

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

(10) **Patent No.:** **US D1,037,216 S**

(45) **Date of Patent:** **** Jul. 30, 2024**

(54) **EARPHONE**

(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); **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.: **29/909,863**

(22) Filed: **Aug. 11, 2023**

Related U.S. Application Data

(63) Continuation of application No. 29/881,538, filed on Jan. 3, 2023, now Pat. No. Des. 995,491, which is a continuation of application No. 29/837,465, filed on May 5, 2022, now Pat. No. Des. 975,066, which is a continuation of application No. 29/805,722, filed on Aug. 30, 2021, now Pat. No. Des. 951,234, which is

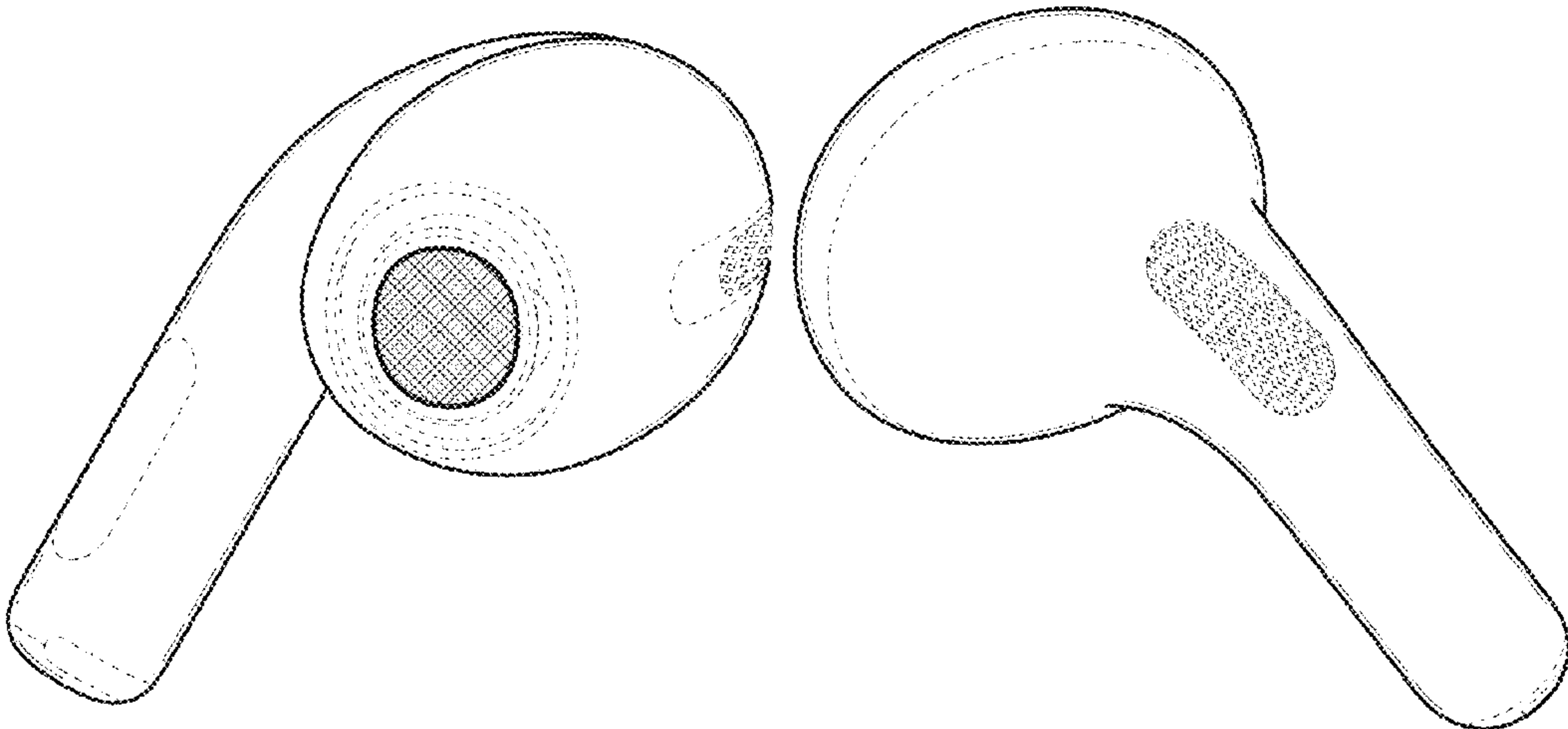
a continuation of application No. 29/768,810, filed on Feb. 1, 2021, now Pat. No. Des. 929,376, which is a continuation of application No. 29/706,556, filed on Sep. 20, 2019, now Pat. No. Des. 909,347, said application No. 29/805,722 is a continuation of application No. 29/768,818, filed on Feb. 1, 2021, now Pat. No. Des. 929,972, which is a continuation of application No. 29/706,556, filed on Sep. 20, 2019, now Pat. No. Des. 909,347.

(51) **LOC (14) Cl.** **14-01**
(52) **U.S. Cl.**
USPC **D14/223**
(58) **Field of Classification Search**
USPC D14/223, 219; D24/174; 128/864–866; 381/322, 328
CPC H04R 25/00; H04R 25/02; H04R 11/02; H04R 1/10; H04R 1/1066; H04R 1/1016; H04R 5/0335; H04R 1/1091; A61F 11/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,148,477	A	2/1939	Koch	
2,377,739	A *	6/1945	Wyckoff	H04R 25/652 381/328
2,595,489	A	5/1952	Rutter et al.	
3,368,644	A	2/1968	Henderson	
3,459,902	A	8/1969	Warning	
3,588,384	A	6/1971	Negley et al.	
3,781,492	A	12/1973	Cragg et al.	
4,532,649	A	7/1985	Bellafore	
4,672,672	A	6/1987	Eggert et al.	
4,677,675	A	6/1987	Killion et al.	
4,736,430	A	4/1988	Schroeder	
4,742,887	A	5/1988	Yamagishi et al.	
D296,435	S	6/1988	Kubota	
4,832,150	A *	5/1989	Just	H04R 1/023 181/150
4,889,303	A	12/1989	Wolf et al.	
4,893,344	A	1/1990	Traegardh 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	



US D1,037,216 S

Page 2

D337,589 S	7/1993	Wada	D706,643 S	6/2014	Akana et al.
D344,800 S	3/1994	Lamby	D707,206 S	6/2014	Akana et al.
D353,379 S	12/1994	Nakamura et al.	D711,857 S	8/2014	Burgett et al.
5,420,935 A	5/1995	Shinohara et al.	8,800,712 B2	8/2014	Campbell et al.
D410,079 S	5/1999	Falco et al.	D712,279 S	9/2014	Akana et al.
6,122,369 A	9/2000	Hwang et al.	D718,284 S	11/2014	Shibusawa
D463,789 S	10/2002	DeKalb et al.	D718,285 S	11/2014	Shibusawa
D469,753 S	2/2003	Andre et al.	8,948,435 B2	2/2015	Oosato et al.
6,574,345 B1	6/2003	Huang	8,965,030 B2	2/2015	Aase
D479,837 S	9/2003	Sundquist et al.	D728,533 S	5/2015	Poulsen et al.
6,690,807 B1	2/2004	Meyer	D732,007 S	6/2015	Oksman et al.
D488,460 S	4/2004	Alwicker et al.	D732,008 S	6/2015	Akana et al.
6,731,772 B1	5/2004	Byun	D733,101 S	6/2015	Pi et al.
D499,397 S	12/2004	Hlas et al.	D733,689 S	7/2015	Narita
D505,132 S	5/2005	Linville et al.	D738,864 S	9/2015	Lee
D506,744 S	6/2005	Andre et al.	D741,287 S	10/2015	Harata et al.
D515,070 S	2/2006	Andre et al.	D747,295 S	1/2016	Eastwood et al.
D518,008 S	3/2006	Peng	D755,759 S	5/2016	Cai
D523,846 S	6/2006	Lee	D757,682 S	5/2016	Perez
D533,868 S	12/2006	Koizumi	D770,412 S	11/2016	Son
D540,313 S	4/2007	Rausch et al.	D780,153 S	2/2017	Lukic et al.
D554,109 S	10/2007	Ledbetter et al.	D781,268 S	3/2017	Magi et al.
D557,689 S	12/2007	Huang	D798,844 S	10/2017	Nokuo et al.
D566,687 S	4/2008	Duarte et al.	D801,314 S	10/2017	Akana et al.
D568,291 S	5/2008	Andre et al.	9,961,431 B2	5/2018	McPeak et al.
D573,977 S	7/2008	Ledbetter et al.	D820,809 S	6/2018	Akana et al.
D575,269 S	8/2008	Ledbetter et al.	10,003,880 B2	6/2018	Wagman et al.
D578,518 S	10/2008	Ewert	D823,835 S	7/2018	Loermann et al.
D579,923 S	11/2008	Andre et al.	D828,823 S	9/2018	Lin et al.
D587,677 S	3/2009	Andre et al.	D830,345 S	10/2018	Cai et al.
D589,028 S	3/2009	Haapapuro et al.	D847,125 S	4/2019	Akana et al.
D589,491 S	3/2009	Andre et al.	D849,401 S	5/2019	Akana et al.
D589,498 S	3/2009	Komiyama	D862,424 S	10/2019	You
D590,375 S	4/2009	Komiyama	D865,720 S	11/2019	Deng et al.
D593,537 S	6/2009	Arimoto	D867,325 S *	11/2019	Akana H04R 1/1016
D596,616 S	7/2009	Andre et al.			D14/223
D599,330 S	9/2009	Andre et al.	D869,445 S	12/2019	Hu
D601,134 S	9/2009	Elabidi et al.	RE47,915 E	3/2020	Akana et al.
D616,874 S	6/2010	Matsuoka	D883,260 S	5/2020	Hu
D618,209 S	6/2010	Andre et al.	D896,206 S	9/2020	Xu
D618,210 S	6/2010	Andre et al.	D896,788 S	9/2020	Akana et al.
D618,219 S	6/2010	Burgett et al.	D897,997 S	10/2020	Zhang
D620,482 S	7/2010	Chen	D897,998 S	10/2020	Ma
D622,265 S	8/2010	Rye	D904,351 S	12/2020	Zhang
D626,948 S	11/2010	Nault	D905,018 S	12/2020	Zhu
D627,766 S	11/2010	Arimoto	D905,019 S	12/2020	Liu
D628,193 S	11/2010	Zheng	D906,297 S	12/2020	Akana et al.
D631,034 S *	1/2011	Yeo D14/223	D907,009 S	1/2021	Akana et al.
D632,282 S	2/2011	Kitayama	D907,010 S	1/2021	Akana et al.
D633,086 S	2/2011	Chen	D909,347 S	2/2021	Akana et al.
D635,960 S	4/2011	Gondo et al.	D928,743 S	8/2021	Akana et al.
D639,279 S	6/2011	Andre et al.	D929,376 S *	8/2021	Akana D14/223
D641,738 S	7/2011	Perez	D929,972 S *	9/2021	Akana D14/223
D643,416 S	8/2011	Chong et al.	D943,557 S	2/2022	Zhang
D652,823 S *	1/2012	Chen H04R 1/1016	D951,234 S *	5/2022	Akana D14/219
		D14/223	D975,066 S *	1/2023	Akana D14/223
D653,236 S *	1/2012	Andre D14/223	D978,842 S	2/2023	Akana et al.
D656,481 S	3/2012	McManigal	D995,491 S	8/2023	Akana et al.
D662,493 S	6/2012	Chen	D1,006,797 S *	12/2023	Akana D14/223
D662,495 S	6/2012	Andre et al.	2010/0246879 A1	9/2010	Siahaan et al.
D664,523 S	7/2012	Naitou	2011/0051978 A1	3/2011	Chen
D666,580 S	9/2012	Lee et al.	2012/0003937 A1	1/2012	Zhong
8,265,323 B2	9/2012	Stiehl et al.	2012/0155692 A1	6/2012	Chen
D669,058 S	10/2012	Lee et al.	2012/0237074 A1	9/2012	Aase
D669,453 S	10/2012	Katsuraku et al.	2013/0004011 A1	1/2013	Hayashida et al.
D674,377 S *	1/2013	Schaefer D14/223	2013/0010998 A1	1/2013	Seo
D674,781 S	1/2013	Sakata	2013/0343593 A1	12/2013	Howes et al.
D675,194 S	1/2013	Andre et al.	2013/0343594 A1	12/2013	Howes et al.
8,345,912 B2	1/2013	Akihiko et al.	2013/0343595 A1	12/2013	Zorkendorfer et al.
D676,427 S	2/2013	Yang	2015/0382100 A1	12/2015	Azmi et al.
8,391,533 B2	3/2013	Sim et al.	2017/0026733 A1	1/2017	Armstrong
D681,015 S	4/2013	Akana et al.	2017/0164087 A1	6/2017	Kurtz
D687,418 S	8/2013	Godfrey	2017/0201821 A1	7/2017	McAuliffe et al.
D687,419 S	8/2013	Andre et al.	2018/0077481 A1	3/2018	Kim
8,515,116 B2	8/2013	Lee	2020/0068285 A1	2/2020	Dang et al.
D691,594 S	10/2013	Akana et al.	2020/0107098 A1	4/2020	DiFonzo et al.
D694,220 S	11/2013	Lee et al.	2020/0245049 A1	7/2020	Karayiannis et al.

2020/0275182	A1	8/2020	Ettensberger	
2020/0282856	A1	9/2020	Samojeden et al.	
2023/0269509	A1*	8/2023	Cousins	 G06F 3/0443 381/380
2023/0269514	A1*	8/2023	Cousins	 G06F 3/044 381/74
2024/0073576	A1*	2/2024	Luo	 H04R 1/1016

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	304292881	9/2017
CN	306105491	10/2020
EM	007742713-0001	9/2019
EM	007742713-0005	9/2019
EM	007742713-0011	* 9/2019
EM	007742713-0012	* 9/2019
EM	007742713-0014	9/2019
EM	007742713-0015	9/2019
GB	6085034	3/2020
GB	6208380	5/2022
GB	6215399	6/2022
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, dated Jan. 31, 2013, 4 pages.

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 an earphone, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of an earphone showing the claimed design;
FIG. 2 is a rear perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.

The broken lines in the figures show portions of the earphone that form no part of the claimed design.

1 Claim, 4 Drawing Sheets

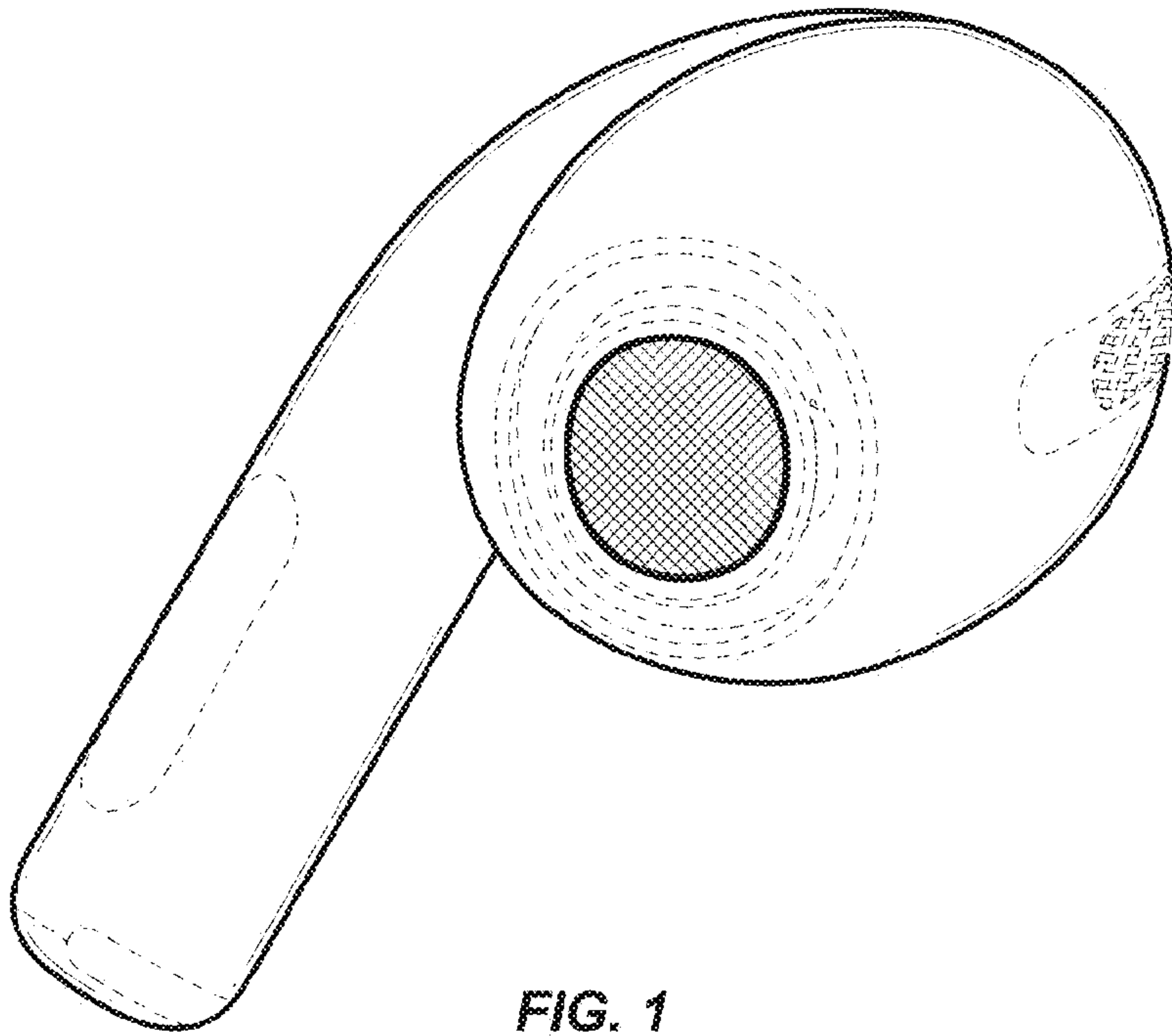


FIG. 1

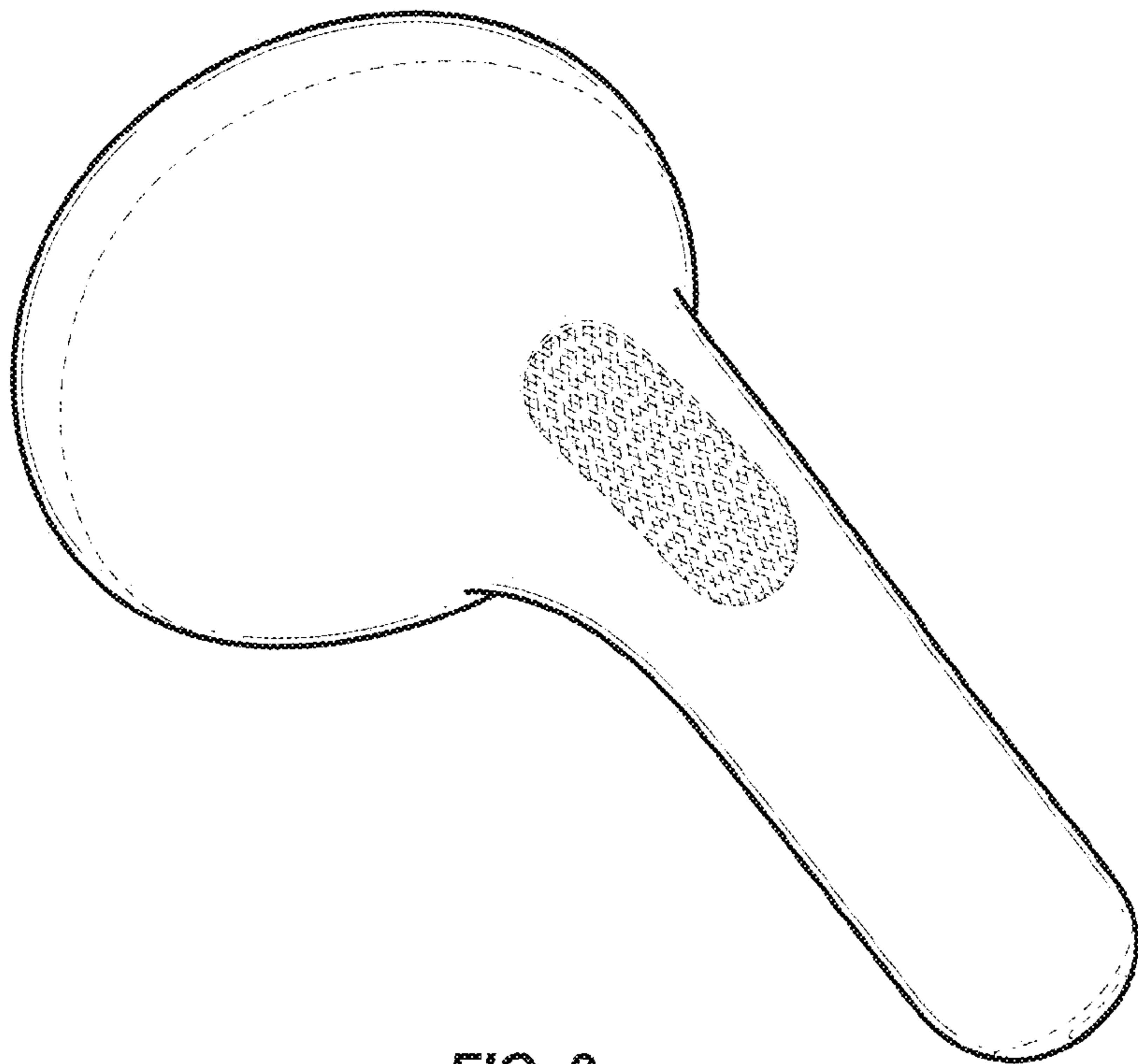


FIG. 2

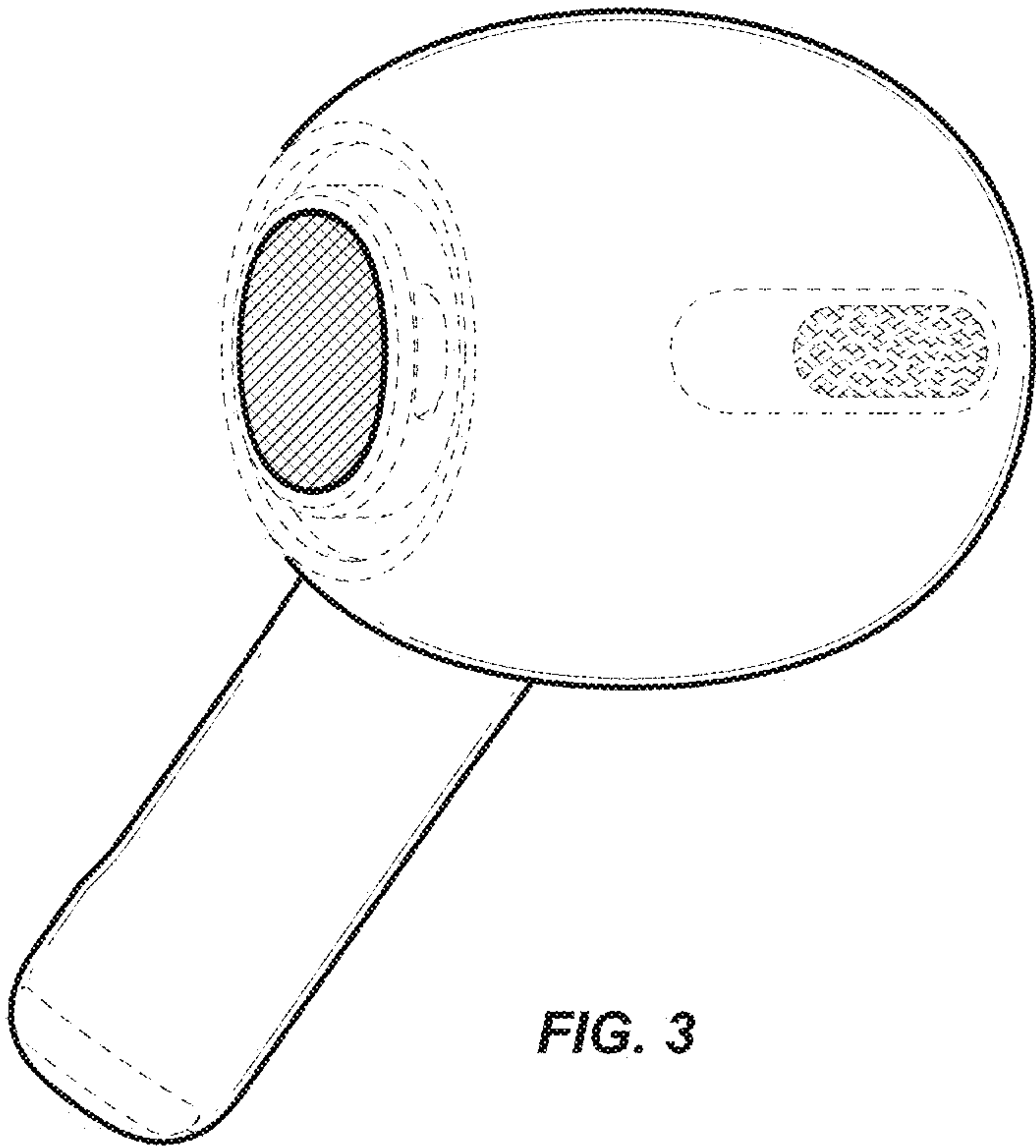


FIG. 3

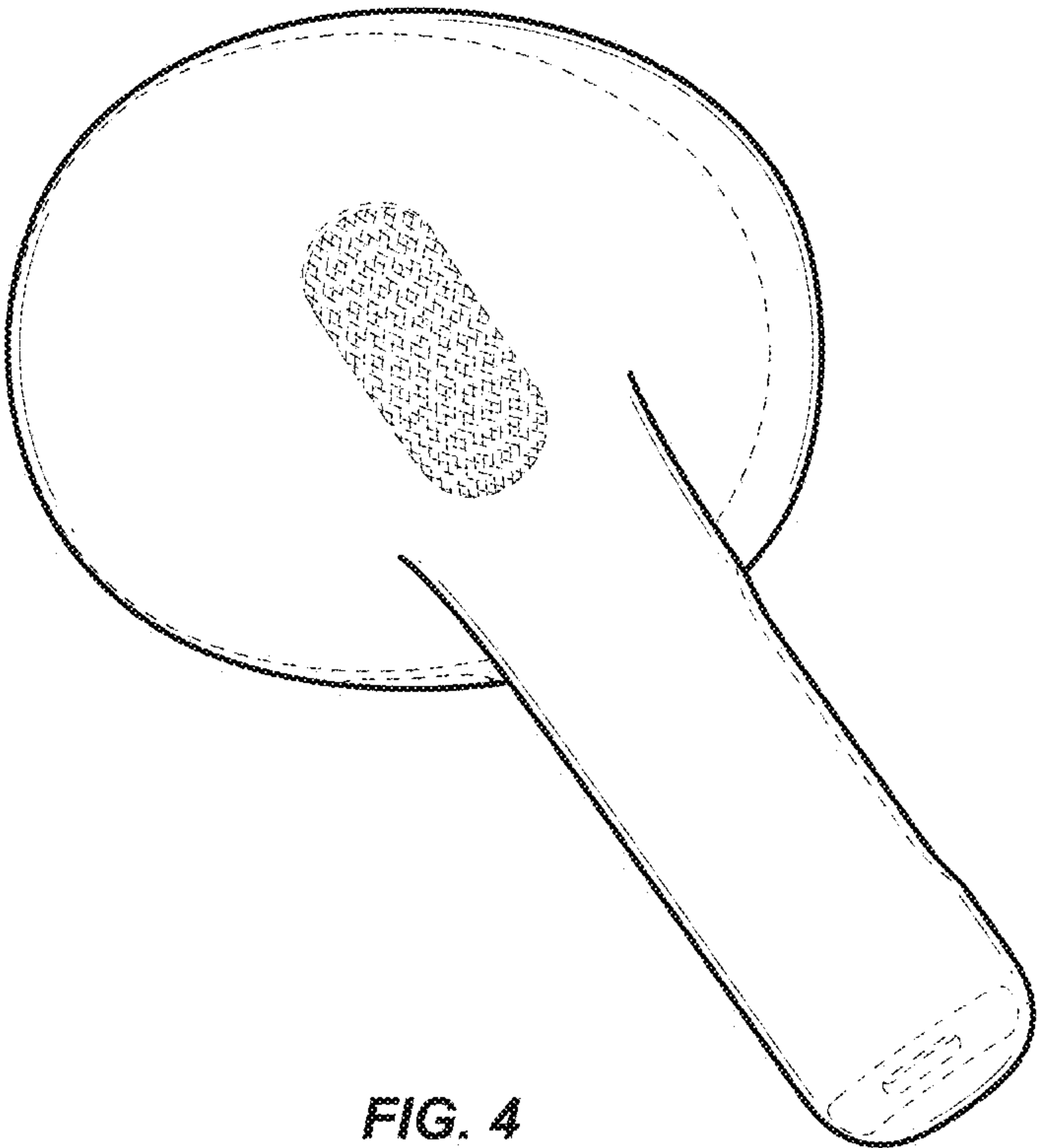


FIG. 4

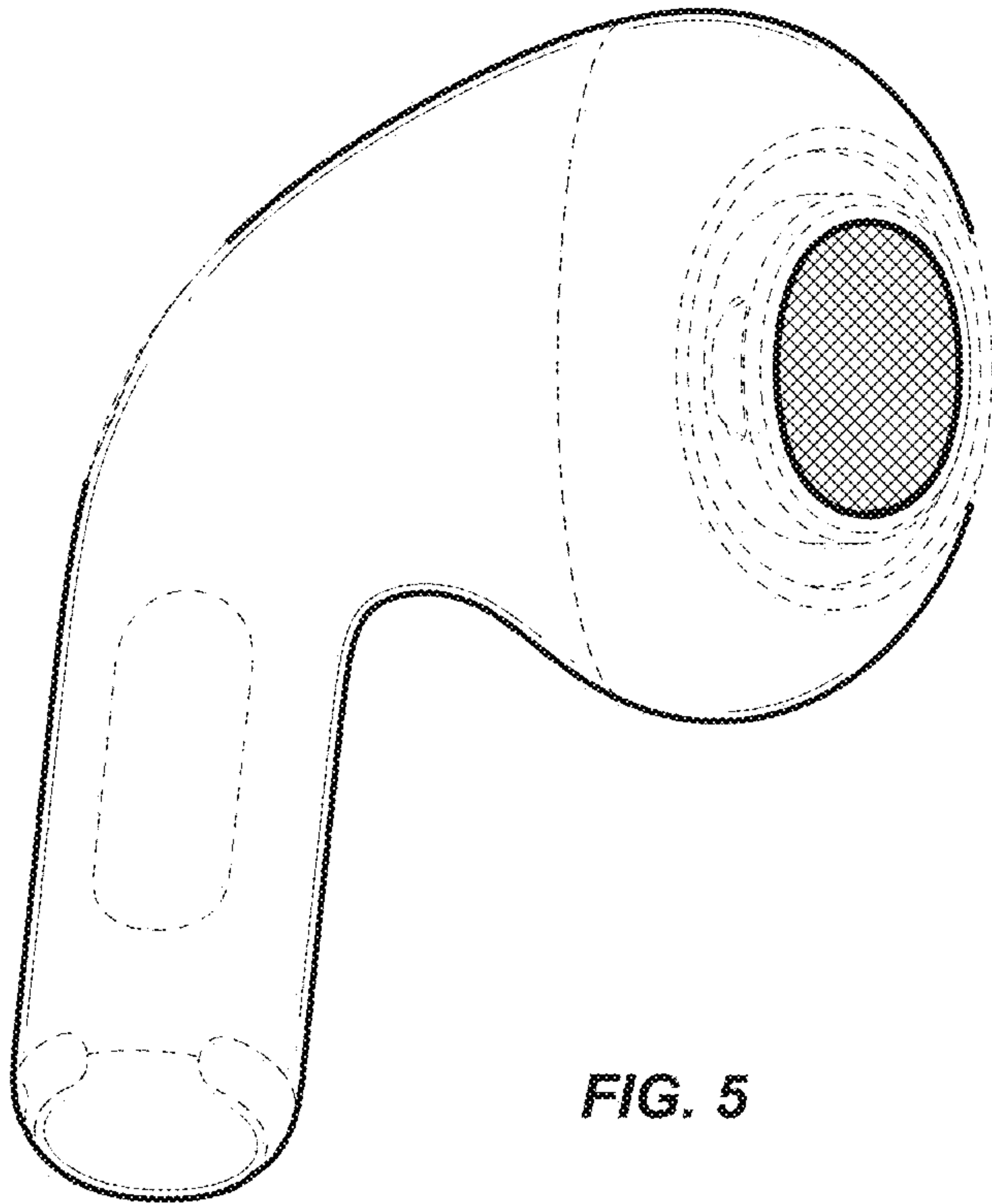


FIG. 5

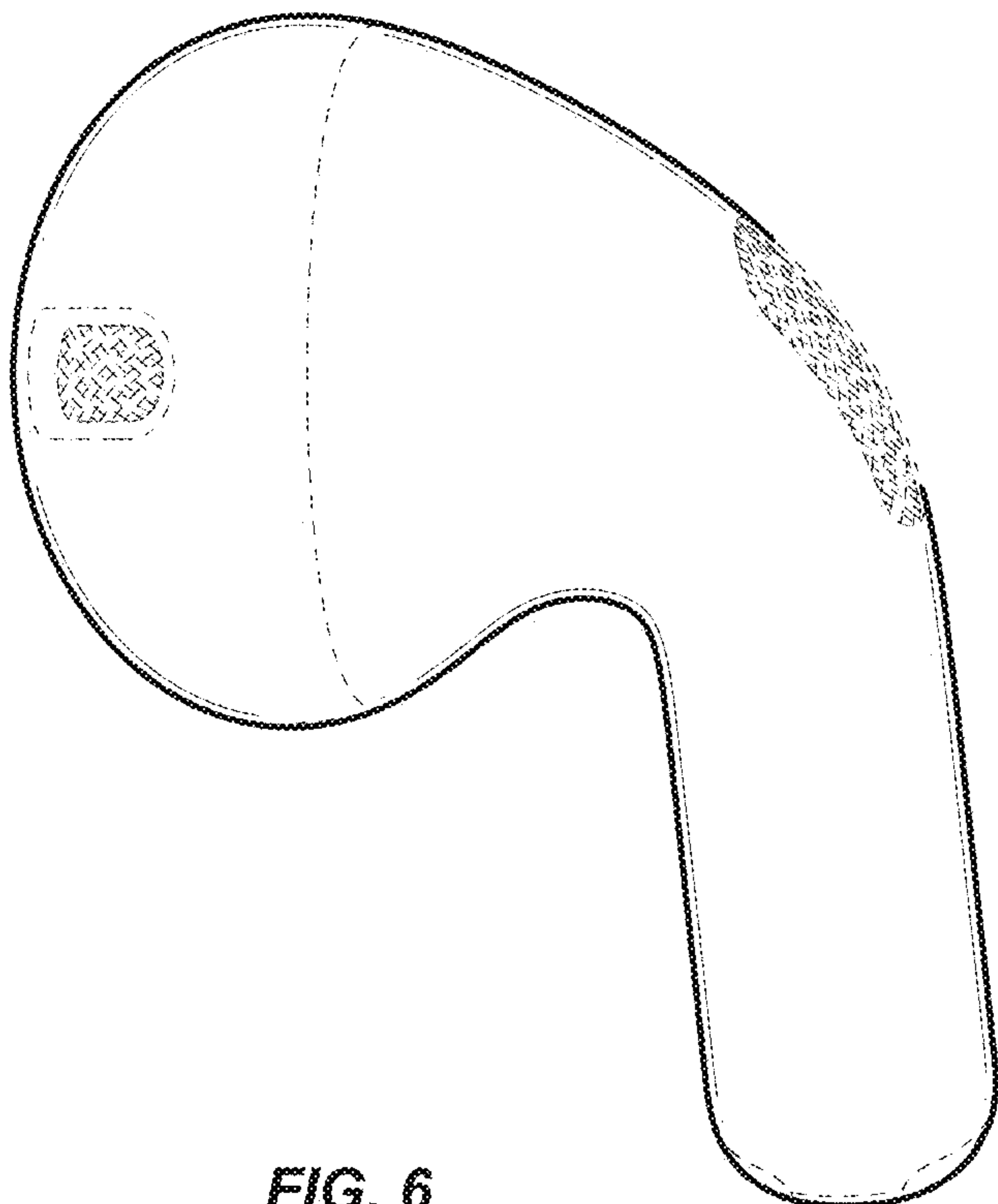


FIG. 6

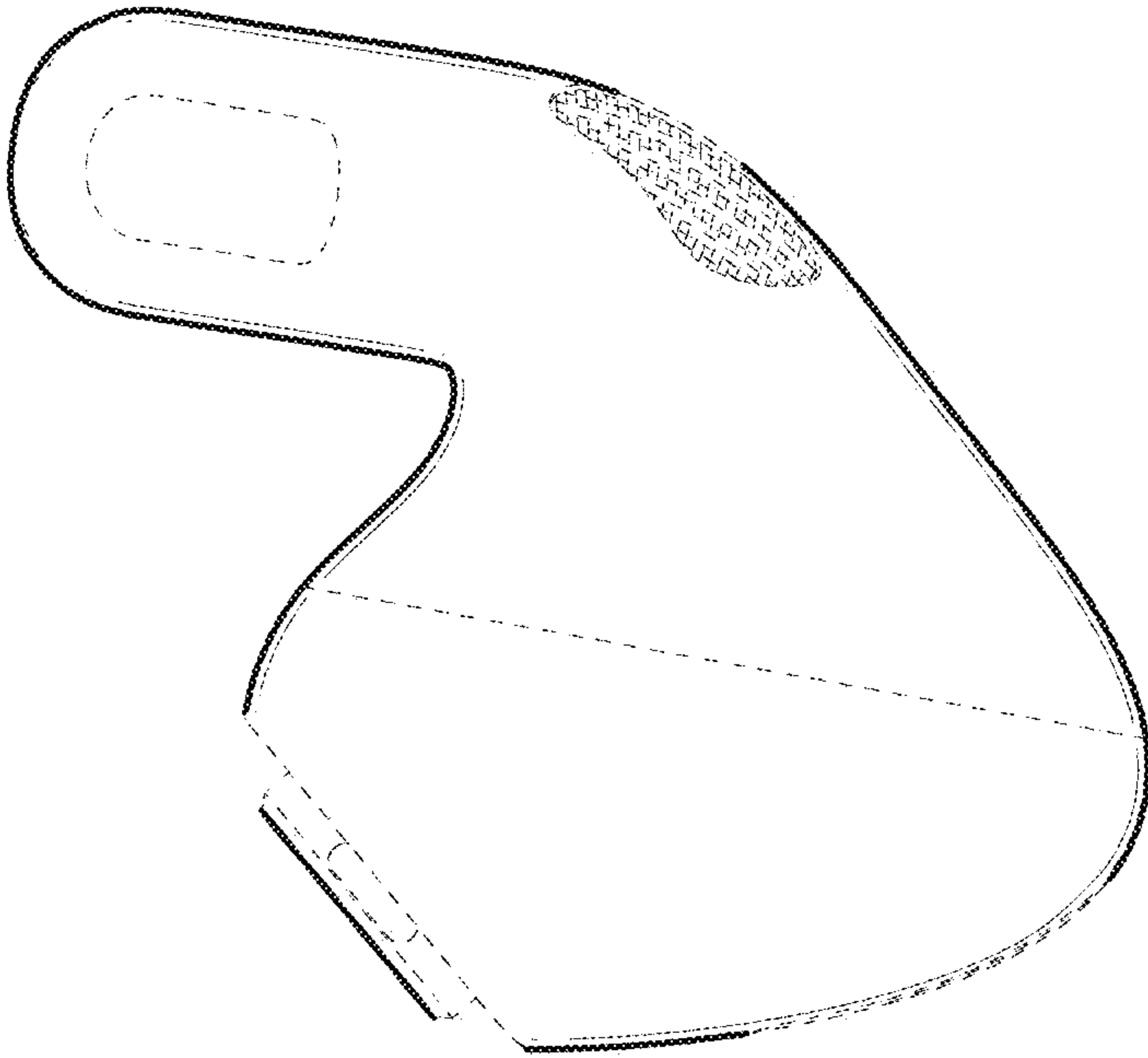


FIG. 7

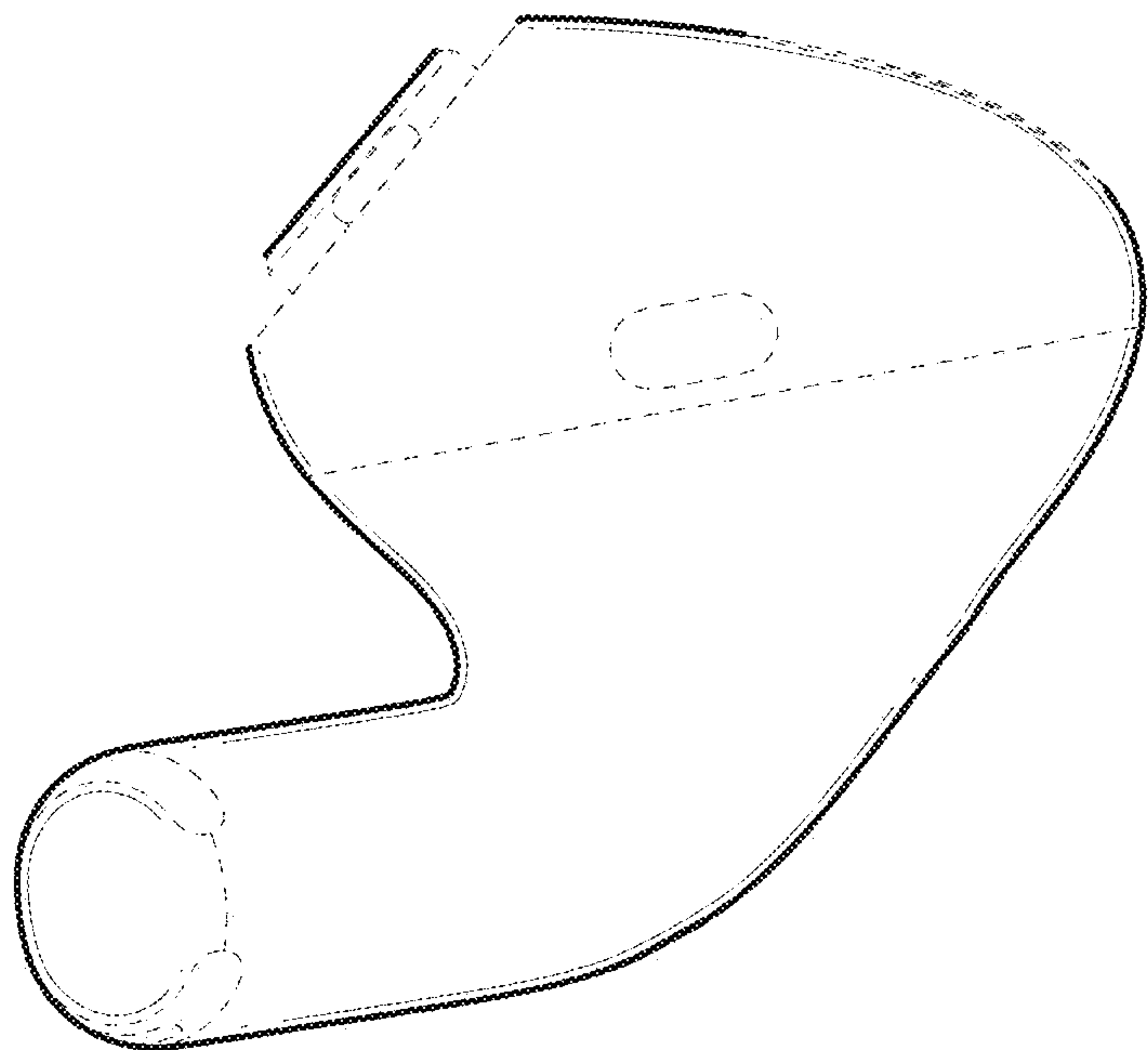


FIG. 8