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(54) **EARPHONE**

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

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

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USPC D14/223, 205; D24/174; D13/108; 128/864, 865, 866; 320/116; 381/380, 381/381; 455/90.3, 575.1, 569.1

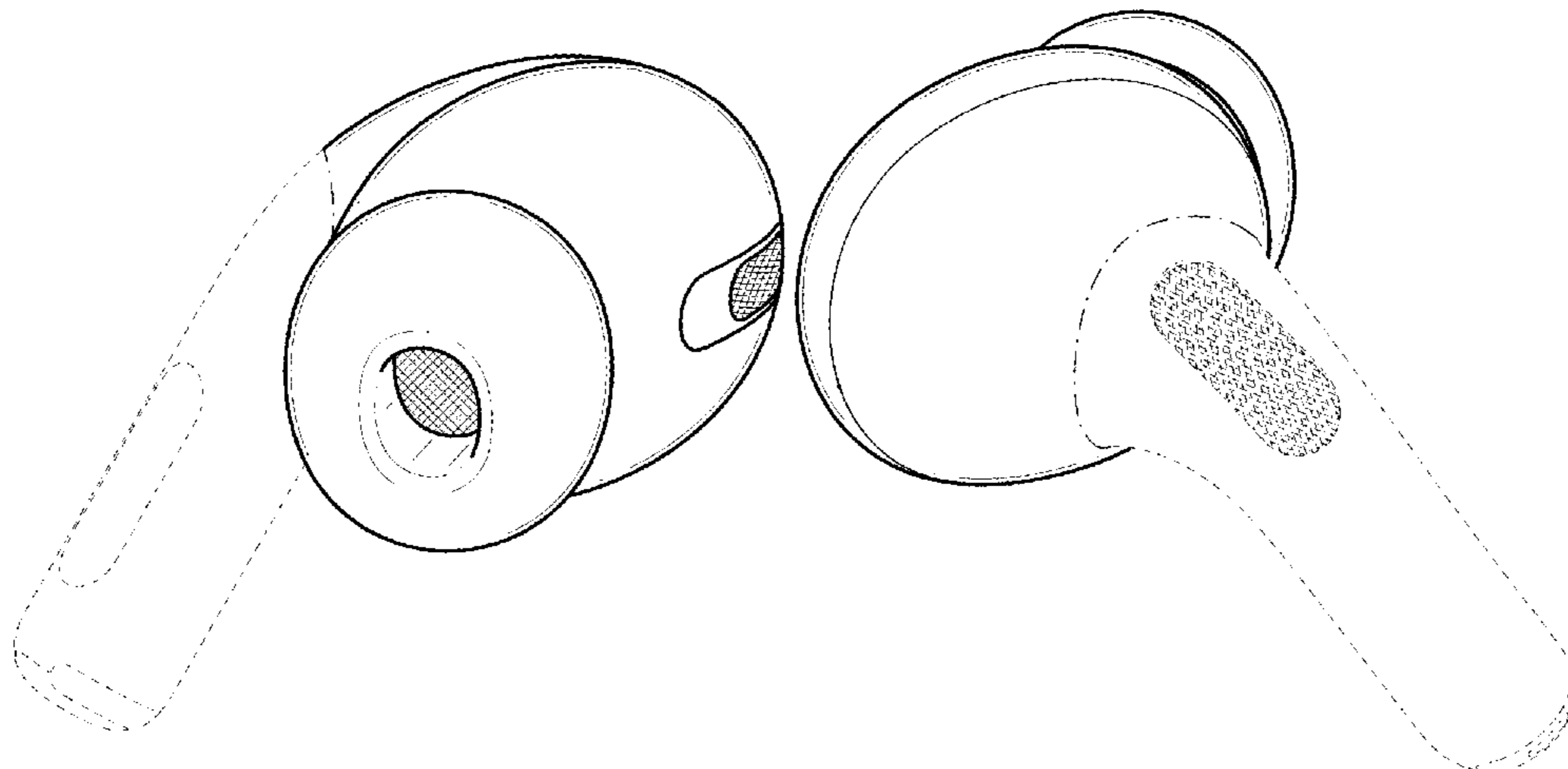
CPC . H04R 1/10; H04R 1/02; H04R 25/00; H04R 25/02; H04R 1/1016; H04R 1/1066; H04R 5/033; H04R 5/0335; H04R 1/1058; H04R 1/1091; H02J 7/02

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
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
4,965,838 A	10/1990	Kamon et al.
D331,057 S	11/1992	Isonaga
D337,118 S	7/1993	Seikita
D344,800 S	3/1994	Lamby
D353,379 S	12/1994	Nakamura et al.
5,420,935 A	5/1995	Shinohara et al.
D410,079 S	5/1999	Falco et al.
6,122,369 A	9/2000	Hwang et al.
D469,753 S	2/2003	Andre et al.
6,690,807 B1	2/2004	Meyer
D488,460 S	4/2004	Alwicker et al.
6,731,772 B1	5/2004	Byun
D499,397 S	12/2004	Hlas et al.
D505,132 S	5/2005	Linville et al.
D506,744 S	6/2005	Andre et al.
D515,070 S	2/2006	Andre et al.
D523,846 S	6/2006	Lee
D533,868 S	12/2006	Koizumi
D554,109 S	10/2007	Ledbetter et al.
D557,689 S	12/2007	Huang
D566,687 S	4/2008	Duarte et al.
D568,291 S	5/2008	Andre et al.
D573,977 S	7/2008	Ledbetter et al.
D575,269 S	8/2008	Ledbetter et al.
D578,518 S	10/2008	Ewert
D579,923 S	11/2008	Andre et al.
D587,677 S	3/2009	Andre et al.
D589,491 S	3/2009	Andre et al.
D589,498 S	3/2009	Komiyama
D590,375 S	4/2009	Komiyama



D593,537 S	6/2009	Arimoto	2010/0246879 A1*	9/2010	Siahaan	H04R 1/1058
D596,616 S	7/2009	Andre et al.				381/380
D599,330 S	9/2009	Andre et al.	2011/0051978 A1*	3/2011	Chen	H04R 1/12
D601,134 S	9/2009	Elabidi et al.				381/380
D616,874 S	6/2010	Matsuoka	2012/0003937 A1*	1/2012	Zhong	H04R 1/1091
D618,209 S	6/2010	Andre et al.				455/41.3
D618,210 S	6/2010	Andre et al.	2012/0155692 A1	6/2012	Chen	
D618,219 S	6/2010	Burgett et al.	2012/0237074 A1	9/2012	Aase	
D622,265 S	8/2010	Rye	2013/0004011 A1	1/2013	Hayashida et al.	
D626,948 S	11/2010	Nault	2013/0010998 A1*	1/2013	Seo	H04R 1/1058
D627,766 S	11/2010	Arimoto				381/380
D628,193 S	11/2010	Zheng	2013/0343594 A1*	12/2013	Howes	H04R 1/1016
D632,282 S	2/2011	Kitayama				381/380
D633,086 S	2/2011	Chen	2013/0343595 A1	12/2013	Zorkendorfer et al.	
D635,960 S	4/2011	Gondo et al.	2017/0026733 A1*	1/2017	Armstrong	H04R 1/1016
D639,279 S	6/2011	Andre et al.	2017/0201821 A1*	7/2017	McAuliffe	H01Q 1/273
D652,823 S	1/2012	Chen	2018/0077481 A1*	3/2018	Kim	H04R 1/1016
D656,481 S	3/2012	McManigal	2020/0068285 A1*	2/2020	Dang	H04R 1/1016
D662,493 S	6/2012	Chen	2020/0107098 A1*	4/2020	DiFonzo	H01F 1/147
D662,495 S	6/2012	Andre et al.	2020/0245049 A1*	7/2020	Karayiannis	H04R 1/1016
D664,523 S	7/2012	Naitou	2020/0275182 A1*	8/2020	Ettensberger	H04R 1/1016
D666,580 S	9/2012	Lee et al.	2020/0282856 A1*	9/2020	Samojeden	B60L 53/64
D669,058 S	10/2012	Lee et al.				
D669,453 S	10/2012	Katsuraku et al.				
D674,781 S	1/2013	Sakata				
D675,194 S	1/2013	Andre et al.				
8,345,912 B2	1/2013	Akihiko et al.				
D676,427 S	2/2013	Yang				
8,391,533 B2*	3/2013	Sim	H04R 1/1041			381/380
D681,015 S	4/2013	Akana et al.				
D687,419 S	8/2013	Andre et al.				
8,515,116 B2	8/2013	Lee				
D691,594 S	10/2013	Akana et al.				
D694,220 S	11/2013	Lee et al.				
D694,249 S	11/2013	Akana et al.				
D706,643 S	6/2014	Akana et al.				
D707,206 S	6/2014	Akana et al.				
8,800,712 B2	8/2014	Campbell et al.				
D712,279 S	9/2014	Akana et al.				
D718,284 S	11/2014	Shibusawa				
D718,285 S	11/2014	Shibusawa				
8,965,030 B2	2/2015	Aase				
D728,533 S	5/2015	Poulsen et al.				
D732,007 S	6/2015	Oksman et al.				
D732,008 S	6/2015	Akana et al.				
D733,101 S	6/2015	Pi et al.				
D733,689 S	7/2015	Narita				
D741,287 S*	10/2015	Harata	D14/205			
D747,295 S	1/2016	Eastwood et al.				
D755,759 S	5/2016	Cai				
D769,849 S	10/2016	Akana et al.				
D801,314 S*	10/2017	Akana	D14/223			
9,961,431 B2*	5/2018	McPeak	H04R 1/1058			
10,003,880 B2*	6/2018	Wagman	A45C 11/00			
D844,588 S	4/2019	Brunner et al.				
D847,125 S*	4/2019	Akana	D14/223			
D847,780 S	5/2019	Brunner et al.				
D849,401 S*	5/2019	Akana	D3/274			
D865,720 S*	11/2019	Deng	D14/223			
D869,445 S*	12/2019	Hu	D14/223			
D883,260 S*	5/2020	Hu	D14/223			
D895,582 S*	9/2020	Wu	D14/223			
D896,206 S*	9/2020	Xu	D14/223			
D896,788 S*	9/2020	Akana	D14/223			
D897,997 S*	10/2020	Zhang	D14/223			
D897,998 S*	10/2020	Ma	D14/223			
D904,351 S*	12/2020	Zhang	D14/223			
D905,018 S*	12/2020	Zhu	D14/223			
D905,019 S*	12/2020	Liu	D14/223			
D906,297 S	12/2020	Akana et al.				
D907,009 S*	1/2021	Akana	D14/223			
D907,010 S*	1/2021	Akana	D14/223			
D909,347 S*	2/2021	Akana	D14/223			

FOREIGN PATENT DOCUMENTS

EM	007742713-0001	*	9/2019
EM	007742713-0011	*	9/2019
EM	007742713-0012	*	9/2019
EM	007742713-0014	*	9/2019
GB	6085034	*	9/2019

OTHER PUBLICATIONS

“iBlink WLP3 Earbuds—100Hz-10kHz, Noise Isolation, 3.5mm Jack, LED Light (Pink), White,” TigerDirect.com. Available at least as early as Sep. 20, 2019. Accessed at: http://www.tigerdirect.com/applications/SearchTools/item-details.asp?EdpNo=3988300&csid=_61.

* 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 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 dashed broken lines in the figures show portions of the earphone that form no part of the claimed design.
The dot-dash broken lines in the figures show boundaries that form no part of the claimed design.

1 Claim, 4 Drawing Sheets

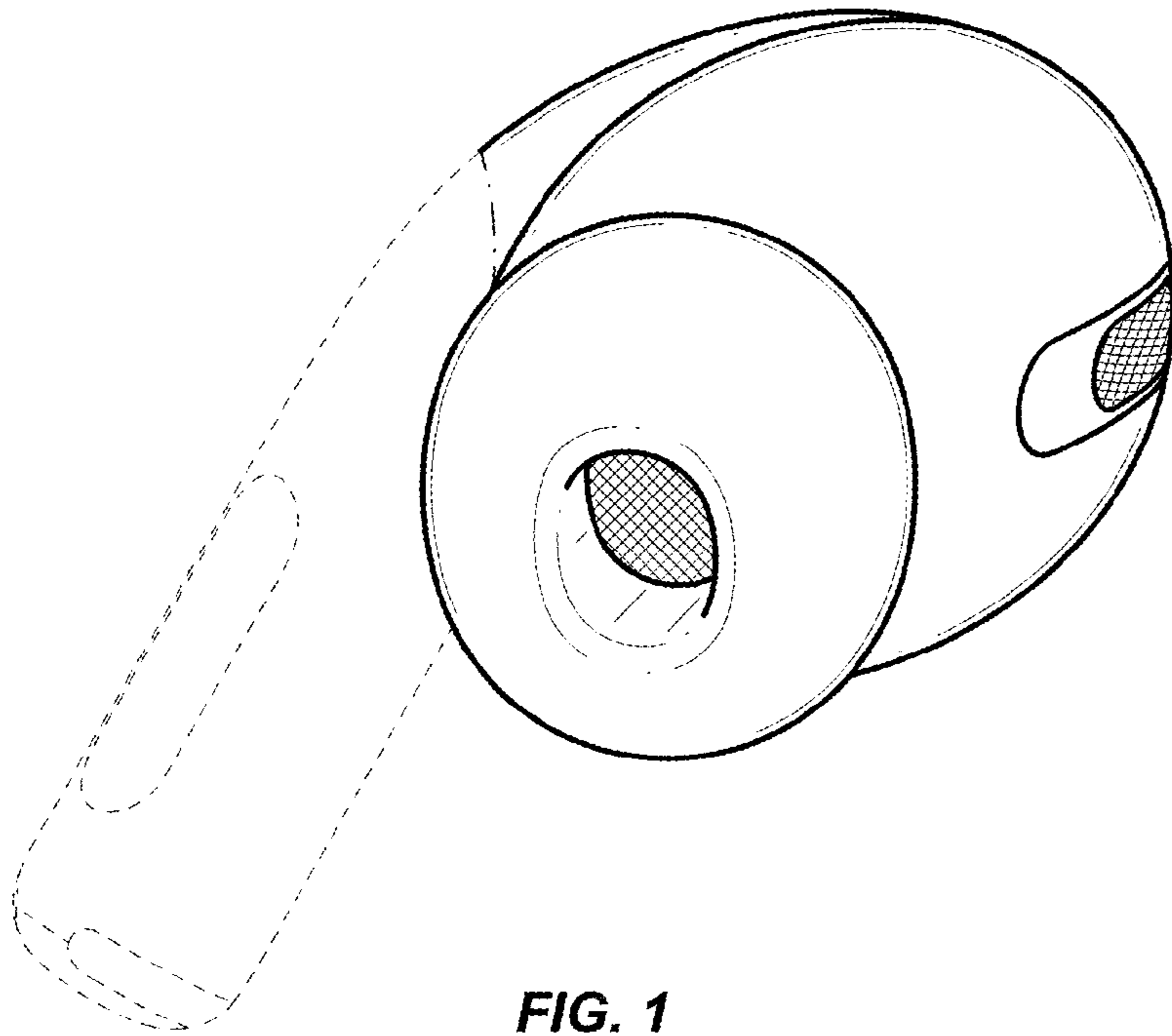


FIG. 1

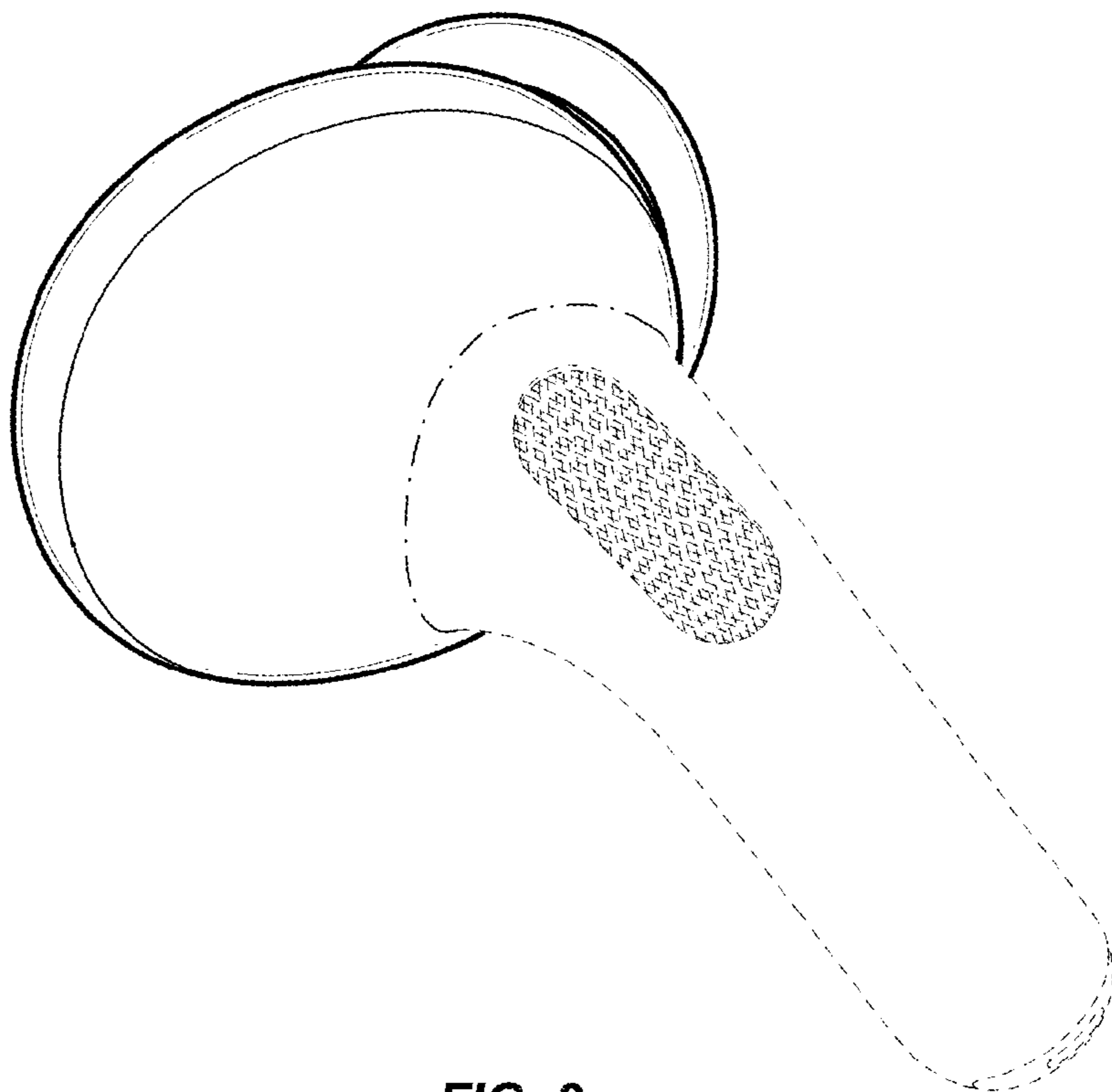


FIG. 2

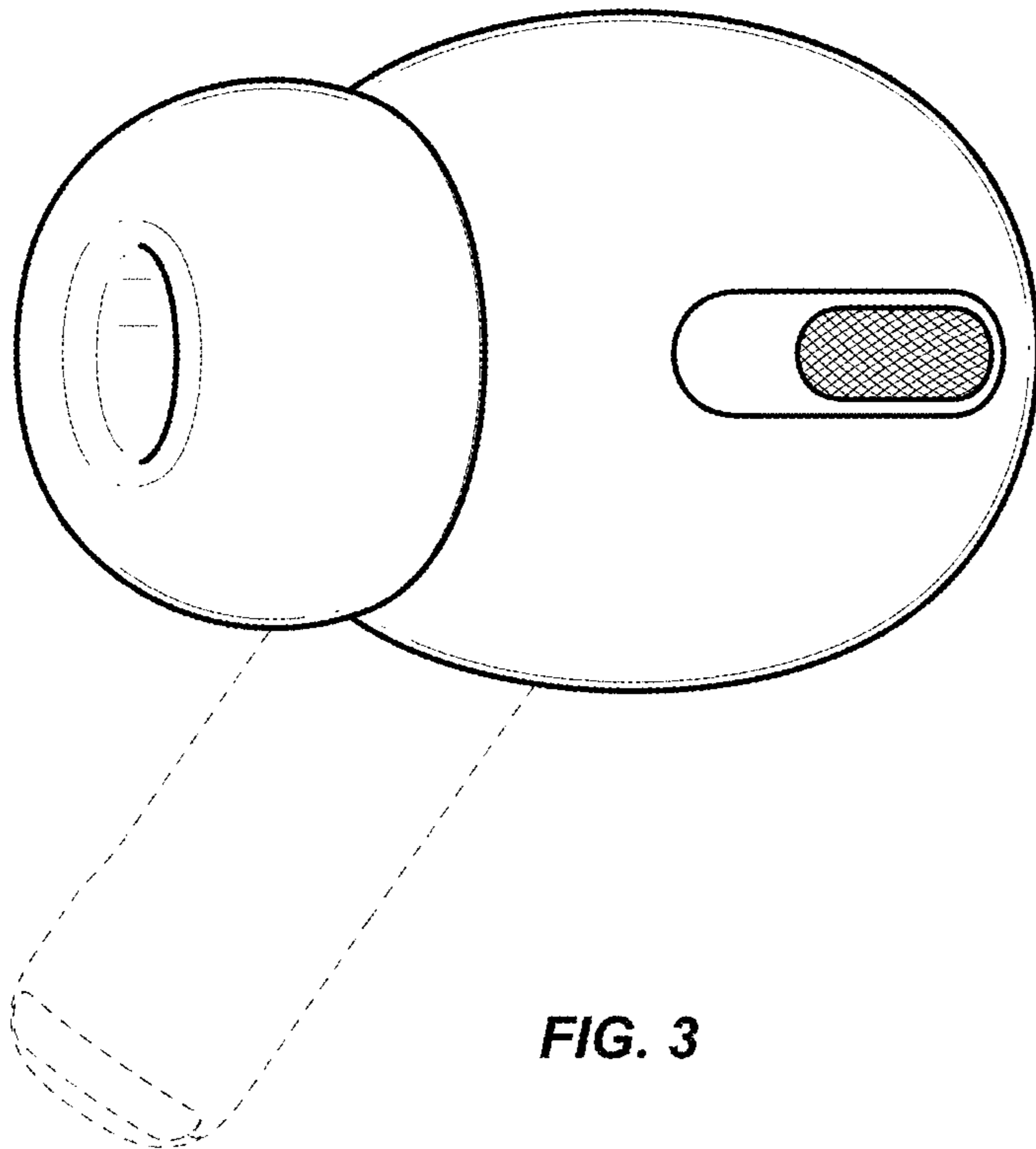


FIG. 3

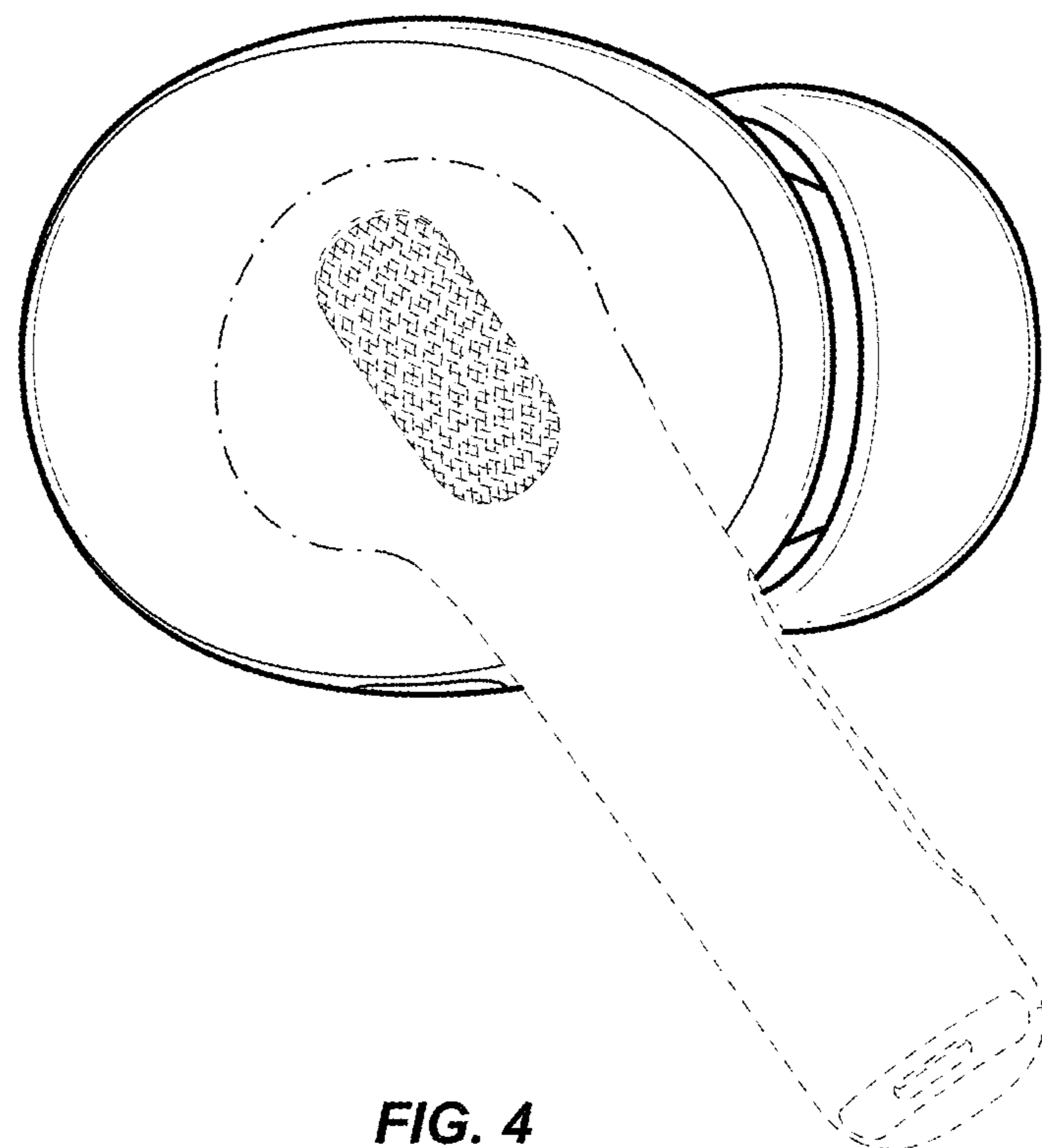
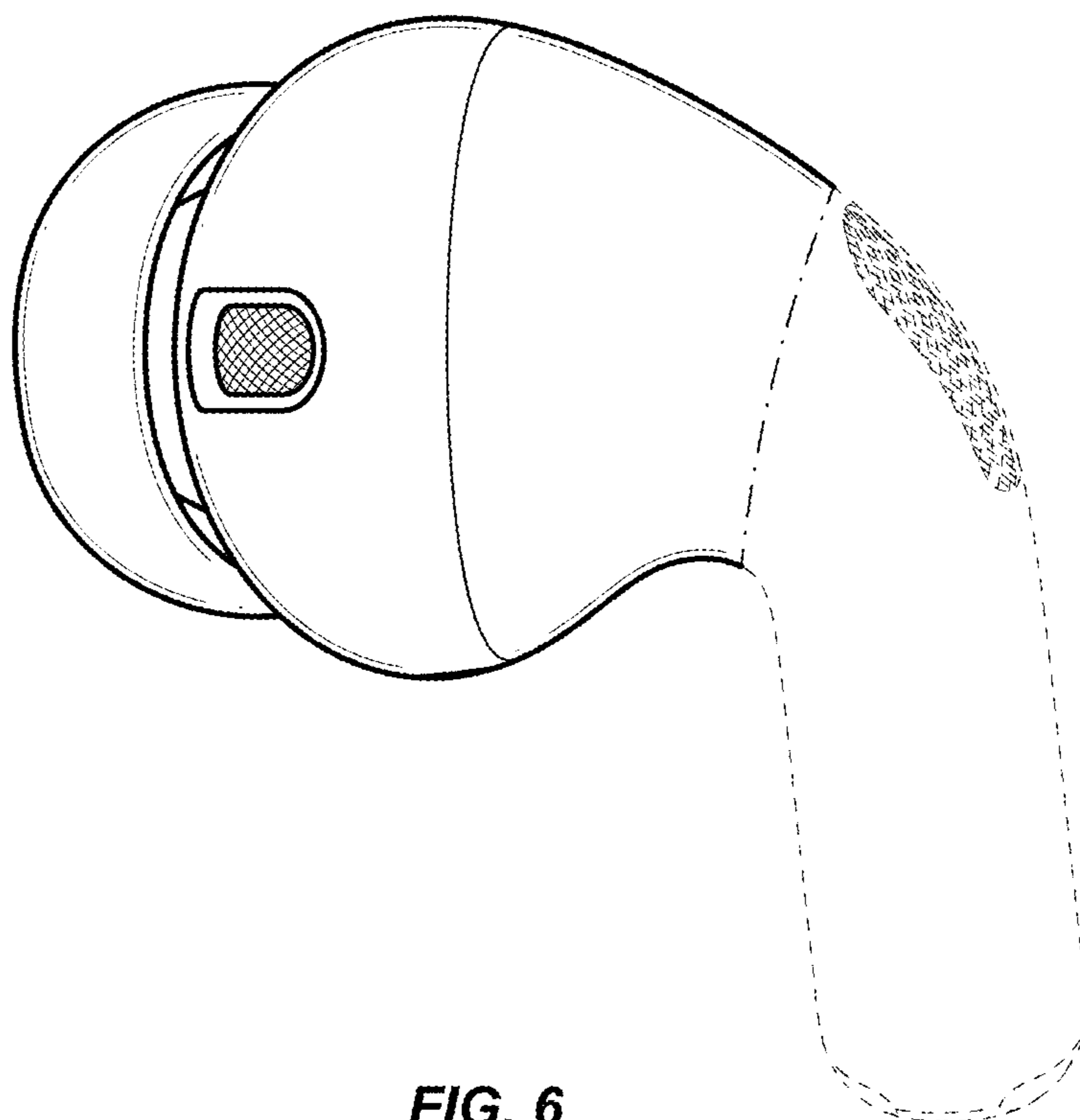
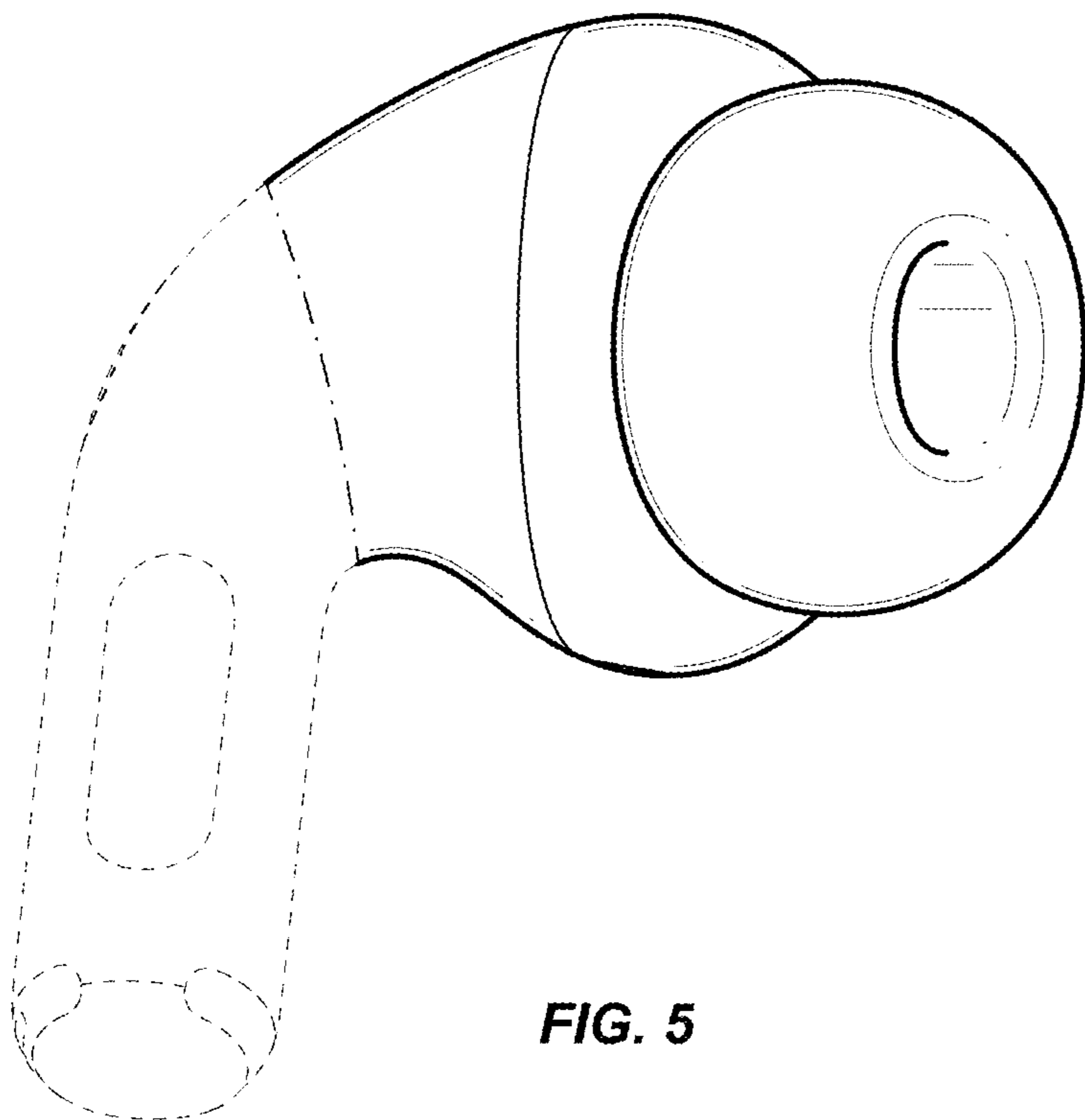


FIG. 4



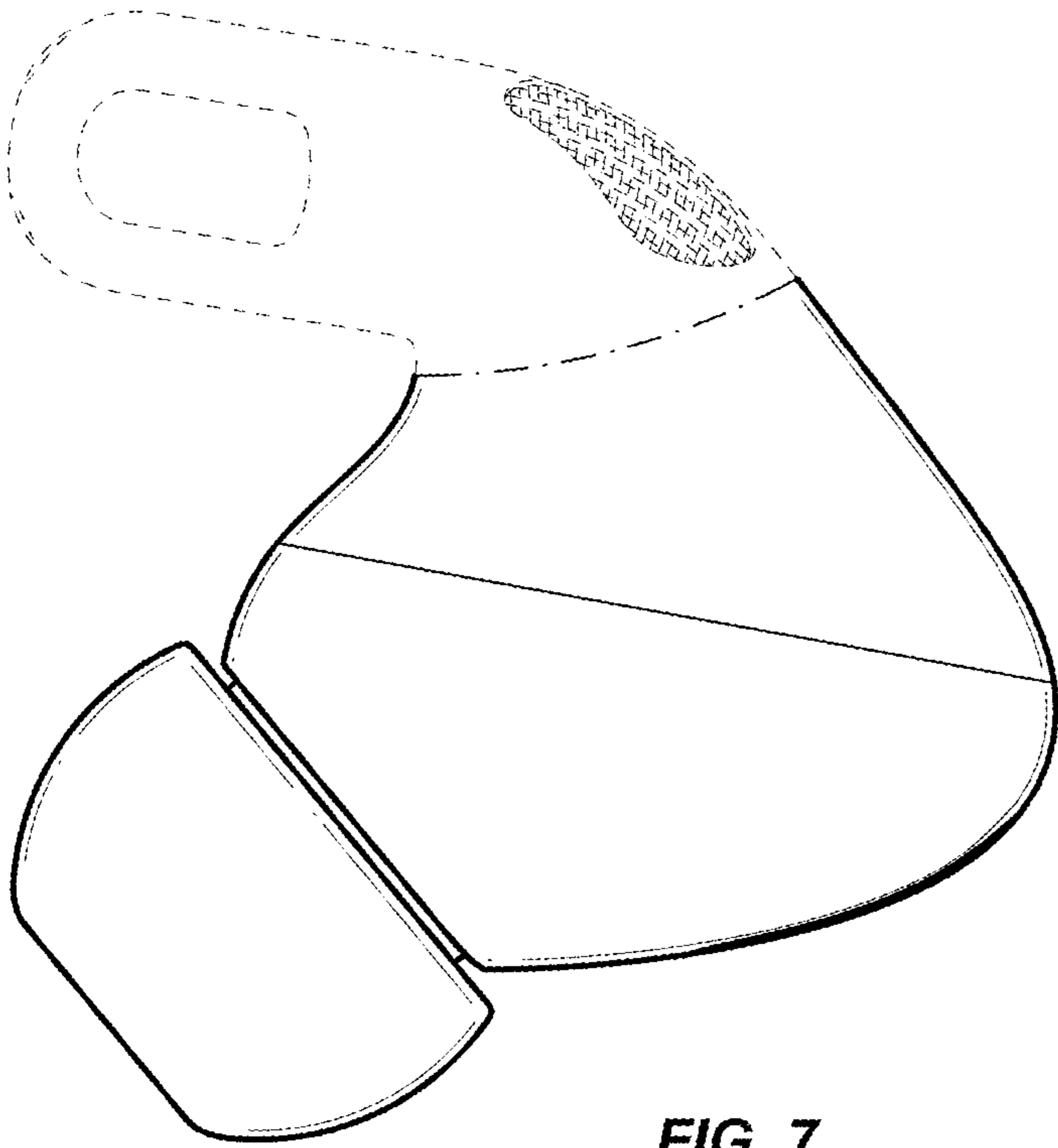


FIG. 7

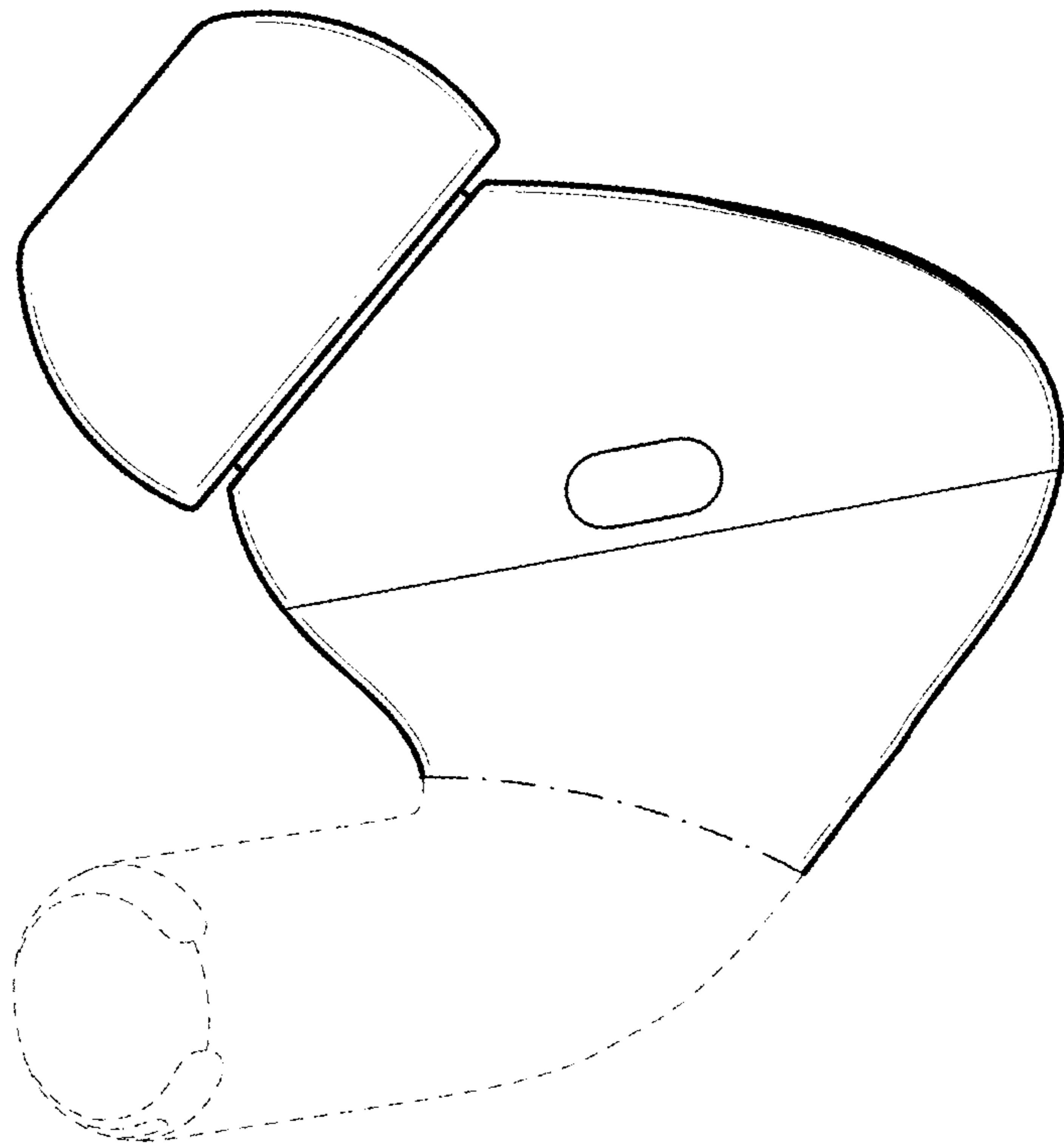


FIG. 8