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**Akana et al.**

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**Related U.S. Application Data**

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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**

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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

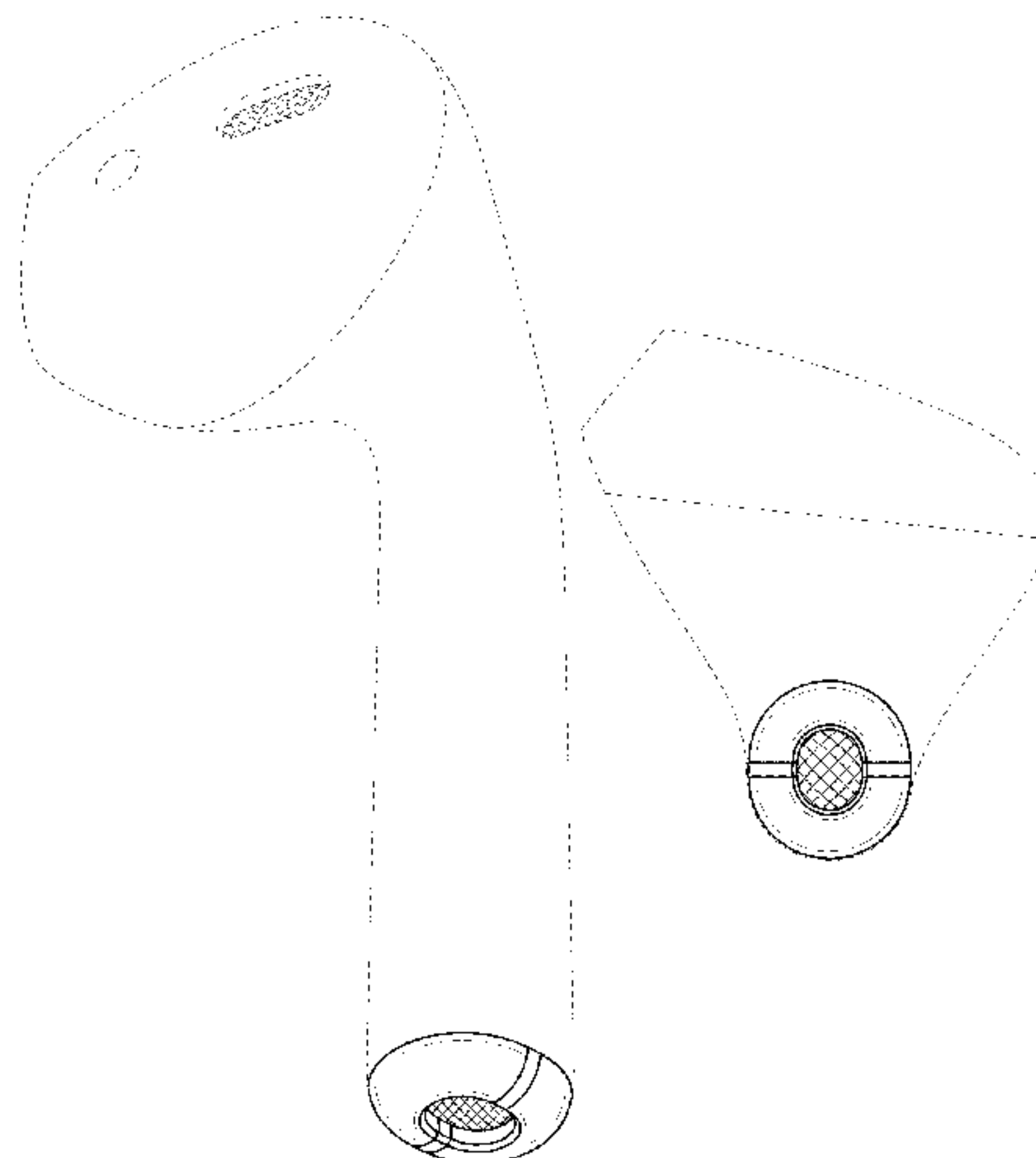
CPC ..... H04R 1/10; H04R 25/00; H04R 25/02; H04R 1/1066; H04R 1/1016; H04R 5/0335; H04R 5/033; H04R 1/105; H04R 1/1091; H04R 1/20

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](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

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(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**

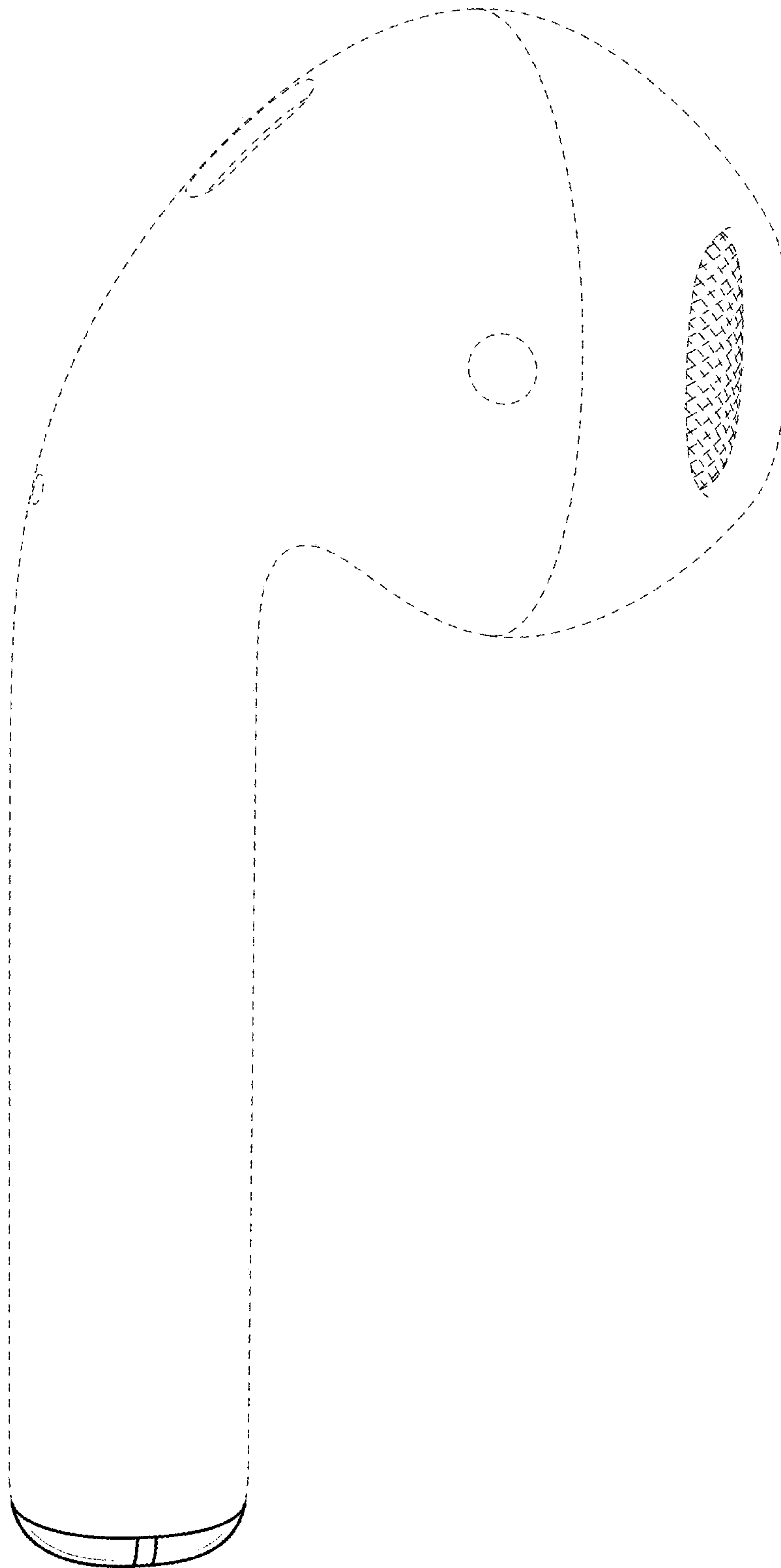


FIG. 1

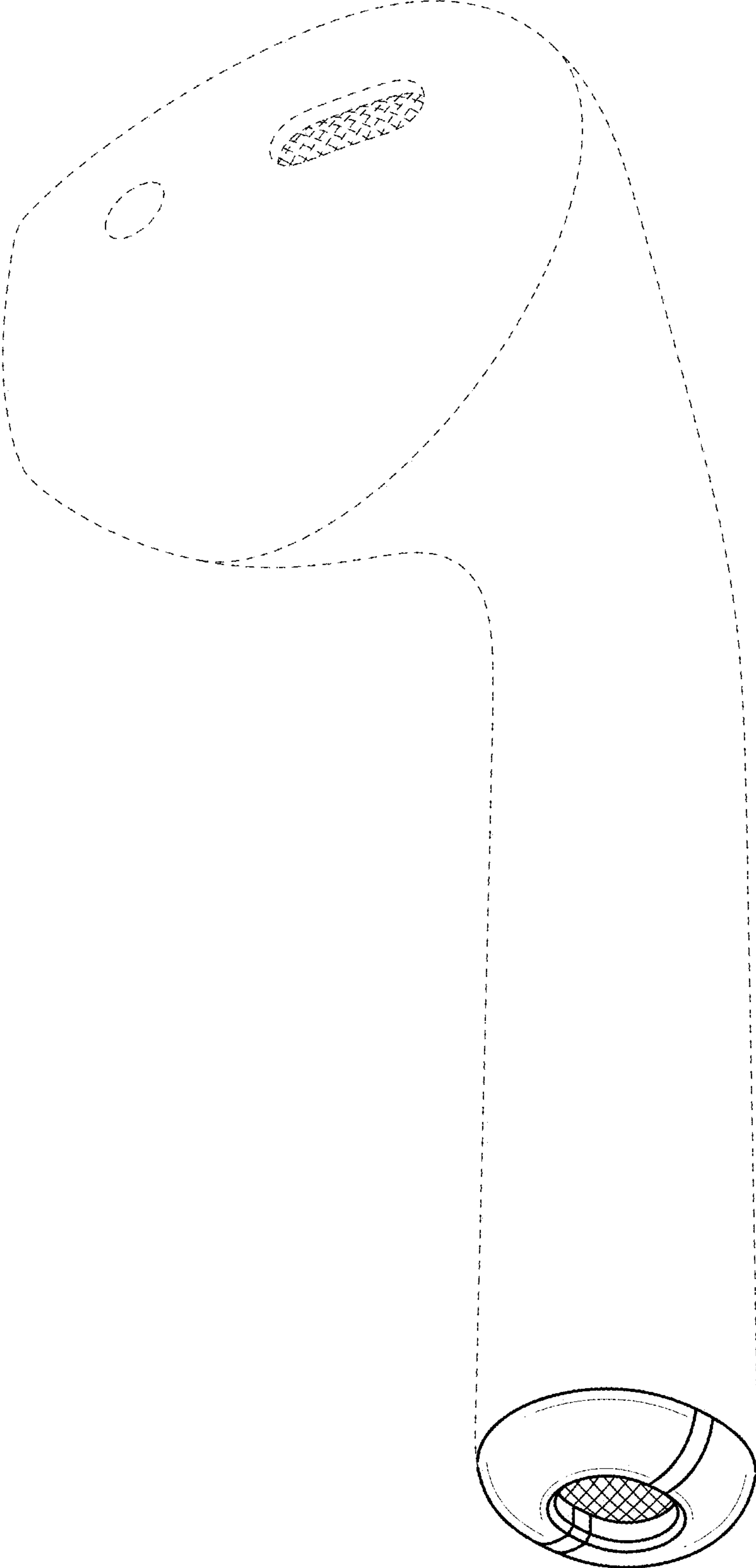


FIG. 2

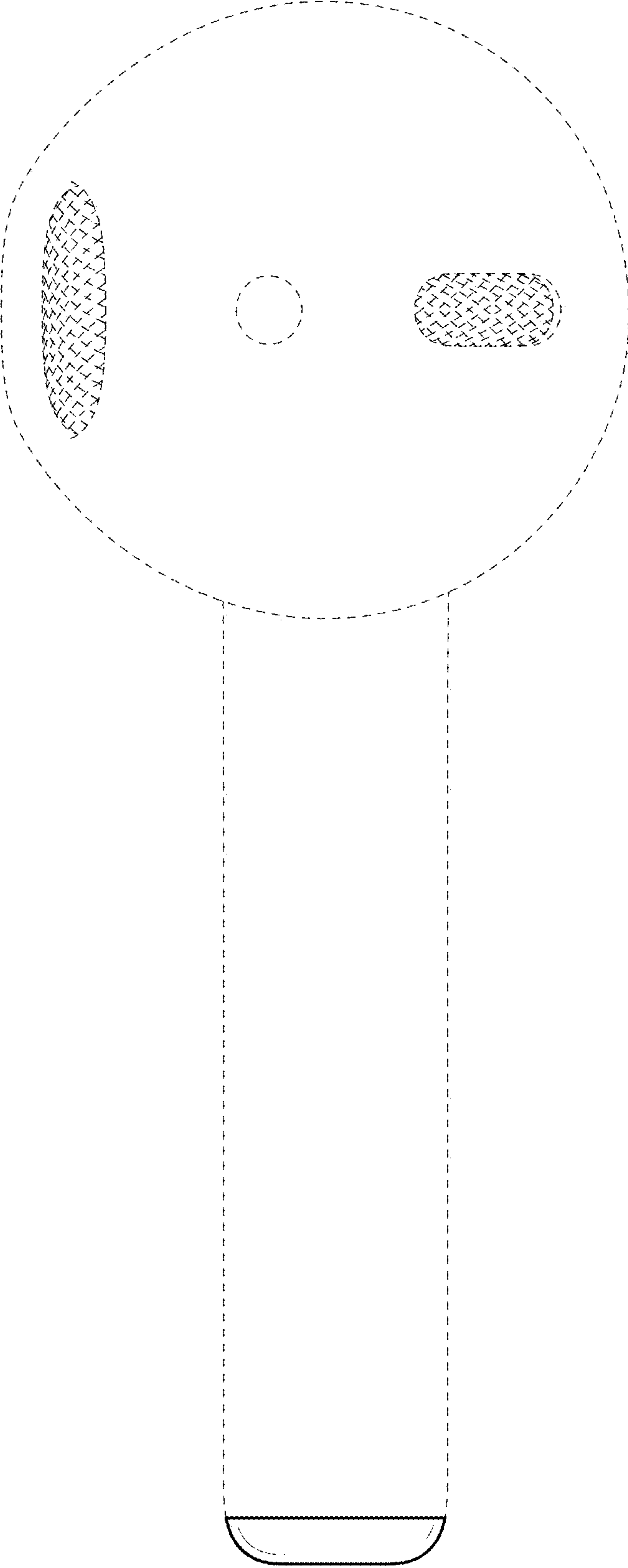
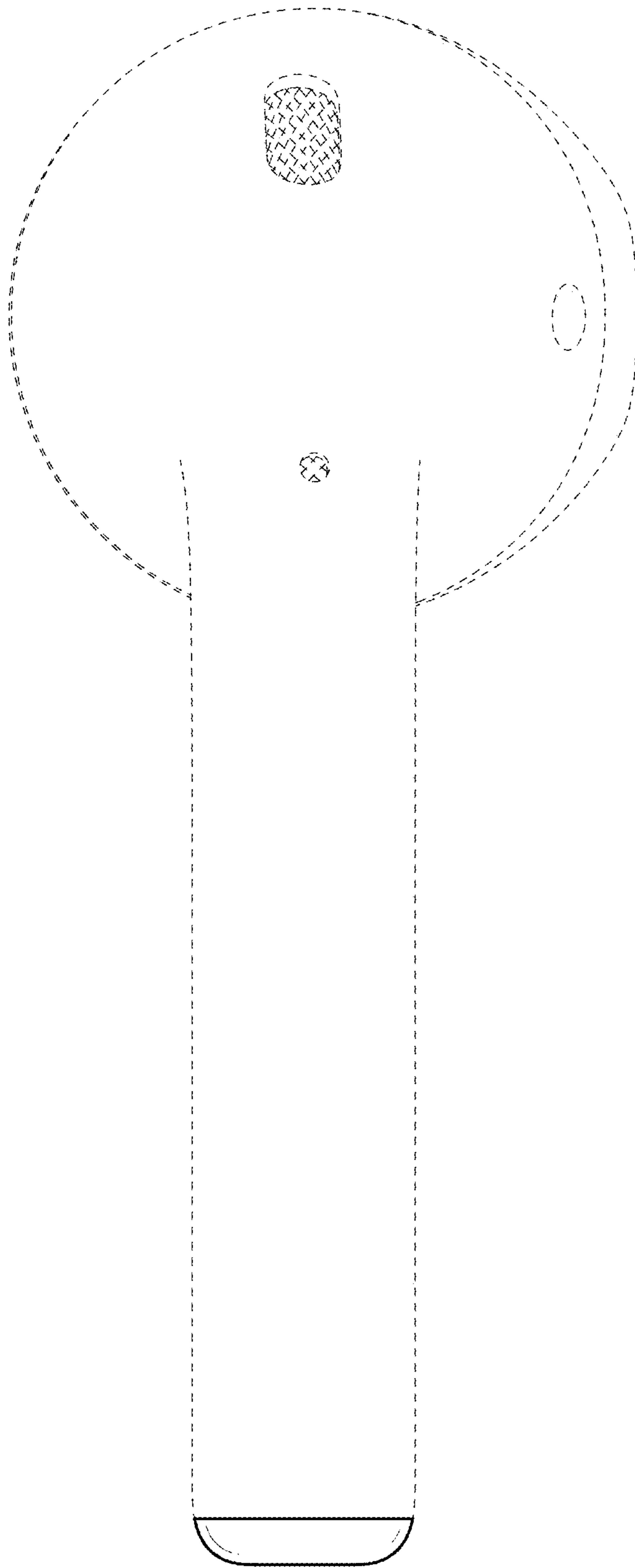
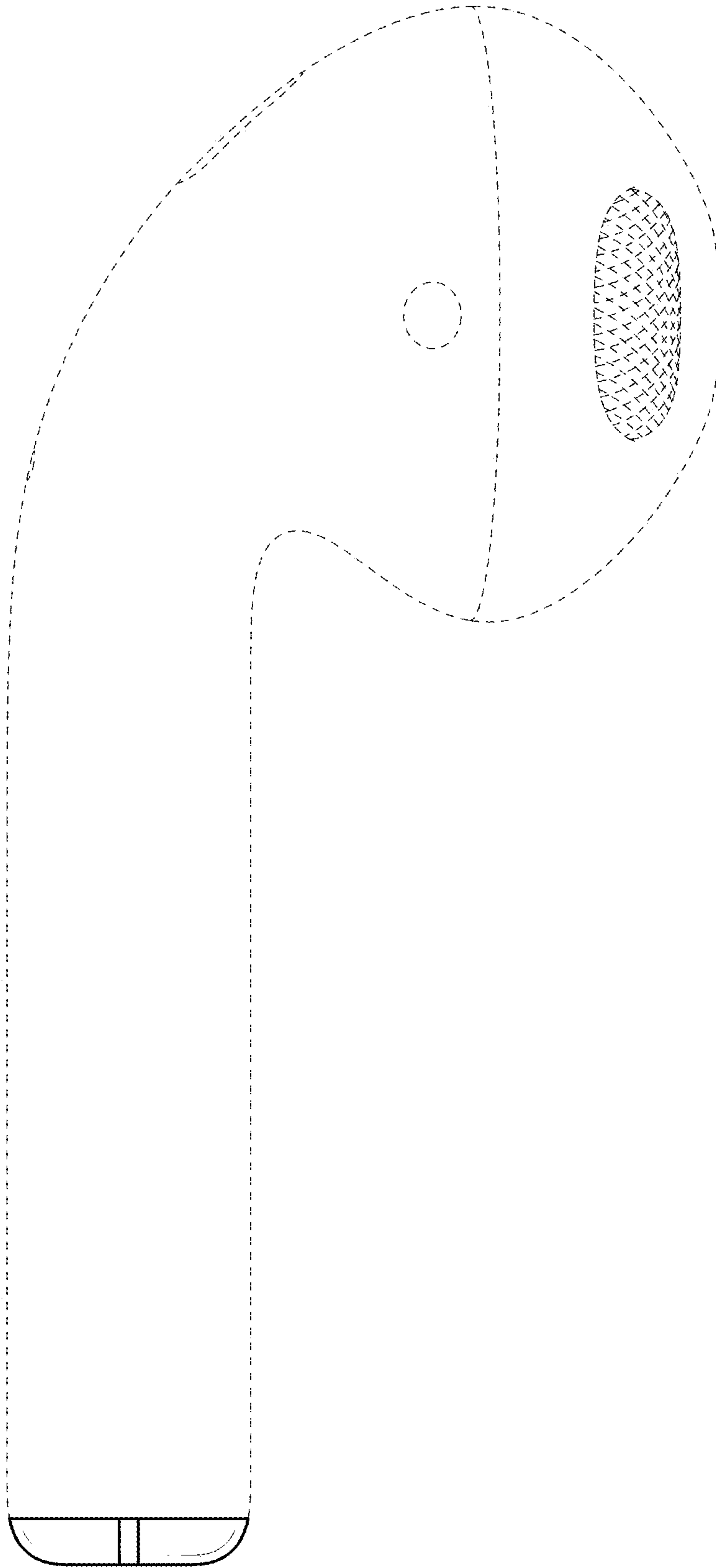


FIG. 3



**FIG. 4**



**FIG. 5**



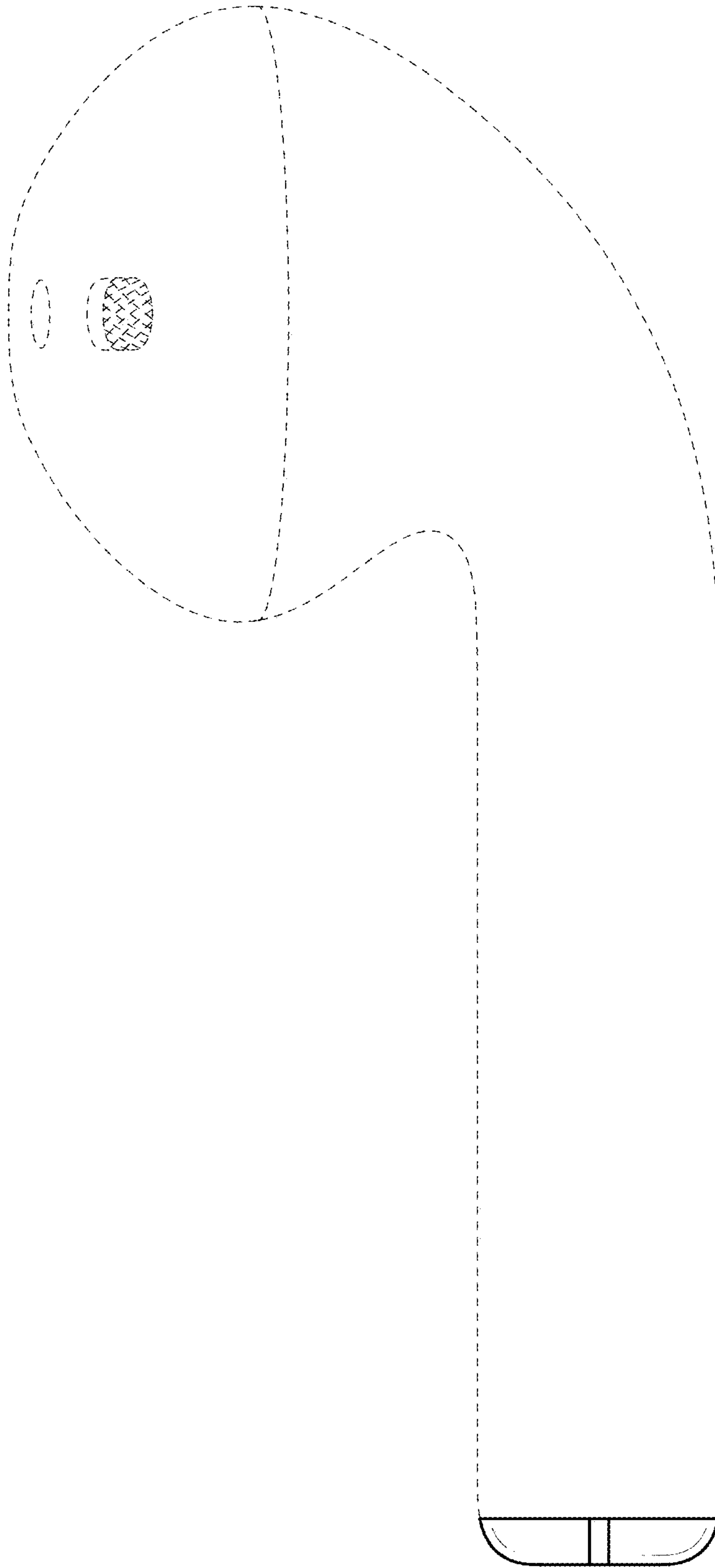


FIG. 6

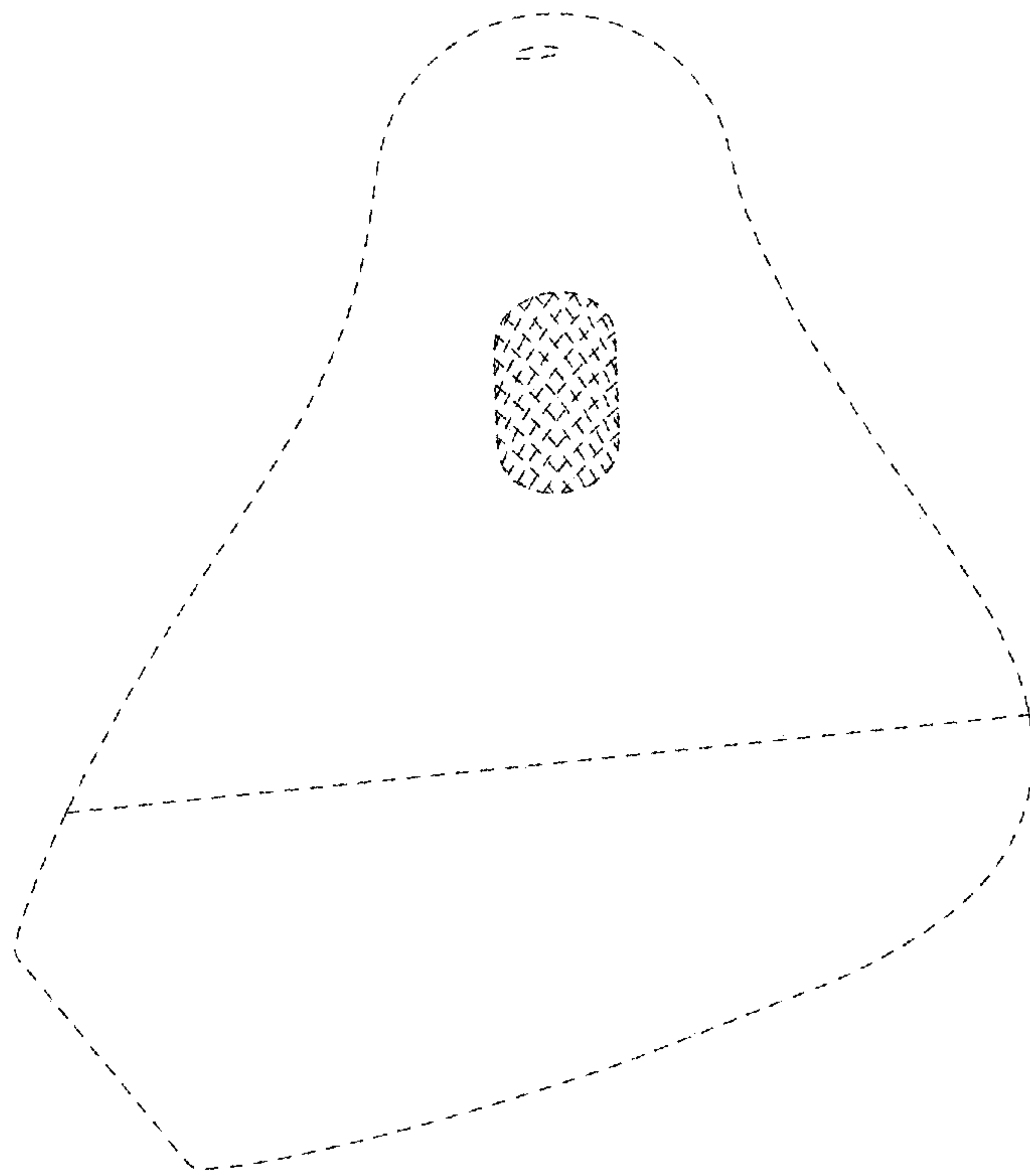


FIG. 7

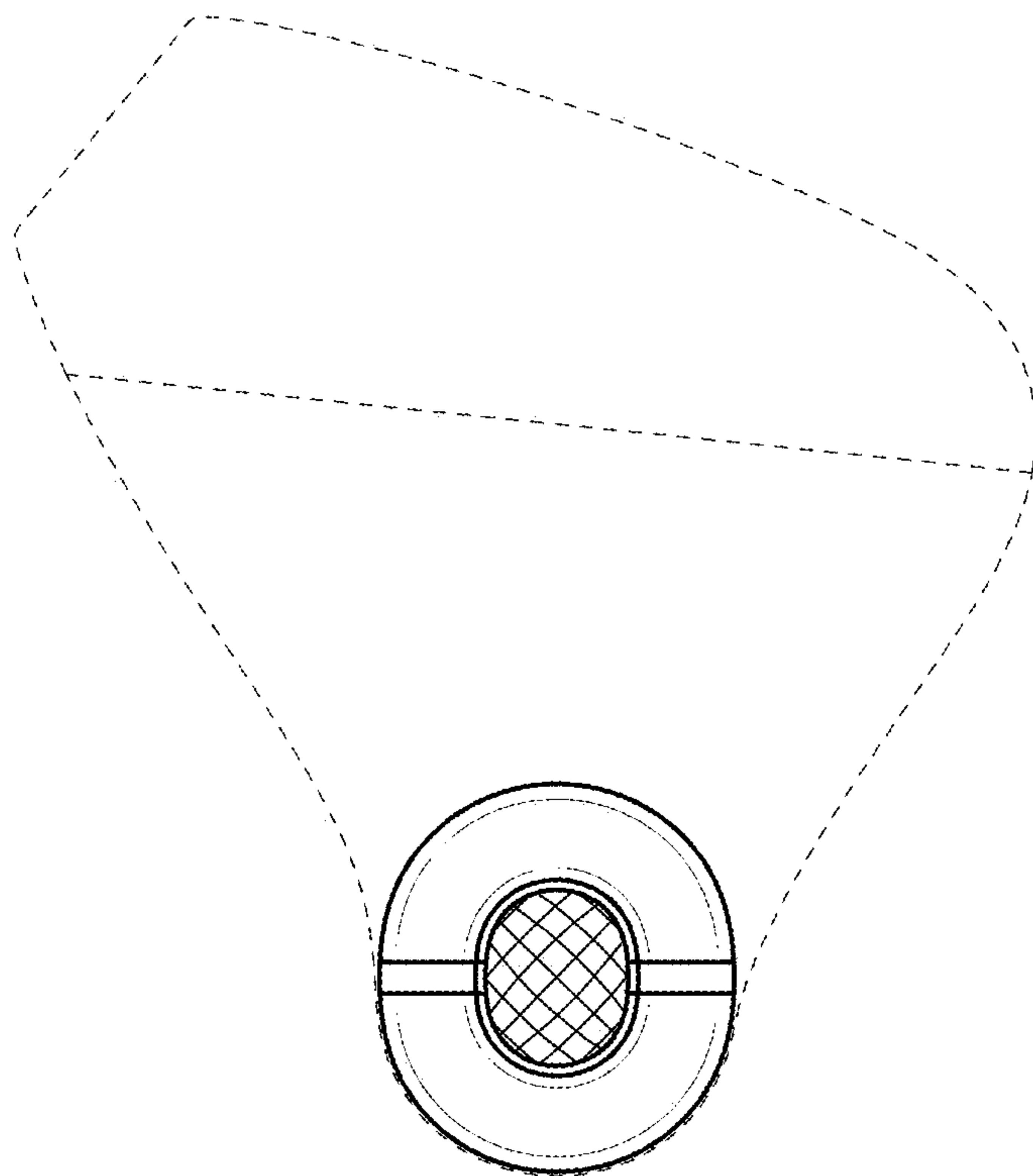


FIG. 8