



US00D977460S

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

(10) **Patent No.:** **US D977,460 S**  
(45) **Date of Patent:** **\*\* Feb. 7, 2023**

(54) **PAIR OF EARPHONES**

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

(72) Inventors: **Jody Akana**, Los Altos Hills, CA (US); **Molly Anderson**, San Francisco, CA (US); **Bartley K. Andre**, Palo Alto, CA (US); **Shota Aoyagi**, San Francisco, CA (US); **Anthony Michael Ashcroft**, San Francisco, CA (US); **Marine C. Bataille**, San Francisco, CA (US); **Jeremy Bataillou**, San Francisco, CA (US); **Abidur Rahman Chowdhury**, San Francisco, CA (US); **Markus Diebel**, San Francisco, CA (US); **M. Evans Hankey**, San Francisco, CA (US); **Julian Hoenig**, San Francisco, CA (US); **Richard P. Howarth**, San Francisco, CA (US); **Jonathan P. Ive**, San Francisco, CA (US); **Julian Jaede**, San Francisco, CA (US); **Duncan Robert Kerr**, San Francisco, CA (US); **Peter Russell-Clarke**, San Francisco, CA (US); **Benjamin Andrew Shaffer**, San Jose, CA (US); **Sung-Ho Tan**, Vienna (AT); **Clement Tissandier**, San Francisco, CA (US); **Eugene Antony Whang**, San Francisco, CA (US); **Rico Zörkendörfer**, San Francisco, CA (US)

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

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

(21) Appl. No.: **29/850,637**

(22) Filed: **Aug. 22, 2022**

**Related U.S. Application Data**

(63) Continuation of application No. 29/804,821, filed on Aug. 23, 2021, now Pat. No. Des. 961,557, which is a continuation of application No. 29/764,724, filed on Dec. 31, 2020, now Pat. No. Des. 928,745, which is a continuation of application No. 29/741,273, filed on

Jul. 10, 2020, now Pat. No. Des. 907,010, which is a continuation of application No. 29/705,727, filed on Sep. 13, 2019, now Pat. No. Des. 906,297, and a continuation of application No. 29/741,272, filed on Jul. 10, 2020, now Pat. No. Des. 929,374, which is a continuation of application No. 29/705,727, filed on Sep. 13, 2019, now Pat. No. Des. 906,297, and a continuation of application No. 29/741,274, filed on Jul. 10, 2020, now Pat. No. Des. 928,743, which is a continuation of application No. 29/705,727, filed on Sep. 13, 2019, now Pat. No. Des. 906,297.

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

(52) **U.S. Cl.**  
USPC ..... **D14/223**

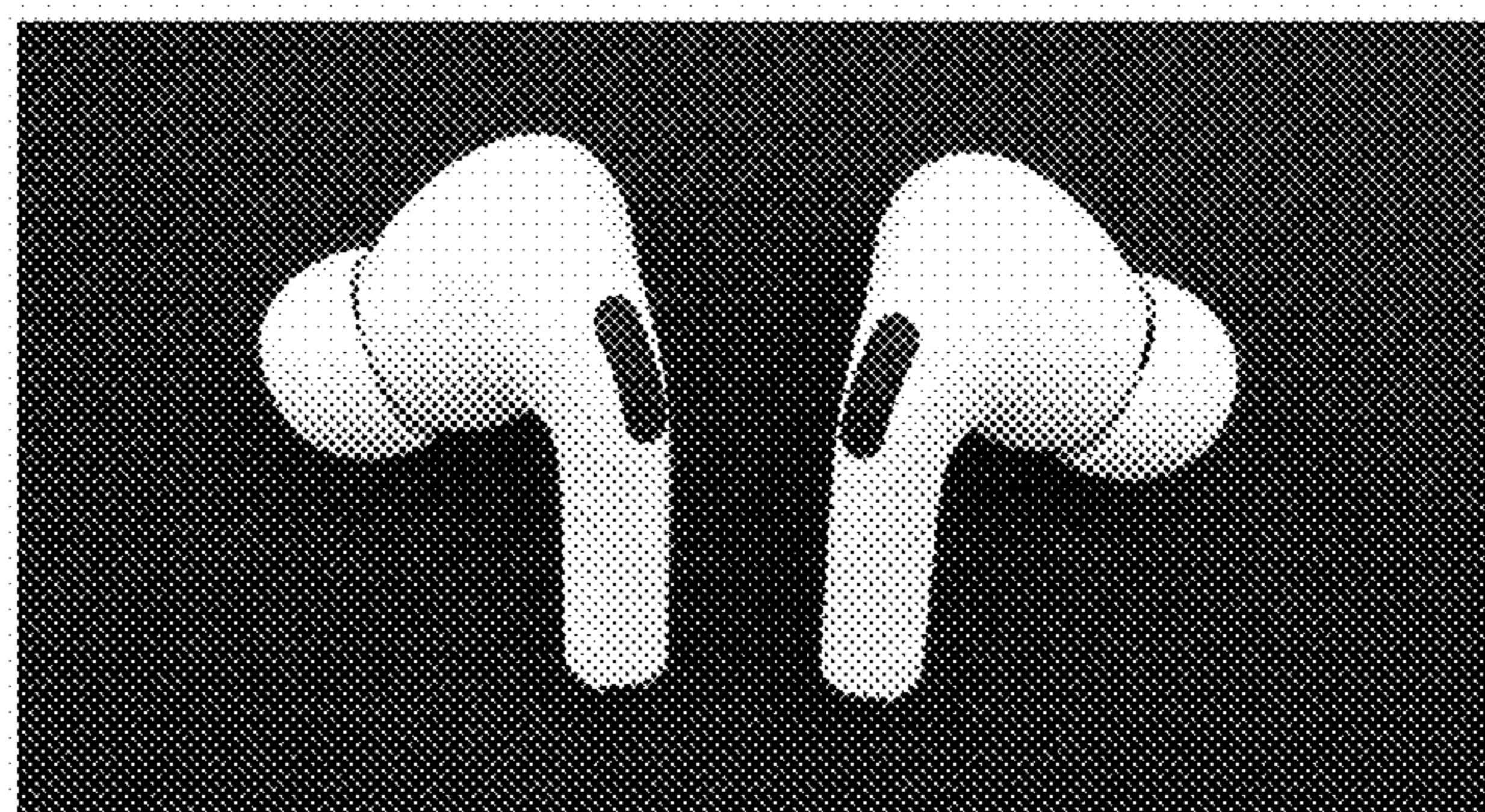
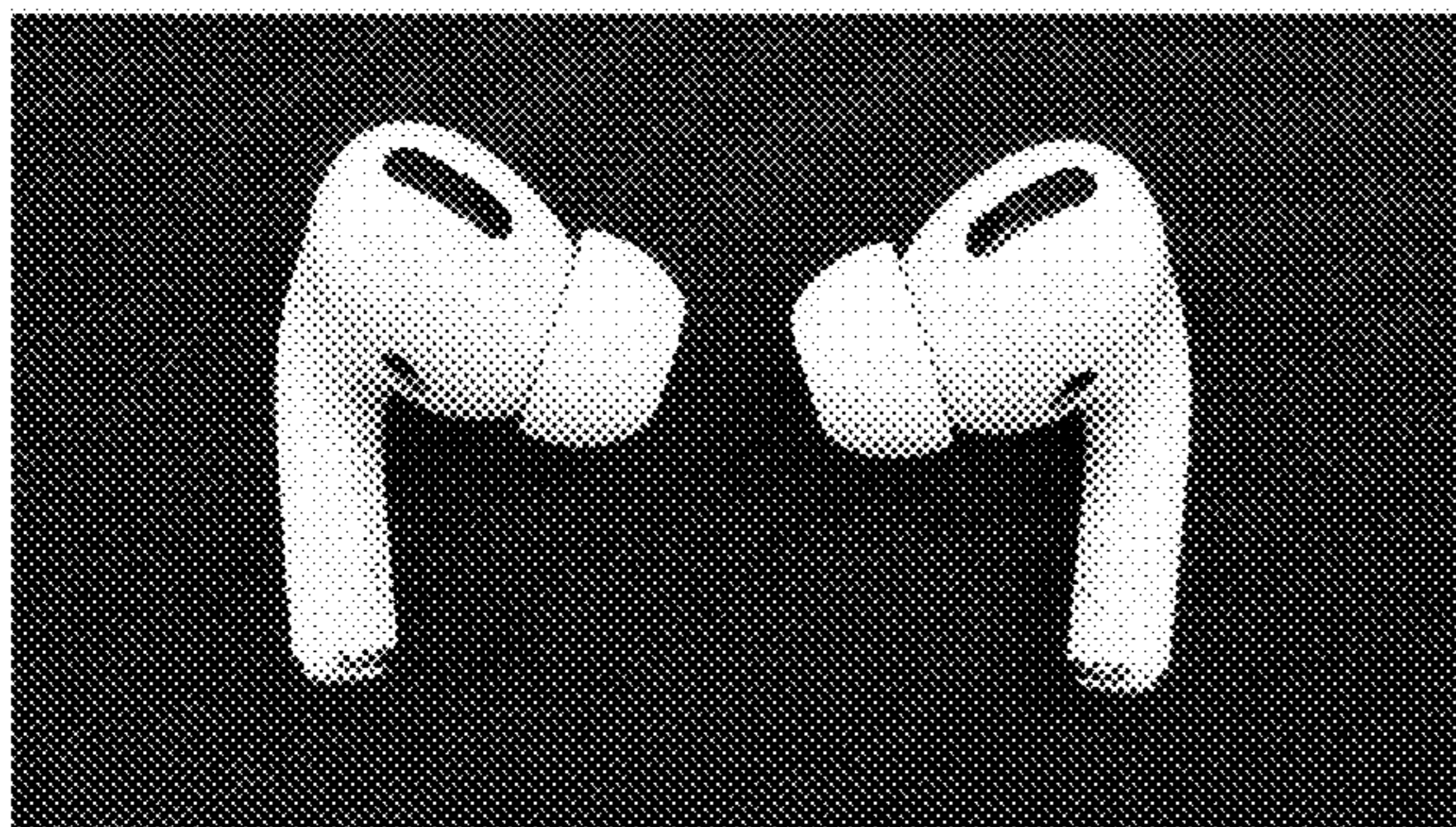
(58) **Field of Classification Search**  
USPC ..... D14/223, 205; D24/174; 128/864-866;  
381/380-381

CPC ..... H04R 1/10; H04R 25/00; H04R 1/1016;  
H04R 1/1066; H04R 5/033; H04R  
5/0335; H04R 1/105; H04R 1/1091  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,148,477 A	2/1939	Koch
2,595,489 A	5/1952	Rutter et al.
3,368,644 A	2/1968	Henderson
3,459,902 A	8/1969	Warning et al.
3,588,384 A	6/1971	Negley et al.
3,781,492 A	12/1973	Cragg et al.
4,532,649 A	7/1985	Bellafiore
4,672,672 A	6/1987	Eggert et al.
4,677,675 A	6/1987	Killion et al.
4,736,430 A	4/1988	Schroder
4,742,887 A	5/1988	Yamagishi et al.
D296,435 S	6/1988	Kubota
4,889,303 A	12/1989	Wolf et al.
4,893,344 A	1/1990	Tragardh et al.
4,965,838 A	10/1990	Kamon et al.
4,972,492 A	11/1990	Tanaka et al.
D316,550 S	4/1991	Sogabe
D331,057 S	11/1992	Isonaga
D331,061 S	11/1992	Hyohgo
D337,118 S	7/1993	Seikita
D337,589 S	7/1993	Wada
D344,800 S	3/1994	Lamby



# US D977,460 S

D353,379 S	12/1994	Nakamura et al.	8,965,030 B2 *	2/2015	Aase .....	H04R 1/1016
5,420,935 A	5/1995	Shinohara et al.				381/370
D410,079 S	5/1999	Falco et al.	D728,533 S	5/2015	Poulsen et al.	
6,122,369 A	9/2000	Hwang et al.	D732,007 S	6/2015	Oksman et al.	
D463,789 S	10/2002	DeKalb et al.	D732,008 S *	6/2015	Akana .....	H04R 1/1016
D469,753 S	2/2003	Andre et al.				D14/223
6,574,345 B1	6/2003	Huang	D733,101 S	6/2015	Pi et al.	
D479,837 S	9/2003	Sundquist et al.	D733,689 S	7/2015	Narita	
6,690,807 B1	2/2004	Meyer	D738,864 S	9/2015	Lee	
D488,460 S	4/2004	Alwicker et al.	D741,287 S	10/2015	Harata et al.	
6,731,772 B1	5/2004	Byun	D747,295 S	1/2016	Eastwood et al.	
D499,397 S	12/2004	Hlas et al.	D755,759 S	5/2016	Cai	
D505,132 S	5/2005	Linville et al.	D757,682 S	5/2016	Perez	
D506,744 S *	6/2005	Andre .....	D770,412 S	11/2016	Son	
D515,070 S *	2/2006	Andre .....	D780,153 S	2/2017	Lukic et al.	
D518,008 S	3/2006	Peng	D781,268 S	3/2017	Magi et al.	
D523,846 S	6/2006	Lee	D798,844 S	10/2017	Nokuo et al.	
D533,868 S	12/2006	Koizumi	D801,314 S *	10/2017	Akana .....	D14/223
D540,313 S	4/2007	Rausch et al.	9,961,431 B2	5/2018	McPeak et al.	
D554,109 S	10/2007	Ledbetter et al.	D820,809 S	6/2018	Akana et al.	
D557,689 S	12/2007	Huang	10,003,880 B2 *	6/2018	Wagman .....	H04R 1/2826
D566,687 S	4/2008	Duarte et al.	D823,835 S	7/2018	Loermann et al.	
D568,291 S *	5/2008	Andre .....	D828,823 S	9/2018	Lin et al.	
D573,977 S	7/2008	Ledbetter et al.	D830,345 S	10/2018	Cai et al.	
D575,269 S	8/2008	Ledbetter et al.	D844,588 S *	4/2019	Brunner .....	D14/223
D578,518 S	10/2008	Ewert	D847,125 S *	4/2019	Akana .....	D14/206
D579,923 S *	11/2008	Andre .....	D847,780 S *	5/2019	Brunner .....	H04R 25/00
D587,677 S *	3/2009	Andre .....				D14/223
D589,028 S	3/2009	Haapapuro et al.	D849,401 S *	5/2019	Akana .....	D3/274
D589,491 S *	3/2009	Andre .....	D862,424 S	10/2019	You	
D589,498 S	3/2009	Komiyama	D865,720 S *	11/2019	Deng .....	D14/223
D590,375 S	4/2009	Komiyama	D869,445 S *	12/2019	Hu .....	D14/223
D593,537 S	6/2009	Arimoto	RE47,915 E	3/2020	Akana et al.	
D596,616 S *	7/2009	Andre .....	D883,260 S *	5/2020	Hu .....	D14/223
D599,330 S *	9/2009	Andre .....	D895,582 S *	9/2020	Wu .....	D14/223
D601,134 S	9/2009	Elabidi et al.	D896,206 S *	9/2020	Xu .....	D14/223
D616,874 S	6/2010	Matsuoka	D896,788 S *	9/2020	Akana .....	D14/223
D618,209 S *	6/2010	Andre .....	D897,788 S	10/2020	Wang	
D618,210 S *	6/2010	Andre .....	D897,997 S *	10/2020	Zhang .....	D14/223
D618,219 S	6/2010	Burgett et al.	D897,998 S *	10/2020	Ma .....	D14/223
D620,482 S	7/2010	Chen et al.	D904,351 S *	12/2020	Zhang .....	D14/223
D622,265 S	8/2010	Rye	D905,018 S *	12/2020	Zhu .....	D14/223
D626,948 S	11/2010	Nault	D905,019 S *	12/2020	Liu .....	D14/223
D627,766 S	11/2010	Arimoto	D906,297 S *	12/2020	Akana .....	D14/223
D628,193 S	11/2010	Zheng	D907,009 S *	1/2021	Akana .....	D14/223
D632,282 S	2/2011	Kitayama	D907,010 S *	1/2021	Akana .....	D14/223
D633,086 S	2/2011	Chen	D909,347 S *	2/2021	Akana .....	D14/223
D635,960 S	4/2011	Gondo et al.	D910,600 S *	2/2021	Zhang .....	D14/223
D639,279 S *	6/2011	Andre .....	D914,645 S *	3/2021	Akana .....	H04R 1/10
D641,738 S	7/2011	Perez				D14/223
D643,416 S	8/2011	Chong et al.	10,966,047 B1 *	3/2021	Tong .....	H04R 5/033
D652,823 S *	1/2012	Chen .....	D916,683 S *	4/2021	Yao .....	D14/223
			D921,615 S *	6/2021	Wu .....	D14/223
D656,481 S	3/2012	McManigal	D924,209 S *	7/2021	Wu .....	D14/223
D662,493 S *	6/2012	Chen .....	D928,743 S *	8/2021	Akana .....	D14/223
D662,495 S *	6/2012	Andre .....	D928,745 S *	8/2021	Akana .....	D14/223
D664,523 S	7/2012	Naitou	D929,374 S *	8/2021	Akana .....	D14/223
D666,580 S	9/2012	Lee et al.	D929,375 S *	8/2021	Akana .....	D14/223
D669,058 S	10/2012	Lee et al.	D929,377 S *	8/2021	Akana .....	H04R 1/10
D669,453 S	10/2012	Katsuraku et al.				D14/223
D674,781 S	1/2013	Sakata	D929,969 S *	9/2021	Ding .....	D3/274
D675,194 S *	1/2013	Andre .....	D929,972 S *	9/2021	Akana .....	D14/223
8,345,912 B2	1/2013	Akihiko et al.	D931,838 S *	9/2021	Deng .....	D14/223
D676,427 S	2/2013	Yang	D934,202 S *	10/2021	Liu .....	D14/223
8,391,533 B2	3/2013	Sim et al.	D936,637 S *	11/2021	Lai .....	D14/223
D681,015 S *	4/2013	Akana .....	D938,386 S *	12/2021	Park .....	D14/205
			D943,554 S *	2/2022	Zhang .....	D14/223
D687,418 S	8/2013	Godfrey	D952,609 S *	5/2022	Akana .....	D14/223
D687,419 S *	8/2013	Andre .....	D961,557 S *	8/2022	Akana .....	D14/223
8,515,116 B2	8/2013	Lee	2010/0246879 A1	9/2010	Siahaan et al.	
D691,594 S	10/2013	Akana et al.	2011/0051978 A1	3/2011	Chen	
D694,220 S	11/2013	Lee et al.	2012/0003937 A1	1/2012	Zhong	
D706,643 S	6/2014	Akana et al.	2012/0155692 A1 *	6/2012	Chen .....	H04R 1/1058
D707,206 S	6/2014	Akana et al.				381/380
D711,857 S	8/2014	Burgett et al.	2012/0237074 A1 *	9/2012	Aase .....	H04R 1/1058
8,800,712 B2	8/2014	Campbell et al.				29/858
D712,279 S	9/2014	Akana et al.	2013/0004011 A1 *	1/2013	Hayashida .....	H04R 1/345
D718,284 S	11/2014	Shibusawa				381/380
D718,285 S	11/2014	Shibusawa				

2013/0010998	A1 *	1/2013	Seo .....	H04R 1/1058 381/380
2013/0343593	A1 *	12/2013	Howes .....	H04R 1/10 381/380
2013/0343594	A1 *	12/2013	Howes .....	H04R 1/2849 381/380
2013/0343595	A1 *	12/2013	Zorkendorfer .....	H04R 1/10 381/380
2015/0382100	A1	12/2015	Azmi et al.	
2017/0026733	A1	1/2017	Armstrong	
2017/0164087	A1	6/2017	Kurtz	
2017/0201821	A1	7/2017	McAuliffe et al.	
2018/0077481	A1	3/2018	Kim	
2020/0068285	A1	2/2020	Dang et al.	
2020/0107098	A1	4/2020	DiFonzo et al.	
2020/0245049	A1	7/2020	Karayiannis et al.	
2020/0275182	A1	8/2020	Ettensberger	
2020/0282856	A1	9/2020	Samojeden et al.	

Japanese Patent Office Document HJ 21000610, dated Jul. 26, 2017.  
 Japanese Patent Office Document HJ 27054573, dated Jul. 26, 2017.  
 Philips SHE2650/37 In-Ear Earbuds with Twin Vents, ShoppingNexus.com, <http://www.shoppingnexus.com/electronics/pr/philips-she265037-in-ear-earbuds-with-twin-vents1.html>, dated Jan. 31, 2013, 1 page.

\* cited by examiner

*Primary Examiner* — Paula Allen Greene  
 (74) *Attorney, Agent, or Firm* — Sterne, Kessler, Goldstein & Fox P.L.L.C.

(57) **CLAIM**

The ornamental design for a pair of earphones, as shown and described.

FOREIGN PATENT DOCUMENTS

CN	301938367	5/2012
CN	302414771	4/2013
CN	302672007	12/2013
CN	303180712	4/2015
CN	303634602	4/2016
CN	303640496	4/2016
CN	303701471	6/2016
CN	306092375	* 10/2020
CN	306105491	* 10/2020
EM	007742713-0010	* 3/2020
GB	6085034	9/2019
JP	D1667777	* 8/2020
JP	D1667778	8/2020
JP	D1667780	8/2020
JP	D1667781	8/2020
JP	D1667782	8/2020

OTHER PUBLICATIONS

iBlink WLP3 Earbuds—100Hz-10kHz, Noise Isolation, 3.5mm Jack, LED Light (Pink), White, TigerDirect.com, [http://www.tigerdirect.com/applications/SearchTools/item-details.asp?EdpNo=3988300&csid=\\_61](http://www.tigerdirect.com/applications/SearchTools/item-details.asp?EdpNo=3988300&csid=_61), dated Jan. 31, 2013, 4 pages.

DESCRIPTION

FIG. 1 is a front perspective view of a pair of earphones showing the claimed design;  
 FIG. 2 is a rear perspective view thereof;  
 FIG. 3 is another rear perspective view thereof;  
 FIG. 4 is another rear perspective view thereof;  
 FIG. 5 is another rear perspective view thereof;  
 FIG. 6 is a bottom perspective view thereof  
 FIG. 7 is another bottom perspective view thereof;  
 FIG. 8 is a top perspective view thereof;  
 FIG. 9 is another top perspective view thereof; and,  
 FIG. 10 is a side perspective view thereof.

The background in the digital images forms no part of the claimed design.

The dot-dash broken lines in the figures and the faded areas within the dot-dash broken lines show portions of the pair of earphones that form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**



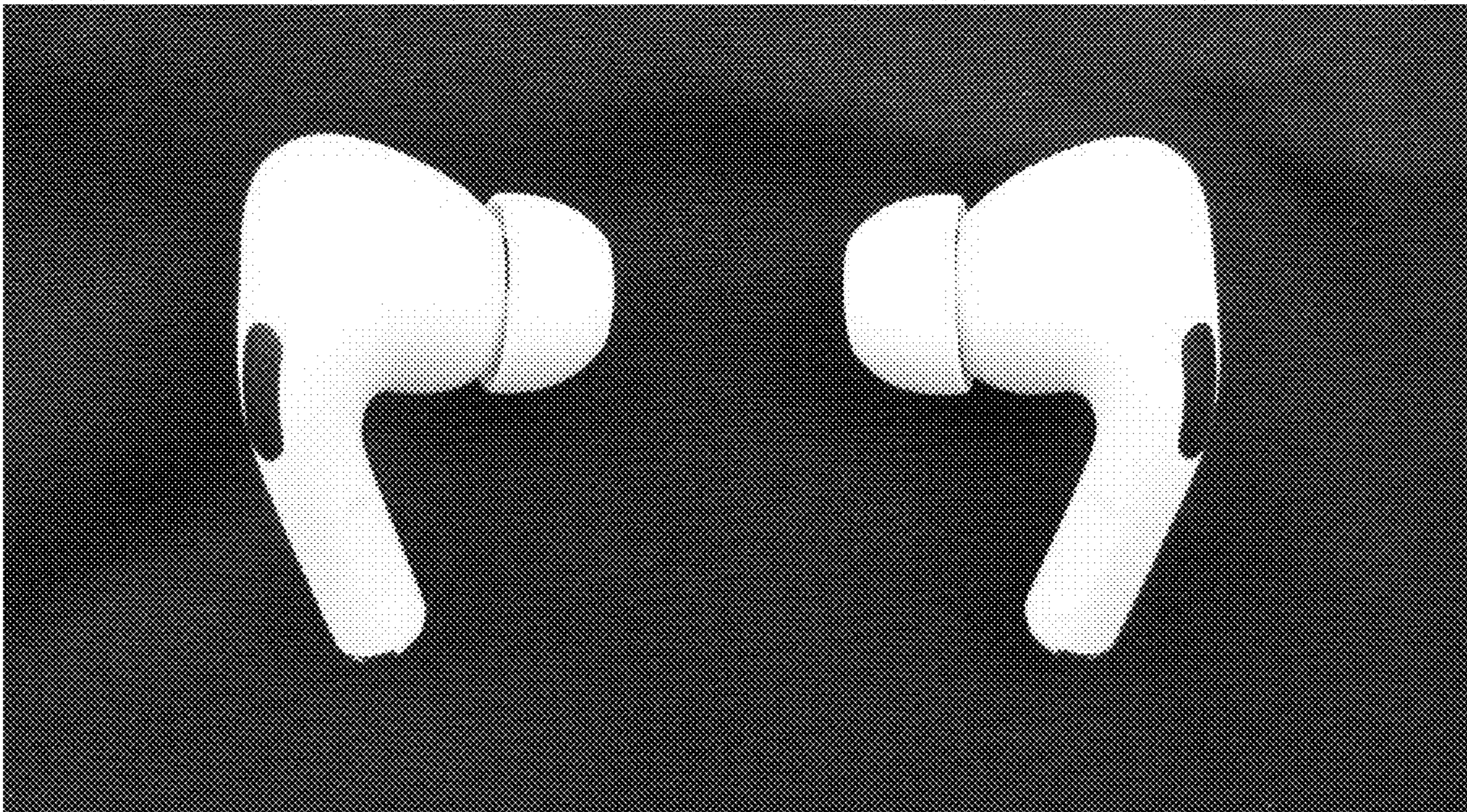
**FIG. 1**



**FIG. 2**



**FIG. 3**



**FIG. 4**



**FIG. 5**



**FIG. 6**



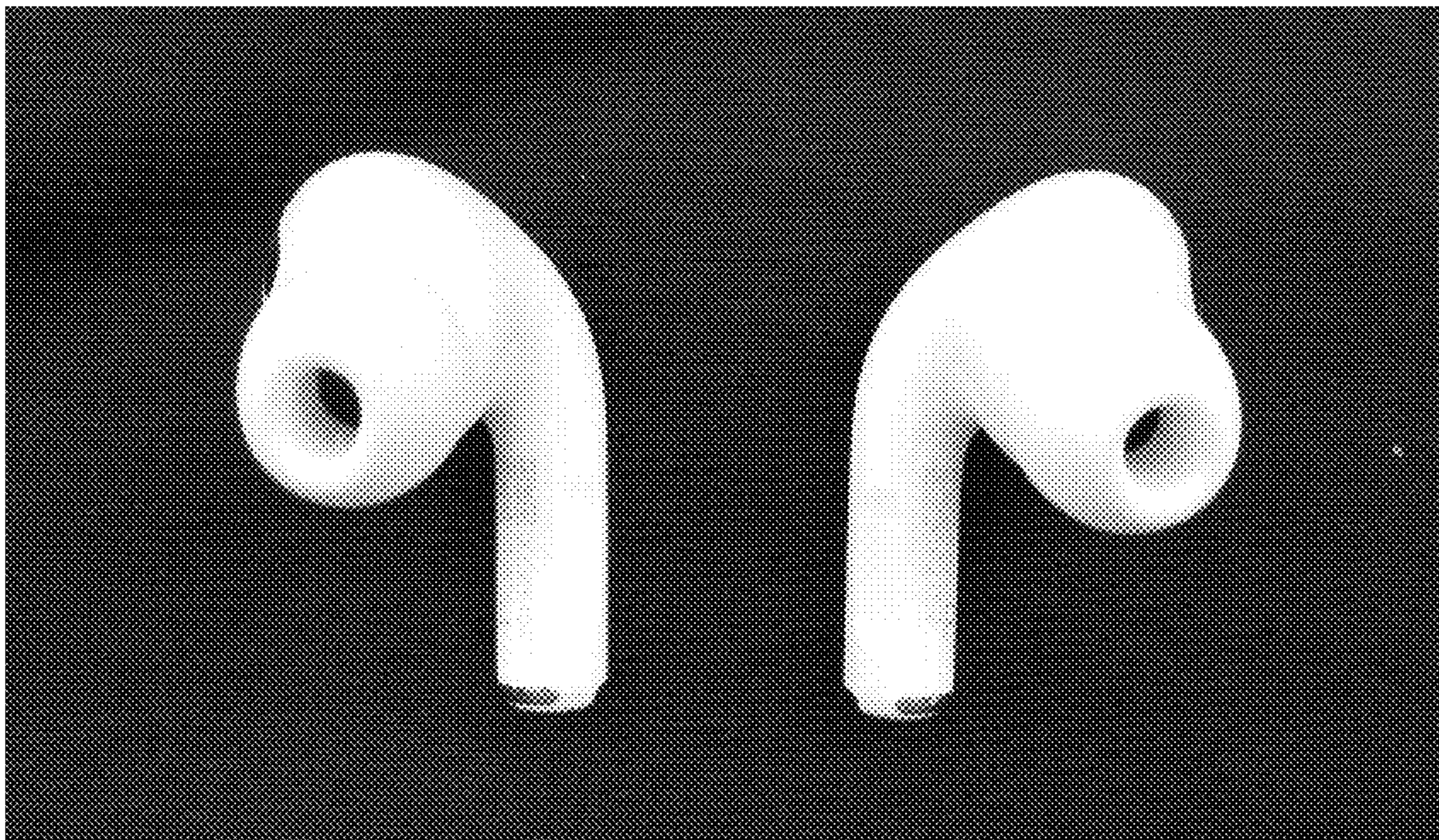
**FIG. 7**



**FIG. 8**



**FIG. 9**



**FIG. 10**



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

PATENT NO. : D977,460 S  
APPLICATION NO. : 29/850637  
DATED : February 7, 2023  
INVENTOR(S) : Akana et al.

Page 1 of 7

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

Delete the Title Page and substitute therefore with the attached Title Page consisting of the corrected illustrative figures.

In the Drawings

Replace FIGS. 1–10 with FIGS. 1–10 provided on the attached replacement sheets.

Signed and Sealed this  
Twenty-seventh Day of June, 2023



Katherine Kelly Vidal  
*Director of the United States Patent and Trademark Office*

(12) **United States Design Patent** (10) **Patent No.:** **US D977,460 S**  
**Akana et al.** (45) **Date of Patent:** **\*\* Feb. 7, 2023**

(54) **PAIR OF EARPHONES**

(71) Applicant: **Apple Inc.**, Cupertino, CA (US)  
 (72) Inventors: **Jody Akana**, Los Altos Hills, CA (US); **Molly Anderson**, San Francisco, CA (US); **Bartley K. Andre**, Palo Alto, CA (US); **Shota Aoyagi**, San Francisco, CA (US); **Anthony Michael Ashcroft**, San Francisco, CA (US); **Marine C. Bataille**, San Francisco, CA (US); **Jeremy Bataillou**, San Francisco, CA (US); **Abidur Rahman Chowdhury**, San Francisco, CA (US); **Markus Diebel**, San Francisco, CA (US); **M. Evans Hankey**, San Francisco, CA (US); **Julian Hoenig**, San Francisco, CA (US); **Richard P. Howarth**, San Francisco, CA (US); **Jonathan P. Ive**, San Francisco, CA (US); **Julian Jaede**, San Francisco, CA (US); **Duncan Robert Kerr**, San Francisco, CA (US); **Peter Russell-Clarke**, San Francisco, CA (US); **Benjamin Andrew Shaffer**, San Jose, CA (US); **Sung-Ho Tan**, Vienna (AT); **Clement Tissandier**, San Francisco, CA (US); **Eugene Antony Whang**, San Francisco, CA (US); **Rico Zörkendörfer**, San Francisco, CA (US)

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

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

(21) Appl. No.: **29/850,637**

(22) Filed: **Aug. 22, 2022**

**Related U.S. Application Data**

(63) Continuation of application No. 29/804,821, filed on Aug. 23, 2021, now Pat. No. Des. 961,557, which is a continuation of application No. 29/764,724, filed on Dec. 31, 2020, now Pat. No. Des. 928,745, which is a continuation of application No. 29/741,273, filed on

Jul. 10, 2020, now Pat. No. Des. 907,010, which is a continuation of application No. 29/705,727, filed on Sep. 13, 2019, now Pat. No. Des. 906,297, and a continuation of application No. 29/741,272, filed on Jul. 10, 2020, now Pat. No. Des. 929,374, which is a continuation of application No. 29/705,727, filed on Sep. 13, 2019, now Pat. No. Des. 906,297, and a continuation of application No. 29/741,274, filed on Jul. 10, 2020, now Pat. No. Des. 928,743, which is a continuation of application No. 29/705,727, filed on Sep. 13, 2019, now Pat. No. Des. 906,297.

(51) **LOC (14) Cl.** ..... **14-01**  
 (52) **U.S. Cl.**  
 USPC ..... **D14/223**  
 (58) **Field of Classification Search**  
 USPC ..... D14/223, 205; D24/174; 128/864-866; 381/380-381  
 CPC ..... H04R 1/10; H04R 25/00; H04R 1/1016; H04R 1/1066; H04R 5/033; H04R 5/0335; H04R 1/105; H04R 1/1091  
 See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,148,477 A	2/1939	Koch
2,595,489 A	5/1952	Rutter et al.
3,368,644 A	2/1968	Henderson
3,459,902 A	8/1969	Warning et al.
3,588,384 A	6/1971	Negley et al.
3,781,492 A	12/1973	Cragg et al.
4,532,649 A	7/1985	Bellafiore
4,672,672 A	6/1987	Eggert et al.
4,677,675 A	6/1987	Killion et al.
4,736,430 A	4/1988	Schroder
4,742,887 A	5/1988	Yamagishi et al.
D296,435 S	6/1988	Kubota
4,889,303 A	12/1989	Wolf et al.
4,893,344 A	1/1990	Tragardh et al.
4,965,838 A	10/1990	Kamon et al.
4,972,492 A	11/1990	Tanaka et al.
D316,550 S	4/1991	Sogabe
D331,057 S	11/1992	Isonaga
D331,061 S	11/1992	Hyohgo
D337,118 S	7/1993	Seikita
D337,589 S	7/1993	Wada
D344,800 S	3/1994	Lamby

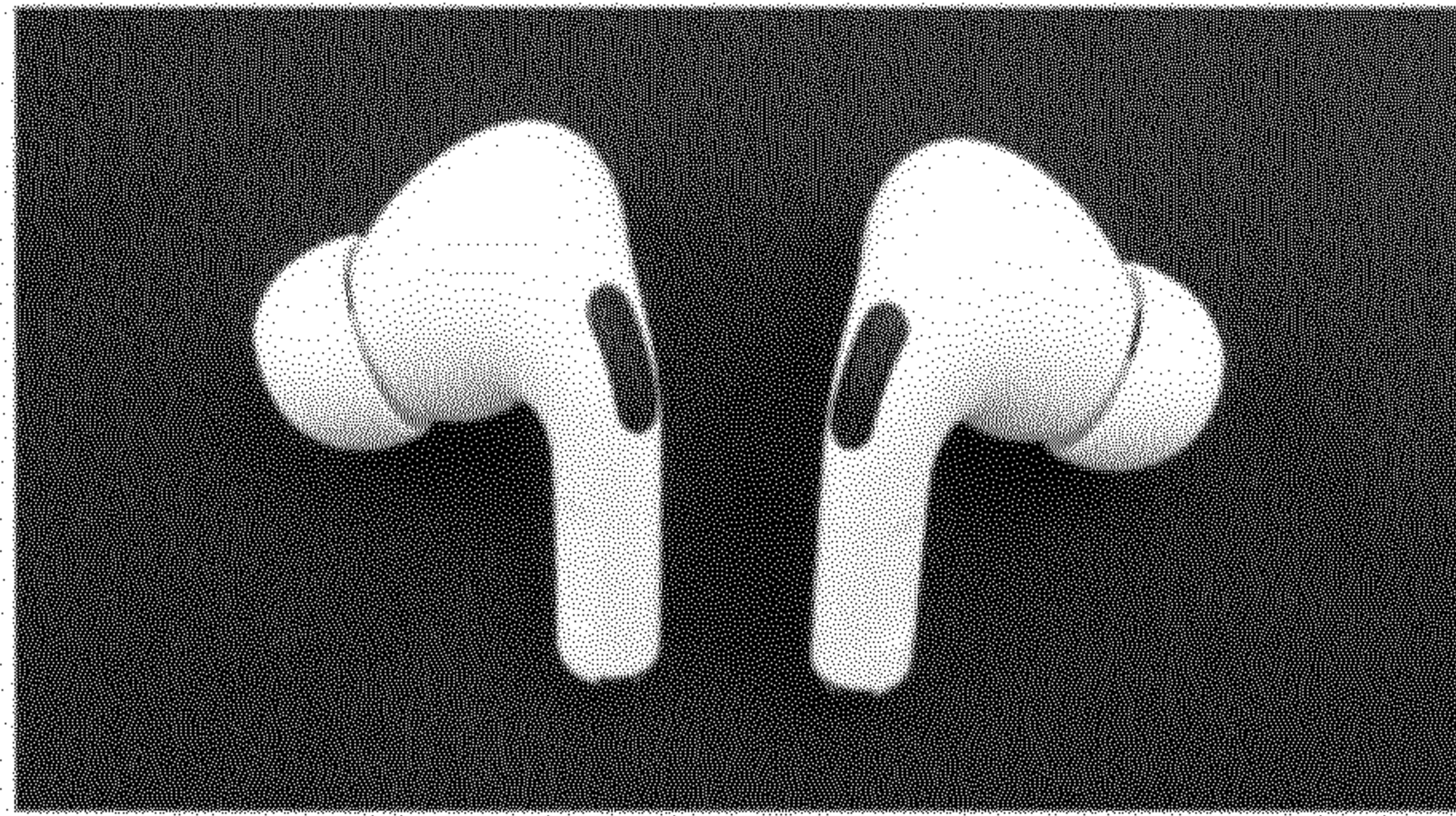




FIG. 1

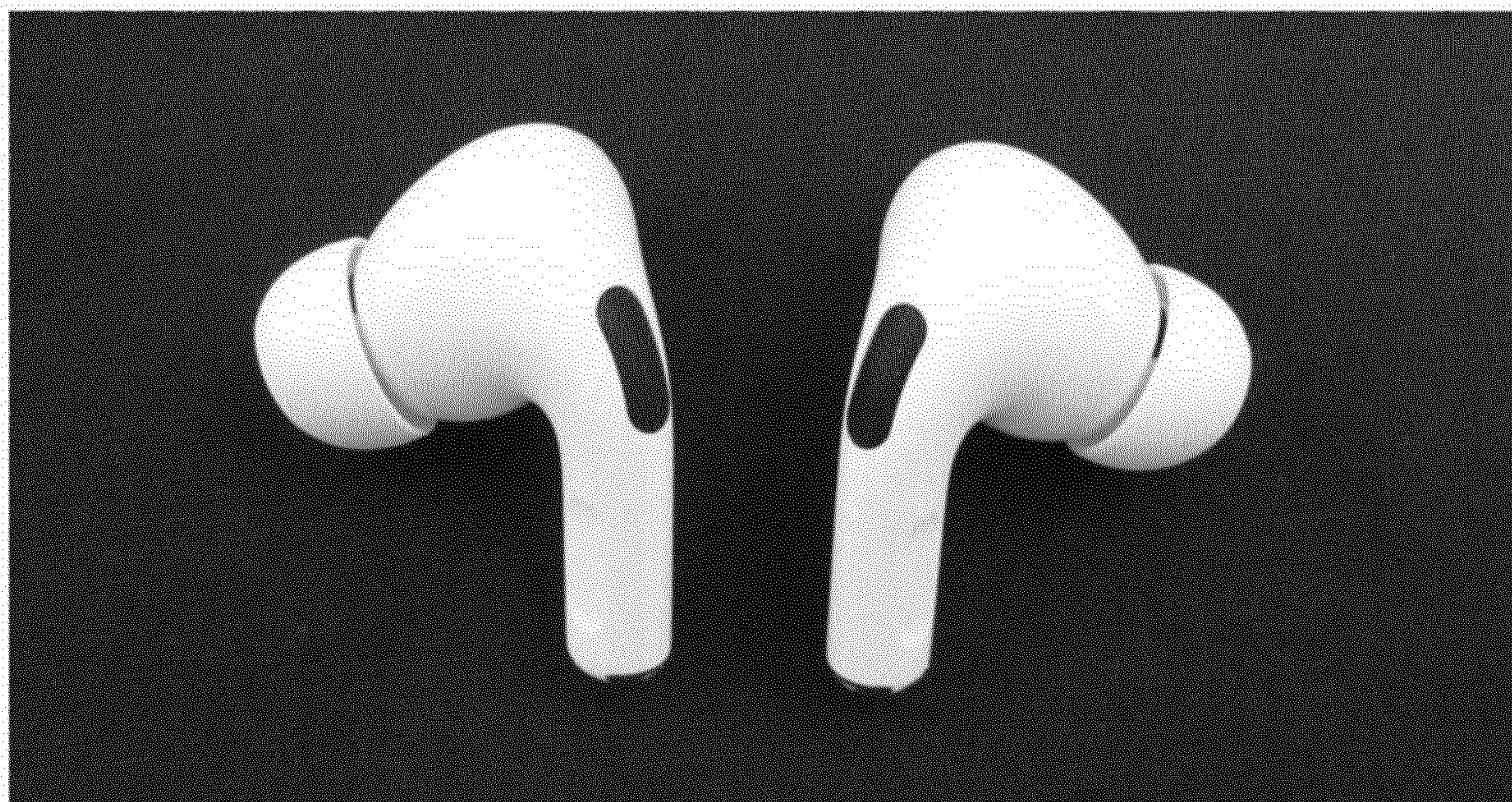


FIG. 2



FIG. 3

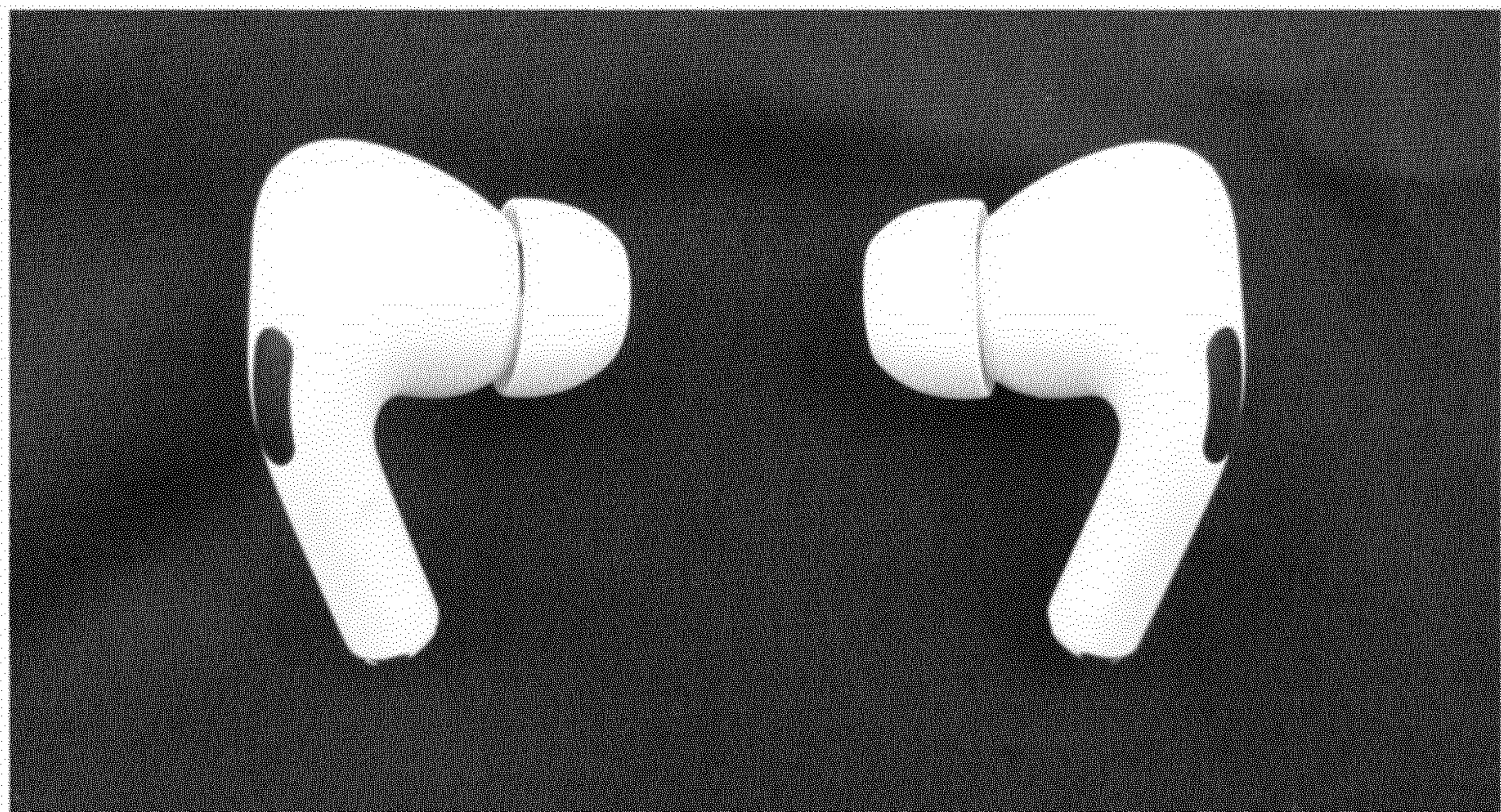


FIG. 4



FIG. 5

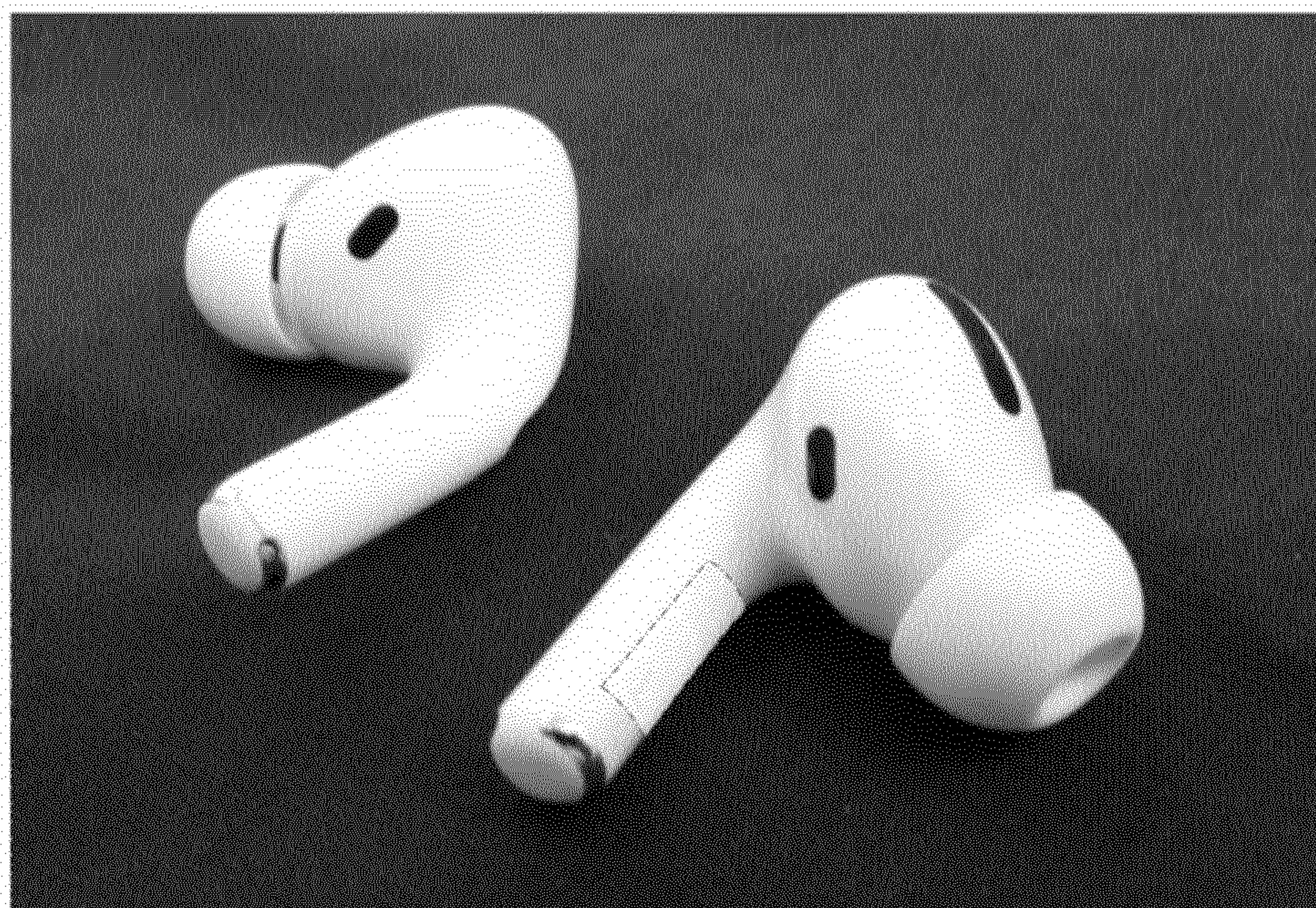
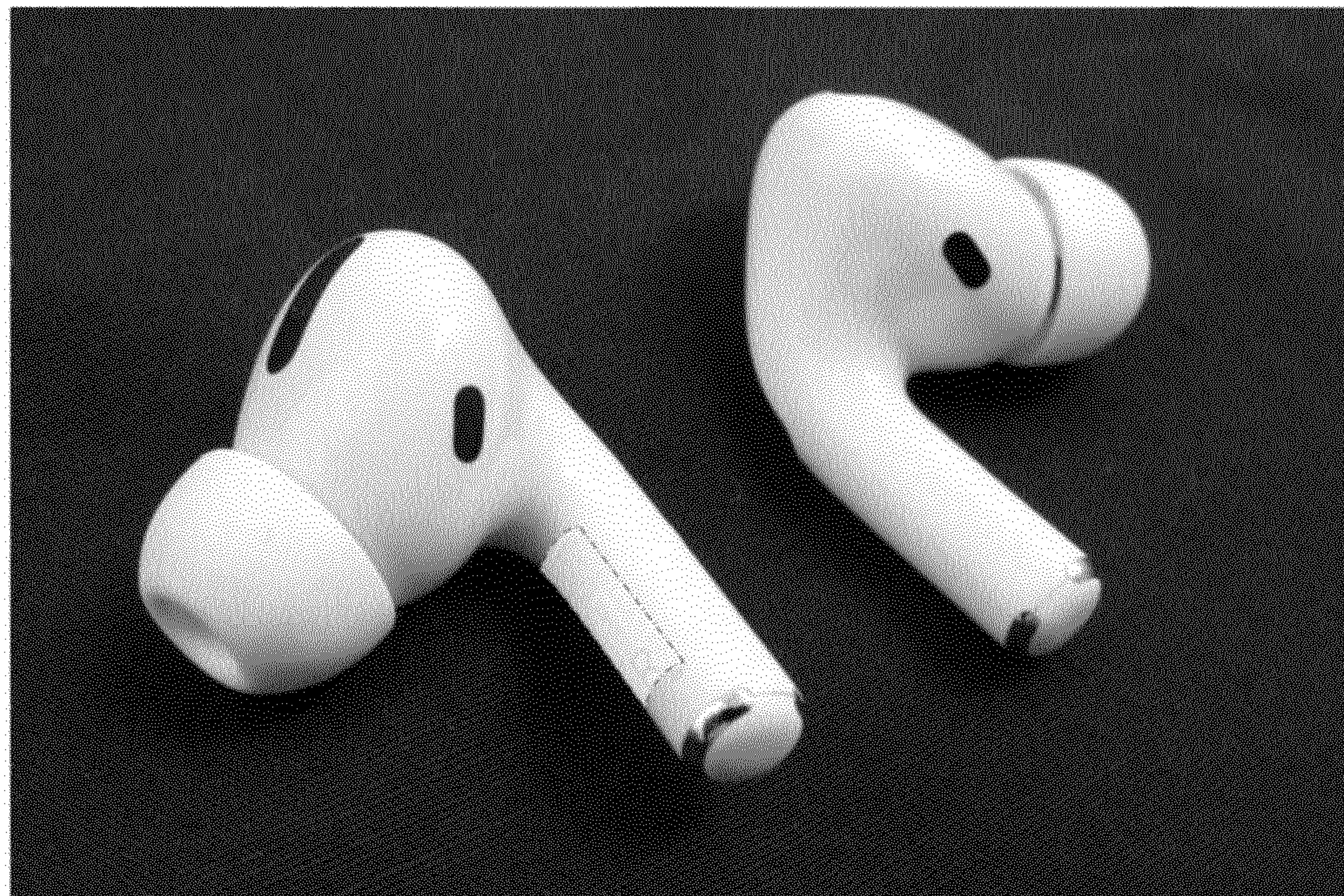


FIG. 6



**FIG. 7**



**FIG. 8**



FIG. 9

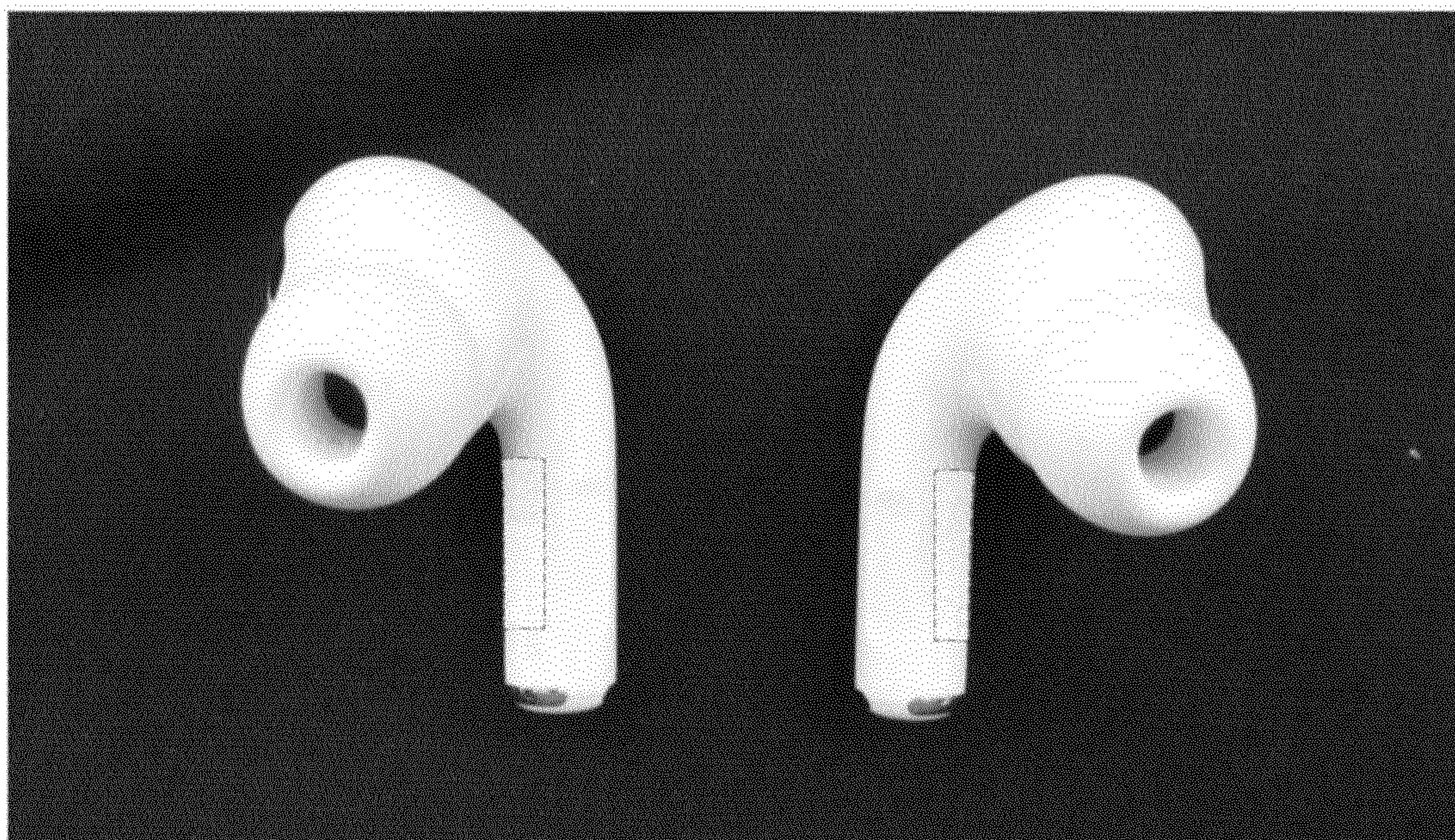


FIG. 10