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Wiita et al.

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(54) **EARPHONES**

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

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(52) **U.S. Cl.**

USPC **D14/205**

(58) **Field of Classification Search**

USPC D14/205, 223; D24/174; 128/864–866; 381/380–381.322, 328

CPC H04R 1/1016; H04R 1/1066; H04R 1/10; H04R 25/00; H04R 5/033; H04R 5/0335; H04R 1/105; H04R 1/1033; H04R 1/1058; G06F 3/01

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 1,312,493 A 8/1919 Theis
- 2,009,330 A * 7/1935 Tate A43C 7/00
24/715.7
- 2,248,837 A 7/1941 Walters
- 2,430,229 A 11/1947 Kelsey
- 2,481,946 A * 9/1949 Pendleton G02C 3/003
24/114.5
- 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
- 3,213,679 A * 10/1965 Lebow G01L 3/00
73/862.29
- 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

(Continued)

FOREIGN PATENT DOCUMENTS

- CA 173260 9/2017
- CA 190012 5/2021

(Continued)

OTHER PUBLICATIONS

Japanese Patent Office Document HJ19003319, dated Mar. 2007.

(Continued)

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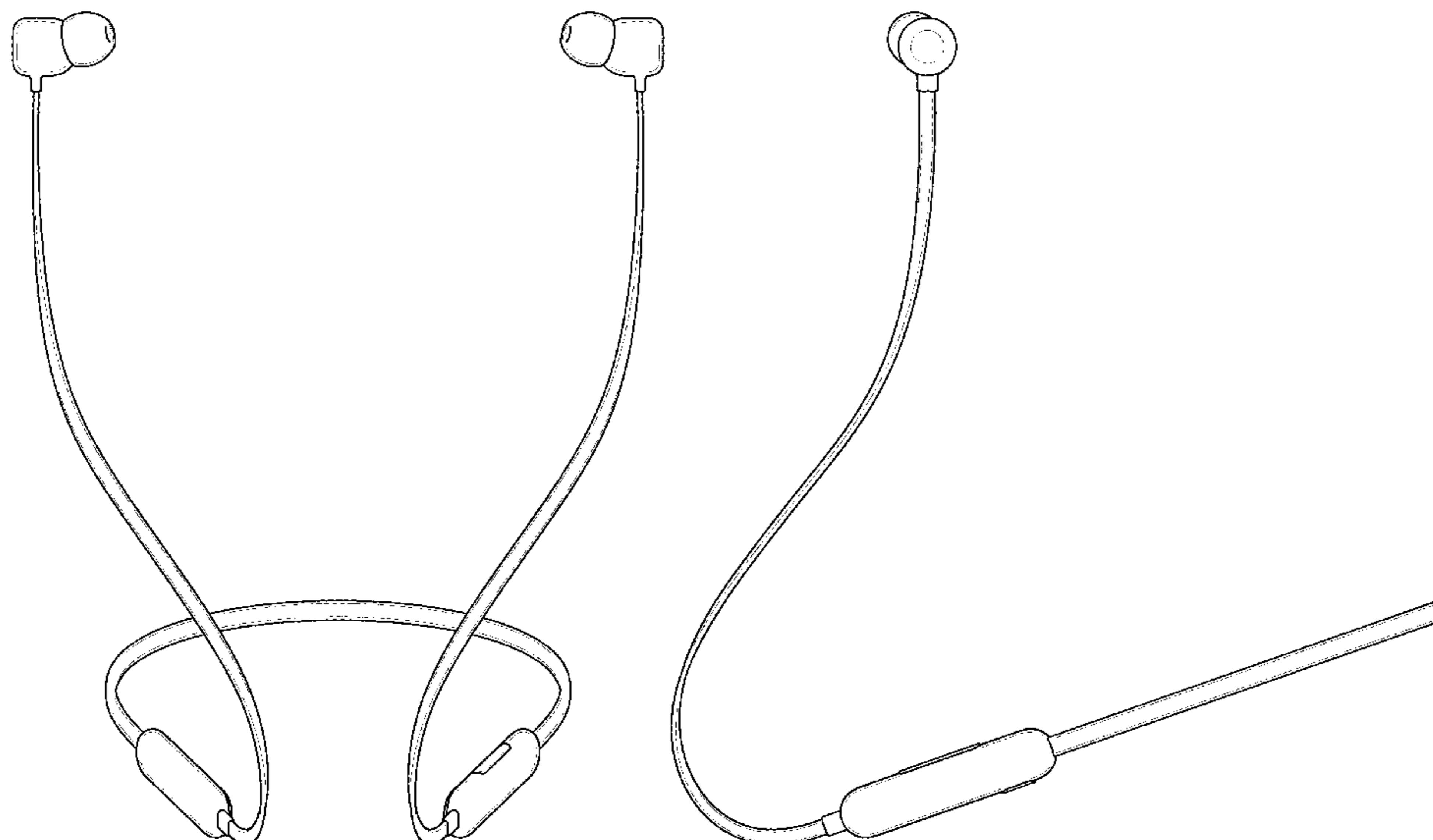
(57) **CLAIM**

The ornamental design for earphones, as shown and described.

DESCRIPTION

FIG. 1 is a front view of earphones showing the claimed design;
FIG. 2 is a rear view thereof;
FIG. 3 is a top view thereof;
FIG. 4 is a bottom view thereof;
FIG. 5 is a right side view thereof; and,
FIG. 6 is a left side view thereof.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D287,765 S	1/1987	Topholm		D650,368 S	12/2011	Lee et al.	
D309,306 S	7/1990	Weiser et al.		D653,234 S	1/2012	Lee et al.	
5,092,018 A *	3/1992	Seron	A44B 99/00	D654,056 S	2/2012	Hoggarth et al.	
			24/3.13	D656,489 S	3/2012	Kumagai et al.	
D337,587 S	7/1993	Nakayama		D656,491 S	3/2012	Nomura	
5,244,135 A *	9/1993	Nelson	A45F 5/00	D663,702 S	7/2012	Naitou	
			224/604	D663,714 S	7/2012	Kang et al.	
D350,354 S	9/1994	Nakamura		D666,581 S	9/2012	Perez	
5,410,608 A *	4/1995	Lucey	H04R 1/105	D667,798 S	9/2012	Burwell et al.	
			381/361	D669,881 S	10/2012	Clements et al.	
5,625,171 A	4/1997	Marshall		8,290,193 B2	10/2012	Pang et al.	
5,659,156 A	8/1997	Mauney et al.		8,314,354 B2 *	11/2012	Prest	H01H 13/76
5,749,373 A	5/1998	Dix					200/406
5,792,998 A	8/1998	Gardner, Jr. et al.		8,391,536 B2	3/2013	Hashimoto	
5,829,062 A	11/1998	Magidson		D680,102 S	4/2013	Chen	
6,010,216 A	1/2000	Jesiek		8,433,082 B2	4/2013	Abolfathi	
6,233,345 B1	5/2001	Urwyler		D683,334 S	5/2013	Gondo	
D458,245 S	6/2002	Masuda		8,456,864 B2	6/2013	Stiehl et al.	
D466,100 S	11/2002	Obata et al.		D685,764 S	7/2013	Coulter	
D473,217 S *	4/2003	Rivera	D14/223	D695,724 S	12/2013	Ishikura	
6,603,863 B1	8/2003	Nagayoshi		8,611,581 B2	12/2013	Matsuo et al.	
D482,348 S	11/2003	Villaverde et al.		D698,750 S *	2/2014	Yoon	D14/206
6,721,579 B2 *	4/2004	Liu	H04M 1/6058	D699,226 S	2/2014	Yoon	
			379/373.02	8,712,087 B2	4/2014	Ozawa	
6,741,719 B1	5/2004	Orten		D707,652 S	6/2014	Brunner et al.	
6,799,018 B1	9/2004	Lam		D707,660 S	6/2014	Yang	
D504,177 S	4/2005	Erfan		8,743,533 B2	6/2014	Stanley	
7,010,139 B1	3/2006	Smeehuyzen		8,776,801 B2	7/2014	Mcintosh	
D535,642 S	1/2007	Garcia et al.		D711,356 S	8/2014	Yang	
D539,782 S *	4/2007	Lee	D14/188	D712,371 S	9/2014	Henning	
D546,321 S	7/2007	Kim		8,831,266 B1	9/2014	Huang	
D550,202 S	9/2007	Meier et al.		D716,759 S	11/2014	Ha et al.	
D550,657 S	9/2007	Gan et al.		D718,286 S	11/2014	Yang	
D554,109 S	10/2007	Ledbetter et al.		8,879,768 B2	11/2014	Podoloff	
D569,841 S	5/2008	Chung et al.		D721,673 S	1/2015	Park et al.	
D575,268 S	8/2008	Christopher et al.		8,934,654 B2	1/2015	Fullam	
D576,149 S	9/2008	Malik et al.		D722,040 S	2/2015	Tan et al.	
D576,154 S	9/2008	Ledbetter et al.		8,983,108 B2	3/2015	Ho	
D578,507 S	10/2008	Ando		D726,145 S	4/2015	Hsieh et al.	
D579,005 S	10/2008	Wilhelmsen		D727,871 S	4/2015	Orbach	
D579,444 S	10/2008	Ewert et al.		D728,528 S	5/2015	Akana et al.	
D587,678 S	3/2009	Yuyama		D731,999 S	6/2015	Cepress et al.	
D587,681 S	3/2009	Yanai		D736,178 S	8/2015	Tsou	
D587,685 S	3/2009	Densho		D737,251 S	8/2015	Thompson et al.	
D589,493 S	3/2009	Densho		D739,999 S	10/2015	Hardy	
D593,067 S	5/2009	Millora et al.		D743,381 S	11/2015	Pi et al.	
D594,441 S	6/2009	Lee et al.		D743,947 S	11/2015	Yoshimura	
D594,442 S	6/2009	Chon et al.		9,197,959 B2	11/2015	Fukushima et al.	
D596,617 S	7/2009	Devlas et al.		D756,958 S	5/2016	Lee et al.	
D598,901 S *	8/2009	Lee	D14/223	D756,959 S	5/2016	Lee et al.	
D599,781 S	9/2009	Lee et al.		D758,353 S	6/2016	Akana et al.	
D600,675 S	9/2009	Lee et al.		D762,196 S	7/2016	Hsieh et al.	
D604,269 S	11/2009	Choe		D762,616 S	8/2016	Hsieh et al.	
D604,272 S	11/2009	Kitayama		D771,010 S	11/2016	Louis	
D606,971 S	12/2009	Christopher et al.		D775,108 S	12/2016	Hsieh et al.	
D607,875 S	1/2010	Pedersen, II		D776,083 S	1/2017	Lee et al.	
D609,698 S	2/2010	Ng		D777,136 S	1/2017	Erbeus	
D614,167 S	4/2010	Brickstad		D777,137 S	1/2017	Erbeus	
D621,389 S	8/2010	Nagayama et al.		D777,138 S	1/2017	Fletcher et al.	
D622,707 S	8/2010	Chen et al.		D777,139 S	1/2017	Fletcher et al.	
D623,630 S	9/2010	Ohori et al.		D777,710 S	1/2017	Palmborg et al.	
D625,294 S	10/2010	Wada		D778,267 S	2/2017	Hsieh et al.	
D627,764 S	11/2010	Tsai et al.		D780,155 S	2/2017	Levine et al.	
D627,765 S	11/2010	Zheng		D781,269 S	3/2017	Choe et al.	
D629,793 S	12/2010	Göransson		D782,997 S	4/2017	Shin et al.	
D630,179 S	1/2011	Park et al.		D782,998 S	4/2017	Shin et al.	
D631,037 S	1/2011	Park et al.		D786,217 S	5/2017	Stoch	
D636,763 S	4/2011	Walter		9,648,407 B2	5/2017	Harper	
7,920,902 B2	4/2011	Carroll		D793,995 S *	8/2017	Nakagawa	D14/218
D637,585 S	5/2011	Nagayama et al.		D806,053 S	12/2017	Lee	
D637,998 S	5/2011	Brunner et al.		D812,038 S	3/2018	Nakajima	
D637,999 S	5/2011	Brunner et al.		D816,059 S *	4/2018	Liu	D14/205
D643,014 S	8/2011	Göransson		D816,636 S *	5/2018	Birger	D14/205
D643,830 S	8/2011	Fish		D817,301 S *	5/2018	Aoyagi	D14/205
D648,708 S	11/2011	Katsuraku 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	D14/205

(56)

References Cited

U.S. PATENT DOCUMENTS

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.
 D847,780 S 5/2019 Brunner 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 D14/223
 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
 D881,838 S 4/2020 Aoyagi et al.
 D890,121 S 7/2020 Tsubone et al.
 D890,127 S * 7/2020 Kim D14/205
 D890,128 S 7/2020 Kim et al.
 D894,152 S 8/2020 Sweet et al.
 D895,569 S 9/2020 Roberts
 D907,599 S 1/2021 Dryden et al.
 D908,109 S 1/2021 Birger
 D909,990 S * 2/2021 Birger D14/206
 D920,951 S * 6/2021 Dryden D14/205
 D921,608 S * 6/2021 Aoyagi D14/218
 D923,601 S * 6/2021 Kim D14/205
 D941,800 S * 1/2022 Aoyagi D14/205
 D945,406 S * 3/2022 Li D14/223
 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 H04R 1/1016
 381/370
 2013/0170692 A1 7/2013 Kaneko et al.
 2016/0050487 A1 2/2016 Kim
 2017/0134845 A1 5/2017 Milam et al.
 2017/0295421 A1 * 10/2017 Hung H04R 1/1033
 2018/0048953 A1 2/2018 Park et al.
 2018/0070165 A1 * 3/2018 Hatfield H04R 1/1058
 2019/0306609 A1 * 10/2019 Lee H04R 1/105
 2019/0313177 A1 10/2019 Shiang
 2021/0152916 A1 5/2021 Kohler

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
 CN 201730339062.X 5/2018
 CN 305734226 4/2020
 CN 306196610 11/2020
 CN 306752851 * 8/2021
 EM 003935741-0001 5/2017
 EM 004707727-0001 2/2018
 EM 006261756-0001 2/2019
 EM 006591434-0001 6/2019
 EM 006645370-0002 * 7/2019
 EM 008383848-0001 * 1/2021
 HK 2017361-0001 * 12/2020
 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
 WO DM/200 310 12/2018
 WO D202987-001 * 7/2019

OTHER PUBLICATIONS

Schettino, John, Nyrius NAEB500 Noise Isolating In-Ear Earphones Review, dated Feb. 23, 2012, <https://the-gadgeteer.com/2012/02/22/nyrius-naeb500-noise-isolating-in-ear-earphones-review>.
 Tan, Chester, Beoplay H3: Earphones Review, dated Jun. 4, 2014, <http://musicphotolife.com/2014/06/beoplay-h3-earphones-review/>.
 Dime, Japanese Patent Office Document HA27001939, dated Jun. 2015.
 Gorson Bluetooth In-Ear Headphones, URL: <<https://www.amazon.de/-/en/Bluetooth-Headphones-Waterproof-Earphones-Microphone-Black/dp/B083RR3V6Y>>.
 Otium X6 Neckband Bluetooth Headphones, URL: <https://www.amazon.com/Headphones-Otium-X6-Lightweight-Cancelling/dp/B071GFWJ6B/ref=cm_cr_arp_d_product_top?ie=UTF8>.

* cited by examiner

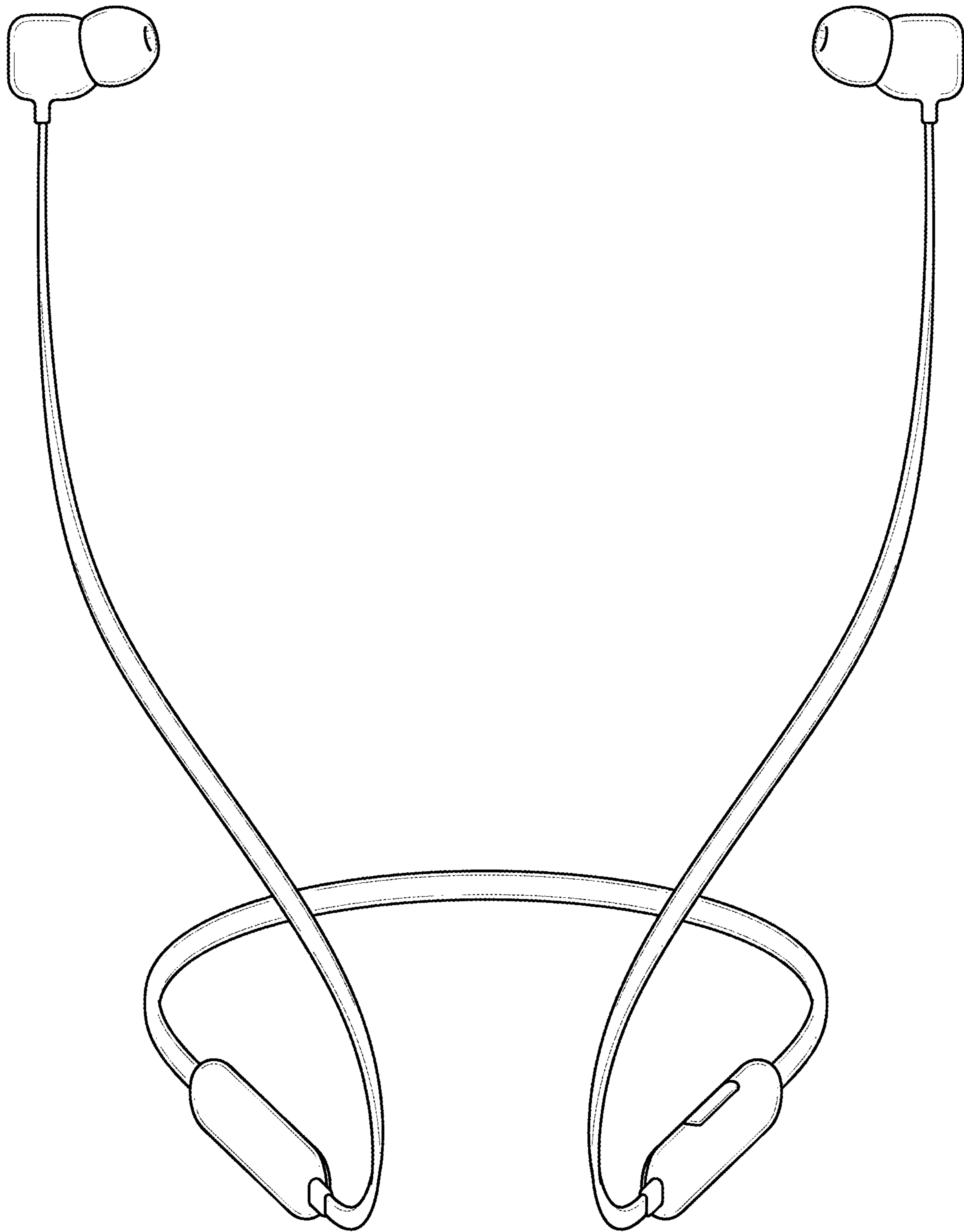


FIG. 1

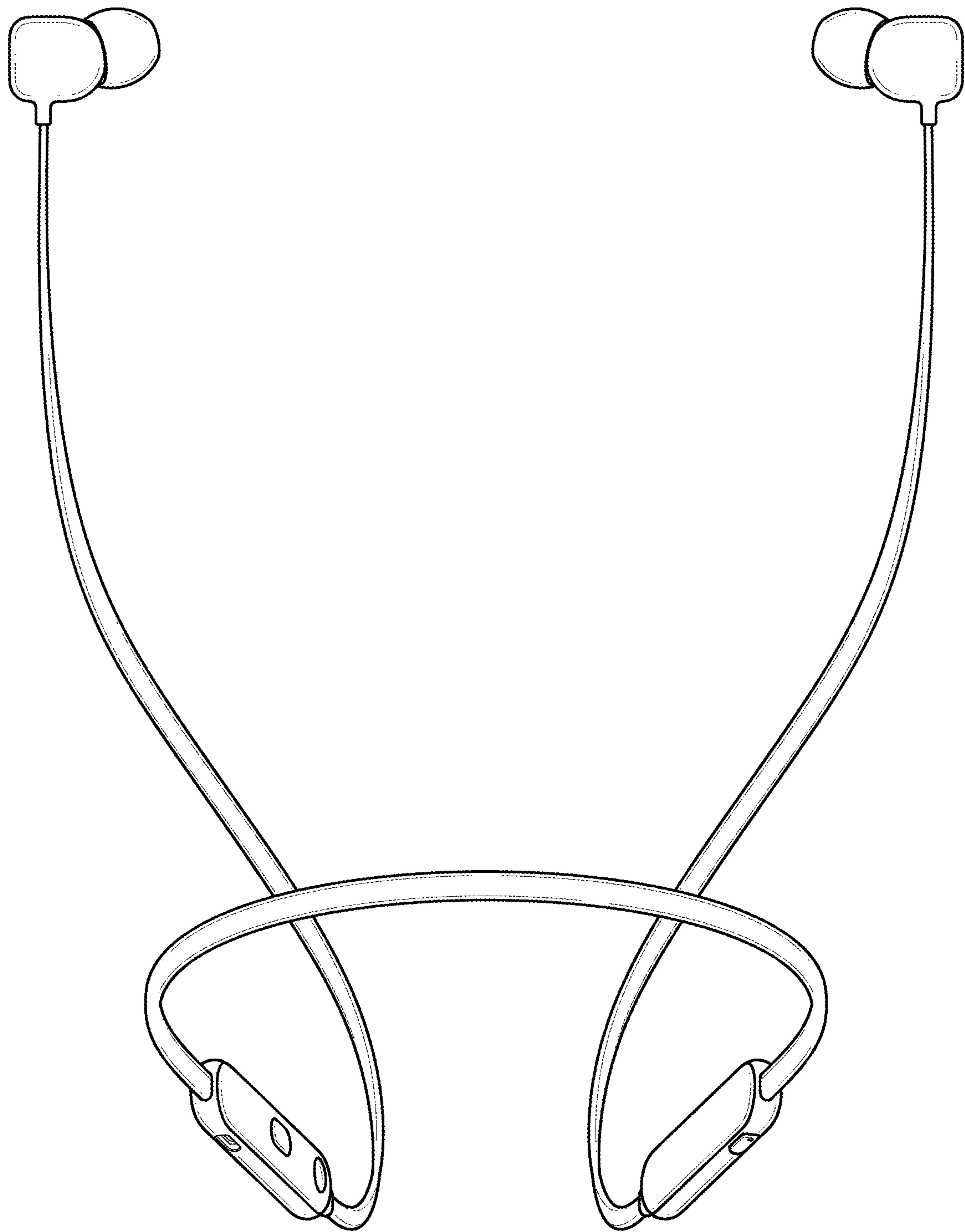


FIG. 2

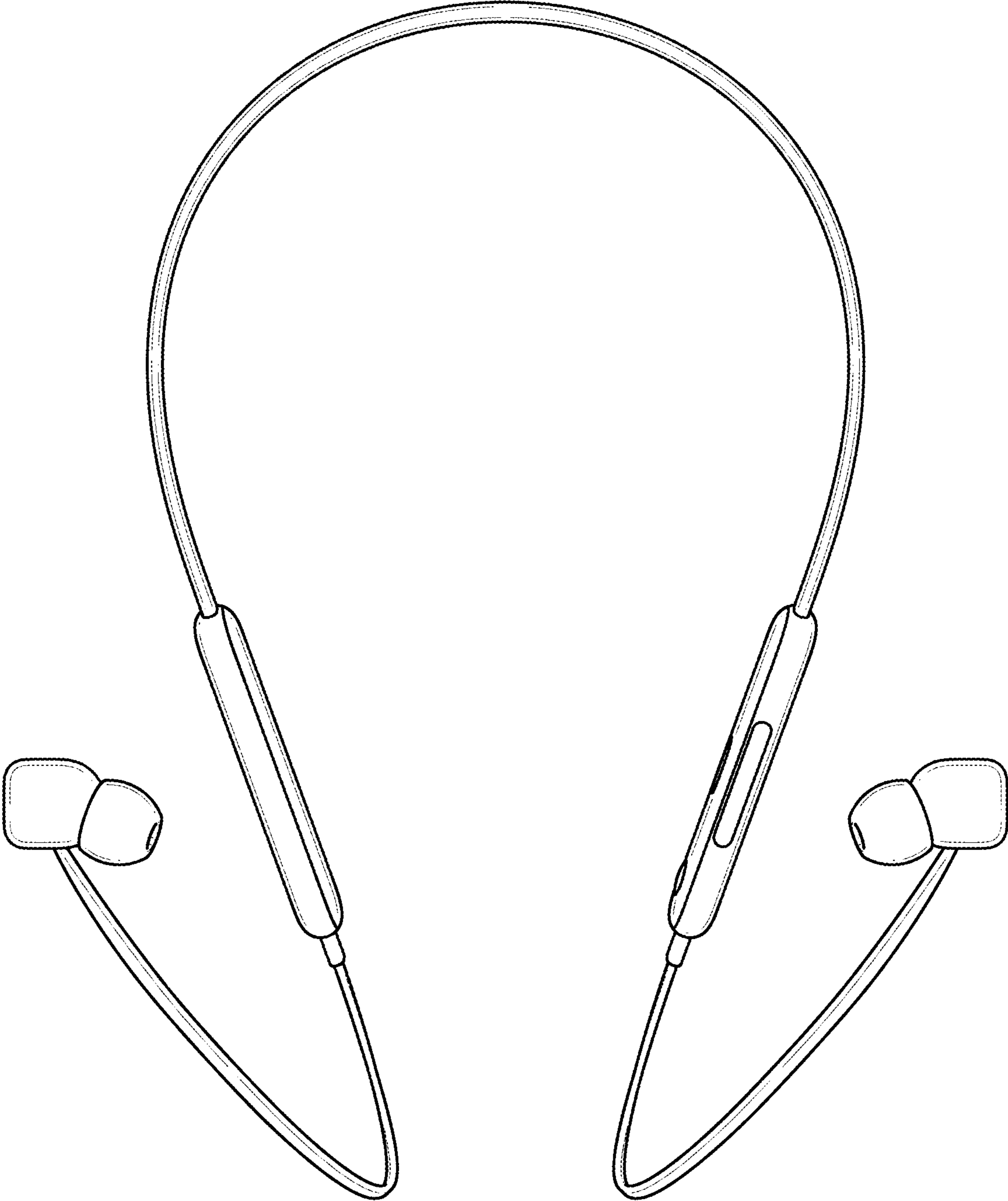


FIG. 3

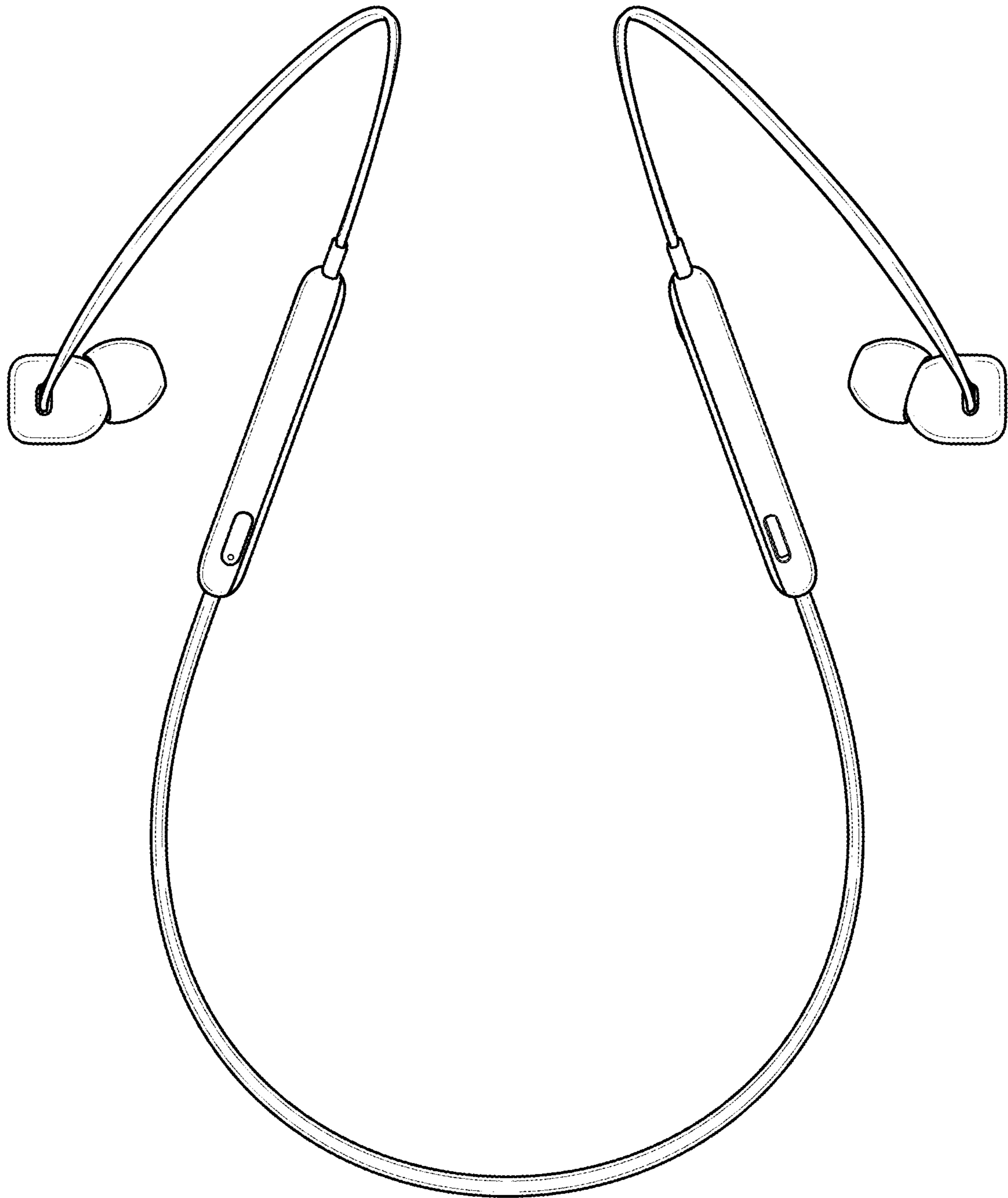


FIG. 4

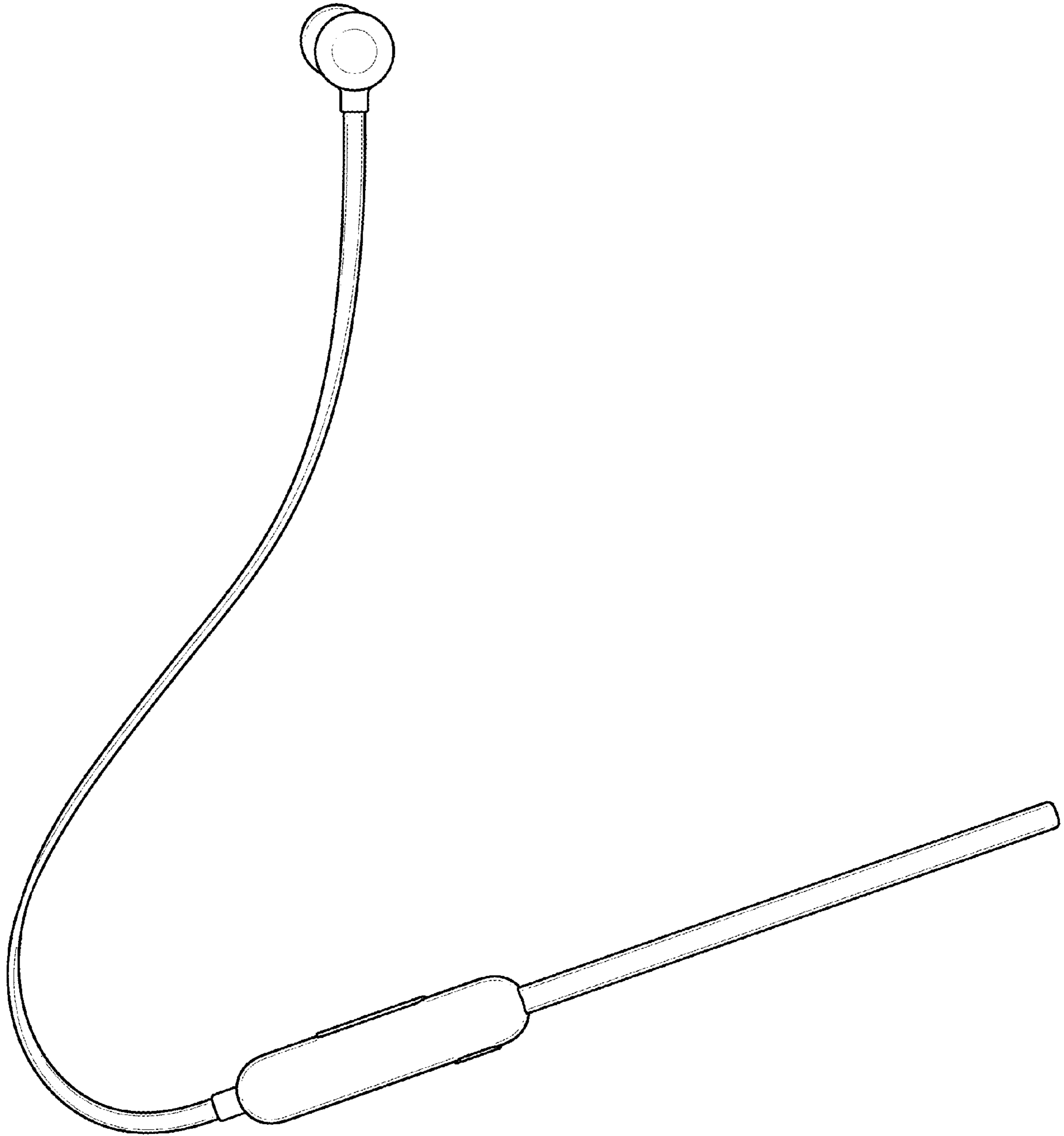


FIG. 5

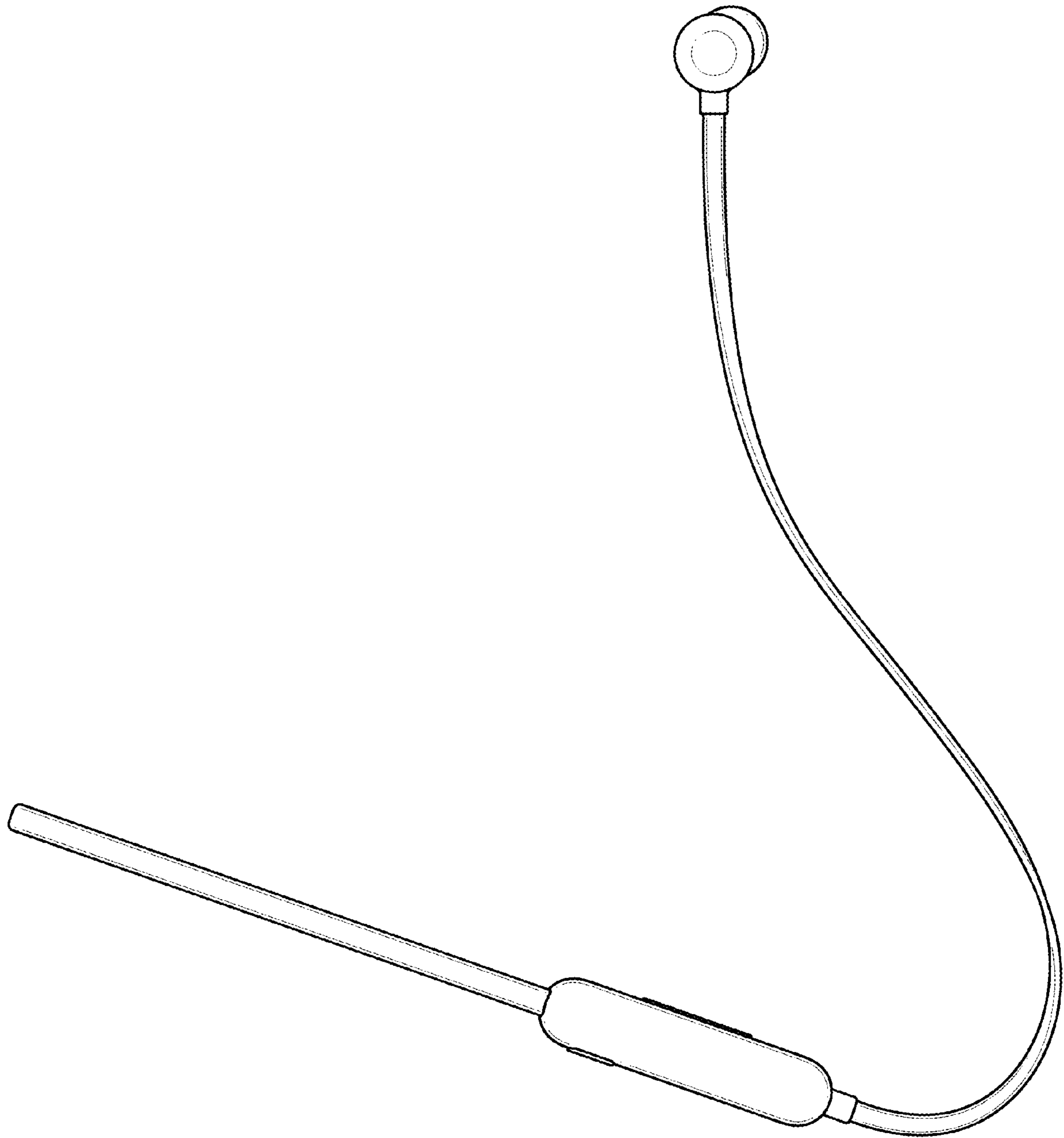


FIG. 6