

US00D864167S

(12) **United States Design Patent**
Wu

(10) **Patent No.:** **US D864,167 S**
(45) **Date of Patent:** **** Oct. 22, 2019**

- (54) **EARPHONE**
- (71) Applicant: **Shenzhen Meilianfa Technology Co., Ltd.**, Shenzhen (CN)
- (72) Inventor: **Yun-Fei Wu**, Shenzhen (CN)
- (73) Assignee: **Shenzhen Meilianfa Technology Co., Ltd.**, Shenzhen (CN)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/655,264**
- (22) Filed: **Jul. 2, 2018**
- (51) **LOC (12) Cl.** **14-01**
- (52) **U.S. Cl.**
USPC **D14/223**
- (58) **Field of Classification Search**
USPC D14/223; D24/174; 128/864, 865, 866;
181/129, 130, 135; 379/430, 431;
381/380, 381, 312, 322, 328, 371;
455/90.3
CPC H04R 1/10; H04R 25/00; H04R 25/02;
H04R 1/1066; H04R 1/1016; H04R
5/033; H04R 5/0335; H04R 1/1091;
H04R 1/1083; A61F 11/06
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,047,089 A * 7/1962 Zwislocki A61F 11/08
181/135
- 3,440,365 A * 4/1969 Hazell H04M 1/05
379/430
- 3,457,375 A * 7/1969 Haggerty H04R 25/456
381/322
- 3,730,181 A * 5/1973 Fling A61F 11/08
128/868
- 3,821,647 A * 6/1974 Minasian H03D 1/10
455/269

- 4,069,400 A * 1/1978 Johanson H04R 25/60
381/322
- 4,457,396 A * 7/1984 James H04R 1/345
181/129
- 4,539,708 A * 9/1985 Norris H04B 1/088
455/100
- 4,585,089 A * 4/1986 Topholm H04R 25/65
181/135
- 5,054,079 A * 10/1991 Frielingsdorf H04R 1/46
379/430
- D321,881 S * 11/1991 Hopewell D14/192
- D348,066 S * 6/1994 Lucey D14/205
- D417,465 S * 12/1999 Kreitz D14/192

(Continued)

FOREIGN PATENT DOCUMENTS

- CN 305053654 * 3/2019
- EM 004170959-0001 * 8/2017

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — ScienBiziP, P.C.

(57) **CLAIM**

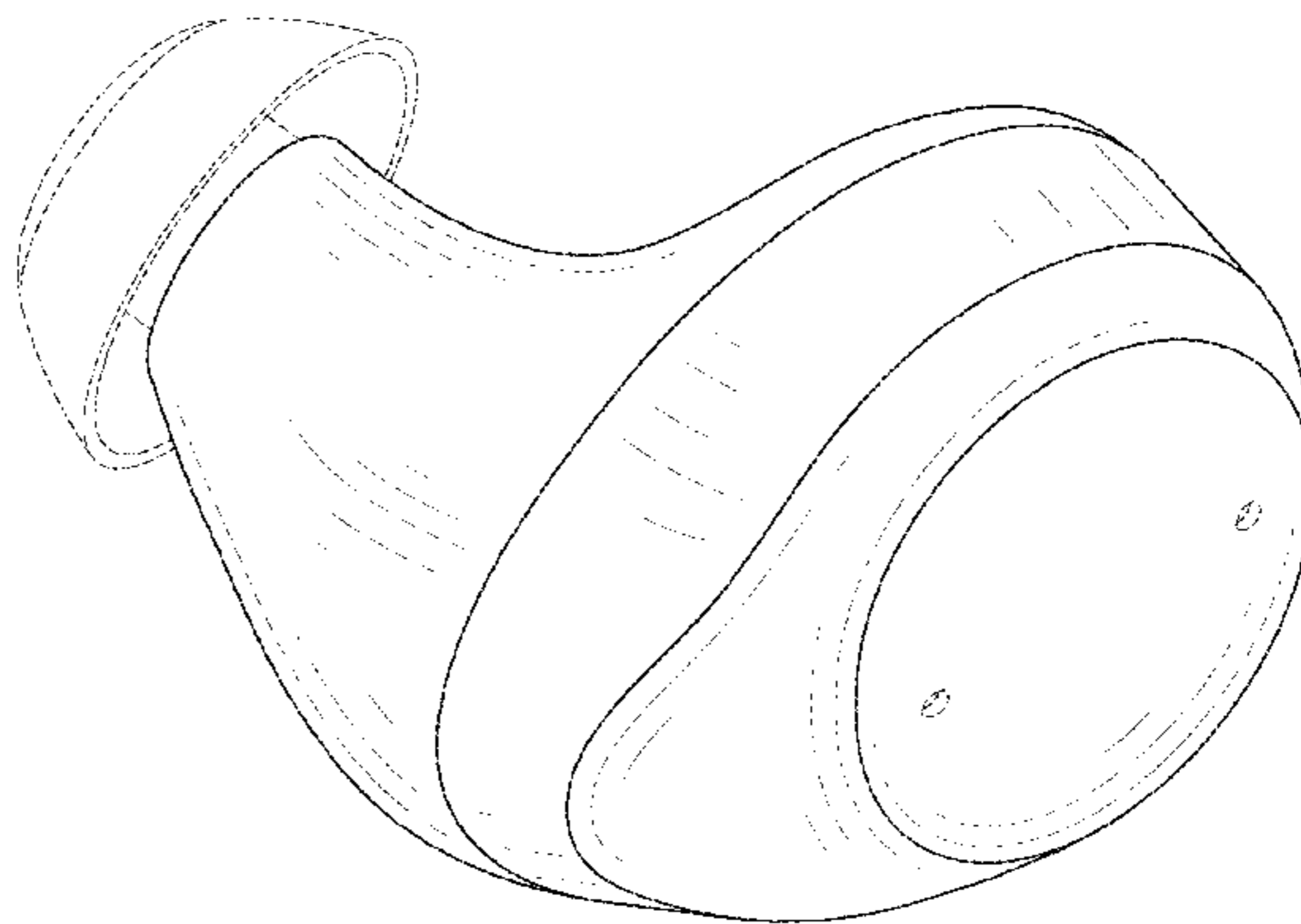
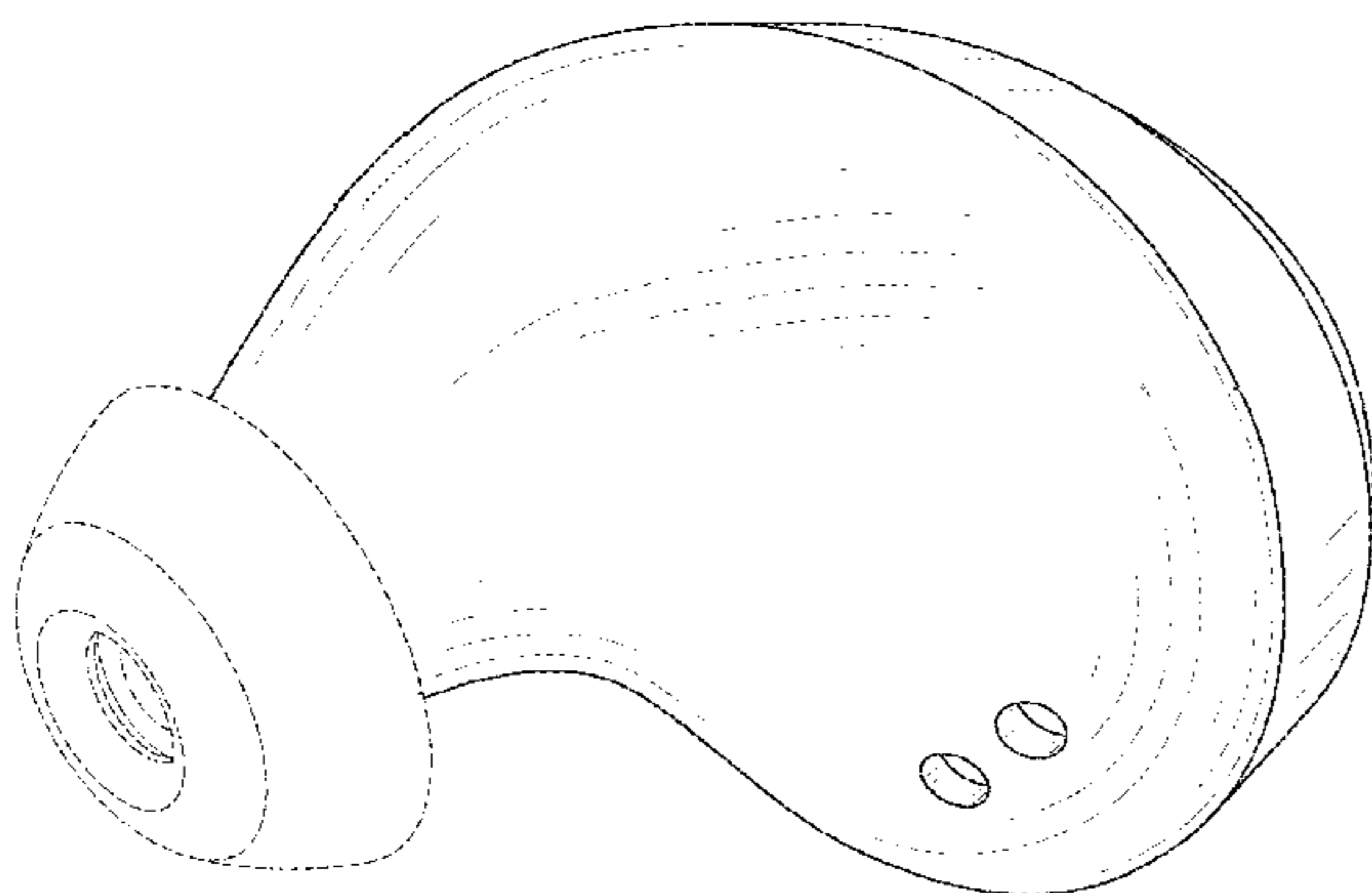
The ornamental design for an earphone, as shown and described.

DESCRIPTION

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

The broken lines immediately adjacent to the claimed portions are boundaries, all other broken lines are environmental structures, and all the broken lines form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,122,388	A *	9/2000	Feldman	.....	H04R 25/604	381/322
D477,593	S *	7/2003	Komiyama	.....	D14/223	
D477,822	S *	7/2003	Komiyama	.....	D14/223	
D481,709	S *	11/2003	Solderits	.....	D14/223	
D505,411	S *	5/2005	Sakai	.....	D14/192	
D519,108	S *	4/2006	Yang	.....	D14/223	
7,120,267	B2 *	10/2006	Ito	.....	H04M 1/05	381/375
D588,111	S *	3/2009	Komiyama	.....	D14/223	
D603,380	S *	11/2009	Hutchieson	.....	D14/223	
D637,997	S *	5/2011	Peller	.....	D14/205	
D637,999	S *	5/2011	Brunner	.....	D14/205	
D641,010	S *	7/2011	Kwon	.....	D14/223	
D652,817	S *	1/2012	Lee	.....	D14/205	
D652,822	S *	1/2012	Lee	.....	D14/223	
D654,056	S *	2/2012	Hoggarth	.....	D14/205	
D666,581	S *	9/2012	Perez	.....	D14/223	
8,275,166	B2 *	9/2012	Wu	.....	H04R 25/00	381/328
D685,764	S *	7/2013	Coulter	.....	D14/205	
8,548,186	B2 *	10/2013	Alwicker	.....	H04R 1/1058	381/371
D699,226	S *	2/2014	Yoon	.....	D14/206	
8,774,434	B2 *	7/2014	Zhao	.....	H04R 25/656	381/328
8,776,801	B2 *	7/2014	McIntosh	.....	A61F 11/08	128/864
D711,356	S *	8/2014	Yang	.....	D14/223	
D719,139	S *	12/2014	Henry	.....	D14/223	
D719,550	S *	12/2014	Yang	.....	D14/223	
D725,082	S *	3/2015	Palmborg	.....	D14/223	
8,983,108	B2 *	3/2015	Ho	.....	H04R 1/1016	181/135
D726,145	S *	4/2015	Hsieh	.....	D14/205	
D727,871	S *	4/2015	Orbach	.....	D14/205	
D728,107	S *	4/2015	Torres Martin	.....	D24/174	
D733,102	S *	6/2015	Palmborg	.....	D14/223	
D733,103	S *	6/2015	Jeong	.....	D14/224	
D735,169	S *	7/2015	Shieh	.....	D14/223	
9,087,506	B1 *	7/2015	Kraft	.....	G10L 21/0232	
9,131,308	B2 *	9/2015	Kraft	.....	G10L 21/0232	
D742,861	S *	11/2015	Miyake	.....	D14/223	
D764,445	S *	8/2016	Czaniecki	.....	D14/223	
D773,032	S *	11/2016	Palmborg	.....	D24/106	
D773,439	S *	12/2016	Walker	.....	D14/205	
D777,710	S *	1/2017	Palmborg	.....	D14/223	
D778,267	S *	2/2017	Hsieh	.....	D14/223	
9,565,491	B2 *	2/2017	Baker	.....	H04R 1/1083	
D781,269	S *	3/2017	Choe	.....	D14/223	
D782,997	S *	4/2017	Shin	.....	D14/205	
D782,998	S *	4/2017	Shin	.....	D14/205	
D788,079	S *	5/2017	Son	.....	D14/223	
D798,843	S *	10/2017	Valenzuela	.....	D14/223	
D800,097	S *	10/2017	Chen	.....	D14/223	
D805,060	S *	12/2017	Loermann	.....	D14/223	
D806,879	S *	1/2018	Horbinski	.....	D24/174	
D810,054	S *	2/2018	Yuan	.....	D14/223	
D812,042	S *	3/2018	Xiao	.....	D14/223	
D813,206	S *	3/2018	Tang	.....	D14/223	
D817,309	S *	5/2018	Czaniecki	.....	D14/223	
D818,990	S *	5/2018	Tzeng	.....	D14/205	
10,178,464	B2 *	1/2019	Hussein	.....	A61F 11/08	
D841,626	S *	2/2019	Tang	.....	D14/223	
D841,627	S *	2/2019	Wen	.....	D14/223	
D843,354	S *	3/2019	Kumano	.....	D14/223	
10,234,133	B2 *	3/2019	Hirsch	.....	F21V 33/0056	
D845,932	S *	4/2019	Lu	.....	D14/223	
D846,532	S *	4/2019	Xiao	.....	D14/223	
D851,072	S *	6/2019	McNamara	.....	D14/223	
D852,782	S *	7/2019	Bergman	.....	D14/223	
D855,589	S *	8/2019	Madsen	.....	D14/223	
2001/0043707	A1 *	11/2001	Leedom	.....	H04R 25/65	381/312
2007/0263896	A1 *	11/2007	Chen	.....	H04R 1/105	381/381
2011/0155147	A1 *	6/2011	McIntosh	.....	A61F 11/08	128/864
2011/0293130	A1 *	12/2011	Huang	.....	H04R 1/1016	381/380
2012/0114160	A1 *	5/2012	Lin	.....	H04R 1/1091	381/380
2013/0259286	A1 *	10/2013	Chung	.....	H04R 1/1016	381/380

* cited by examiner

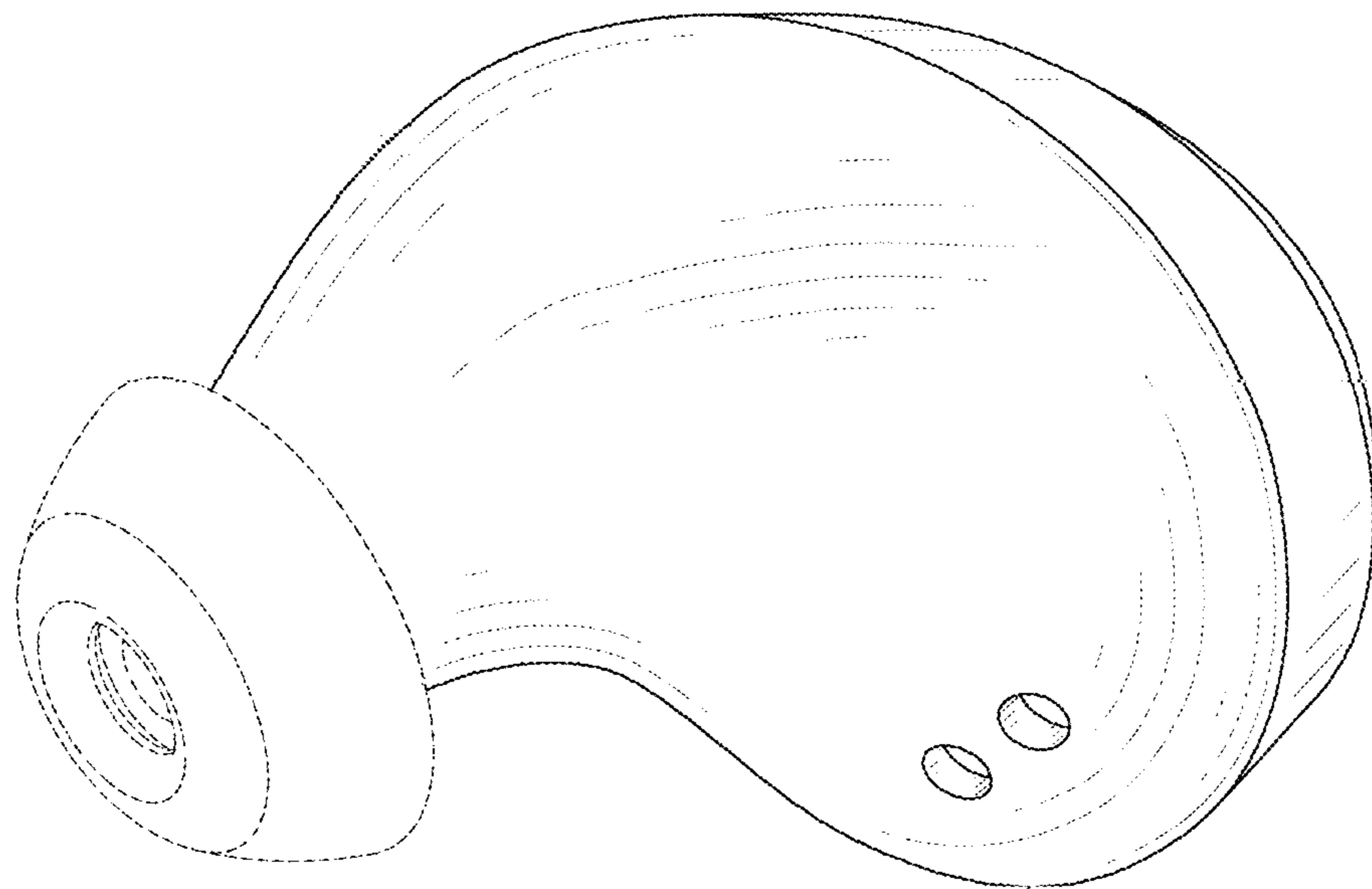


FIG. 1

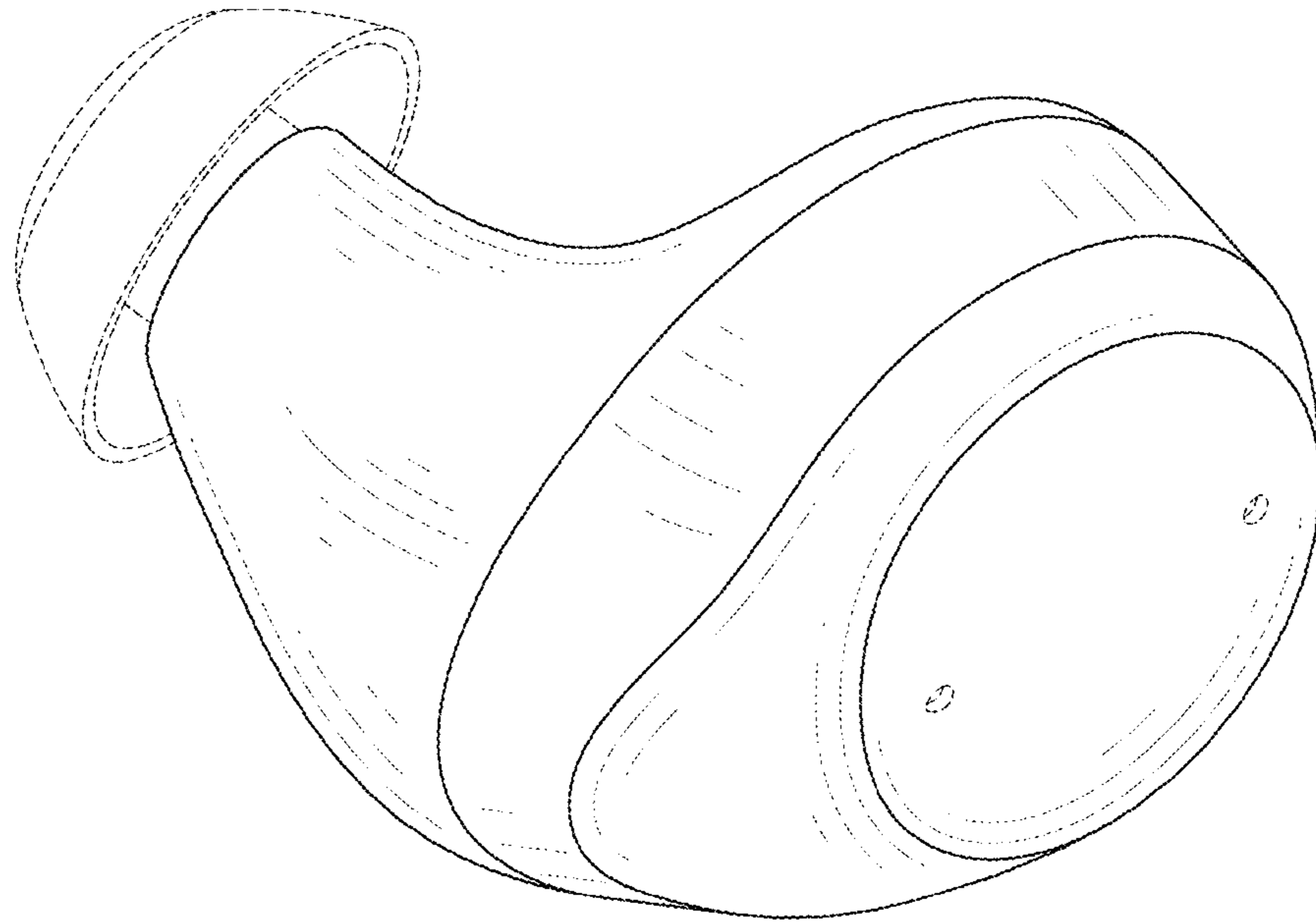


FIG. 2

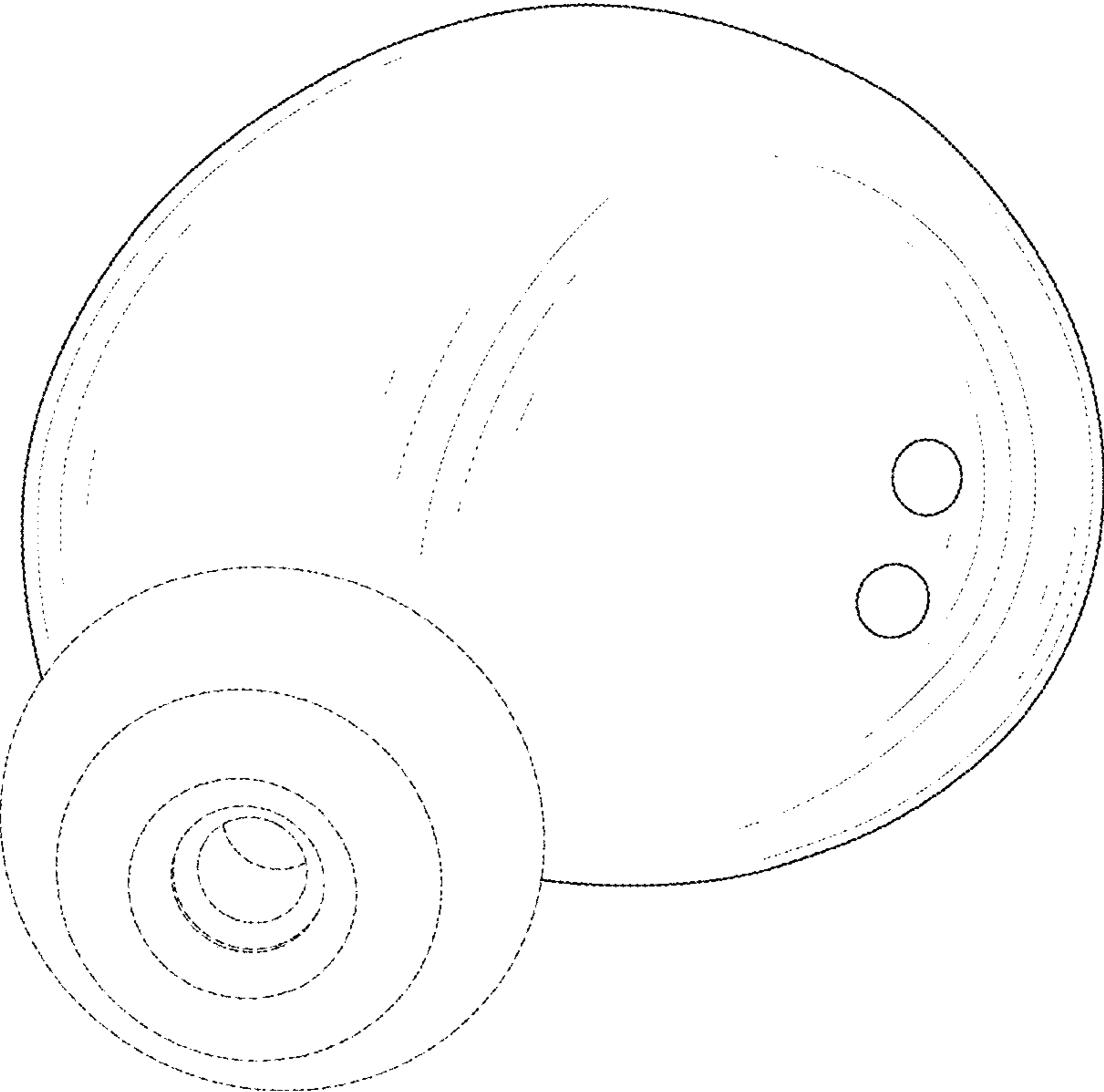


FIG. 3

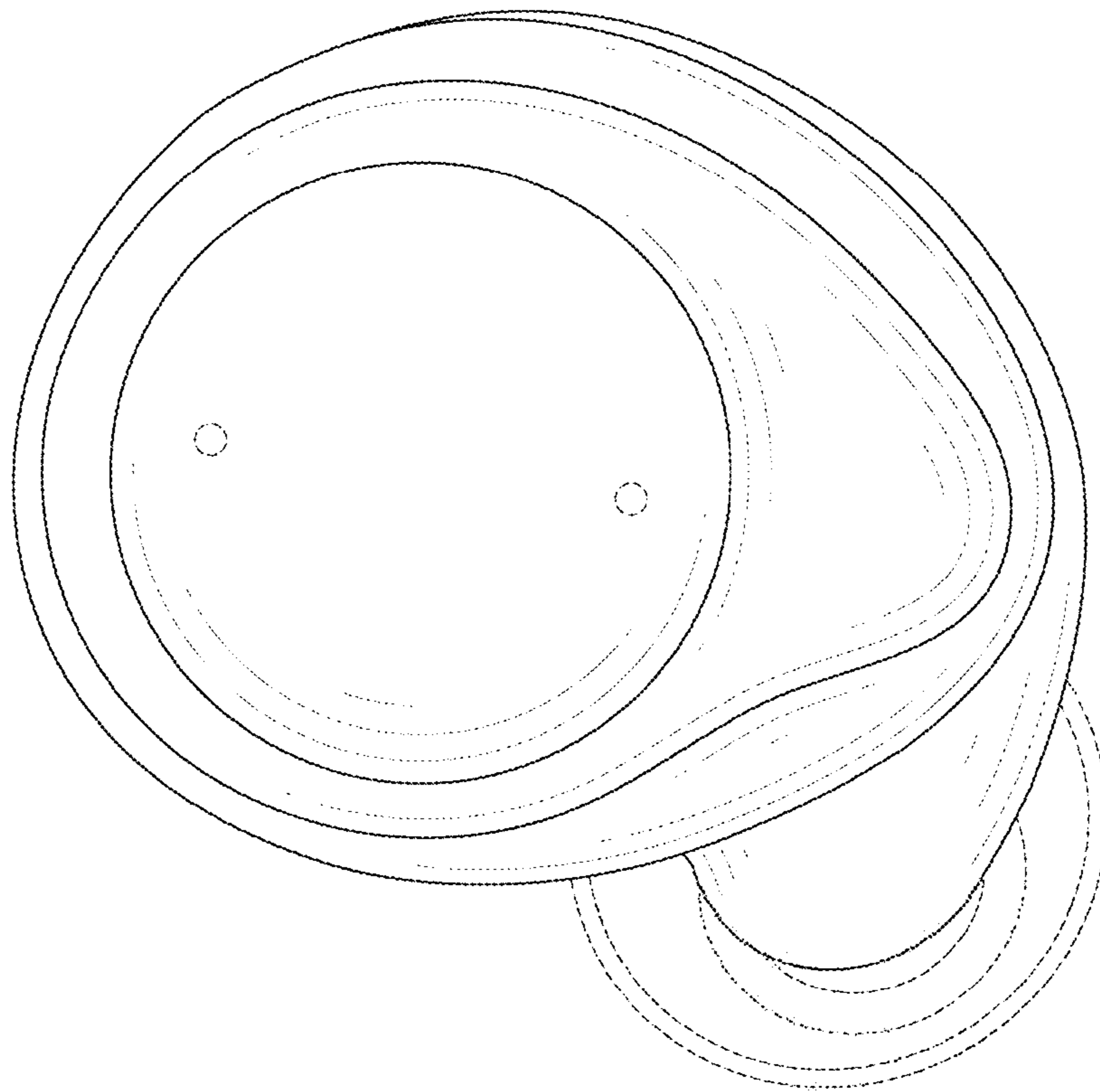


FIG. 4

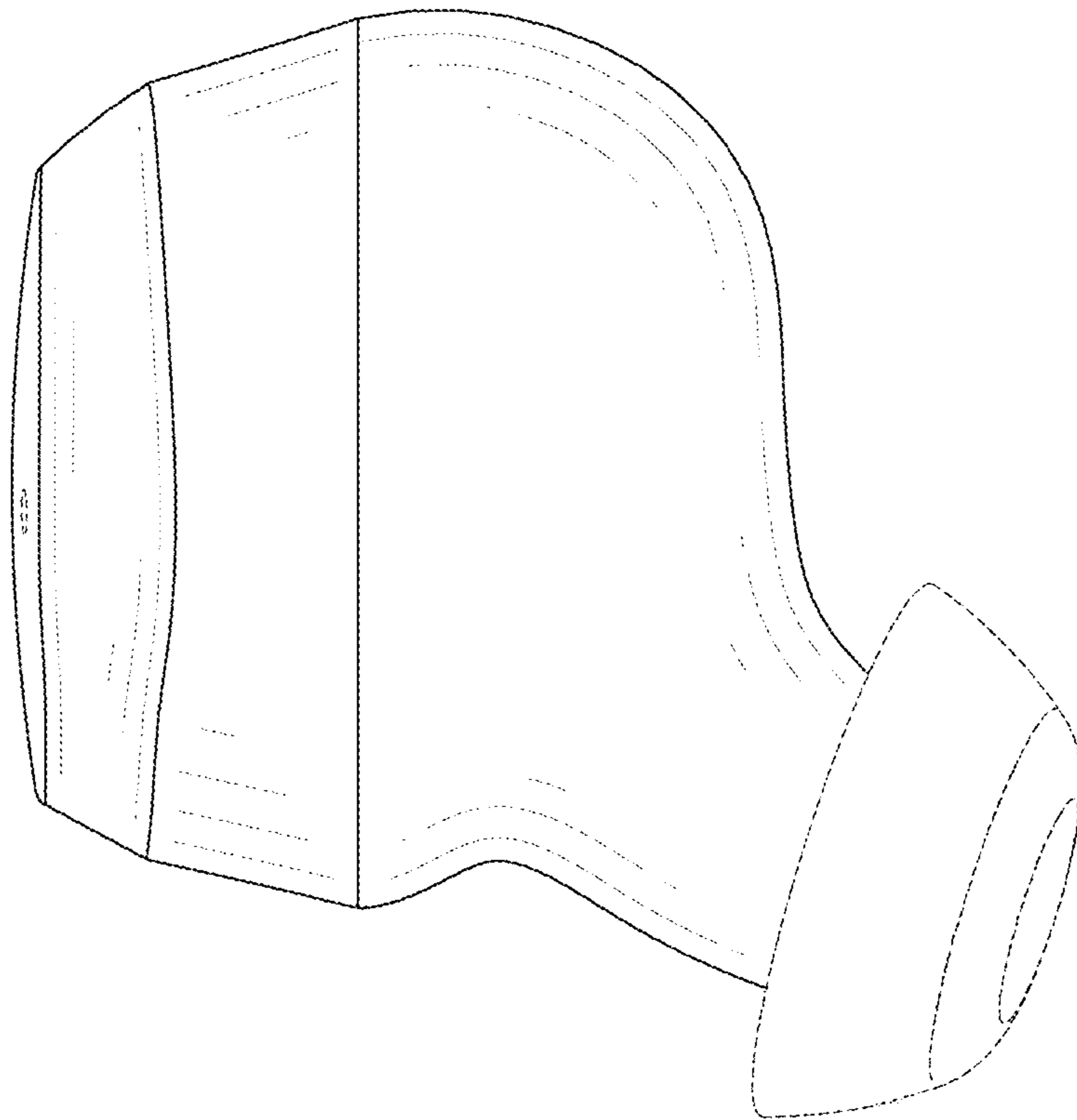


FIG. 5

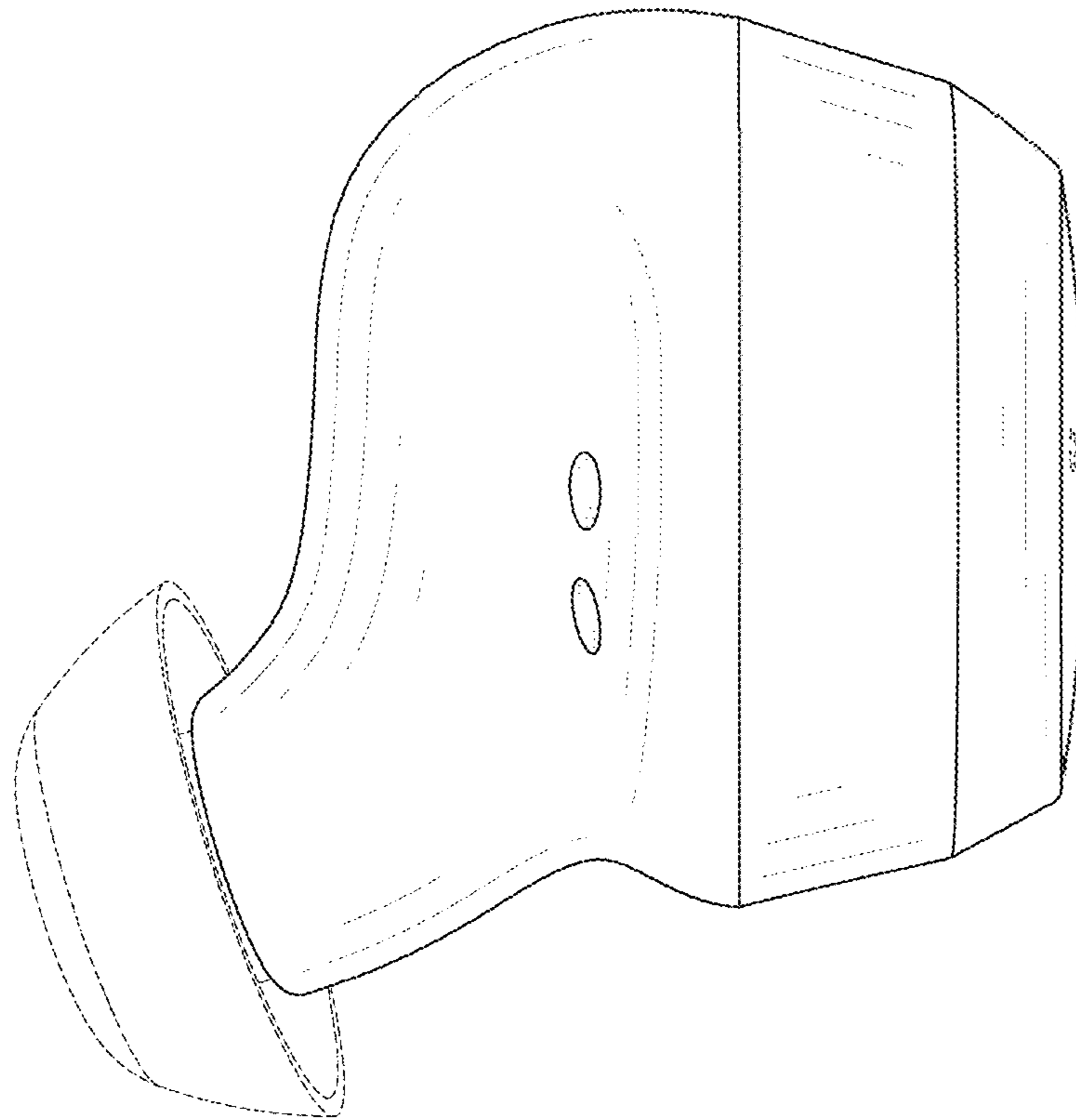


FIG. 6

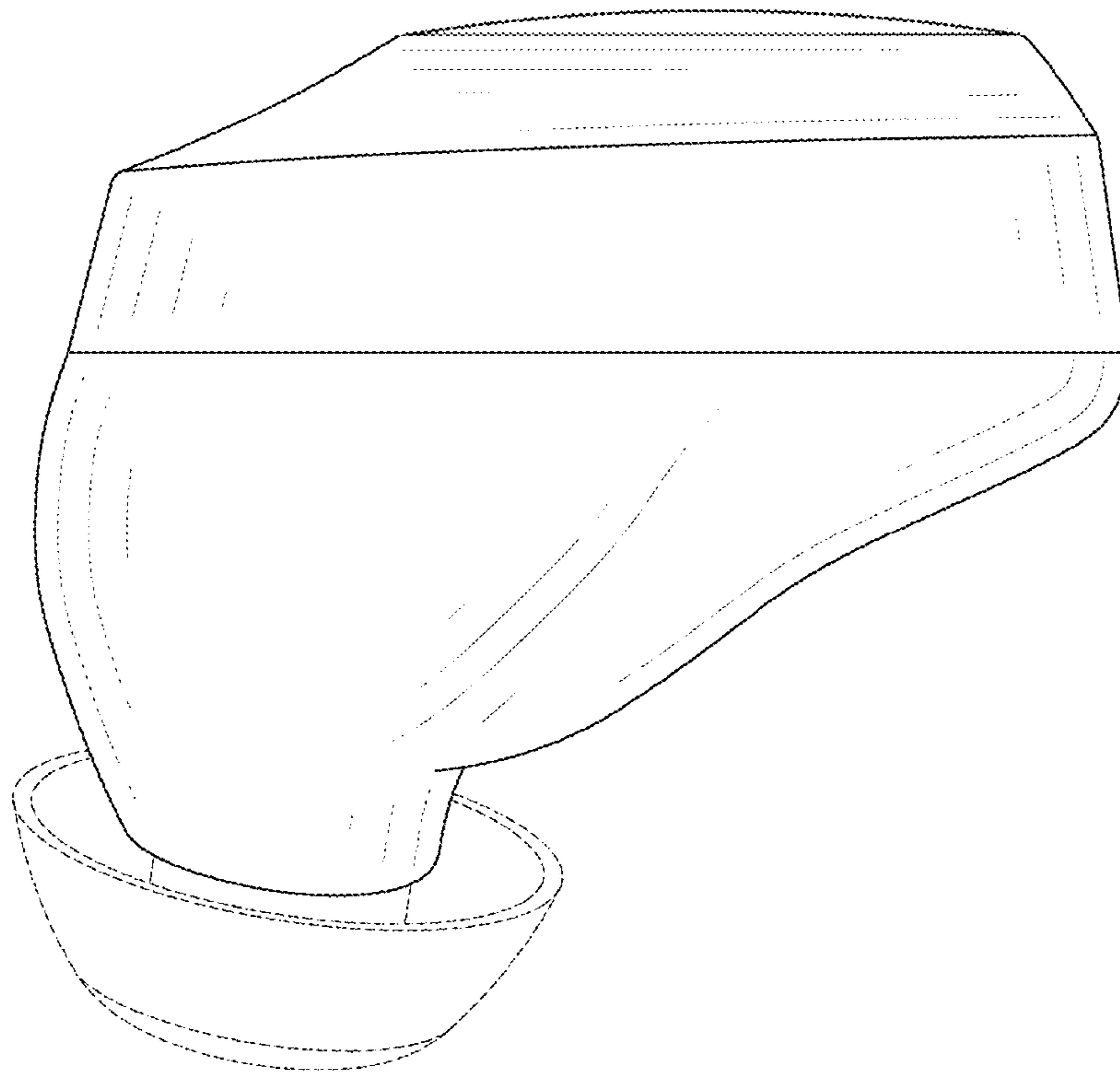


FIG. 7

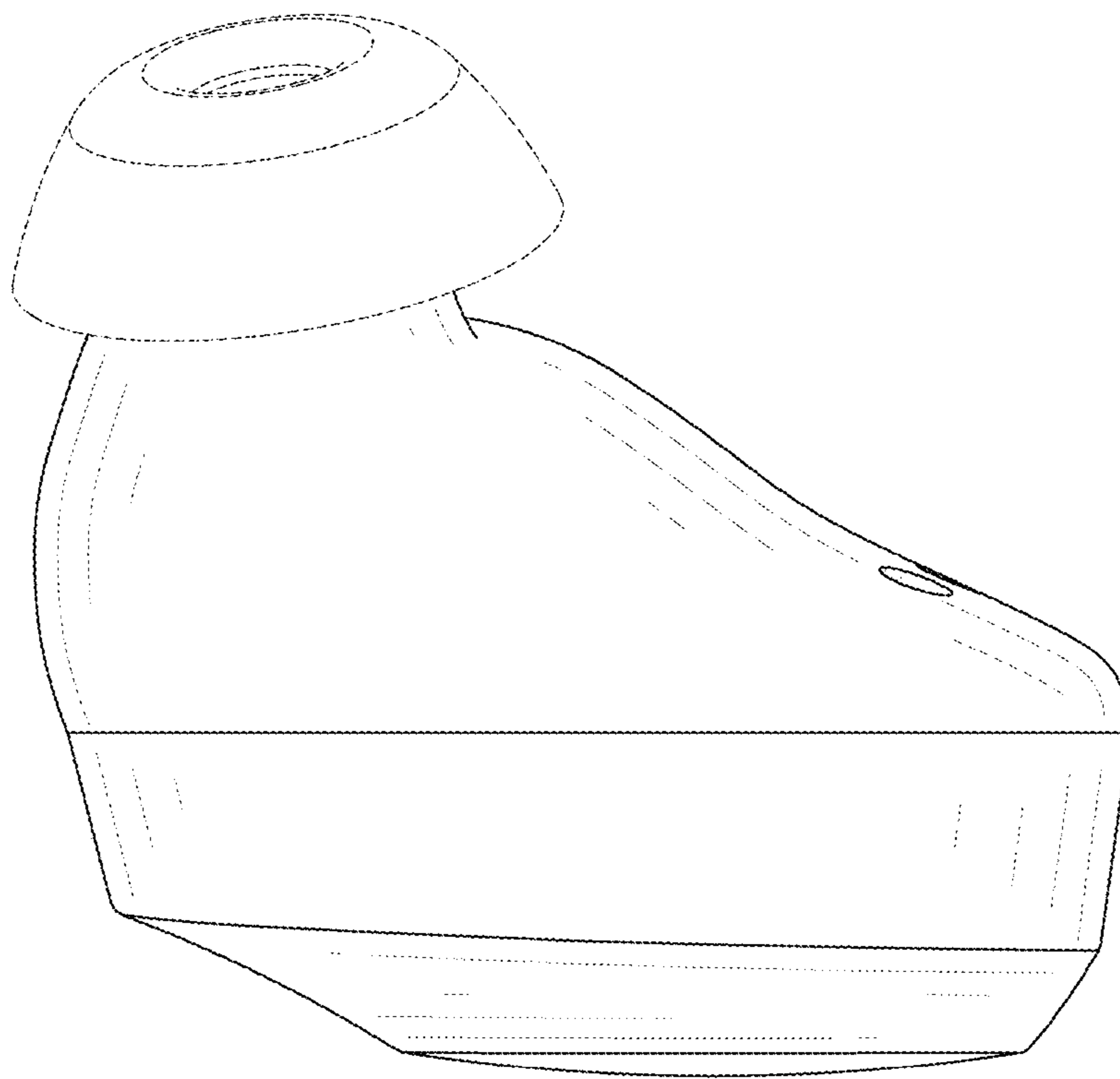


FIG. 8