



US00D929375S

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

(10) **Patent No.:** **US D929,375 S**

(45) **Date of Patent:** **** Aug. 31, 2021**

(54) **EARPHONE**

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

(72) Inventors: **Jody Akana**, San Francisco, 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); **Daniel J. Coster**, San Francisco, CA (US); **Daniele De Iuliis**, 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); **Mikael Silvanto**, San Francisco, CA (US); **Christopher J. Stringer**, Woodside, CA (US); **Joe Sung-Ho Tan**, San Francisco, CA (US); **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.: **29/751,345**

(22) Filed: **Sep. 21, 2020**

Related U.S. Application Data

(63) Continuation of application No. 29/689,378, filed on Apr. 29, 2019, now Pat. No. Des. 896,788, which is

a continuation of application No. 29/624,150, filed on Oct. 30, 2017, now Pat. No. Des. 847,125, which is a continuation of application No. 29/576,706, filed on Sep. 6, 2016, now Pat. No. Des. 801,314.

(51) **LOC (13) CI.** **14-01**

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

(58) **Field of Classification Search**

USPC D14/223, 205; D24/174; 128/864, 865, 128/866; 381/380, 381; 455/90.3, 575.1, 455/569.1

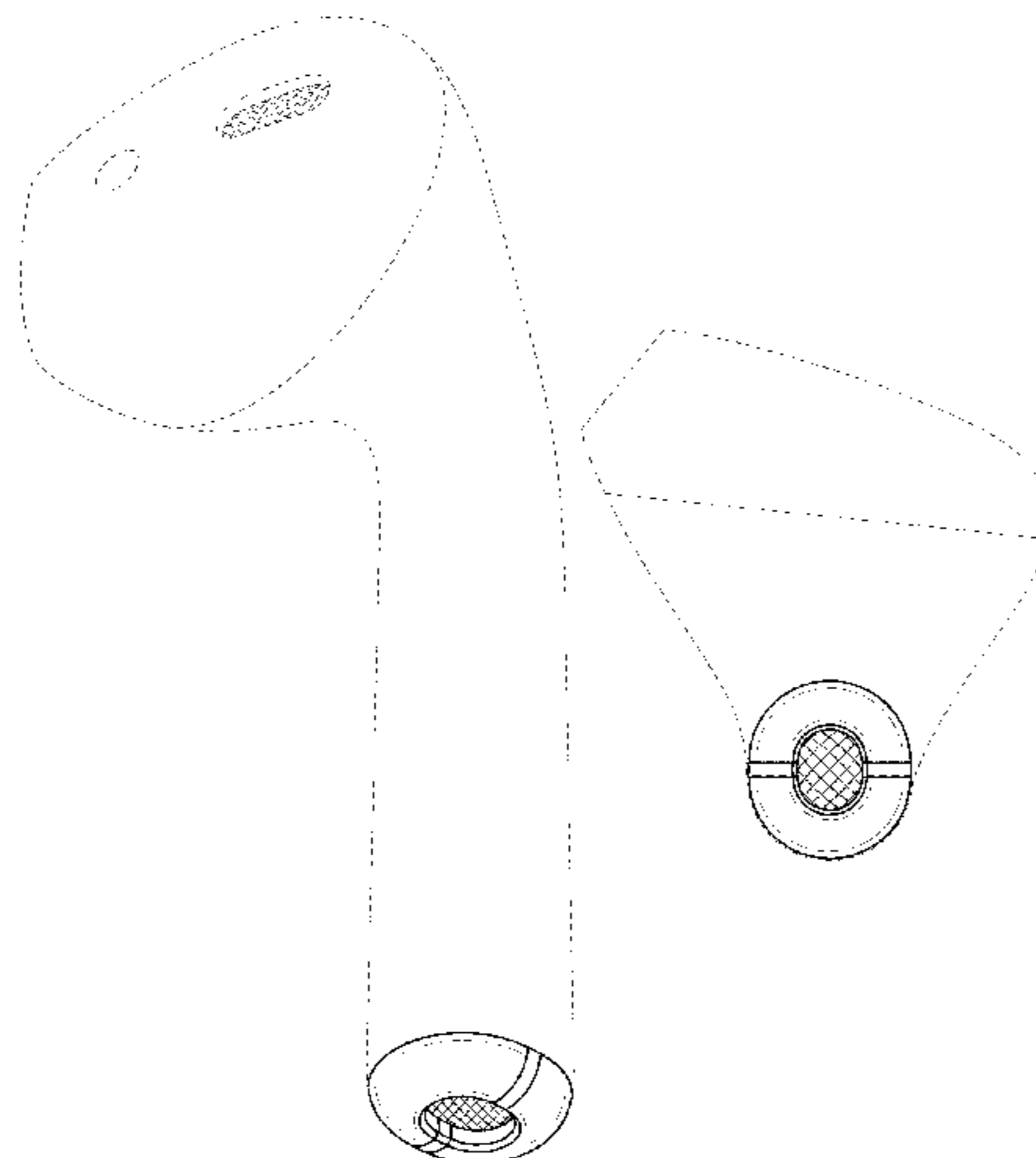
CPC H04R 1/10; H04R 25/00; H04R 25/02; H04R 1/1066; H04R 1/1016; H04R 5/0335; H04R 5/033; H04R 1/105; H04R 1/1091; H04R 1/20

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.	
2,803,308 A *	8/1957	Di Mattia	A61B 7/02 181/135
2,974,204 A *	3/1961	Supitilov	H04R 7/14 381/420
3,047,089 A	7/1962	Zwislocki	
3,197,577 A *	7/1965	Kuklock	H04R 25/654 381/328
3,368,644 A	2/1968	Henderson	
3,408,461 A *	10/1968	Langford	H04R 25/48 381/322
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.	
4,349,082 A *	9/1982	Gastmeier	H04R 25/48 181/130
4,532,649 A	7/1985	Bellafiore	
4,668,842 A	5/1987	Yokoyama	
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	
4,889,303 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.	



US D929,375 S

4,987,597 A *	1/1991	Haertl	H04R 25/654 381/325		D674,377 S *	1/2013	Schaefer	D14/223
D316,550 S	4/1991	Sogabe			D674,781 S	1/2013	Sakata	
D326,655 S	6/1992	Lribe			D675,194 S	1/2013	Andre et al.	
D331,057 S	11/1992	Isonaga			8,345,912 B2	1/2013	Akihiko et al.	
D331,061 S	11/1992	Hyohgo			D676,427 S	2/2013	Yang	
D337,118 S	7/1993	Seikita			8,391,533 B2	3/2013	Sim et al.	
D337,589 S	7/1993	Wada			D681,015 S	4/2013	Akana et al.	
D340,286 S	10/1993	Seo			D687,418 S	8/2013	Godfrey	
D344,800 S	3/1994	Lamby			D687,419 S	8/2013	Andre et al.	
D353,379 S	12/1994	Nakamura et al.			8,515,116 B2	8/2013	Lee	
5,420,935 A	5/1995	Shinohara et al.			D691,594 S	10/2013	Akana et al.	
D410,079 S	5/1999	Falco et al.			D694,220 S	11/2013	Lee et al.	
6,122,369 A	9/2000	Hwang et al.			D706,643 S	6/2014	Akana et al.	
D457,514 S *	5/2002	Marion	D14/223		D707,206 S	6/2014	Akana et al.	
D463,789 S	10/2002	Dekalb et al.			D711,857 S	8/2014	Burgett et al.	
D469,753 S	2/2003	Andre et al.			8,800,712 B2	8/2014	Campbell et al.	
6,574,345 B1	6/2003	Huang			D712,279 S	9/2014	Akana et al.	
D479,837 S	9/2003	Sundquist et al.			D718,284 S	11/2014	Shibusawa	
6,690,807 B1	2/2004	Meyer			D718,285 S	11/2014	Shibusawa	
D488,460 S	4/2004	Alwicker et al.			8,965,030 B2	2/2015	Aase	
6,731,772 B1	5/2004	Byun			D728,533 S	5/2015	Poulsen et al.	
D499,397 S	12/2004	Hlas et al.			D732,007 S	6/2015	Oksman et al.	
D505,132 S	5/2005	Linville et al.			D732,008 S	6/2015	Akana et al.	
D506,744 S	6/2005	Andre et al.			D733,101 S	6/2015	Pi et al.	
D515,070 S	2/2006	Andre et al.			D733,689 S	7/2015	Narita	
D518,008 S	3/2006	Peng			D738,863 S	9/2015	Laffon de mazieres et al.	
D523,846 S	6/2006	Lee			D738,864 S	9/2015	Lee	
D533,868 S	12/2006	Koizumi			D741,287 S	10/2015	Harata et al.	
D540,313 S	4/2007	Rausch et al.			D747,295 S	1/2016	Eastwood et al.	
D554,109 S	10/2007	Ledbetter et al.			D755,759 S	5/2016	Cai	
D554,627 S *	11/2007	Gondo	D14/223		D757,682 S	5/2016	Perez	
D557,689 S	12/2007	Huang			D769,849 S	10/2016	Akana et al.	
D566,687 S	4/2008	Duarte et al.			D770,412 S	11/2016	Son	
D568,291 S	5/2008	Andre et al.			D778,278 S	2/2017	Andre et al.	
D573,977 S	7/2008	Ledbetter et al.			D780,153 S	2/2017	Lukic et al.	
D575,269 S	8/2008	Ledbetter et al.			D781,268 S	3/2017	Magi et al.	
D578,518 S	10/2008	Ewert			D798,844 S	10/2017	Nokuo et al.	
D579,923 S	11/2008	Andre et al.			D801,314 S *	10/2017	Akana	D14/223
D580,910 S	11/2008	Kim et al.			D820,809 S	6/2018	Akana et al.	
D587,677 S	3/2009	Andre et al.			D823,835 S	7/2018	Loermann et al.	
D589,028 S	3/2009	Haapapuro et al.			D828,823 S	9/2018	Lin et al.	
D589,491 S	3/2009	Andre et al.			D830,345 S	10/2018	Cai et al.	
D589,498 S	3/2009	Komiyama			D847,125 S *	4/2019	Akana	D14/223
D590,375 S	4/2009	Komiyama			D853,995 S	7/2019	Cai	
D593,537 S	6/2009	Arimoto			D867,325 S	11/2019	Akana et al.	
D596,616 S	7/2009	Andre et al.			D869,445 S	12/2019	Hu	
D599,330 S	9/2009	Andre et al.			D878,337 S	3/2020	Yang	
D601,134 S	9/2009	Elabidi et al.			D883,260 S	5/2020	Hu	
D611,934 S *	3/2010	Schaefer	D14/223		D885,373 S	5/2020	Lundback	
D616,874 S	6/2010	Matsuoka			D887,396 S	6/2020	Wang et al.	
D618,209 S	6/2010	Andre et al.			D888,691 S	6/2020	Liu	
D618,210 S	6/2010	Andre et al.			D889,437 S	7/2020	Ando et al.	
D618,219 S	6/2010	Burgett et al.			D889,440 S *	7/2020	Yan	D14/223
D620,482 S	7/2010	Chen et al.			D890,138 S	7/2020	Peng	
D622,265 S	8/2010	Rye			D896,788 S *	9/2020	Akana	D14/223
D626,948 S	11/2010	Nault			D906,297 S *	12/2020	Akana	D14/223
D627,766 S	11/2010	Arimoto			D907,010 S *	1/2021	Akana	D14/223
D628,193 S	11/2010	Zheng			D909,347 S *	2/2021	Akana	D14/223
D631,034 S *	1/2011	Yeo	D14/205		D912,017 S *	3/2021	Chen	D14/223
D632,282 S	2/2011	Kitayama			D914,646 S *	3/2021	Yang	D14/223
D633,086 S	2/2011	Chen			D918,179 S *	5/2021	Zhao	D14/223
D635,960 S	4/2011	Gondo et al.			2012/0155692 A1	6/2012	Chen	
D639,279 S	6/2011	Andre et al.			2012/0237074 A1	9/2012	Aase	
D641,738 S	7/2011	Perez			2013/0004011 A1	1/2013	Hayashida et al.	
D643,416 S	8/2011	Chong et al.			2013/0343593 A1	12/2013	Howes et al.	
8,032,191 B2	10/2011	Yang			2013/0343595 A1	12/2013	Zorkendorfer et al.	
8,077,898 B2 *	12/2011	Huang	H04R 1/1016 381/345		2015/0382100 A1	12/2015	Azmi et al.	
D652,823 S	1/2012	Chen			2017/0164087 A1	6/2017	Kurtz	
D656,481 S	3/2012	Mcmanigal						
D662,493 S	6/2012	Chen						
D662,495 S	6/2012	Andre et al.						
D664,523 S	7/2012	Naitou						
D666,580 S	9/2012	Lee et al.						
8,265,323 B2 *	9/2012	Stiehl	H04R 1/1058 381/371					
D669,058 S	10/2012	Lee et al.						
D669,453 S	10/2012	Katsuraku et al.						

FOREIGN PATENT DOCUMENTS

CN	301938367 S	5/2012
CN	302414771 S	4/2013
CN	302672007 S	12/2013
CN	303180712 S	4/2015
CN	303634602 S	4/2016
CN	303640496 S	4/2016
CN	303701471 S	6/2016
CN	306112329 *	10/2020

CN	306230544	* 12/2020
CN	306248863	* 12/2020
EM	007983143-0001	6/2020
EM	007983168-0001	6/2020
EM	008007330-0001	6/2020
EM	008020077-0001	6/2020

OTHER PUBLICATIONS

iBlink WLP3 Earbuds—100Hz-10kHz, Noise Isolation, 3.5mm Jack, LED Light (Pink), White, TigerDirect.com, accessed at http://www.tigerdirect.com/applications/SearchTools/item-details.asp?EdpNo=3988300&csid=_61, last accessed on 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, accessed at <http://www.shoppingnexus.com/electronics/pr/philips-she265037-in-ear-earbuds-with-twin-vents1.html>, last accessed on 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 bottom 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 dashed broken lines in the figures show portions of the earphone that form no part of the claimed design.

1 Claim, 7 Drawing Sheets

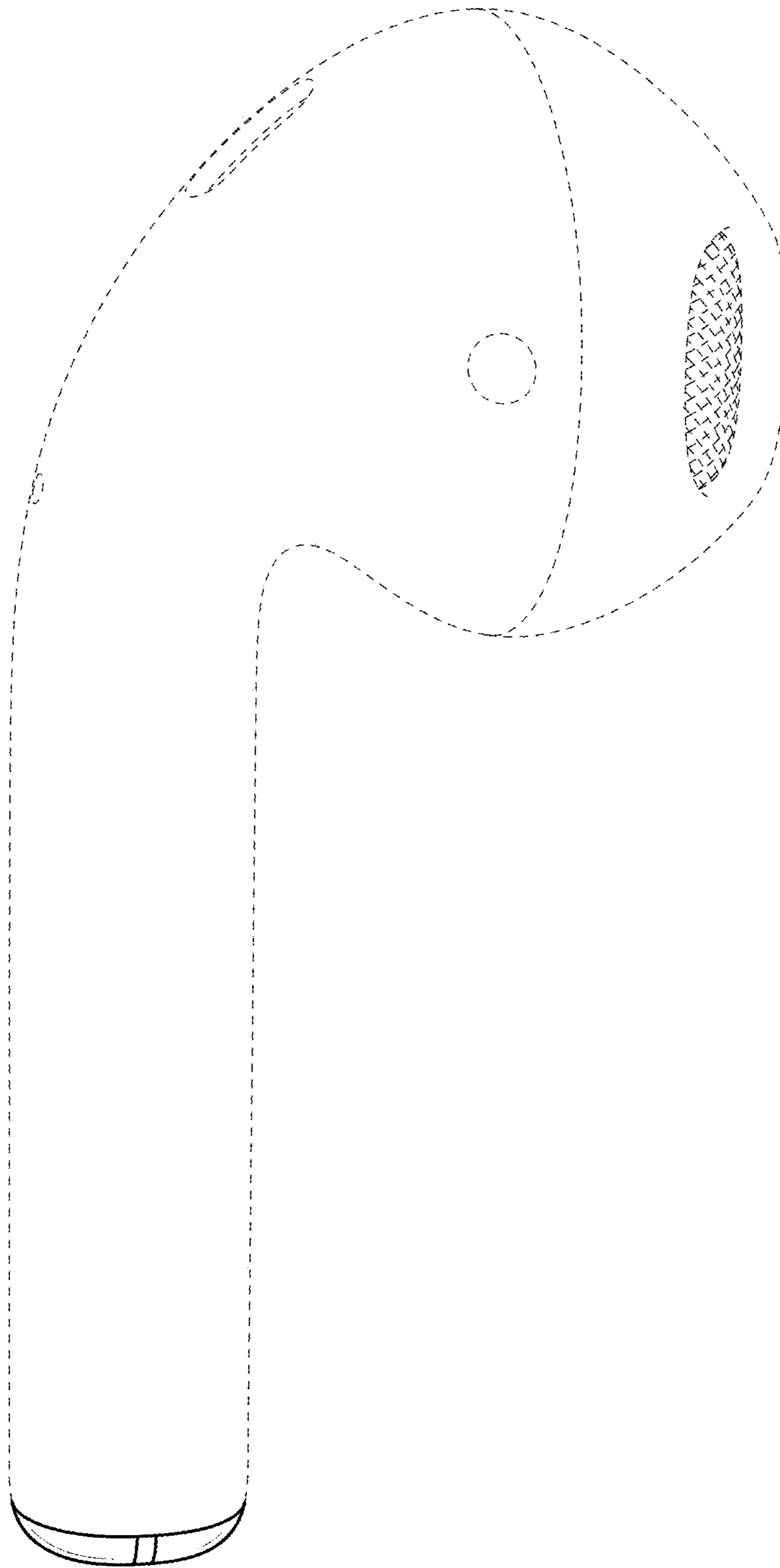


FIG. 1

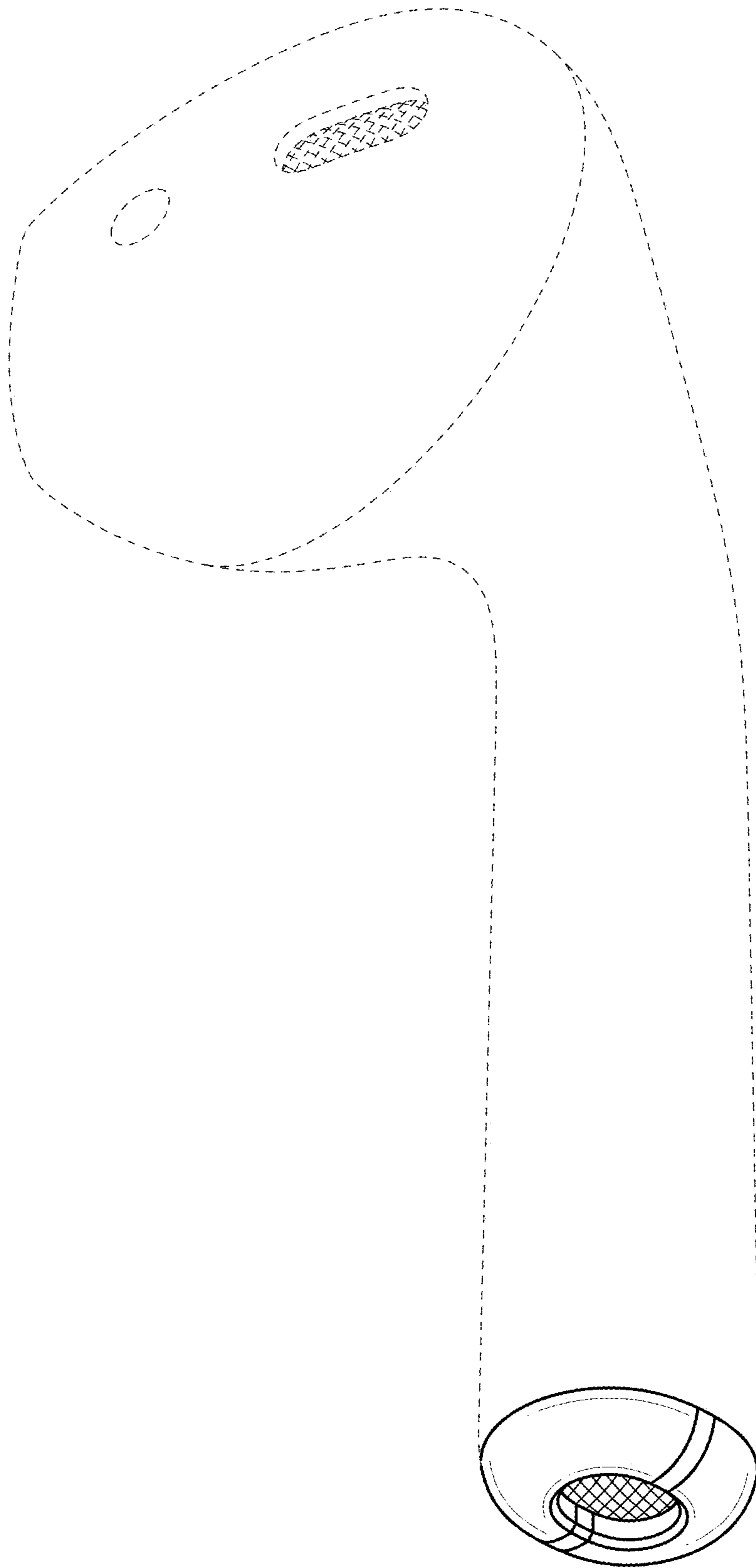


FIG. 2

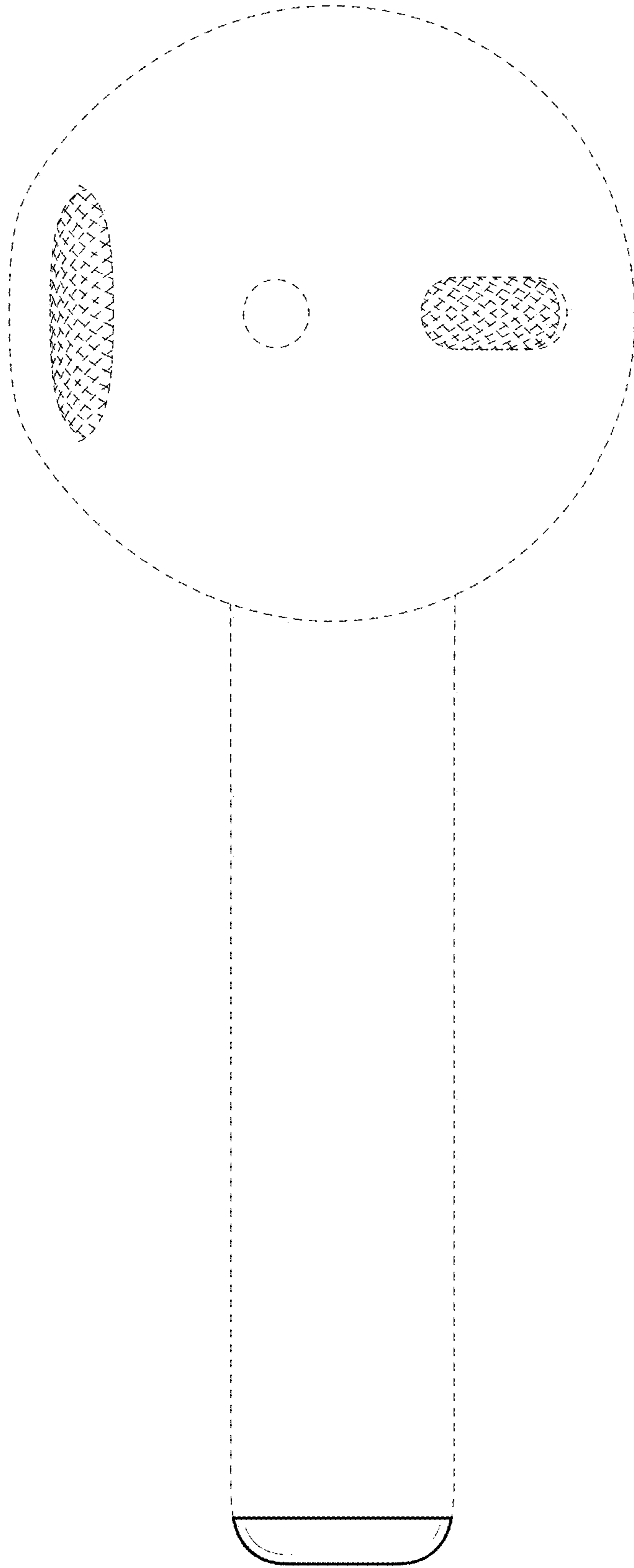


FIG. 3

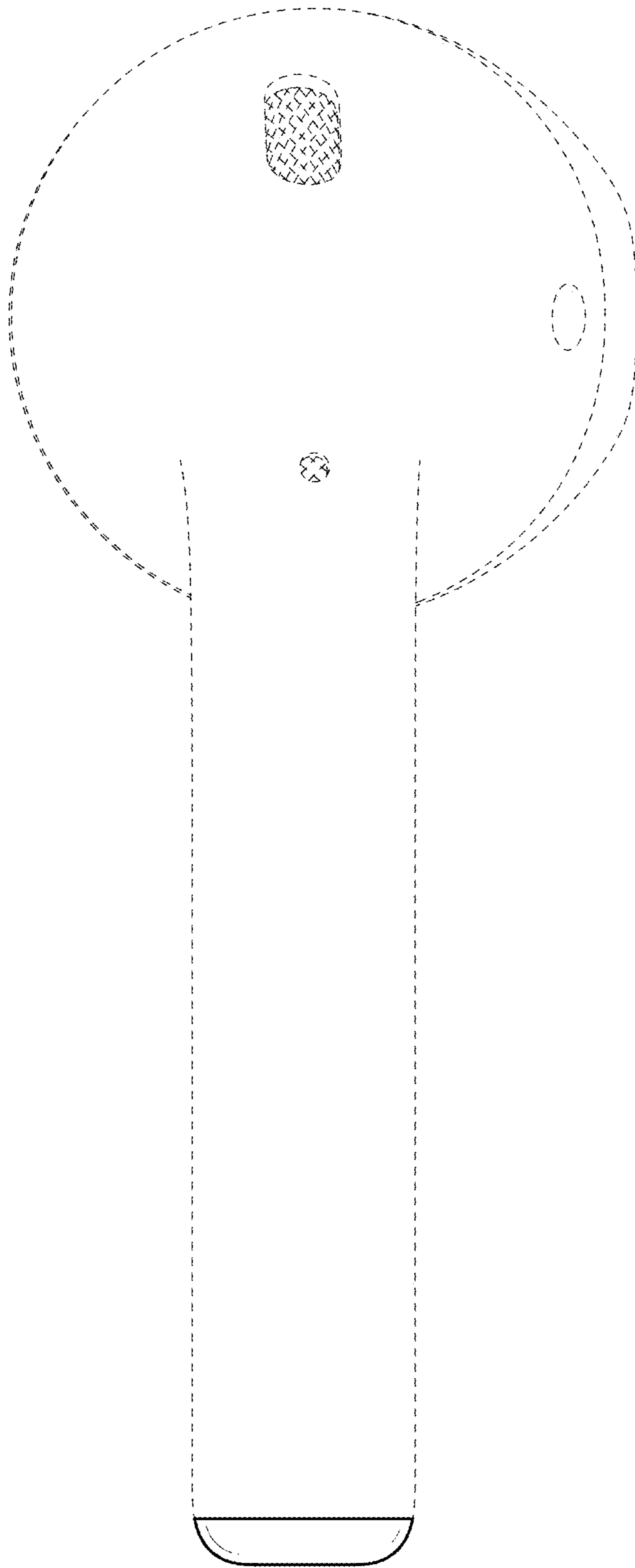


FIG. 4

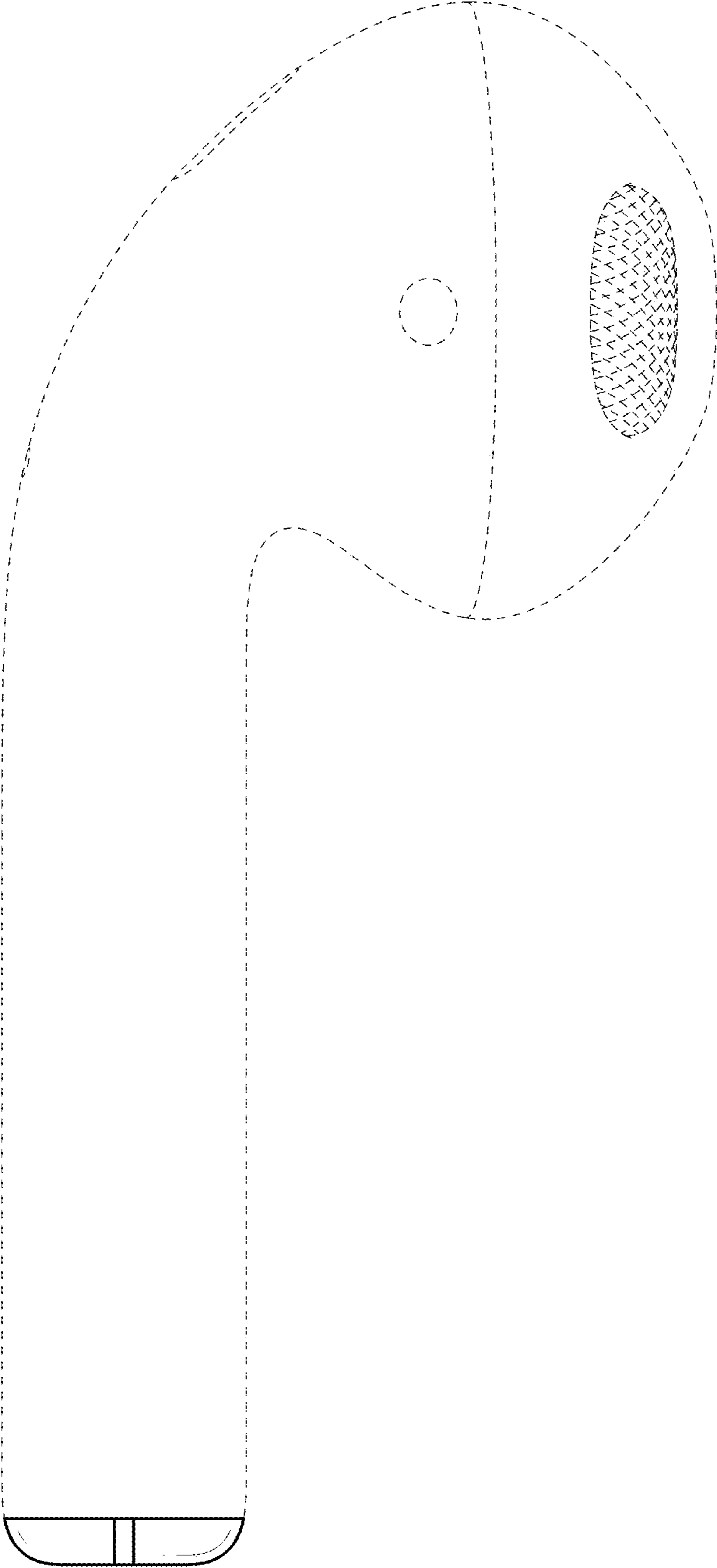


FIG. 5

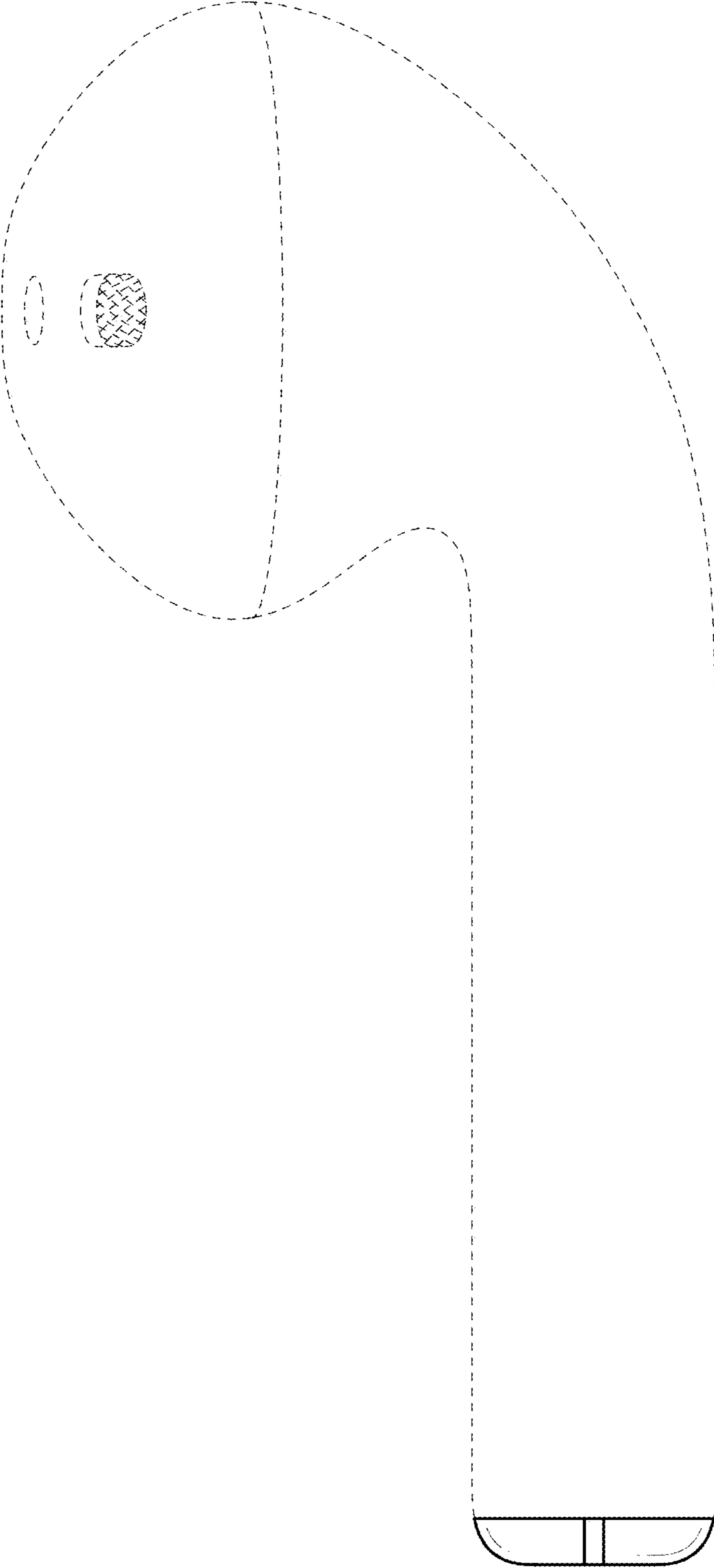


FIG. 6

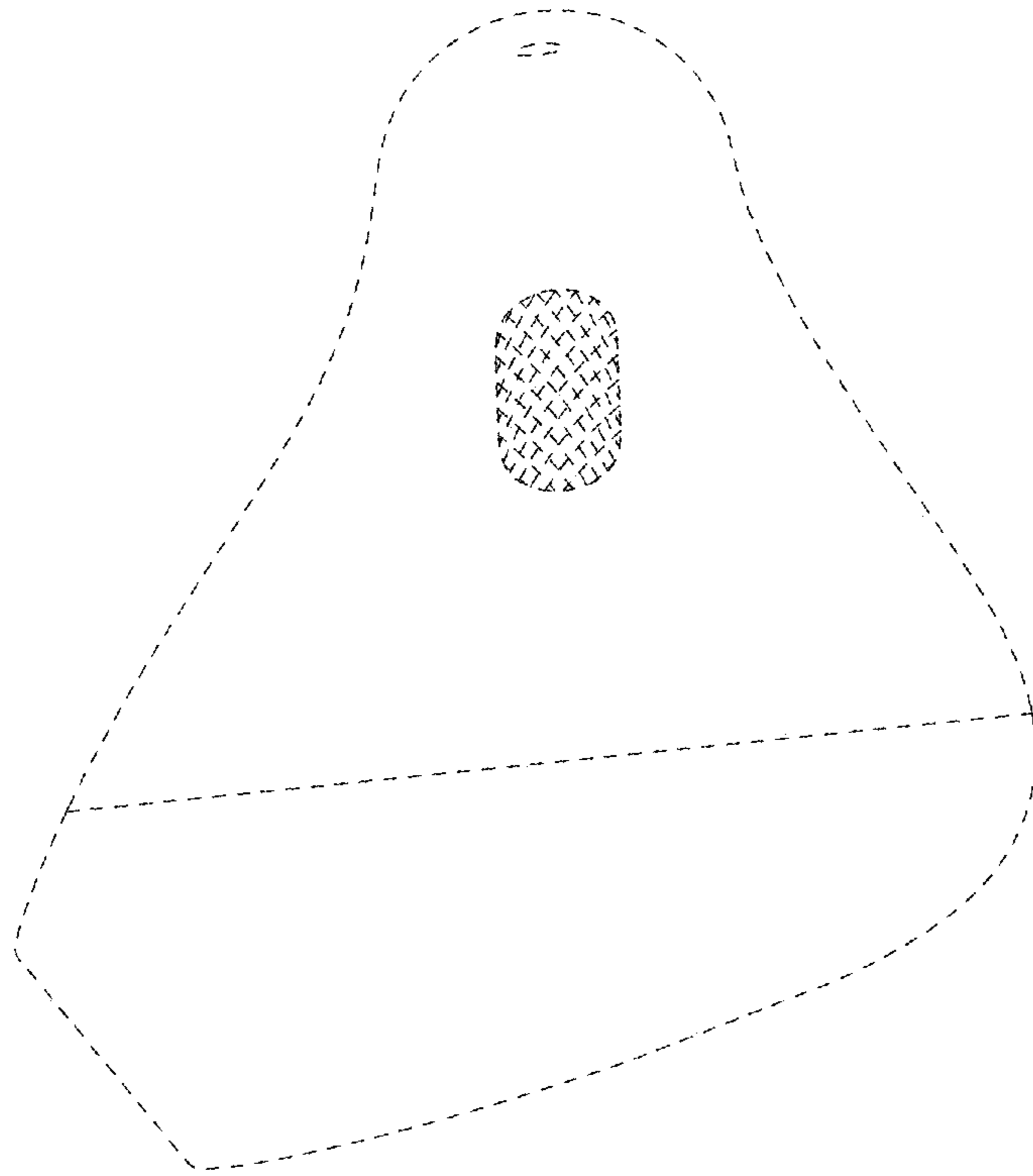


FIG. 7

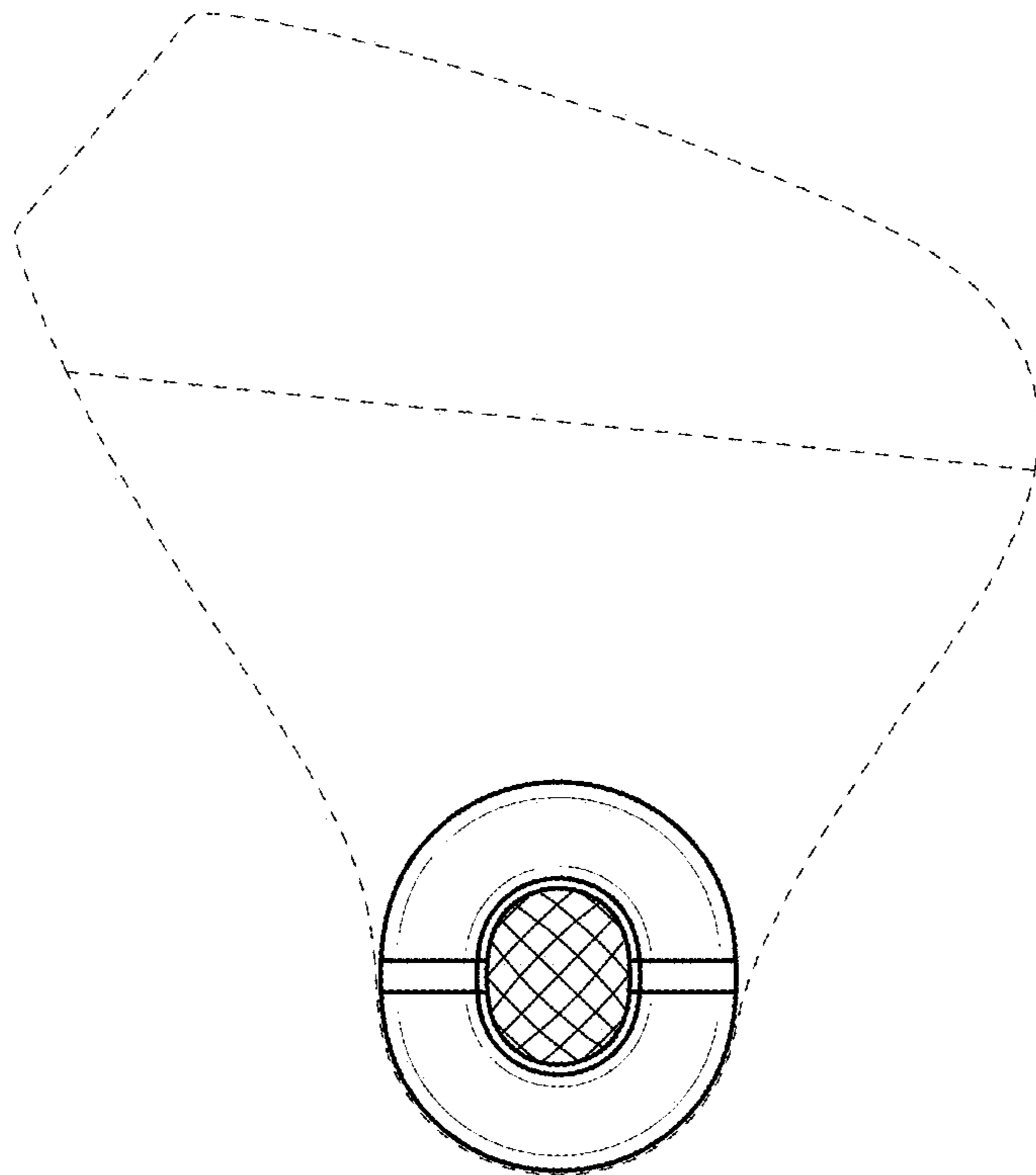


FIG. 8