



US00D894152S

(12) **United States Design Patent**
Sweet et al.

(10) **Patent No.:** **US D894,152 S**

(45) **Date of Patent:** **** Aug. 25, 2020**

(54) **AUDIO ASSEMBLY**
(71) Applicant: **Google LLC**, Mountain View, CA (US)
(72) Inventors: **Kenneth Sweet**, San Francisco, CA (US); **Maj Isabelle Olsson**, Sunnyvale, CA (US); **Peter Michael Cazalet**, Los Gatos, CA (US); **Gina Reimann**, Sunnyvale, CA (US)

2,474,135 A 6/1949 White
2,619,960 A 12/1952 Reynolds
2,910,679 A 10/1959 Baldwin
(Continued)

FOREIGN PATENT DOCUMENTS

CN 1302275 A 7/2001
CN 2449439 Y 9/2001
(Continued)

(73) Assignee: **Google LLC**, Mountain View, CA (US)
(**) Term: **15 Years**
(21) Appl. No.: **29/678,915**
(22) Filed: **Jan. 31, 2019**

OTHER PUBLICATIONS

International Search Report and Written Opinion for Application No. PCT/US2014/043804 dated Sep. 24, 2014.
(Continued)

Primary Examiner — Paula Allen Greene
(74) *Attorney, Agent, or Firm* — Lerner, David, Littenberg, Krumholz & Mentlik, LLP

Related U.S. Application Data

(62) Division of application No. 29/612,920, filed on Aug. 4, 2017, now Pat. No. Des. 844,586.

(51) **LOC (12) Cl.** **14-01**
(52) **U.S. Cl.**
USPC **D14/205; D14/217**

(57) **CLAIM**

The ornamental design for an audio assembly, as shown and described.

(58) **Field of Classification Search**
USPC ... D14/205, 223, 217, 218, 433, 480.5, 372; D10/78; D13/133, 168, 184; D21/333; 455/90.3, 575.1, 569.1; 381/380, 381, 381/374
CPC H04R 1/10; H04R 25/00; H04R 1/1041; H04R 1/1058; H04R 1/1066; H04R 1/1016; H04R 1/1091
See application file for complete search history.

DESCRIPTION

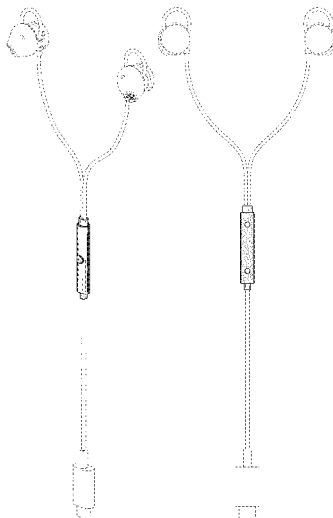
FIG. 1 is a front perspective view of an audio assembly according to our design;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a right side elevation view thereof;
FIG. 5 is a left side elevation view thereof;
FIG. 6 is a top elevation view thereof; and,
FIG. 7 is a bottom elevation view thereof.
Broken lines are environmental only and form no part of the claimed design. The portions shown in a pattern of stipple illustrate areas of contrasting appearance. The stippling of the circular button has a different appearance than the stippling of the elongated rectangular region.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,668,890 A 5/1928 Curran et al.
1,668,910 A 5/1928 Jones
1,953,437 A 4/1934 Schier
D102,655 S 1/1937 Nicholides
2,120,469 A * 6/1938 Kyle H01R 4/52
439/787

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2,971,065	A	2/1961	Busse	D587,681	S	3/2009	Yanai	
3,034,320	A	5/1962	Feibelman	D589,028	S *	3/2009	Haapapuro	D14/206
3,049,582	A	8/1962	Shinn	D591,264	S	4/2009	Hong et al.	
3,324,253	A	6/1967	Uemura et al.	7,551,748	B2	6/2009	Kamo et al.	
3,344,393	A *	9/1967	Hendee	D596,561	S	7/2009	Chon et al.	
		 H02G 15/08	D599,785	S	9/2009	Matsuda et al.	
			439/369	D602,004	S	10/2009	Matsuoka	
3,440,365	A	4/1969	Bryant et al.	D602,064	S	10/2009	Mitsui et al.	
D220,723	S *	5/1971	Abbo	D603,380	S	11/2009	Hutchieson	
3,712,409	A	1/1973	Kizakis et al.	D604,501	S	11/2009	Lee	
3,789,164	A	1/1974	Ryder	D606,971	S	12/2009	Christopher et al.	
4,133,984	A	1/1979	Akiyama	D612,595	S	3/2010	McCurdy	
4,457,396	A	7/1984	James	D614,108	S *	4/2010	Varga	D12/211
D280,280	S	8/1985	Pestone	D614,166	S *	4/2010	Brickstad	D14/205
D281,033	S	10/1985	Mohri	D614,168	S	4/2010	Rogers et al.	
D287,764	S	1/1987	Topholm	D618,211	S	6/2010	Oguro et al.	
D287,765	S	1/1987	Topholm	D620,256	S	7/2010	Fujimura et al.	
4,669,129	A	6/1987	Chance	D620,257	S	7/2010	Fujimura et al.	
D299,344	S	1/1989	Stevens	D620,482	S	7/2010	Chen	
D318,670	S *	7/1991	Taniguchi	D621,389	S	8/2010	Nagayama et al.	
5,036,681	A	8/1991	Schaerer	D622,265	S	8/2010	Rye	
5,054,079	A	10/1991	Frielingsdorf et al.	D624,902	S	10/2010	Koltun	
D326,655	S	6/1992	Iribe	D627,764	S	11/2010	Tsai et al.	
D344,524	S	2/1994	Taniguchi	7,930,007	B2	4/2011	Andreasson	
5,345,509	A	9/1994	Hofer et al.	D637,585	S	5/2011	Nagayama et al.	
5,606,743	A	2/1997	Vogt et al.	D637,998	S	5/2011	Brunner et al.	
5,654,530	A	8/1997	Sauer et al.	D639,282	S	6/2011	Ohuri et al.	
5,655,026	A	8/1997	Peters et al.	D641,009	S	7/2011	Olodort et al.	
D392,979	S *	3/1998	Inukai	D642,163	S	7/2011	Lee et al.	
D396,860	S *	8/1998	Yasutomi	D643,405	S	8/2011	Rath	
5,880,773	A	3/1999	Suzuki	D643,414	S	8/2011	Lee et al.	
5,887,720	A	3/1999	Lin	D644,625	S *	9/2011	Iseki	D14/206
D408,821	S *	4/1999	Takahashi	D648,217	S	11/2011	Fahey et al.	
6,122,369	A	9/2000	Hwang et al.	D648,316	S	11/2011	Lee et al.	
6,122,388	A	9/2000	Feldman	8,073,181	B2	12/2011	Bakalos et al.	
D435,036	S	12/2000	Koss et al.	D652,817	S	1/2012	Lee et al.	
D436,960	S	1/2001	Budd et al.	D654,056	S	2/2012	Hoggarth et al.	
D446,499	S *	8/2001	Andre	D654,866	S	2/2012	Rautiainen	
D448,361	S *	9/2001	Bergfeldt	D658,157	S	4/2012	McManigal	
D462,945	S *	9/2002	Skulley	D659,991	S	5/2012	Long, Jr. et al.	
D469,755	S	2/2003	Hlas et al.	D660,290	S	5/2012	Weedon	
D470,122	S	2/2003	Hlas et al.	8,174,569	B2	5/2012	Tanijiri et al.	
D470,123	S	2/2003	Hlas et al.	8,175,315	B2	5/2012	Tanaka et al.	
D470,833	S	2/2003	Rath et al.	D662,079	S	6/2012	Fahrendorff et al.	
6,616,080	B1	9/2003	Edwards et al.	D663,715	S	7/2012	Glezerman et al.	
D481,709	S	11/2003	Solderits	8,218,808	B2	7/2012	Xu	
6,690,807	B1	2/2004	Meyer	8,229,154	B2	7/2012	Ito	
6,729,726	B2	5/2004	Miller et al.	8,249,286	B2	8/2012	Nault	
D499,086	S *	11/2004	Polito	D666,581	S	9/2012	Perez	
6,868,164	B2	3/2005	Ito et al.	8,265,325	B2	9/2012	Park	
D505,132	S	5/2005	Linville et al.	8,275,166	B2	9/2012	Wu	
D505,411	S	5/2005	Sakai	D674,373	S	1/2013	Combs et al.	
6,950,531	B2	9/2005	Rickards	8,345,913	B2	1/2013	Pang et al.	
D511,157	S *	11/2005	Johnson	D678,242	S	3/2013	Von Euler	
6,975,644	B2	12/2005	Tordera et al.	8,406,448	B2	3/2013	Lin et al.	
6,978,034	B2	12/2005	Lazzeroni et al.	D681,001	S *	4/2013	Murchison	D14/205
D514,551	S	2/2006	Lee et al.	8,442,257	B2	5/2013	Aase et al.	
D514,552	S	2/2006	Lee et al.	8,447,062	B2	5/2013	Lin	
D519,108	S	4/2006	Yang	8,456,864	B2	6/2013	Stiehl et al.	
D521,493	S	5/2006	Wai	D685,750	S	7/2013	Nakagawa	
D521,927	S	5/2006	Franck et al.	D685,761	S	7/2013	Fletcher et al.	
D529,901	S	10/2006	Ohta	D685,764	S	7/2013	Coulter	
D531,169	S	10/2006	Tokioka et al.	D687,410	S	8/2013	Fletcher et al.	
7,182,820	B2	2/2007	Campbell et al.	D692,408	S	10/2013	Dugger et al.	
D539,268	S	3/2007	Suzuki	D692,409	S	10/2013	Takeno	
D541,228	S	4/2007	Thursfield	D693,326	S	11/2013	Takeno	
D558,735	S *	1/2008	Carr	D697,962	S	1/2014	Olsson	
D560,311	S	1/2008	Li et al.	D698,026	S	1/2014	Kuwata et al.	
D564,971	S *	3/2008	Victor	D698,750	S *	2/2014	Yoon	D14/205
D569,841	S *	5/2008	Chung	D698,760	S	2/2014	Lee et al.	
D573,978	S	7/2008	Ledbetter et al.	D698,762	S	2/2014	Zheng et al.	
D578,507	S	10/2008	Ando	D699,226	S	2/2014	Yoon	
D579,006	S	10/2008	Kim et al.	D700,167	S	2/2014	Hardi	
D582,389	S	12/2008	Bose et al.	8,655,006	B2	2/2014	Aase et al.	
7,461,936	B2	12/2008	Jannard	D703,634	S	4/2014	Han	
D584,284	S	1/2009	Carr et al.	8,712,087	B2	4/2014	Ozawa	
				D707,206	S	6/2014	Akana et al.	
				8,755,555	B2	6/2014	Dougherty et al.	
				8,776,801	B2	7/2014	McIntosh	

(56)

References Cited

U.S. PATENT DOCUMENTS

D710,335 S 8/2014 Yang
 D711,356 S 8/2014 Yang
 D713,384 S 9/2014 McNamara
 D715,777 S 10/2014 Huang et al.
 D717,767 S 11/2014 Mistry et al.
 D718,273 S * 11/2014 Harata D14/205
 D718,286 S 11/2014 Yang
 8,891,798 B1 11/2014 Laffon de Mazieres et al.
 D718,745 S 12/2014 Thompson et al.
 D719,131 S 12/2014 Toelle et al.
 D719,132 S 12/2014 Toelle et al.
 D719,551 S 12/2014 Yang
 8,908,899 B1 12/2014 Yang
 D725,625 S 3/2015 Hsieh et al.
 D727,279 S 4/2015 Schaal et al.
 D727,871 S 4/2015 Orbach
 9,031,264 B2 5/2015 Yang
 D731,456 S 6/2015 Dahlberg
 D731,489 S * 6/2015 Langhammer D14/433
 D731,793 S 6/2015 Houghton et al.
 D732,511 S 6/2015 Masters
 D736,185 S 8/2015 Yaegashi et al.
 D736,251 S 8/2015 Kim
 D737,251 S 8/2015 Thompson et al.
 D740,653 S 10/2015 Akana et al.
 D740,692 S 10/2015 Christie et al.
 D742,070 S 10/2015 Park
 D742,355 S 11/2015 Toelle et al.
 D742,356 S 11/2015 Toelle et al.
 D743,370 S 11/2015 Toelle et al.
 D743,932 S 11/2015 Toelle et al.
 D744,855 S 12/2015 Akana et al.
 D746,792 S 1/2016 Kim
 9,241,209 B2 1/2016 Toelle et al.
 D759,003 S * 6/2016 Daniel D14/240
 D774,760 S 12/2016 Martinetti
 D776,083 S 1/2017 Lee et al.
 D777,100 S 1/2017 Price
 D777,139 S 1/2017 Fletcher et al.
 D777,710 S 1/2017 Palmberg et al.
 D780,155 S 2/2017 Levine et al.
 D780,157 S 2/2017 Uggl
 D781,269 S 3/2017 Choe et al.
 D781,821 S 3/2017 Petersen
 D782,442 S * 3/2017 Chen D14/205
 D782,998 S 4/2017 Shin et al.
 D785,594 S * 5/2017 Zaihui D14/205
 D793,995 S * 8/2017 Nakagawa D14/218
 D796,475 S 9/2017 Wang et al.
 D813,849 S 3/2018 Andreen
 9,924,010 B2 3/2018 Watson et al.
 D816,994 S 5/2018 Fischer et al.
 9,980,032 B2 * 5/2018 Yajima H04R 1/1033
 D820,809 S 6/2018 Akana et al.
 D820,810 S 6/2018 Levine et al.
 D822,636 S 7/2018 Liu
 D839,237 S * 1/2019 Mei D14/205
 10,194,229 B2 1/2019 Toelle et al.
 D840,372 S 2/2019 Carr
 D844,586 S * 4/2019 Sweet D14/205
 D845,926 S 4/2019 Aoyagi et al.
 D849,714 S 5/2019 Shin et al.
 D859,357 S 9/2019 Lin et al.
 D859,358 S 9/2019 Wang et al.
 D874,427 S * 2/2020 Davis D14/205
 D881,841 S * 4/2020 Ying D14/205
 2004/0113867 A1 6/2004 Tomine et al.
 2004/0125977 A1 7/2004 Hong et al.
 2004/0204177 A1 * 10/2004 Pon H04B 1/3883
 455/573
 2005/0202727 A1 * 9/2005 Andre H01R 13/26
 439/660
 2006/0008106 A1 1/2006 Harper
 2006/0203998 A1 9/2006 Ben-Arie
 2006/0281502 A1 12/2006 Chang et al.

2006/0285715 A1 12/2006 Drambarean et al.
 2007/0064967 A1 3/2007 Feeley et al.
 2007/0098201 A1 5/2007 Chen
 2007/0201000 A1 8/2007 Jackson et al.
 2007/0272686 A1 11/2007 Yu
 2008/0101633 A1 5/2008 Ledbetter et al.
 2008/0106693 A1 5/2008 Wang
 2008/0123893 A1 5/2008 Lee
 2008/0159579 A1 7/2008 Park
 2008/0317274 A1 12/2008 Kim
 2009/0033574 A1 2/2009 Hung
 2009/0268935 A1 10/2009 Dillinger
 2009/0304220 A1 12/2009 Fujikura et al.
 2009/0323975 A1 12/2009 Groesch
 2010/0045928 A1 2/2010 Levy
 2010/0104126 A1 4/2010 Greene
 2011/0012814 A1 1/2011 Tanaka
 2011/0044487 A1 2/2011 Nault
 2011/0216932 A1 9/2011 Wu
 2011/0249856 A1 10/2011 Takei
 2011/0255723 A1 10/2011 Obradovic et al.
 2012/0020501 A1 1/2012 Lee
 2012/0087510 A1 4/2012 Sampimon et al.
 2013/0077815 A1 3/2013 Stephenson
 2013/0127980 A1 5/2013 Haddick et al.
 2013/0272560 A1 10/2013 Dougherty et al.
 2013/0315431 A1 11/2013 Grinker et al.
 2014/0068944 A1 3/2014 Aase et al.
 2014/0079275 A1 3/2014 Minarik et al.
 2014/0138150 A1 5/2014 Huang
 2014/0140562 A1 5/2014 Huang
 2015/0023542 A1 1/2015 Shimizu
 2016/0037248 A1 2/2016 Cheng
 2016/0142808 A1 5/2016 Monahan et al.
 2016/0261946 A1 * 9/2016 Chen H04R 1/1091
 2016/0269818 A1 9/2016 MacKay
 2017/0094389 A1 3/2017 Saulsbury et al.
 2017/0164087 A1 6/2017 Kurtz
 2017/0311105 A1 10/2017 Hariharan et al.
 2018/0160208 A1 6/2018 Lee

FOREIGN PATENT DOCUMENTS

CN 3490589 12/2005
 CN 1788523 A 6/2006
 CN 1893731 A 1/2007
 CN 301751068 12/2011
 CN 302020226 8/2012
 CN 302091993 9/2012
 CN 102918443 A 2/2013
 CN 302569316 9/2013
 CN 302650378 11/2013
 CN 302924109 S 8/2014
 CN 302937163 S 9/2014
 CN 303041874 S 12/2014
 CN 303113723 2/2015
 CN 303133872 3/2015
 CN 303634608 S 4/2016
 CN 303691269 S 6/2016
 CN 303815854 S 8/2016
 IN 300021-0001 * 12/2017
 JP 2005318112 A 11/2005
 JP 2007013873 A 1/2007
 JP 1509978 S 10/2017
 JP 1509979 S 10/2017
 JP 1516490 S 1/2018
 JP 1516491 S 1/2018
 KR 30-0844726 3/2016
 WO 2011077160 A1 6/2011
 WO D088186008 3/2016
 WO DM/088710 A1 6/2016

OTHER PUBLICATIONS

Notification of the First Office Action for Chinese Patent Application No. 201480036676.4, dated Oct. 8, 2016.
 Nokia Luna Bluetooth Headset With Wireless Charging BH-220p (Cyan). [retrieved on Jul. 24, 2015]. Retrieved from the Internet:

(56)

References Cited

OTHER PUBLICATIONS

<URL: <<http://shopping.indiatimes.com/mobiles/bluetooth-headset/nokia-luna-bluetooth-headset-with-wireless-charging-bh-220p-cyan-/10011/p>> B1420619 (undated) 1 page. Product publicly available prior to Jun. 25, 2015.

Earin, "The World's Smallest Wireless Earbuds", [retrieved on Jul. 24, 2015]. Retrieved from the Internet: <URL: <<http://www.earin.com/>>> (undated) 1 page. Product publicly available prior to Jun. 29, 2015.

Wanstonic Electronics Ltd. ER-III. High-Res Audio Earphone. p. 6, cited in Notice of Allowance for Japanese Design Patent Application No. 2017-027492, dated Aug. 17, 2018.

Notice of Allowance for Japanese Design Patent Application No. 2017-027492, dated Aug. 17, 2018.

Notice of Allowance for Japanese Design Patent Application No. 2017-027182, dated Aug. 21, 2018. 3 pages.

Notice of Allowance for Japanese Design Patent Application No. 2017-027181, dated Aug. 21, 2018. 3 pages.

Headphones for Digital 2006 Summer. OMX 90 VC and LX 90. Autumn, p. 7. Cited in Notice of Allowance dated Oct. 30, 2018 for Japanese Design Patent Application No. 2018-013966.

Notice of Allowance for Japanese Design Patent Application No. 2018-013966, dated Oct. 30, 2018. 3 pages.

Notice of Allowance for Japanese Design Patent Application No. 2018-011899, dated Oct. 26, 2018.

Notice of Allowance for Japanese Design Patent Application No. 2018-011886, dated Oct. 26, 2018.

Office Action for Japanese Design Patent Application No. 2018-014315, dated Oct. 30, 2018.

Office Action for Japanese Design Patent Application No. 2018-014316, dated Oct. 30, 2018.

Office Action for Japanese Design Patent Application No. 2018-014317, dated Oct. 30, 2018.

Office Action for Japanese Design Patent Application No. 2018-014318, dated Oct. 30, 2018.

Office Action for Japanese Design Patent Application No. 2018-014319, dated Oct. 30, 2018.

Office Action for Chinese Patent Application No. 201710555456.8, dated Nov. 26, 2018.

"MRTech S500 Bluetooth Wireless Earphones Headphone with Mic", Published Oct. 15, 2017, Retrieved from the Internet on Feb. 7, 2019, <https://www.amazon.com/MRtech-Bluetooth-Earphones-Sweat-proof/dp/B075TQPZZT>, 8 pages.

"Pugz—World's Smallest Wireless Earbuds Charged Through Phone", Published Sep. 6, 2015, Retrieved from the Internet on Feb. 7, 2019, <https://web.archive.org/web/20150906075350/https://www.kickstarter.com/projects/pugz/pugz-worlds-smallest-wireless-earbuds-you-charge-w>, 21 pages.

"S500", Published 2019, Retrieved from the Internet on Feb. 7, 2019, <https://www.walmart.com/ip/IPhone-7-7-Plus-Bluetooth-Earbuds-Ultra-Lightweight-4-1-Wireless-In-Ear-Running-Earbuds-IPX4-Water-Resistant-Mic-Stereo-Earphones-CVC-6-0-Noise-Cance/255045428>, 4 pages.

"Xrmai Bluetooth Headphones", Published Feb. 10, 2018, Retrieved from the Internet on Feb. 7, 2019, <https://www.amazon.com/Xrmai-Headphones-Waterproof-Sweatproof-Cancelling/dp/B071DV3JBH>, 5 pages.

Act Corporation, ERP-63, Bubble Earphone. First Brand Awards 2019. Cited in Notice of Allowance dated Mar. 29, 2019, for Japanese Design Patent Application No. 2018-011901. 12 pages. Retrieved from the Internet: <http://www.acto.com/shop/product_detail.asp?cate=sound&code=ERP-63>.

Harman International Co Ltd. Mar. 2015. Cited in Notice of Allowance dated Mar. 29, 2019 for Japanese Patent Application No. 2018-011901. 5 pages.

* cited by examiner

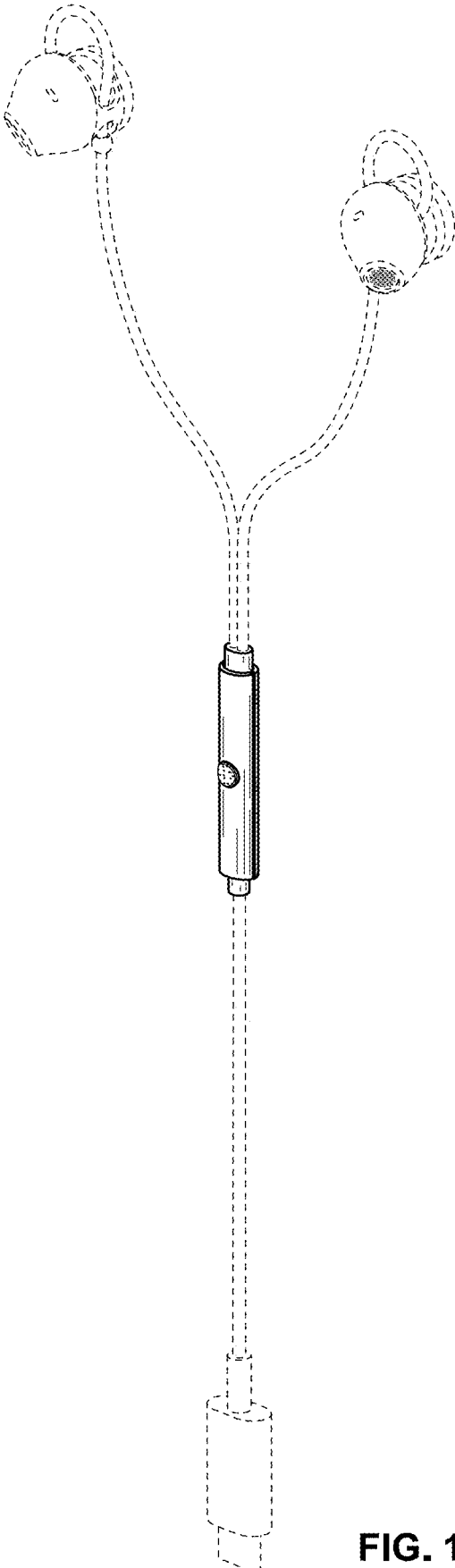


FIG. 1

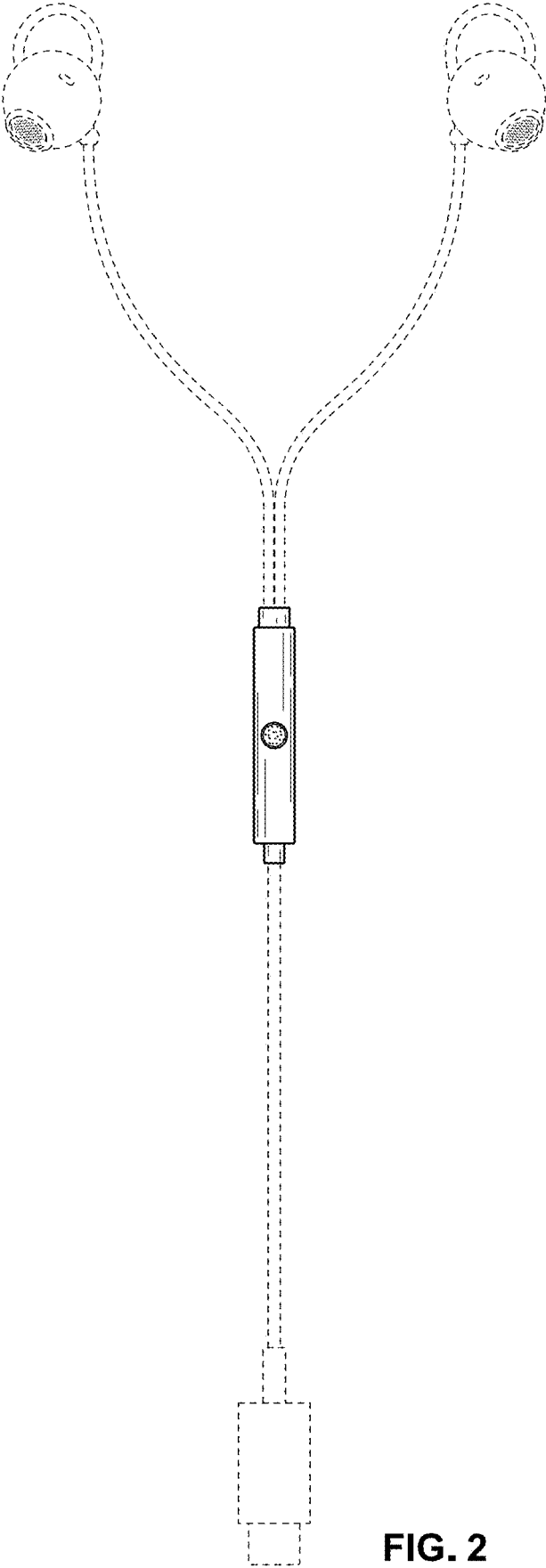


FIG. 2

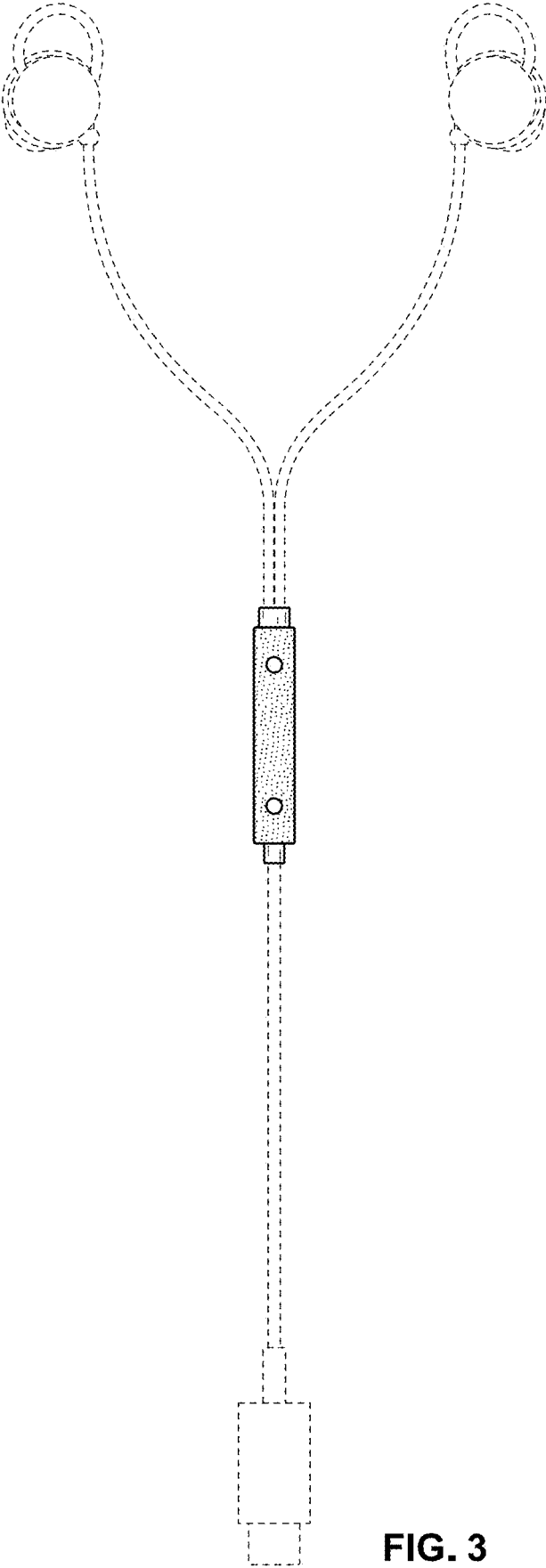


FIG. 3

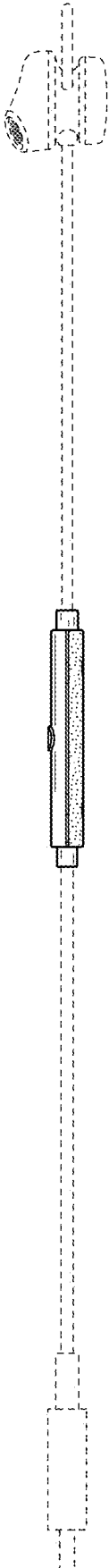


FIG. 4

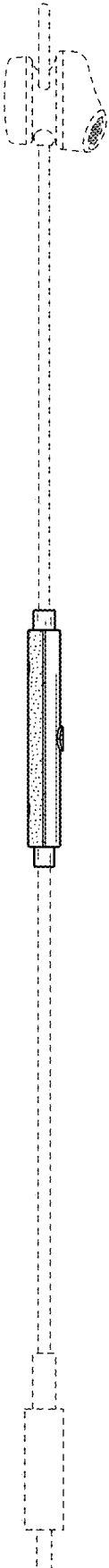


FIG. 5

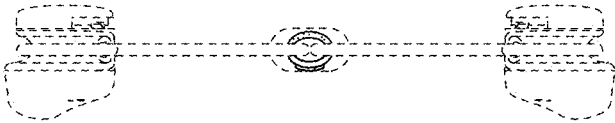


FIG. 6

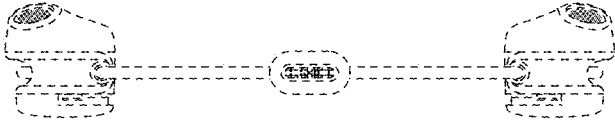


FIG. 7