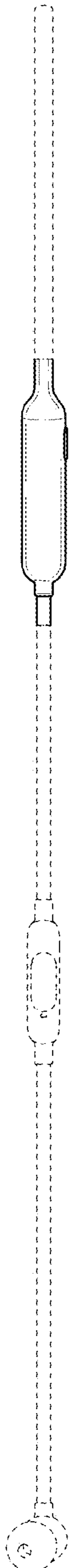


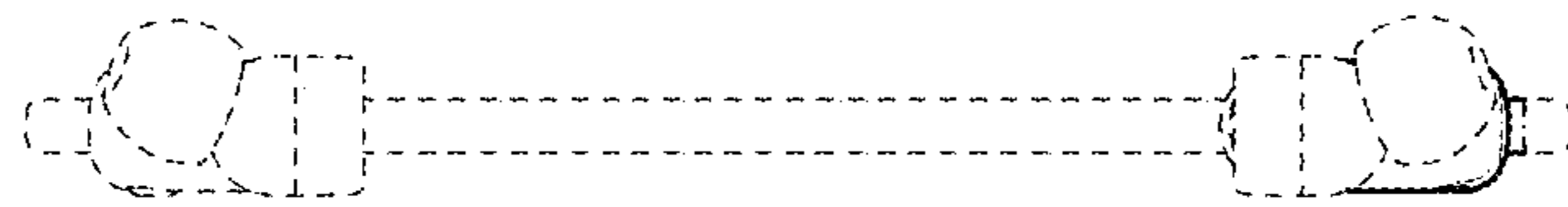
FIG. 3



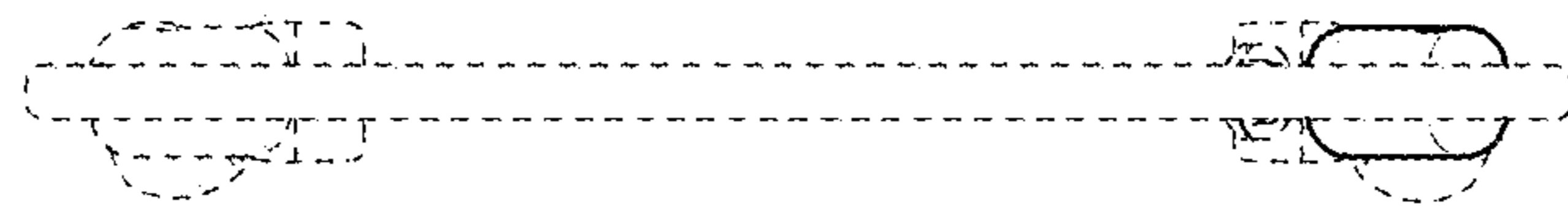
**FIG. 4**



**FIG. 5**



**FIG. 6**



**FIG. 7**



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D921,608 S  
APPLICATION NO. : 29/720426  
DATED : June 8, 2021  
INVENTOR(S) : Aoyagi et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

In the Related U.S. Application Data Item (63), please replace:

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, application No. 29/720,426, filed on Jan. 13, 2020, which 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 application No. 29/622,980, application No. 29/720,426, filed on Jan. 13, 2020, which 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, which is a continuation of application No. 29/575,696, filed on Aug. 26, 2016, now Pat. No. Des. 817,301.

With the following:

Continuation of application No. 29/667,339, filed on Oct. 19, 2018, now Pat. No. Des. 874,429, application No. 29/667,334, filed on Oct. 19, 2018, now Pat. No. Des. 873,791, and application No. 29/667,333, filed on Oct. 19, 2018, now Pat. No. Des. 881,838. Said application No. 29/667,339 is a continuation of application No. 29/622,980, filed on Oct. 20, 2017, now Pat. No. Des. 831,610. Said application No. 29/667,334 is a continuation of application No. 29/622,980. Said application No. 29/667,333 is a continuation of application No. 29/622,980. Said application No. 29/622,980 is a continuation of application No. 29/575,696, filed on Aug. 26, 2016, now Pat. No. Des. 817,301.

Signed and Sealed this  
Twenty-fourth Day of August, 2021



Drew Hirshfeld  
*Performing the Functions and Duties of the  
Under Secretary of Commerce for Intellectual Property and  
Director of the United States Patent and Trademark Office*