



US00D897320S

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

(10) **Patent No.:** **US D897,320 S**

(45) **Date of Patent:** **\*\* Sep. 29, 2020**

(54) **PAIR OF EARPHONES**

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

(72) Inventors: **Robert Boyd**, Los Angeles, CA (US);  
**Sean Stewart Corbin**, South Lake  
Tahoe, CA (US); **Duy P. Le**, Los  
Angeles, CA (US); **Guillaume Raoult**,  
San Francisco, CA (US); **Christopher  
Kuh**, San Francisco, CA (US); **Robert  
Brunner**, Glen Ellen, CA (US)

(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

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

(21) Appl. No.: **29/685,002**

(22) Filed: **Mar. 25, 2019**

(51) **LOC (12) Cl.** ..... **14-01**

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

(58) **Field of Classification Search**  
USPC ..... D14/223, 205; D24/174; 128/867;  
381/380, 381; 455/90.3, 575.1, 569.1  
CPC ..... H04R 1/10; H04R 1/1033; H04R 25/00;  
H04R 1/1066; H04R 1/1016; H04R  
5/033; H04R 5/0335; H04R 1/105  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

968,008 A	8/1910	Waller
1,558,191 A	10/1925	Lindemann
2,009,390 A	7/1935	Bayardi
2,261,448 A	11/1939	Peterson
2,248,837 A	7/1941	Walters
2,430,229 A	11/1947	Kelsey
2,474,135 A	6/1949	White
2,545,731 A	3/1951	French
2,719,523 A	10/1955	von Gierke

2,739,660 A	3/1956	French
3,319,736 A	5/1967	Reynolds
D233,444 S	10/1974	Christian et al.
D241,881 S	10/1976	Peterson et al.
4,133,984 A	1/1979	Akiyama
4,253,452 A	3/1981	Powers et al.
D259,279 S	5/1981	Takeda
D270,634 S	9/1983	Ungar
D276,143 S	10/1984	Williams
4,646,872 A	3/1987	Kamon et al.
D299,344 S	1/1989	Stevens

(Continued)

**FOREIGN PATENT DOCUMENTS**

EM	002765230-0001	9/2015
EM	004596161-0001	* 1/2018

(Continued)

*Primary Examiner* — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Sterne, Kessler,  
Goldstein & Fox P.L.L.C.

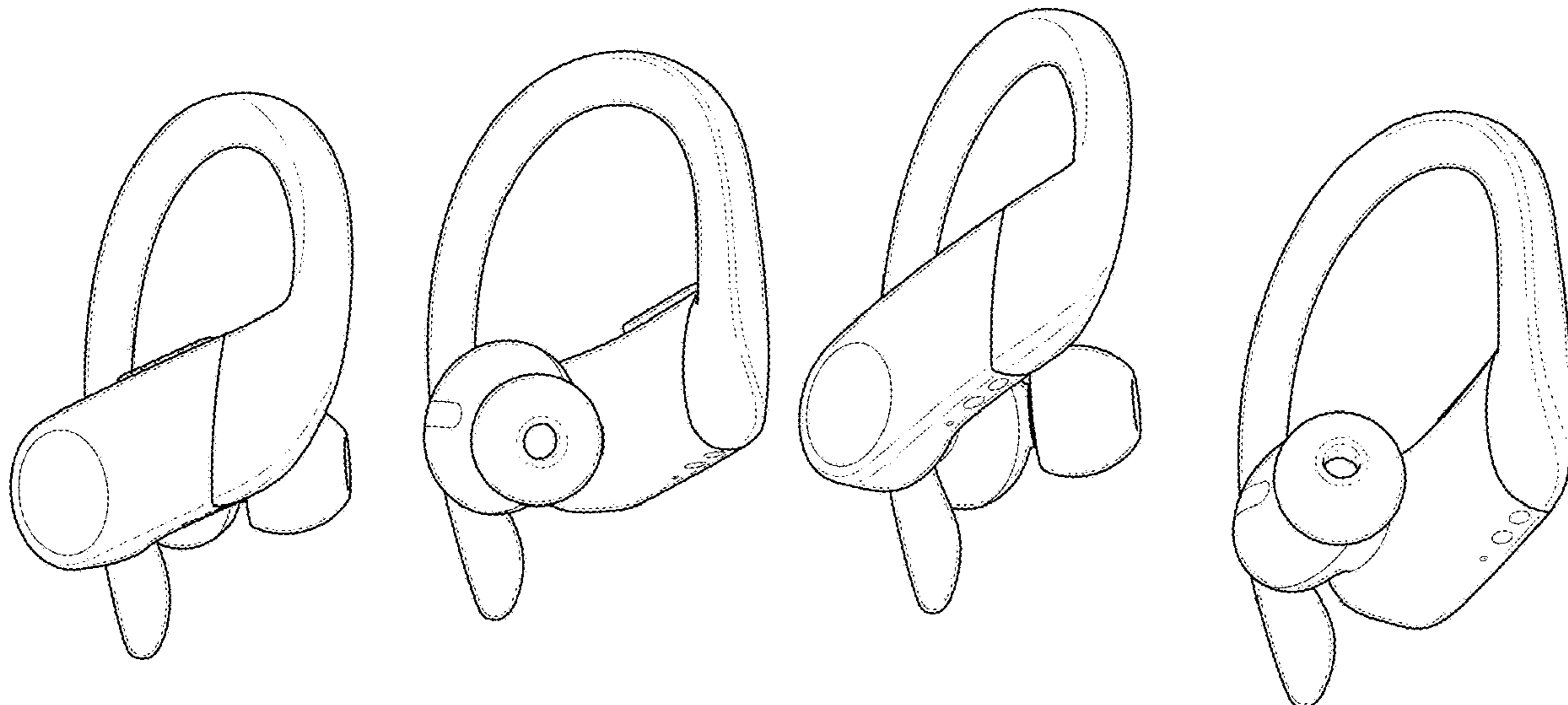
(57) **CLAIM**

The ornamental design for a pair of earphones, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a pair of earphones showing the claimed design;  
FIG. 2 is a bottom front 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;  
FIG. 8 is a bottom view thereof;  
FIG. 9 is a left side view of one of the earphones shown separately; and,  
FIG. 10 is a right side view of the opposite earphone shown separately.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D299,454 S 1/1989 Kwong  
D304,191 S 10/1989 Sekine  
D309,306 S 7/1990 Weiser et al.  
4,997,055 A 3/1991 Grady  
D316,550 S 4/1991 Sogabe  
D318,670 S 7/1991 Taniguchi  
D326,655 S \* 6/1992 Iribe ..... D14/192  
D326,855 S 6/1992 Bose et al.  
D331,966 S 12/1992 Gardner, Jr.  
5,179,501 A 1/1993 Ocken et al.  
D334,043 S 3/1993 Taniguchi et al.  
5,210,792 A 5/1993 Kajihara  
5,410,608 A 4/1995 Lucey et al.  
D375,959 S 11/1996 Davis et al.  
5,625,171 A 4/1997 Marshall  
5,659,156 A 8/1997 Mauney et al.  
D383,757 S 9/1997 Dobmsskin et al.  
D385,254 S 10/1997 Owusu  
D403,300 S 12/1998 Renk  
D421,755 S 3/2000 Pitel  
6,056,082 A 5/2000 Lindgren et al.  
D430,060 S 8/2000 Kavalek  
6,101,260 A 8/2000 Jensen et al.  
D436,623 S 1/2001 Schmidt et al.  
6,233,344 B1 5/2001 Clegg et al.  
D443,261 S 6/2001 Yuyama  
D443,859 S 6/2001 Hogan  
D457,514 S 5/2002 Marion et al.  
D459,342 S 6/2002 Marion et al.  
D460,749 S 7/2002 Liu  
6,427,018 B1 7/2002 Keliiliki  
D463,791 S 10/2002 Nagai et al.  
D470,129 S 2/2003 Hlas et al.  
D471,889 S 3/2003 Rath et al.  
D475,996 S 6/2003 Skulley  
D477,593 S 6/2003 Komiyama  
D481,377 S 10/2003 Eguchi  
D482,348 S 11/2003 Villaverde et al.  
D484,166 S 12/2003 Senda  
6,728,388 B1 4/2004 Nageno et al.  
6,738,487 B1 5/2004 Nageno et al.  
6,771,790 B2 8/2004 Liu  
D501,196 S 1/2005 Dyer et al.  
6,868,284 B2 3/2005 Bae  
D508,479 S 8/2005 Okada  
D508,911 S 8/2005 Sanders  
D510,085 S 9/2005 Suzuki  
D510,575 S 10/2005 Leong  
D526,642 S 8/2006 Choe  
D528,531 S 9/2006 Rose et al.  
D529,901 S 10/2006 Ohta  
D535,642 S 1/2007 Garcia et al.  
D538,269 S 3/2007 Tragatschnig  
D538,270 S 3/2007 Kim et al.  
D538,271 S 3/2007 Kim et al.  
D538,792 S 3/2007 Kim et al.  
D539,268 S 3/2007 Suzuki  
D539,787 S 4/2007 Kim et al.  
D542,267 S \* 5/2007 Cha ..... D14/206  
D542,282 S 5/2007 Yoshiyama  
D543,968 S 6/2007 Wong  
D543,972 S 6/2007 Taylor  
7,231,056 B2 6/2007 Chen  
D550,202 S 9/2007 Meier et al.  
D550,657 S 9/2007 Gan et al.  
D554,109 S 10/2007 Ledbetter et al.  
D554,627 S 11/2007 Gondo  
D556,735 S 12/2007 Yeo  
D558,735 S 1/2008 Carr et al.  
D559,837 S 1/2008 Nakano  
D564,495 S 3/2008 Sasaki  
D566,104 S 4/2008 Suzuki  
D569,841 S 5/2008 Chung et al.  
D574,361 S 8/2008 Sasaki  
D574,367 S 8/2008 Jaakkola et al.  
D575,772 S 8/2008 Schultz et al.  
D576,154 S 9/2008 Ledbetter et al.  
D578,507 S 10/2008 Ando  
D579,005 S 10/2008 Wilhelmsen  
D579,444 S 10/2008 Ewert et al.  
D579,923 S 11/2008 Andre et al.  
D582,398 S 12/2008 Nam et al.  
D584,293 S 1/2009 Kim et al.  
D584,294 S 1/2009 Nam et al.  
D585,881 S 2/2009 Nam et al.  
D587,681 S 3/2009 Yanai  
D587,685 S 3/2009 Densho  
D589,493 S 3/2009 Densho  
D591,264 S 4/2009 Hong et al.  
D591,721 S 5/2009 Densho  
D591,722 S 5/2009 Densho  
D593,075 S 5/2009 Williams et al.  
D594,441 S 6/2009 Lee et al.  
7,551,748 B2 6/2009 Kamo et al.  
D597,084 S 7/2009 Gondo  
D598,894 S 8/2009 Masuda et al.  
D598,901 S 8/2009 Lee et al.  
D599,778 S 9/2009 Ando  
D599,781 S 9/2009 Lee et al.  
D600,675 S 9/2009 Lee et al.  
D601,126 S 9/2009 Christopher et al.  
D601,548 S 10/2009 Morisawa  
D602,475 S 10/2009 Martin  
D602,905 S 10/2009 Morisawa  
D603,378 S 11/2009 Paradise  
D603,837 S 11/2009 Martin  
D603,847 S 11/2009 Chung  
D604,272 S 11/2009 Kitayama  
D605,628 S 12/2009 Ando  
D606,048 S 12/2009 Soetejo et al.  
D606,971 S 12/2009 Christopher et al.  
D607,875 S 1/2010 Pedersen, II  
7,648,005 B2 1/2010 Leong et al.  
D609,698 S 2/2010 Ng  
7,664,287 B2 2/2010 Neu et al.  
7,681,577 B2 3/2010 Blanchard  
D613,274 S 4/2010 Lee et al.  
D614,168 S 4/2010 Rogers et al.  
7,708,110 B2 5/2010 Leong et al.  
D617,780 S 6/2010 Jaakkola et al.  
D618,211 S 6/2010 Oguro et al.  
D618,669 S 6/2010 Johnson et al.  
D619,561 S \* 7/2010 Yang ..... D14/205  
D622,707 S 8/2010 Chen et al.  
D623,171 S 9/2010 Chen et al.  
D624,529 S 9/2010 Huang  
D624,901 S 10/2010 Blanchard  
D626,117 S 10/2010 Lowry  
D627,764 S 11/2010 Tsai et al.  
7,841,446 B2 11/2010 Leong et al.  
D628,555 S 12/2010 Ponzio et al.  
D630,179 S 1/2011 Park et al.  
D631,037 S 1/2011 Park et al.  
D631,470 S 1/2011 Yoneyama et al.  
D634,305 S 3/2011 Hoggarth  
D635,960 S \* 4/2011 Gondo ..... D14/223  
D636,763 S 4/2011 Walter  
D637,182 S 5/2011 Lee et al.  
D637,998 S 5/2011 Brunner et al.  
D637,999 S 5/2011 Brunner et al.  
D638,409 S 5/2011 Walter  
D641,008 S 7/2011 Lee et al.  
D641,010 S 7/2011 Kwon  
D641,736 S 7/2011 Brunner et al.  
D642,163 S 7/2011 Lee et al.  
D643,414 S 8/2011 Lee et al.  
D643,416 S 8/2011 Chong et al.  
D643,417 S 8/2011 Lee et al.  
D643,418 S 8/2011 Lee et al.  
8,068,633 B2 11/2011 Lee et al.  
D652,817 S 1/2012 Lee et al.  
D652,822 S 1/2012 Lee et al.  
8,090,135 B2 1/2012 Lin  
D656,490 S \* 3/2012 Birger ..... D14/223

(56)

References Cited

U.S. PATENT DOCUMENTS

D658,157 S 4/2012 McManigal  
 8,265,328 B2 9/2012 Milde et al.  
 D668,631 S 10/2012 Katsumata et al.  
 D671,523 S 11/2012 Daniel  
 D678,251 S 3/2013 Cantoni et al.  
 D685,768 S \* 7/2013 Mogili ..... D14/223  
 D686,196 S 7/2013 Lee et al.  
 D691,580 S \* 10/2013 Cho ..... D14/205  
 D695,275 S \* 12/2013 Chee ..... D14/223  
 D699,213 S 2/2014 Burgett et al.  
 8,655,005 B2 \* 2/2014 Birger ..... H04M 1/05  
 379/430  
 D700,905 S 3/2014 Pavitsich  
 D707,652 S 6/2014 Brunner et al.  
 D710,333 S \* 8/2014 Davies ..... H04R 1/10  
 D14/223  
 D712,382 S \* 9/2014 Brunner ..... D14/223  
 D713,385 S 9/2014 Burgett et al.  
 D713,822 S 9/2014 Paradise et al.  
 D716,770 S 11/2014 Bonahoom et al.  
 8,908,899 B1 \* 12/2014 Yang ..... H04R 1/1033  
 381/370  
 D725,637 S \* 3/2015 Nakajima ..... D14/223  
 D730,876 S 6/2015 Dahlberg  
 D732,509 S 6/2015 Brunner et al.  
 D734,744 S 7/2015 Brunner et al.  
 D739,377 S \* 9/2015 Yeom ..... D14/205  
 D740,260 S 10/2015 Brunner et al.  
 D741,299 S 10/2015 Brunner et al.  
 D743,945 S 11/2015 Brunner et al.  
 D743,946 S \* 11/2015 Brunner ..... D14/223  
 9,197,956 B2 11/2015 Iseberg et al.  
 D745,862 S \* 12/2015 Otani ..... D14/223  
 D759,634 S 6/2016 Brunner et al.  
 D767,532 S 9/2016 Jen  
 D775,610 S \* 1/2017 Nakajima ..... D14/223  
 D778,257 S \* 2/2017 Hu ..... D14/205  
 D780,721 S 3/2017 Brunner et al.  
 D782,996 S \* 4/2017 Zhu ..... D14/205  
 D787,477 S 5/2017 Lee  
 D792,378 S 6/2017 Brunner et al.  
 D796,487 S 9/2017 Brunner et al.  
 D799,316 S 10/2017 Thain et al.

D806,684 S \* 1/2018 Tsai ..... D14/223  
 D807,331 S \* 1/2018 Morimoto ..... D14/223  
 D809,487 S 2/2018 Lee et al.  
 D810,053 S \* 2/2018 Otani ..... D14/223  
 D816,060 S \* 4/2018 Wei ..... D14/205  
 D817,301 S 5/2018 Aoyagi et al.  
 D817,305 S \* 5/2018 Hsieh ..... D14/206  
 D821,364 S 6/2018 Brunner et al.  
 D831,610 S 10/2018 Aoyagi et al.  
 D834,003 S 11/2018 Maeda  
 D838,256 S \* 1/2019 Wang ..... D14/205  
 D838,692 S 1/2019 Fu  
 D843,344 S \* 3/2019 Zhu ..... D14/205  
 D844,588 S \* 4/2019 Brunner ..... D14/223  
 D845,926 S 4/2019 Aoyagi et al.  
 D847,780 S 5/2019 Brunner et al.  
 D860,164 S \* 9/2019 Lin ..... D14/205  
 D869,435 S \* 12/2019 Sanhua ..... D14/205  
 D873,789 S \* 1/2020 Hu ..... D14/205  
 D878,338 S \* 3/2020 Yang ..... D14/223  
 D881,850 S \* 4/2020 Zhang ..... D14/223  
 D883,259 S \* 5/2020 Ma ..... D14/223  
 D885,370 S \* 5/2020 Hu ..... D14/223  
 2007/0104345 A1 \* 5/2007 Yang ..... H04R 1/1066  
 381/381  
 2009/0285434 A1 11/2009 Williams et al.  
 2011/0051979 A1 3/2011 Lee et al.  
 2011/0176700 A1 7/2011 Hashimoto  
 2013/0216087 A1 8/2013 MacDonald  
 2014/0072137 A1 \* 3/2014 Nelson ..... H04R 1/1041  
 381/74  
 2014/0119555 A1 \* 5/2014 Lu ..... H04R 25/554  
 381/74  
 2014/0138150 A1 5/2014 Huang  
 2014/0166389 A1 6/2014 Young-Mun  
 2015/0330478 A1 \* 11/2015 Grewal ..... H04R 1/1033  
 381/384  
 2017/0105679 A1 4/2017 Gil

FOREIGN PATENT DOCUMENTS

EM 006377511-0001 \* 4/2019  
 EM 006910618-0001 \* 9/2019  
 EM 006950184-0001 \* 9/2019  
 JP D1616785 10/2018

\* cited by examiner

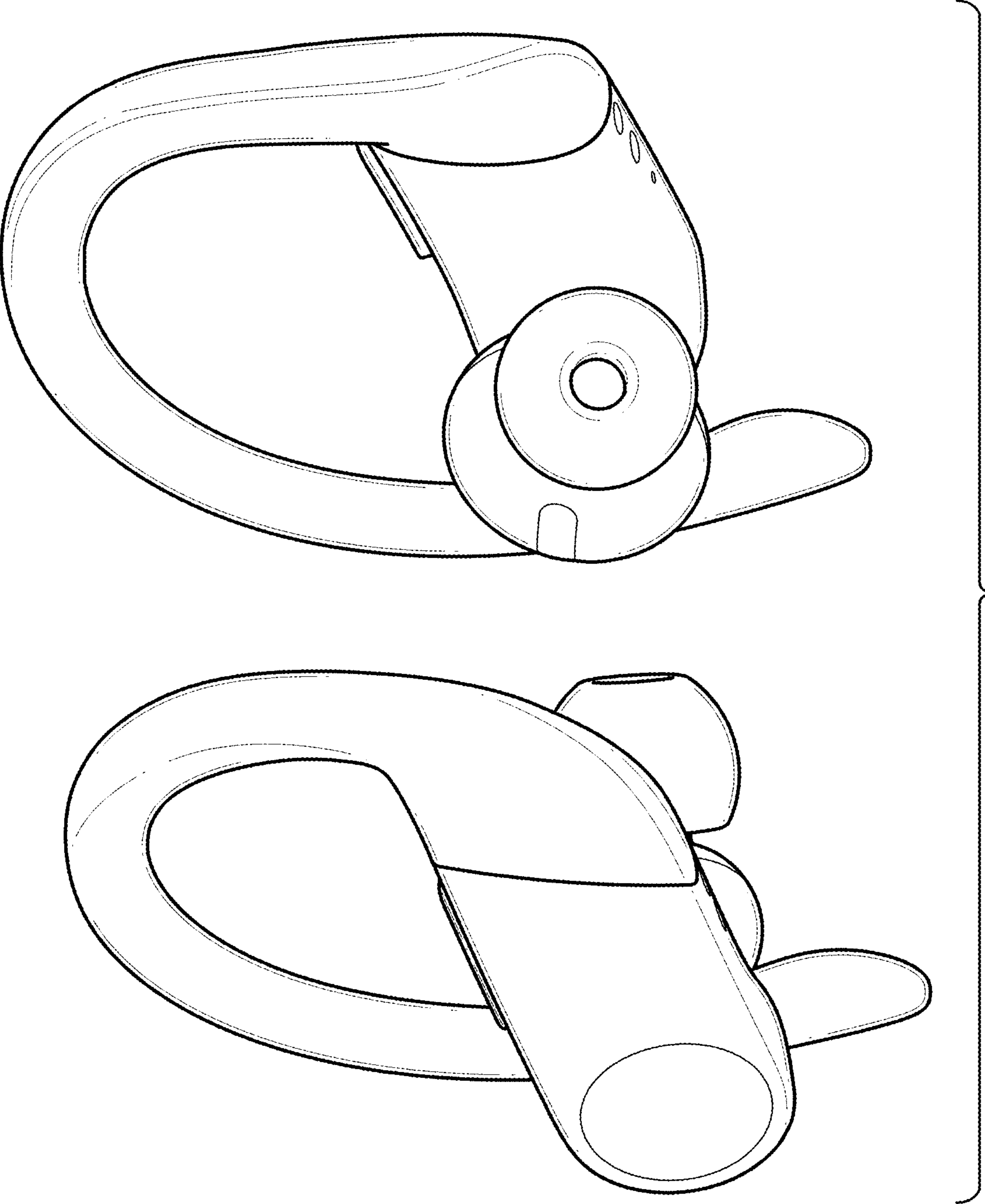


FIG. 1

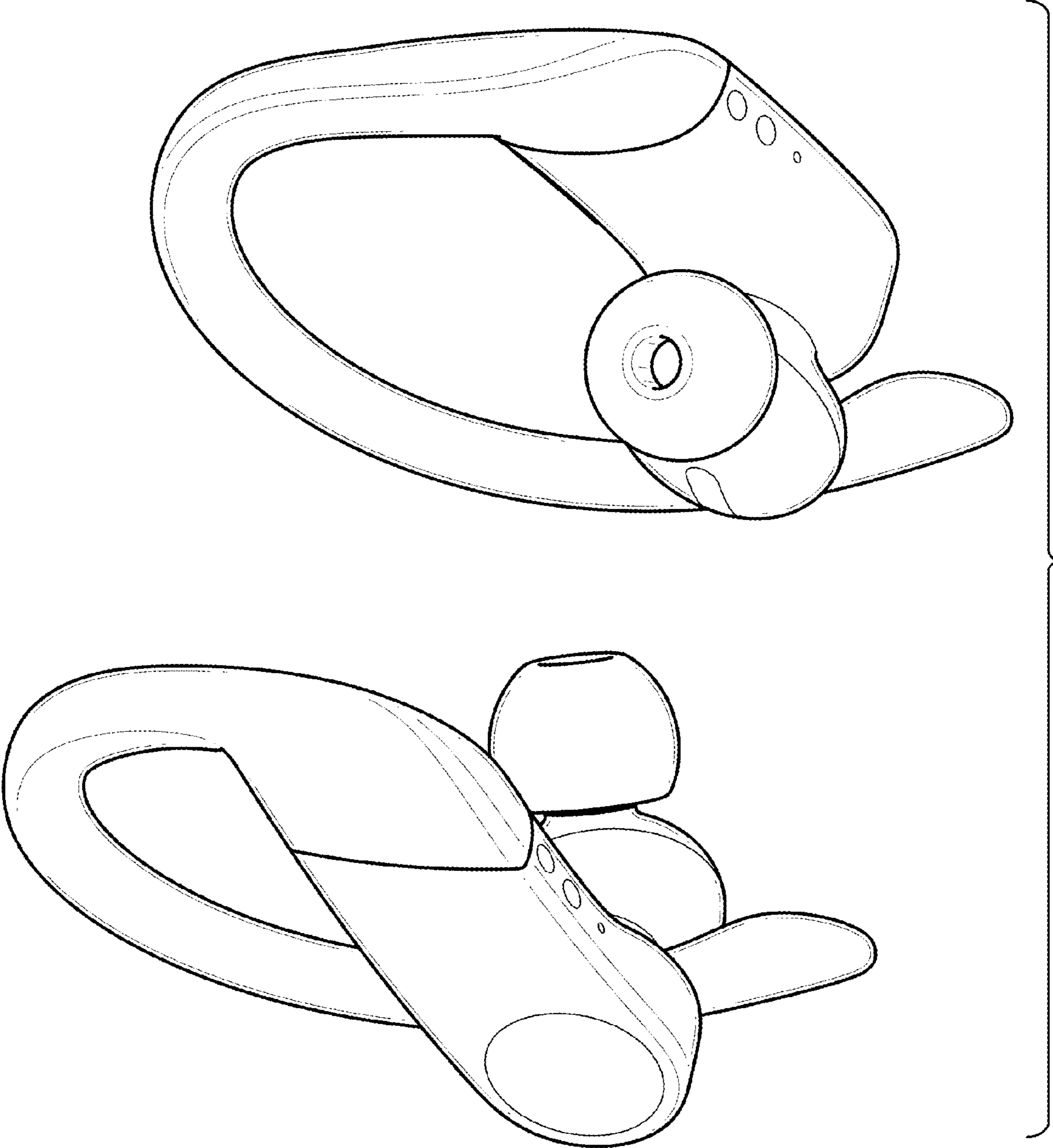


FIG. 2

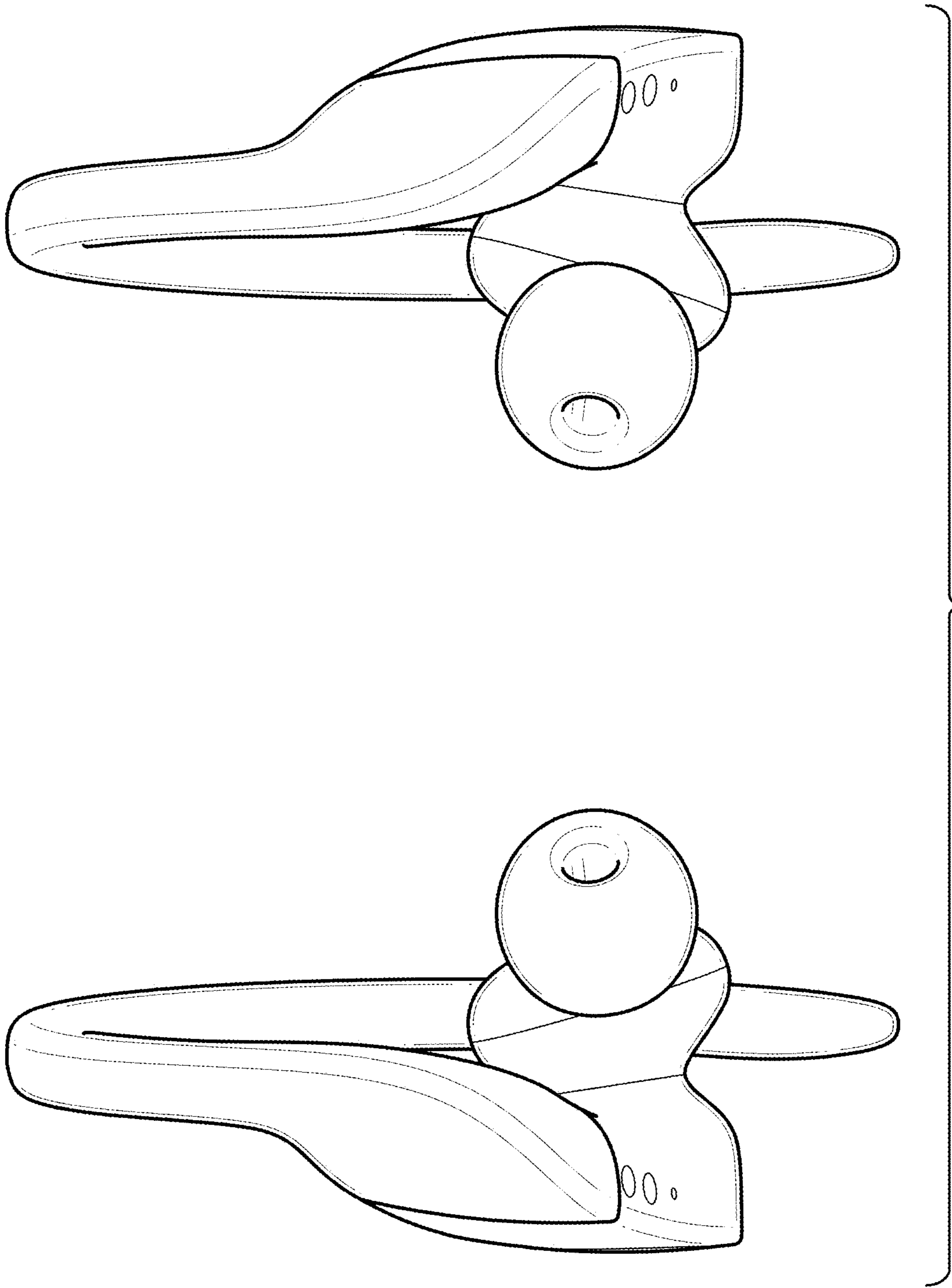


FIG. 3

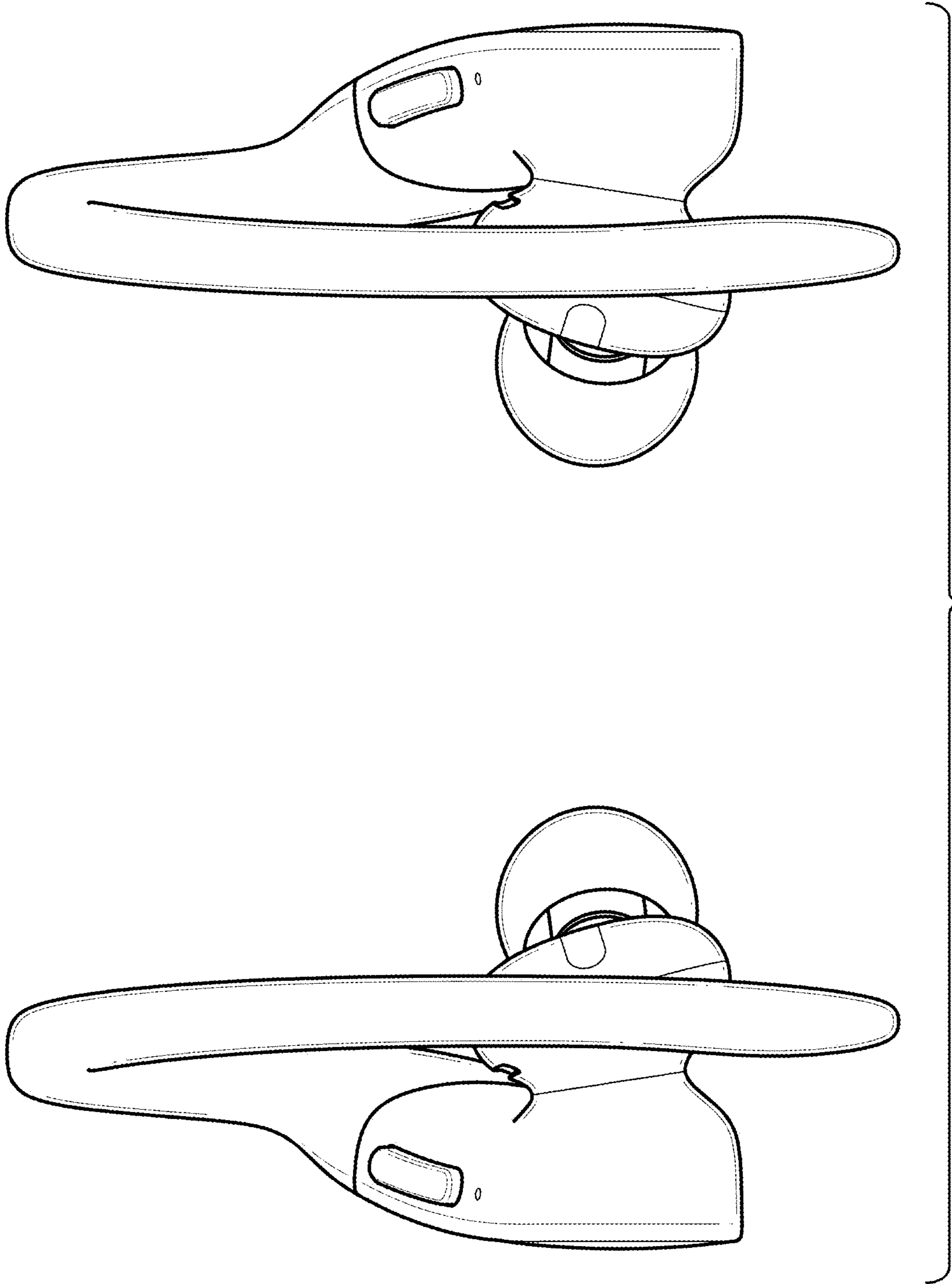


FIG. 4

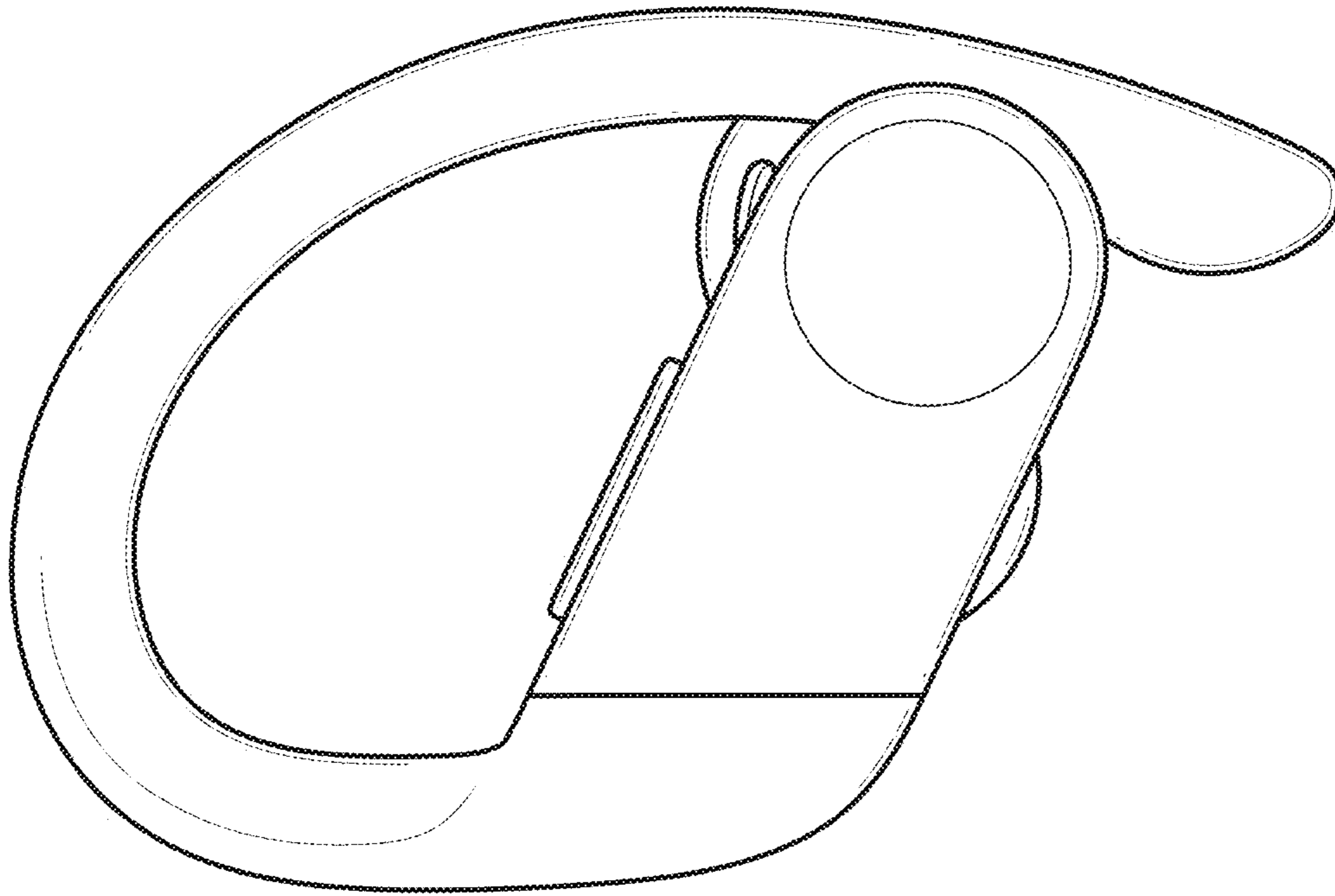


FIG. 6

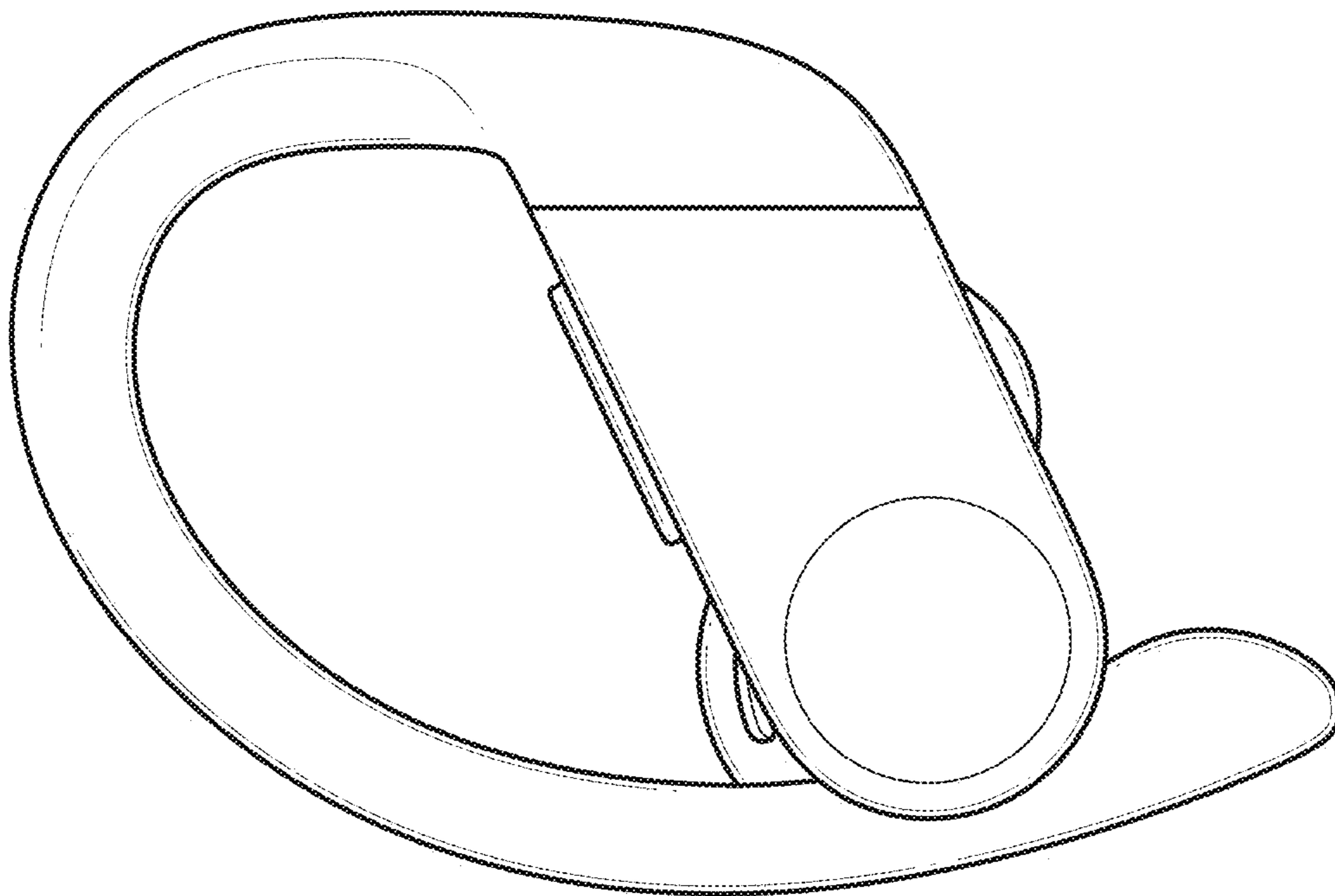


FIG. 5



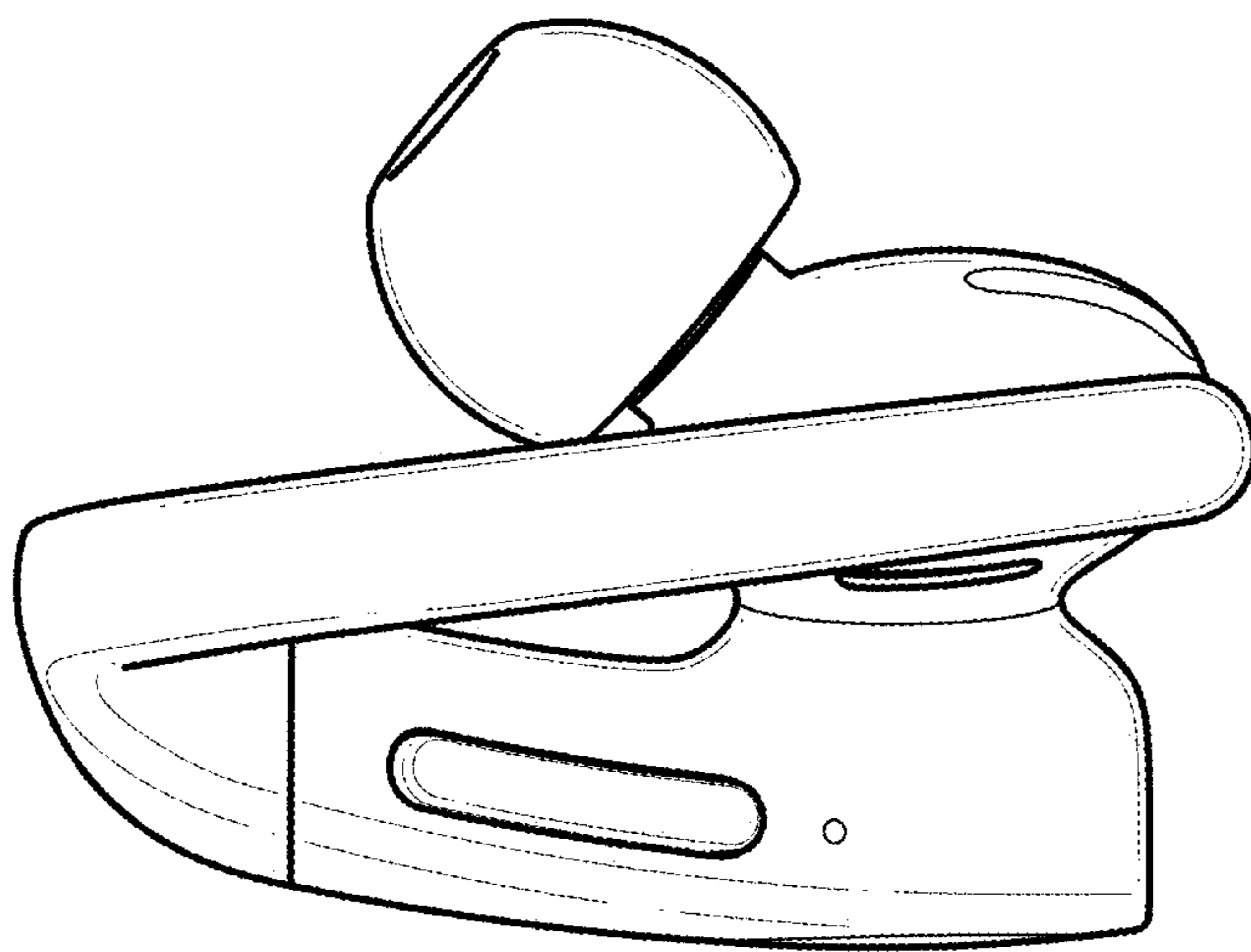
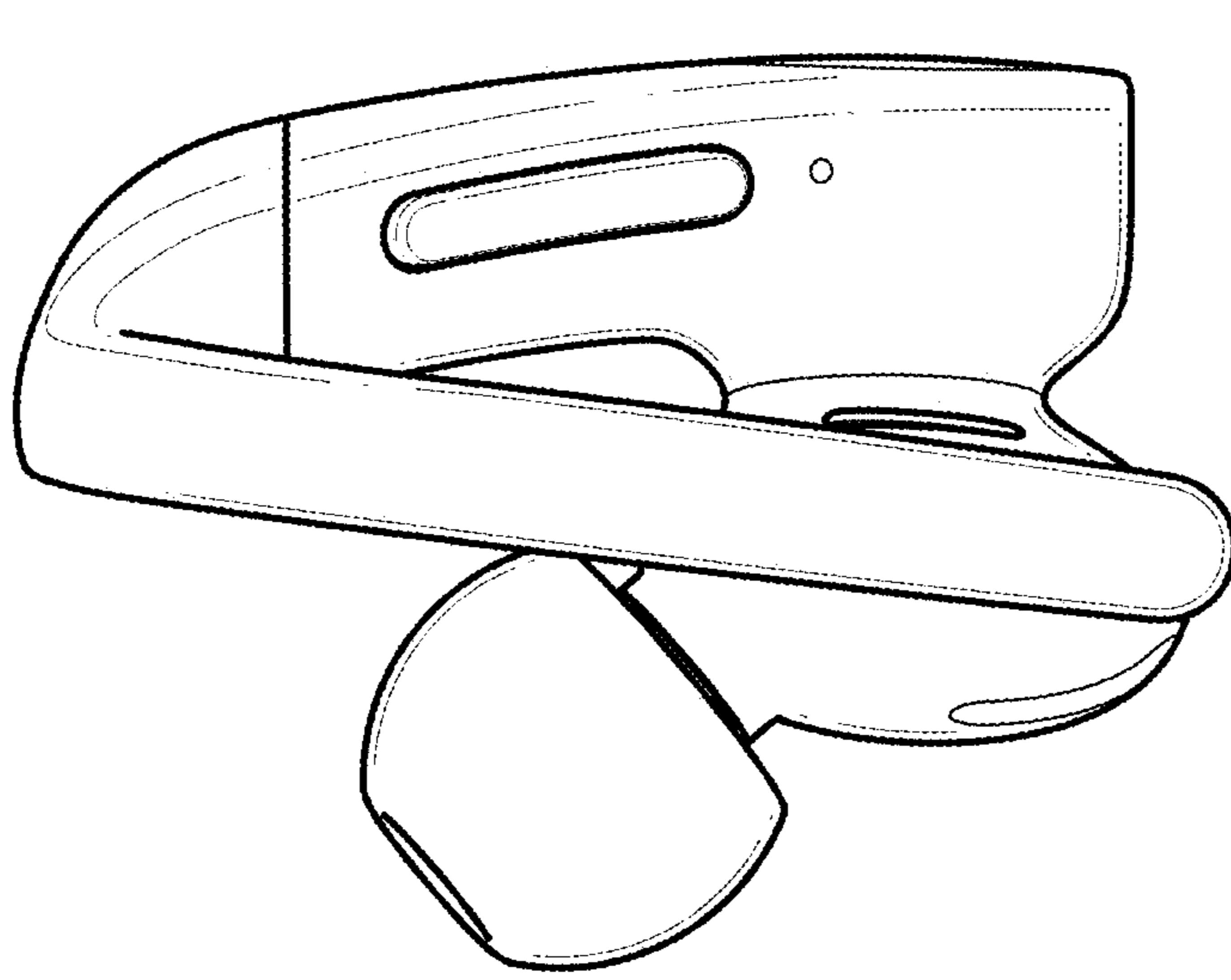


FIG. 7

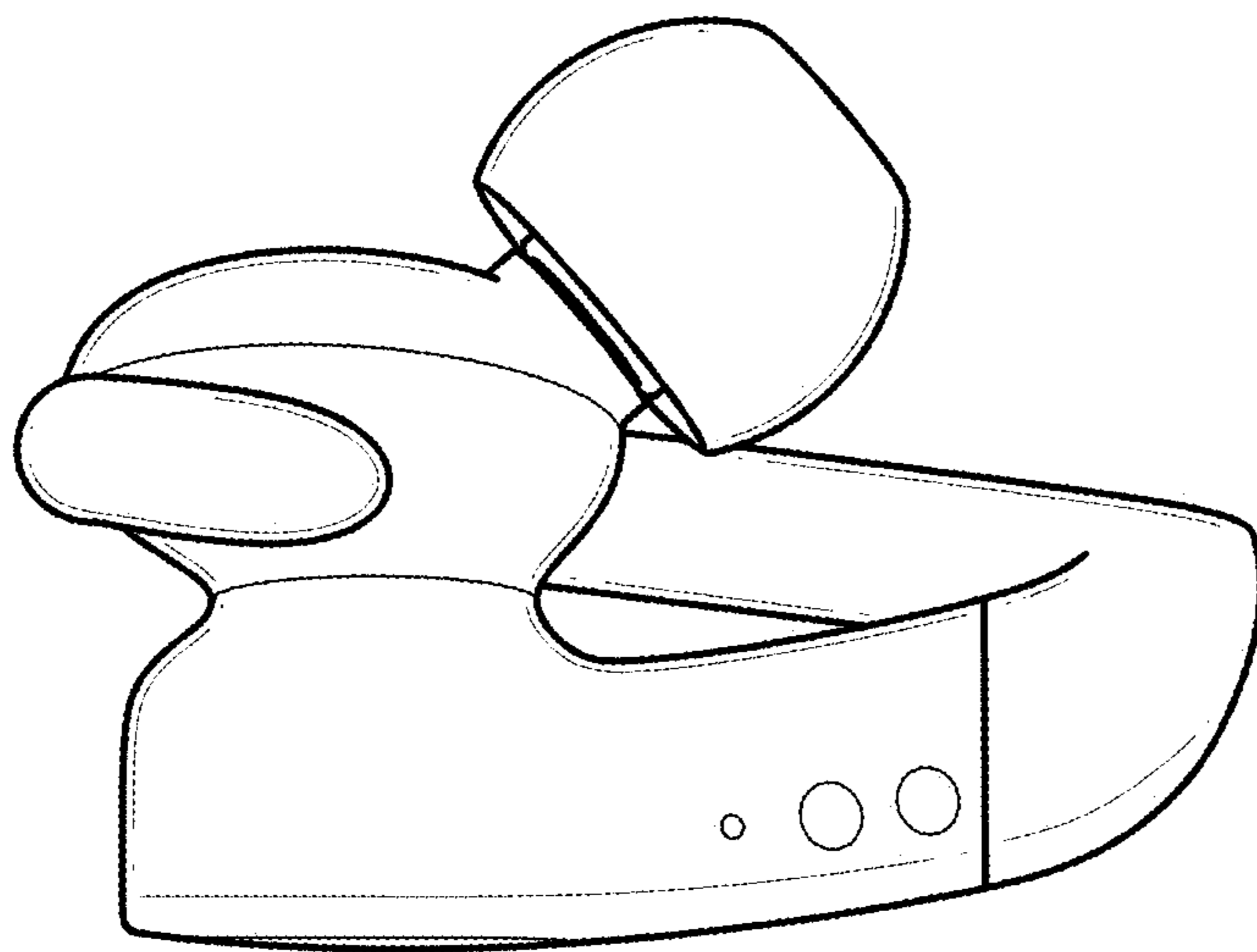
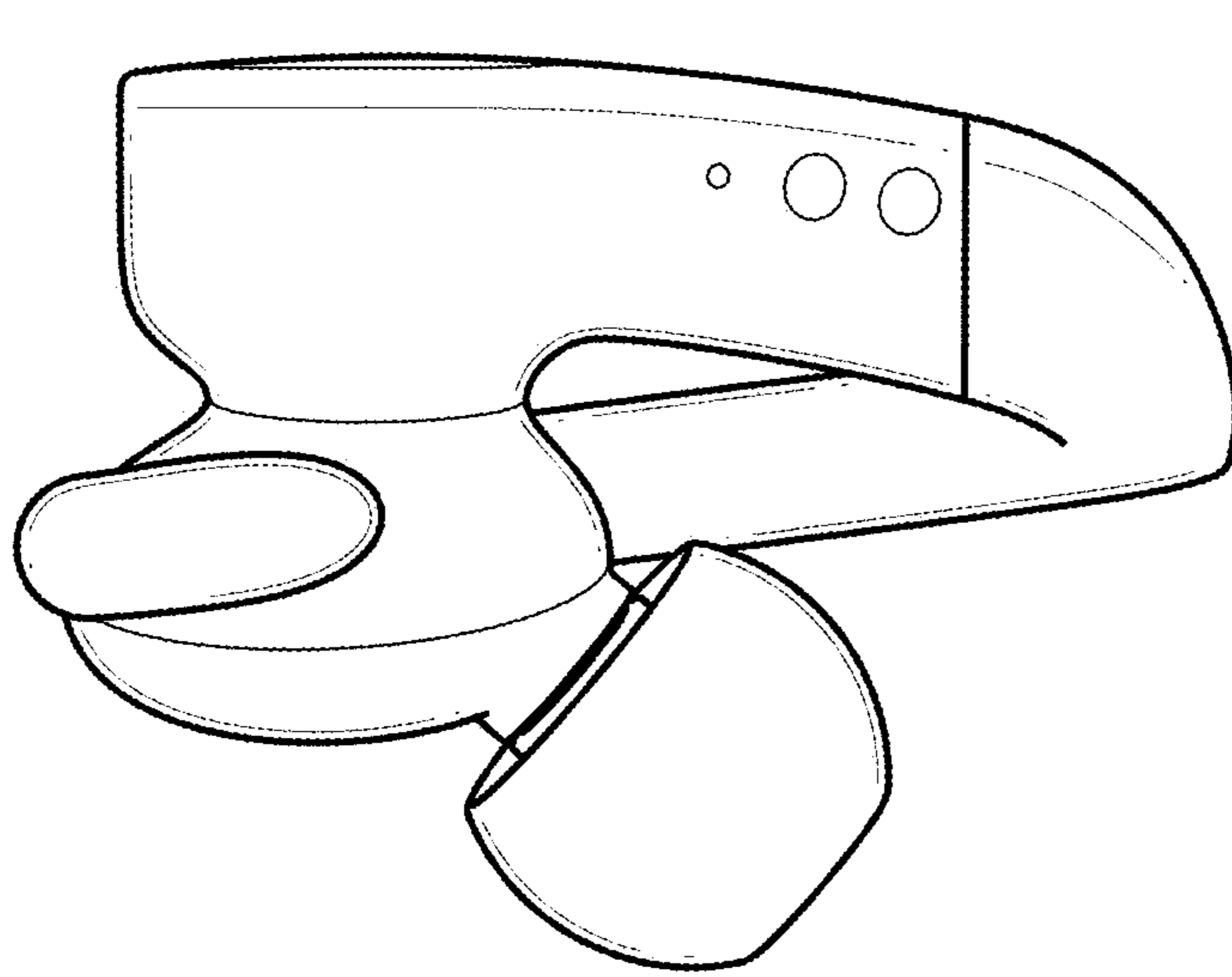


FIG. 8

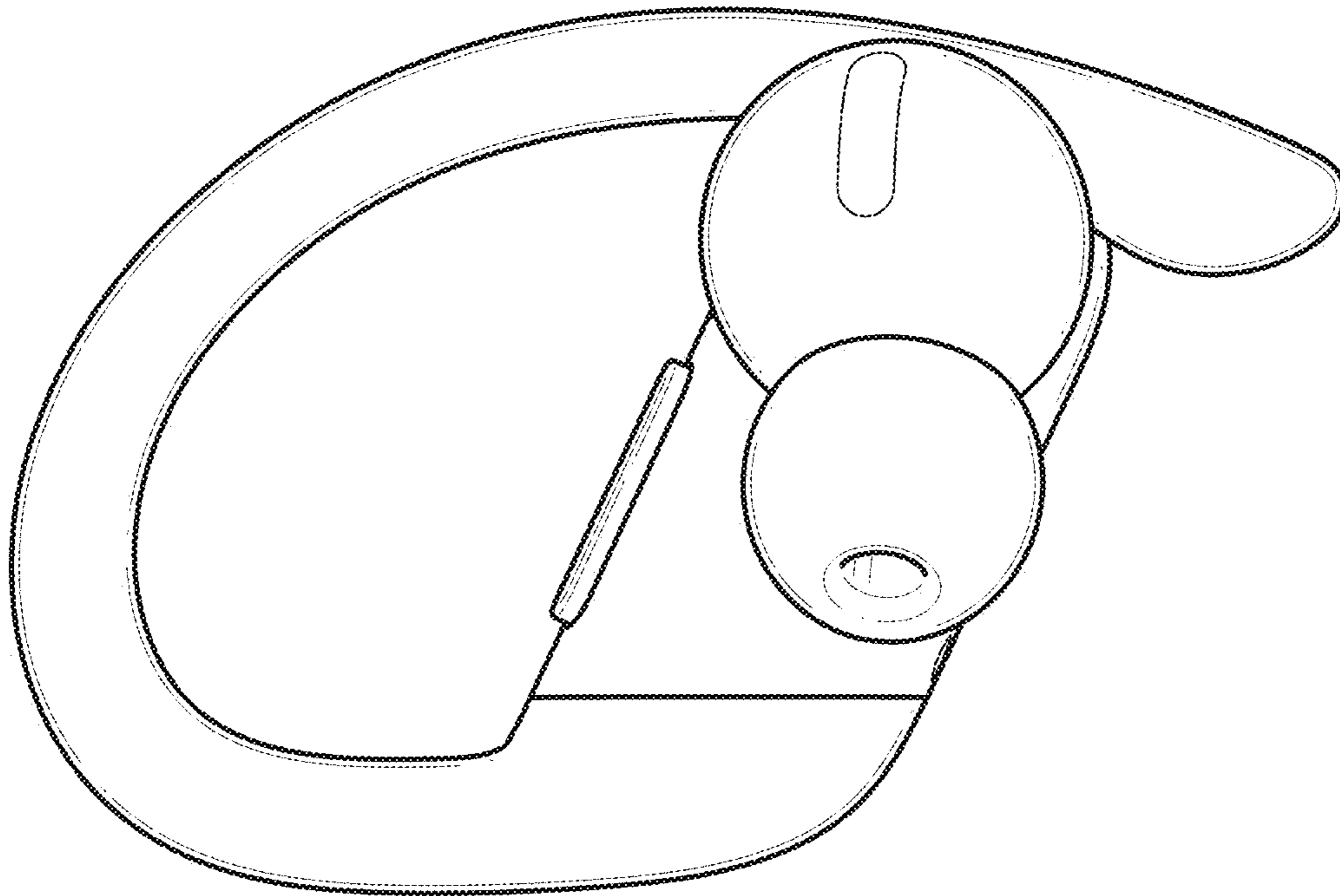


FIG. 10

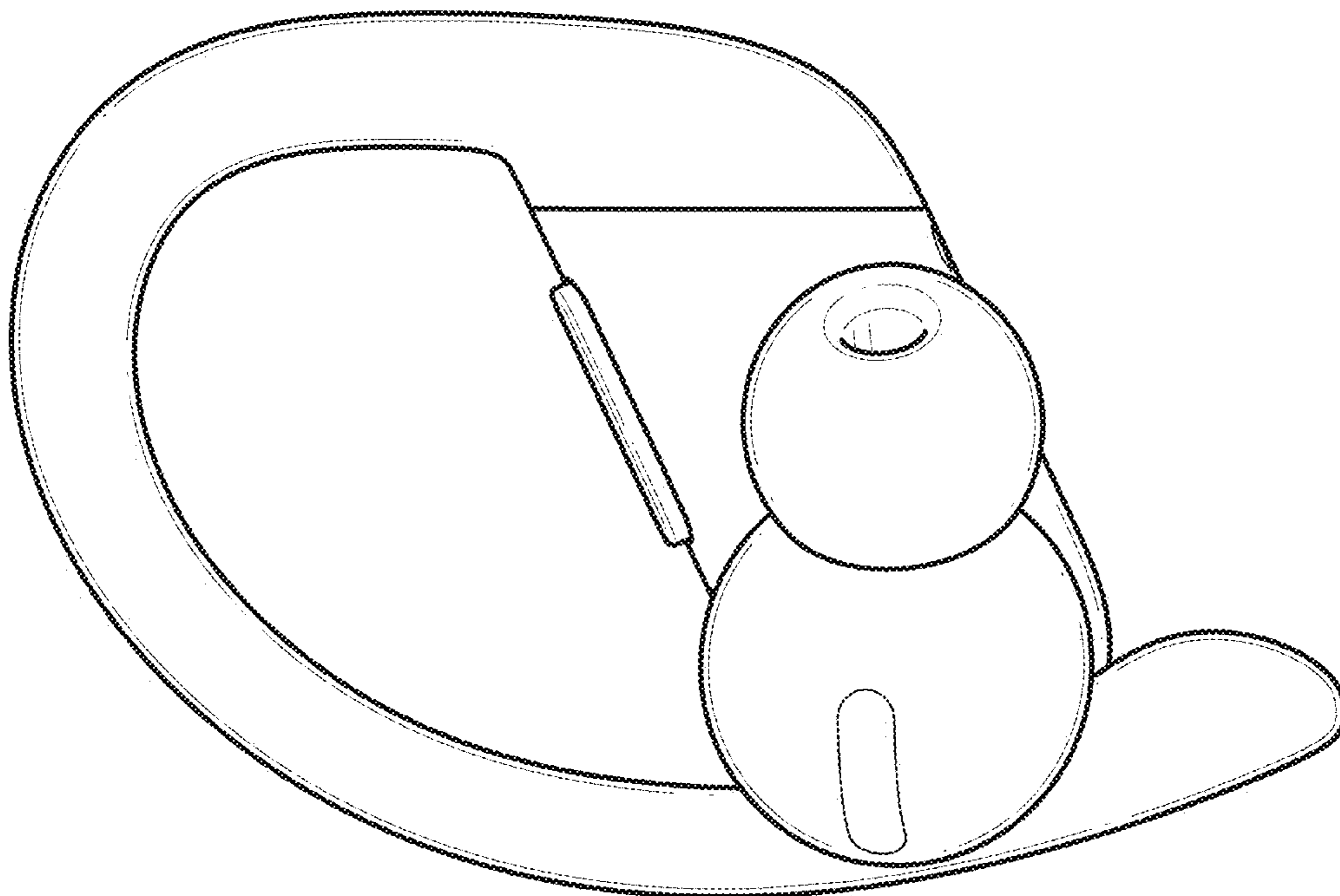


FIG. 9