US00D852171S

(12) United States Design Patent

Cai

(10) Patent No.: US D852,171 S
(45) Date of Patent: ** Jun. 25, 2019

(54) **EARPHONE**

(71) Applicant: **Guangzhou Lanshidun Electronic Limited Company**, Guangzhou (CN)

(72) Inventor: **Hejin Cai**, Guangzhou (CN)

(73) Assignee: **Guangzhou Lanshidun Electronic Limited Company**, Guangzhou (CN)

(**) Term: **15 Years**

(21) Appl. No.: **29/677,815**

(22) Filed: **Jan. 23, 2019**

(51) **LOC (11) Cl.** **14-01**

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

(58) **Field of Classification Search**
USPC D14/223, 205; D24/174; 128/865, 866, 128/867; 181/129, 130, 135; 379/430, 379/431; 381/380, 381, 322, 328, 329; 455/90.3, 575.1, 569.1
CPC H04R 1/10; H04R 25/00; H04R 25/02; H04R 1/1041; H04R 1/105; H04R 1/1016; H04R 1/1066; H04R 5/033; H04R 5/50335
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,852,130	A *	4/1932	Schier	H04R 25/656 381/328
2,248,837	A *	7/1941	Walters	H04R 25/652 181/130
2,971,065	A *	2/1961	Busse	H04R 25/456 381/104
3,821,647	A *	6/1974	Minasian	H03D 1/10 381/380
4,069,400	A *	1/1978	Johanson	H04R 25/60 381/322

(Continued)

FOREIGN PATENT DOCUMENTS

CN	304699288	6/2018
CN	304731686	7/2018
EM	004675320-0004	2/2018

OTHER PUBLICATIONS

FOCUSPOWER F10 Mini Bluetooth Earbud Smallest Wireless Invisible Headphone with 6 Hour Playtime Car Headset with Mic for iPhone and Android Smart Phones(One Pcs), Date first listed Online: Nov. 22, 2016, Available from Internet, URL: https://www.amazon.com/s/ref=nb_sb_noss_2?url=search-alias%3Dmobile&field-keywords=B01M2ZOLLP, FOCUSPOWER.

Primary Examiner — Paula Allen Greene
(74) *Attorney, Agent, or Firm* — JCIPRNET

(57) **CLAIM**

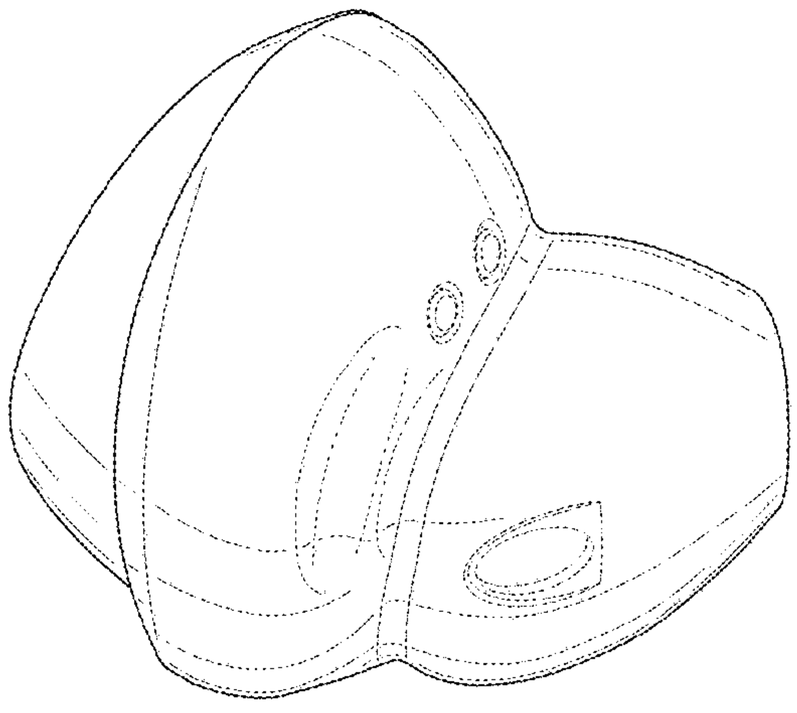
The ornamental design for an earphone, as shown and described.

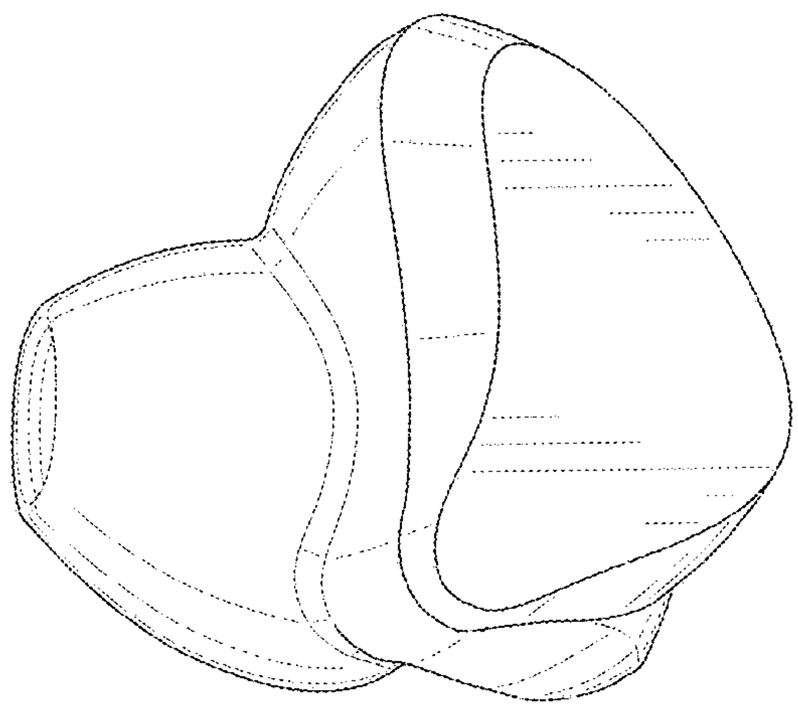
DESCRIPTION

FIG. **1** is a perspective view of an earphone showing one embodiment of my new design for the left ear;
FIG. **2** is another 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.

Another embodiment for the right ear is provided, which is a mirror image of the embodiment for the left ear shown in FIGS. **1** through **8**. The dash lines in the drawings represent portions of the earphone which form no part of the claimed design. The dot-dash lines in the drawings are boundary lines, which define the bounds of the claimed design which may not exist in reality in the article embodying the design, and form no part of the claimed design.

1 Claim, 5 Drawing Sheets





(56) **References Cited**

U.S. PATENT DOCUMENTS

D266,271	S	*	9/1982	Johanson	D24/174
D287,280	S	*	12/1986	Topholm	D24/174
D287,764	S	*	1/1987	Topholm	D24/174
D287,765	S	*	1/1987	Topholm	D24/174
4,702,238	A	*	10/1987	Scott	A61F 11/08 128/867
D304,944	S	*	12/1989	Behringer	D14/188
5,054,079	A	*	10/1991	Frielingsdorf	H04R 1/46 379/430
5,812,680	A	*	9/1998	Glendon	H04R 25/60 381/322
6,122,388	A	*	9/2000	Feldman	H04R 25/604 381/322
D481,709	S	*	11/2003	Solderits	D14/223
D505,411	S	*	5/2005	Sakai	D14/192
7,120,267	B2	*	10/2006	Ito	H04M 1/05 381/375
D532,520	S	*	11/2006	Kampmeier	D24/174
D550,657	S	*	9/2007	Gan	D14/223
D559,837	S	*	1/2008	Nakano	D14/223
D568,290	S	*	5/2008	Wikel	D14/205
D579,006	S	*	10/2008	Kim	D14/223
D603,380	S	*	11/2009	Hutchieson	D14/223
D641,010	S	*	7/2011	Kwon	D14/223
D654,056	S	*	2/2012	Hoggarth	D14/205
D666,581	S	*	9/2012	Perez	D14/223
D698,026	S	*	1/2014	Kuwata	D24/174
D699,226	S	*	2/2014	Yoon	D14/206
D702,668	S	*	4/2014	Narita	H04R 1/10 D14/223
D711,356	S	*	8/2014	Yang	D14/223
D719,132	S	*	12/2014	Toelle	D14/205
D725,082	S	*	3/2015	Palmborg	D14/223
D733,101	S	*	6/2015	Pi	D14/223
D733,102	S	*	6/2015	Palmborg	D14/223
9,055,369	B2	*	6/2015	Yang	H04R 1/10
D735,169	S	*	7/2015	Shieh	D14/223
D764,445	S	*	8/2016	Czaniecki	D14/223
D777,710	S	*	1/2017	Palmborg	D14/223
D781,269	S	*	3/2017	Choe	D14/223
D782,997	S	*	4/2017	Shin	D14/205
D782,998	S	*	4/2017	Shin	D14/205
D795,225	S	*	8/2017	Sumii	D14/223
D806,879	S	*	1/2018	Horbinski	D24/174
D810,047	S	*	2/2018	Tzeng	D14/205
D812,042	S	*	3/2018	Xiao	D14/223
D813,205	S	*	3/2018	Palmborg	D14/223
D813,206	S	*	3/2018	Tang	D14/223
D813,848	S	*	3/2018	Palmborg	D14/223
D843,354	S	*	3/2019	Kumano	D14/223
2004/0101151	A1	*	5/2004	Webber	H04R 1/105 381/328
2013/0259286	A1	*	10/2013	Chung	H04R 1/1016 381/380

* cited by examiner

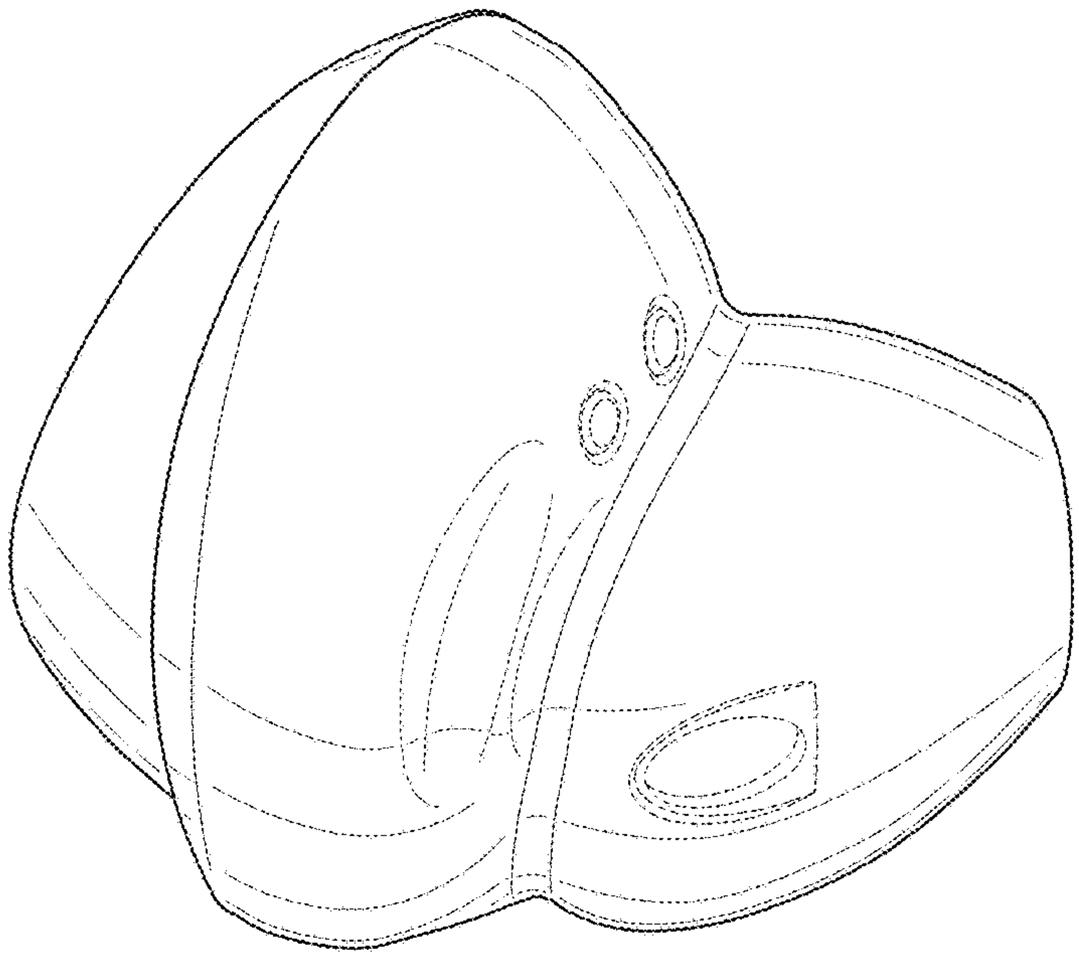


FIG. 1

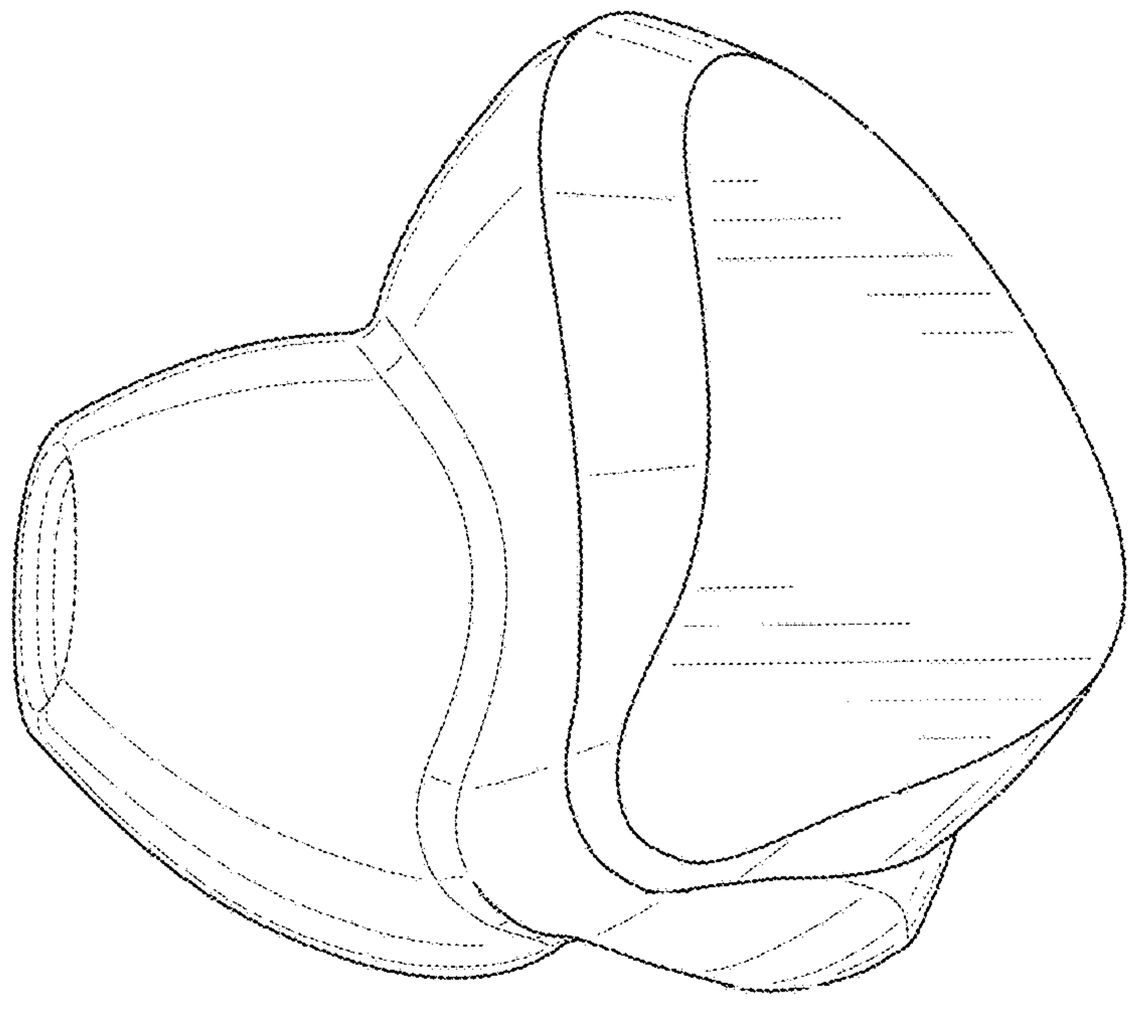


FIG. 2

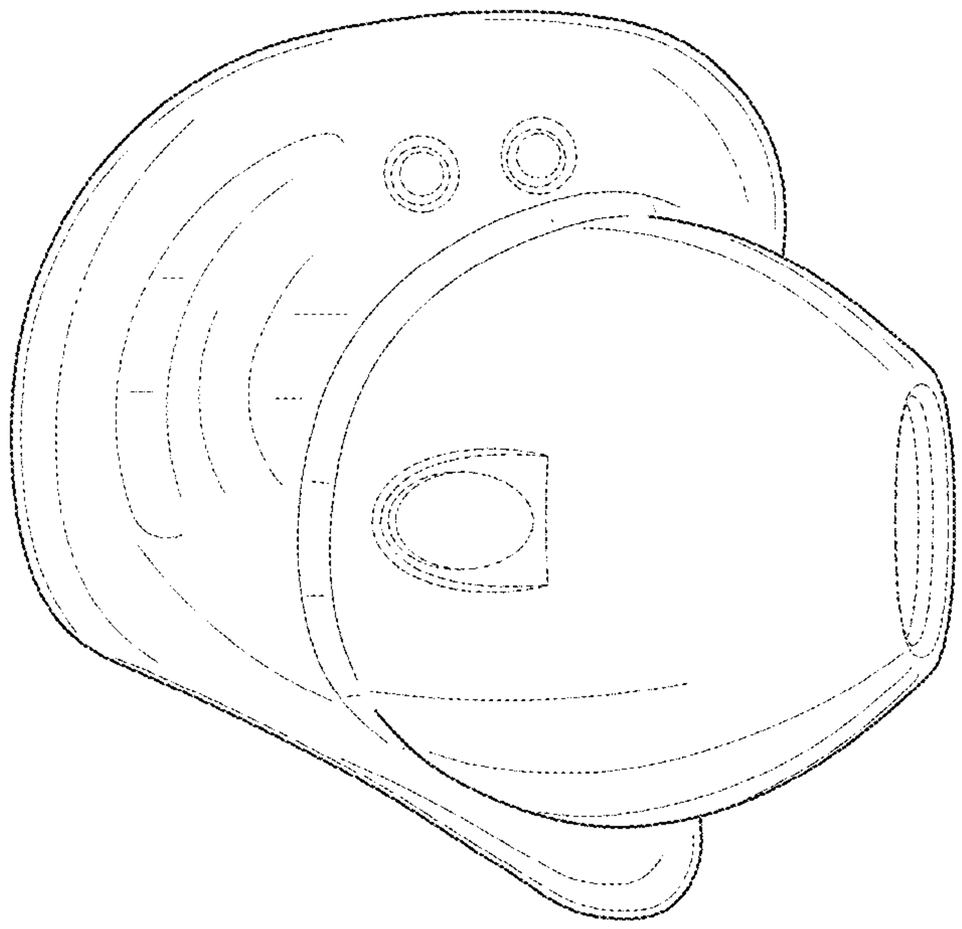


FIG. 3

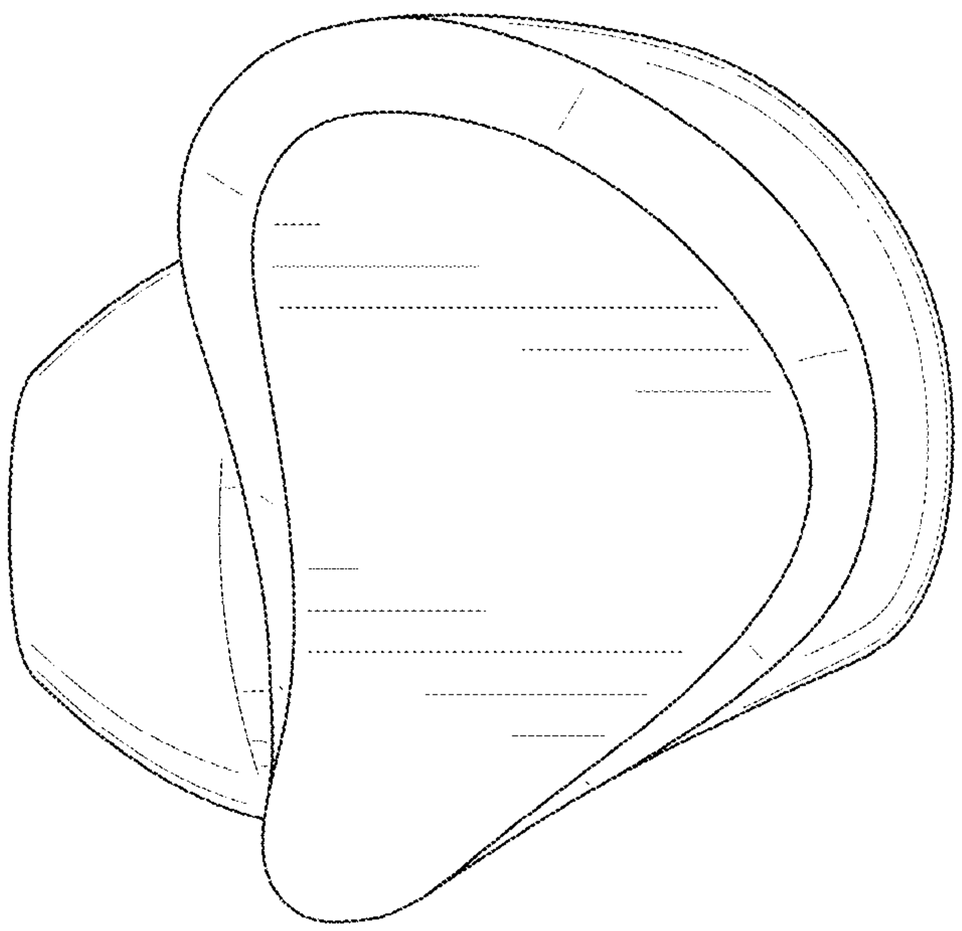


FIG. 4

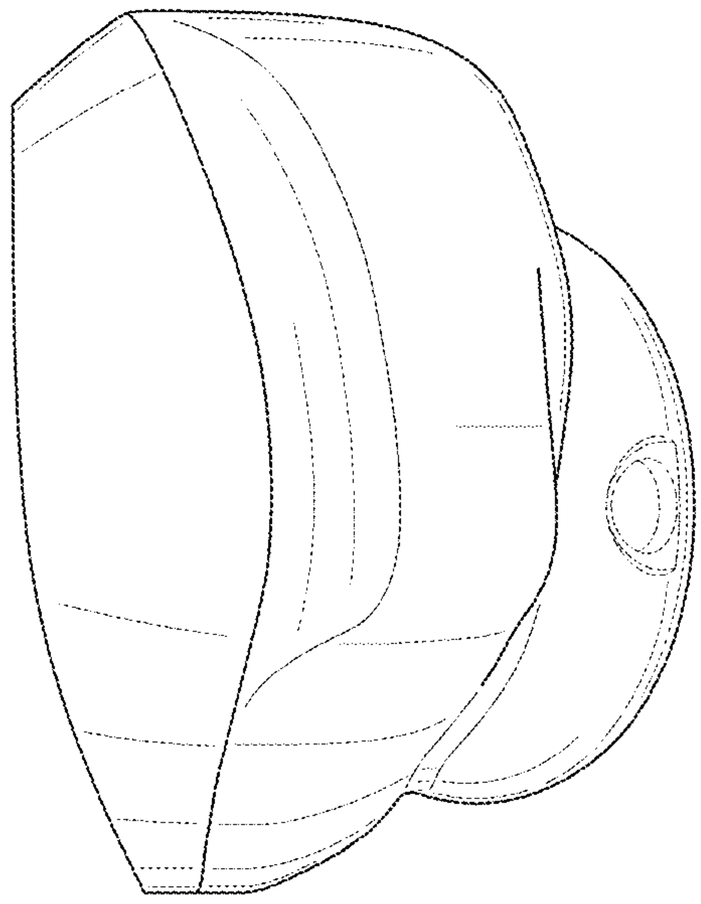


FIG. 5

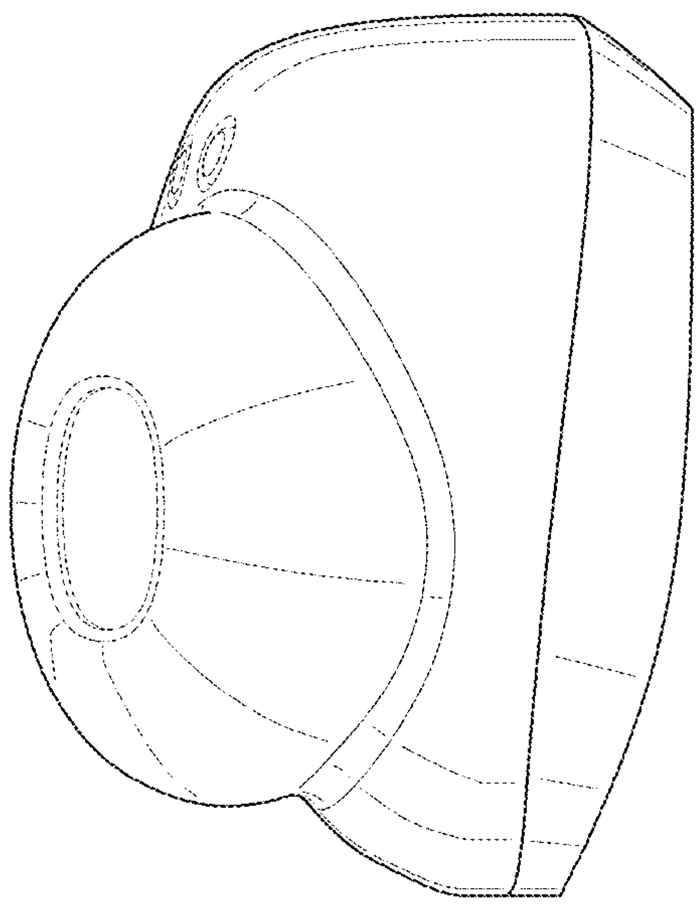


FIG. 6

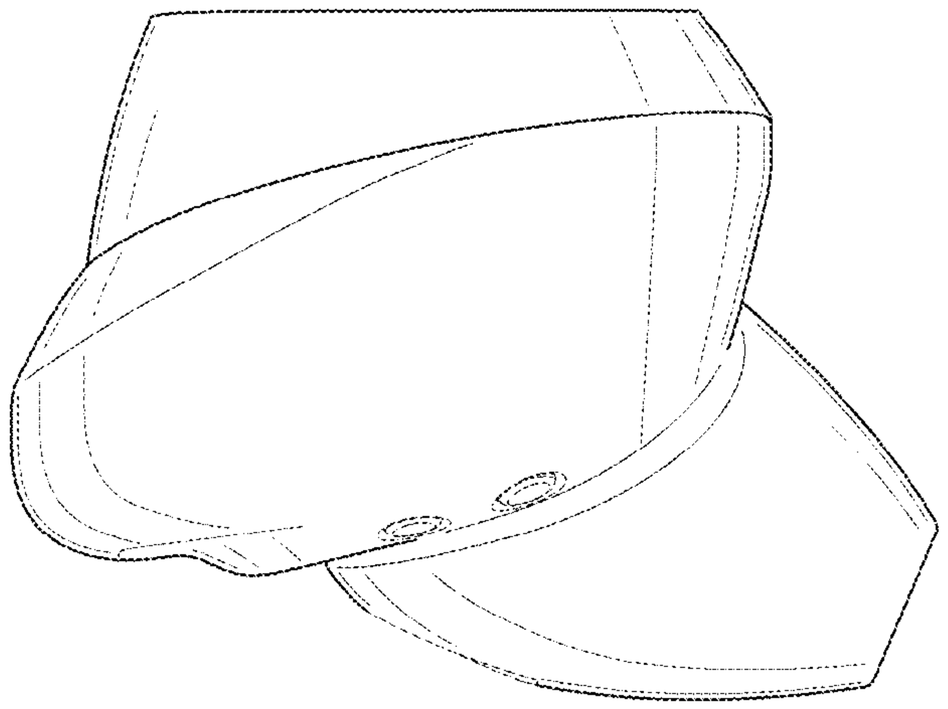


FIG. 7

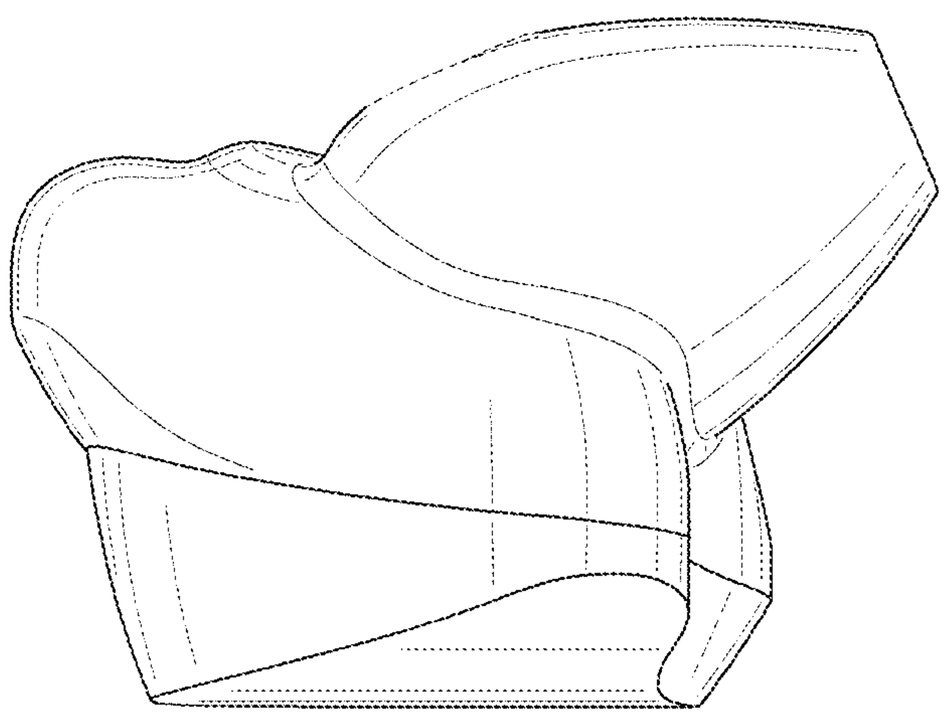


FIG. 8