



US00D916056S

(12) **United States Design Patent** (10) **Patent No.:** **US D916,056 S**
Boyd et al. (45) **Date of Patent:** **** Apr. 13, 2021**

(54) **EARPHONE**
(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)

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

(Continued)

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

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

(21) Appl. No.: **29/721,503**

(22) Filed: **Jan. 21, 2020**

Related U.S. Application Data

(63) Continuation of application No. 29/685,002, filed on Mar. 25, 2019, now Pat. No. Des. 897,320.

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

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

(58) **Field of Classification Search**
USPC D14/223, 205; D24/174; 128/864, 865, 128/866; 381/380, 381, 328, 322; 455/90.3, 575.1, 569.1
CPC H04R 1/10; H04R 25/00; H04R 1/1033; 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

FOREIGN PATENT DOCUMENTS

CN 306140801 * 10/2020
CN 306161834 * 11/2020

(Continued)

Primary Examiner — Paula Allen Greene

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

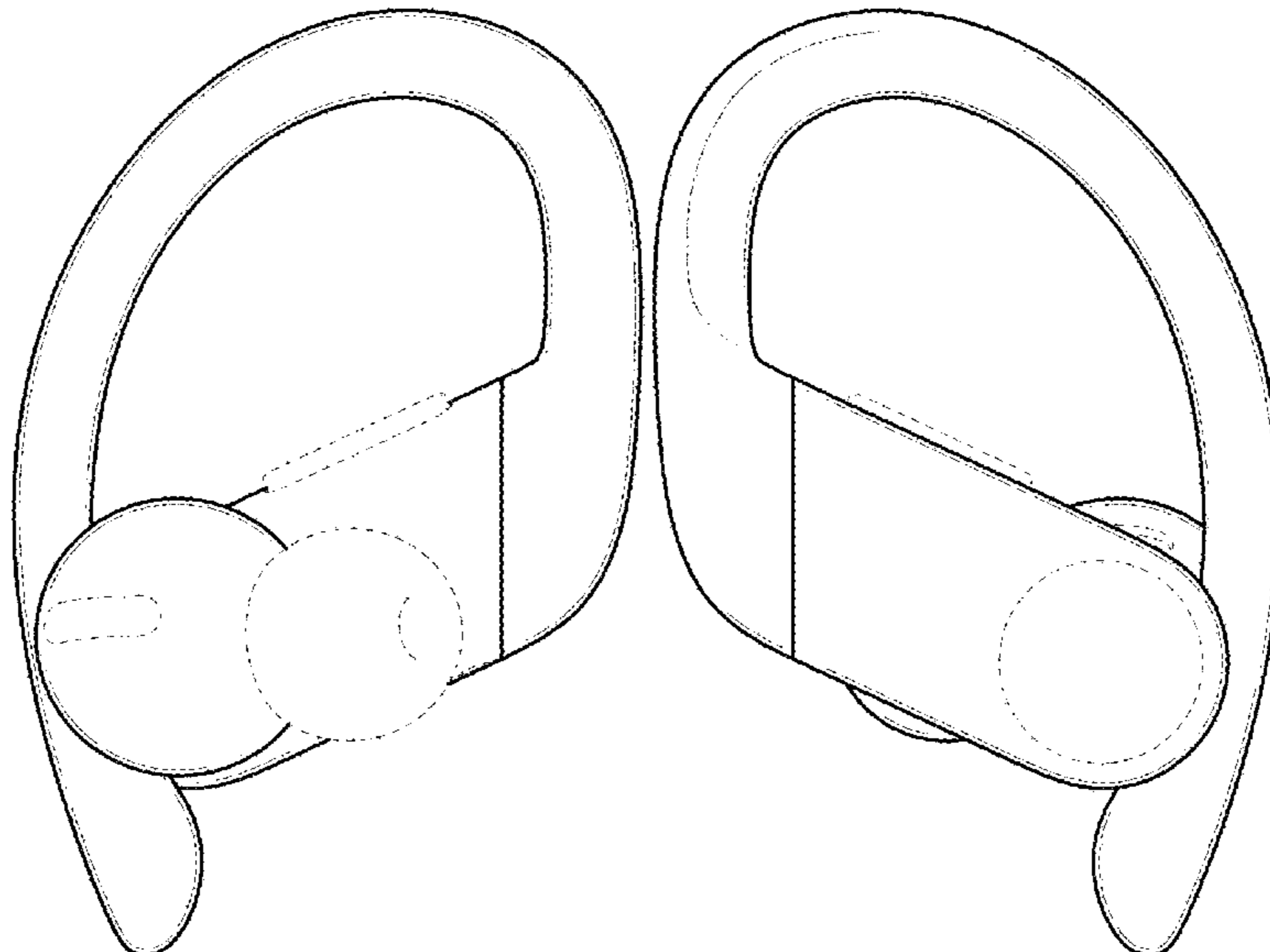
(57) **CLAIM**

The ornamental design for 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 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; and,
FIG. 8 is a bottom view thereof.
The broken lines in the figures show portions of the earphone that form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

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
 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
 D686,196 S 7/2013 Lee et al.
 D691,580 S 10/2013 Cho et al.
 D695,275 S 12/2013 Chee
 D699,213 S 2/2014 Burgett et al.
 8,655,005 B2 2/2014 Birger et al.
 D700,905 S 3/2014 Pavitsich
 D707,652 S 6/2014 Brunner et al.
 D710,333 S 8/2014 Davies et al.
 D712,382 S 9/2014 Brunner et al.
 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
 D725,637 S 3/2015 Nakajima
 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 et al.
 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 et al.
 9,197,956 B2 11/2015 Iseberg et al.
 D745,862 S 12/2015 Otani et al.
 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
 D780,721 S * 3/2017 Brunner D14/223
 D782,996 S 4/2017 Zhu
 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
 D807,331 S 1/2018 Morimoto
 D809,487 S 2/2018 Lee et al.
 D810,053 S 2/2018 Otani et al.
 D816,060 S 4/2018 Wei
 D817,301 S 5/2018 Aoyagi et al.
 D817,305 S 5/2018 Hsieh et al.
 D821,364 S 6/2018 Brunner et al.
 D831,610 S 10/2018 Aoyagi et al.
 D834,003 S 11/2018 Maeda
 10,154,334 B1 * 12/2018 Lin H04R 1/1041

D838,256 S 1/2019 Wang et al.
 D838,692 S * 1/2019 Fu D14/223
 D843,344 S 3/2019 Zhu
 D844,588 S 4/2019 Brunner et al.
 D845,926 S 4/2019 Aoyagi et al.
 D847,780 S 5/2019 Brunner et al.
 D858,482 S * 9/2019 Ma D14/205
 D860,164 S 9/2019 Lin
 D863,265 S * 10/2019 Hu D14/223
 D869,435 S 12/2019 Sanhua et al.
 D871,375 S * 12/2019 Meyer D14/223
 D873,247 S * 1/2020 Zhu D14/223
 D873,789 S 1/2020 Hu
 D878,338 S 3/2020 Yang
 D881,850 S 4/2020 Zhang
 D883,259 S 5/2020 Ma
 D885,370 S 5/2020 Hu
 D888,022 S * 6/2020 McCune D14/223
 D888,023 S * 6/2020 Gao D14/223
 D890,135 S * 7/2020 Tompson D14/217
 D890,137 S * 7/2020 Ma D14/223
 D896,204 S * 9/2020 Brunner D14/223
 D897,320 S * 9/2020 Boyd D14/223
 D899,406 S * 10/2020 Ma D14/223
 D904,761 S * 12/2020 Koneru D3/274
 D904,762 S * 12/2020 Koneru D3/274
 D904,763 S * 12/2020 Koneru D3/274
 D905,002 S * 12/2020 Koneru D14/205
 D907,608 S * 1/2021 Xie D14/223
 2007/0104345 A1 5/2007 Yang
 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
 2014/0119555 A1 5/2014 Lu
 2014/0138150 A1 5/2014 Huang
 2014/0166389 A1 6/2014 Young-Mun
 2015/0330478 A1 11/2015 Grewal
 2017/0105679 A1 4/2017 Gil
 2020/0100011 A1 * 3/2020 Bruss H04R 1/1016
 2020/0154196 A1 * 5/2020 Kolton H04R 1/105
 2020/0314518 A1 * 10/2020 Hatfield H04R 1/1041
 2020/0413179 A1 * 12/2020 Boyd H04R 1/1016

FOREIGN PATENT DOCUMENTS

CN 306203658 * 12/2020
 EM 002765230-0001 9/2015
 EM 004596161-0001 1/2018
 EM 006377511-0001 4/2019
 EM 006950184-0001 10/2019
 EM 006910618-0001 1/2020
 EM 008330336-0001 * 12/2020
 JP D1616785 10/2018
 JP D1665322 * 3/2019
 JP D1665323 * 3/2019
 JP D1665324 * 3/2019

* cited by examiner

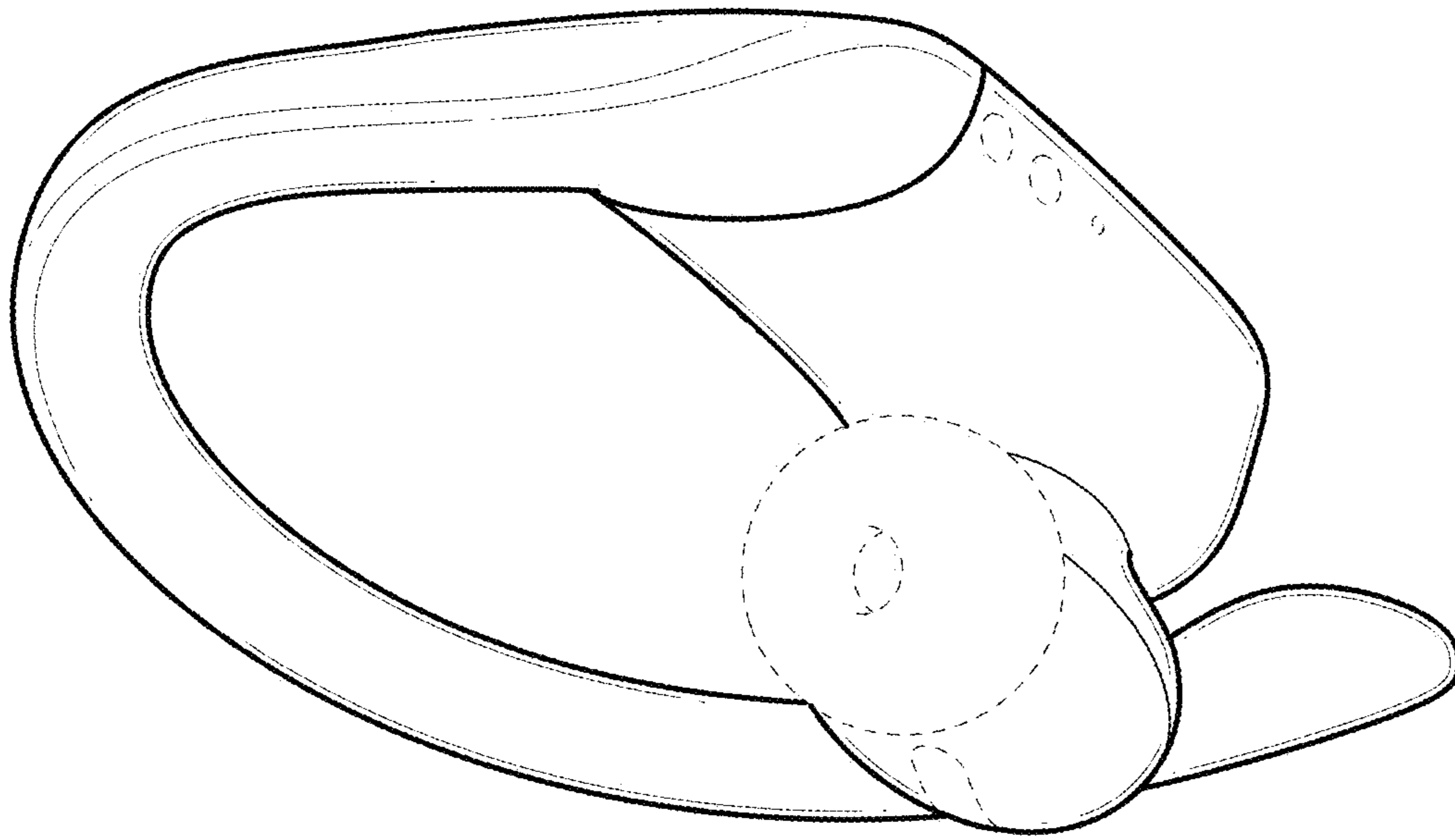


FIG. 2

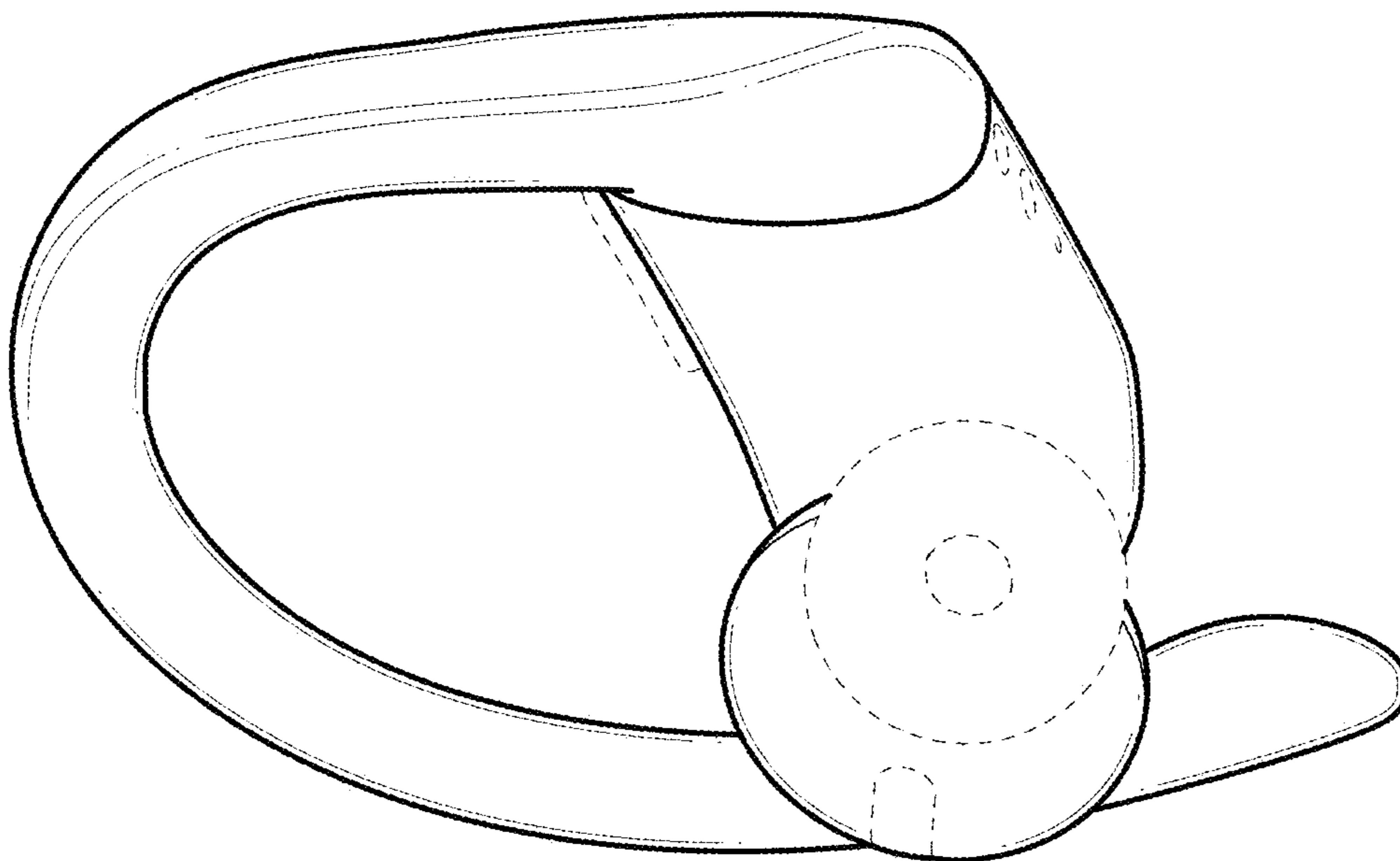


FIG. 1

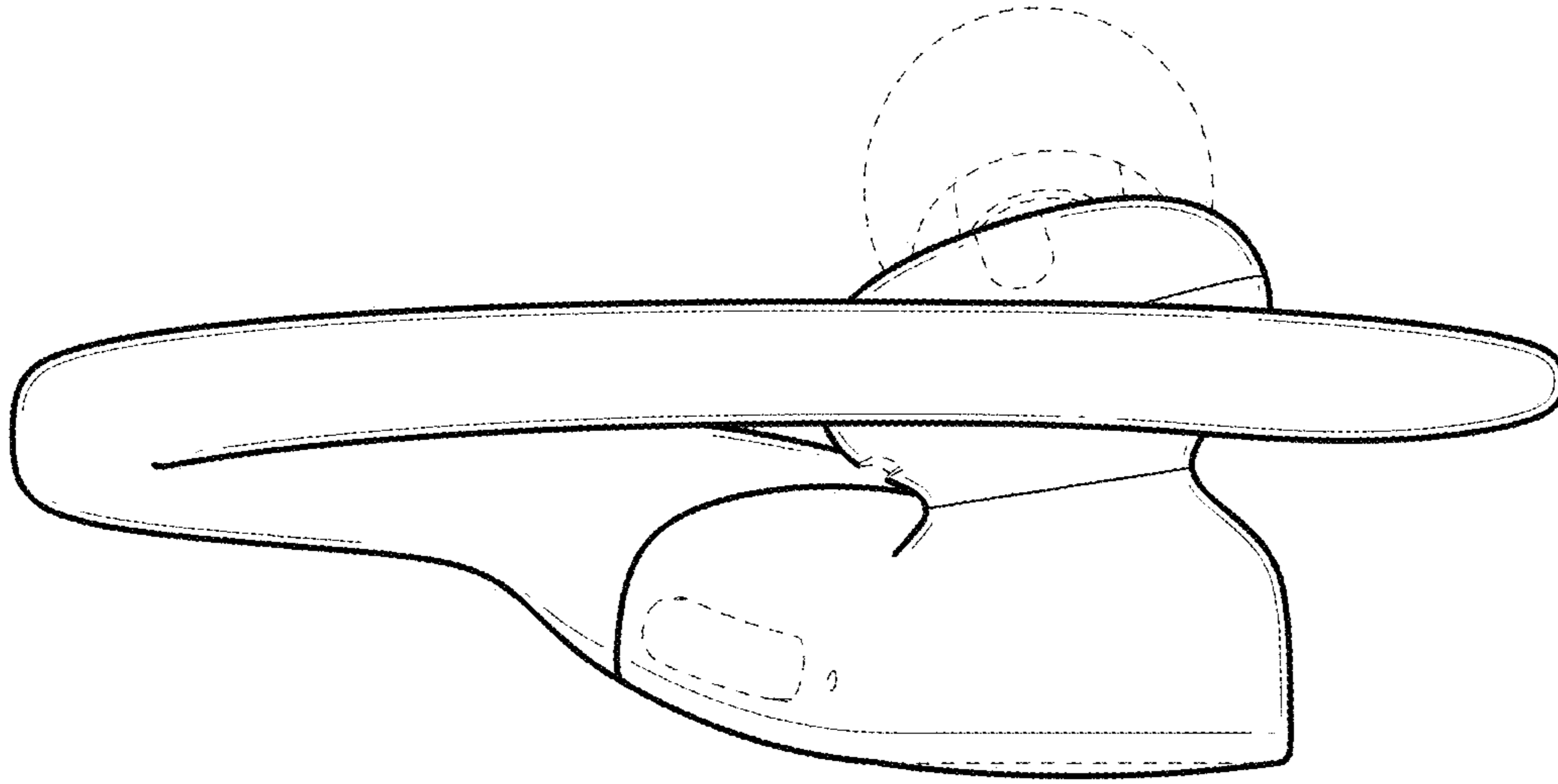


FIG. 4

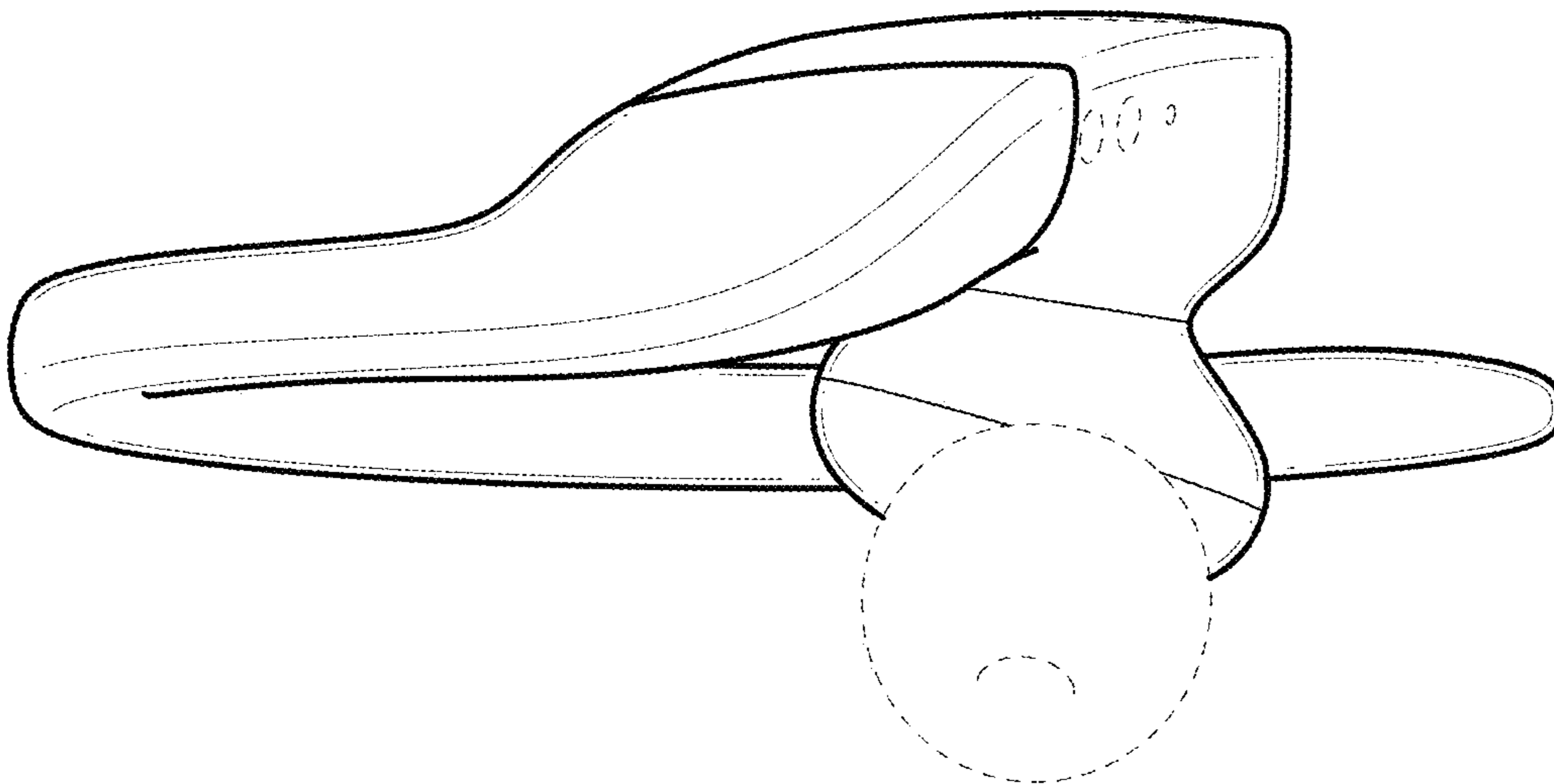


FIG. 3

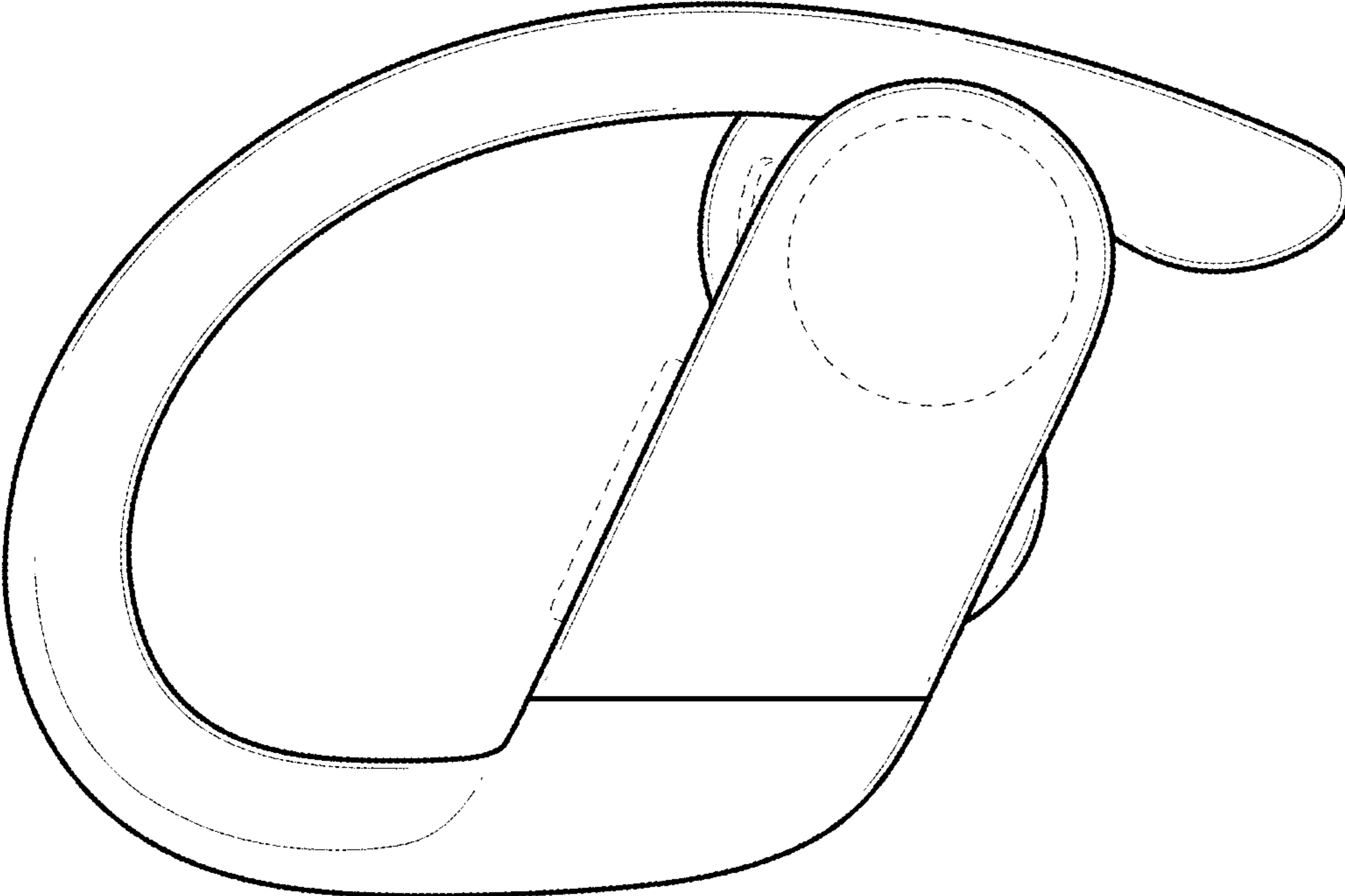


FIG. 6

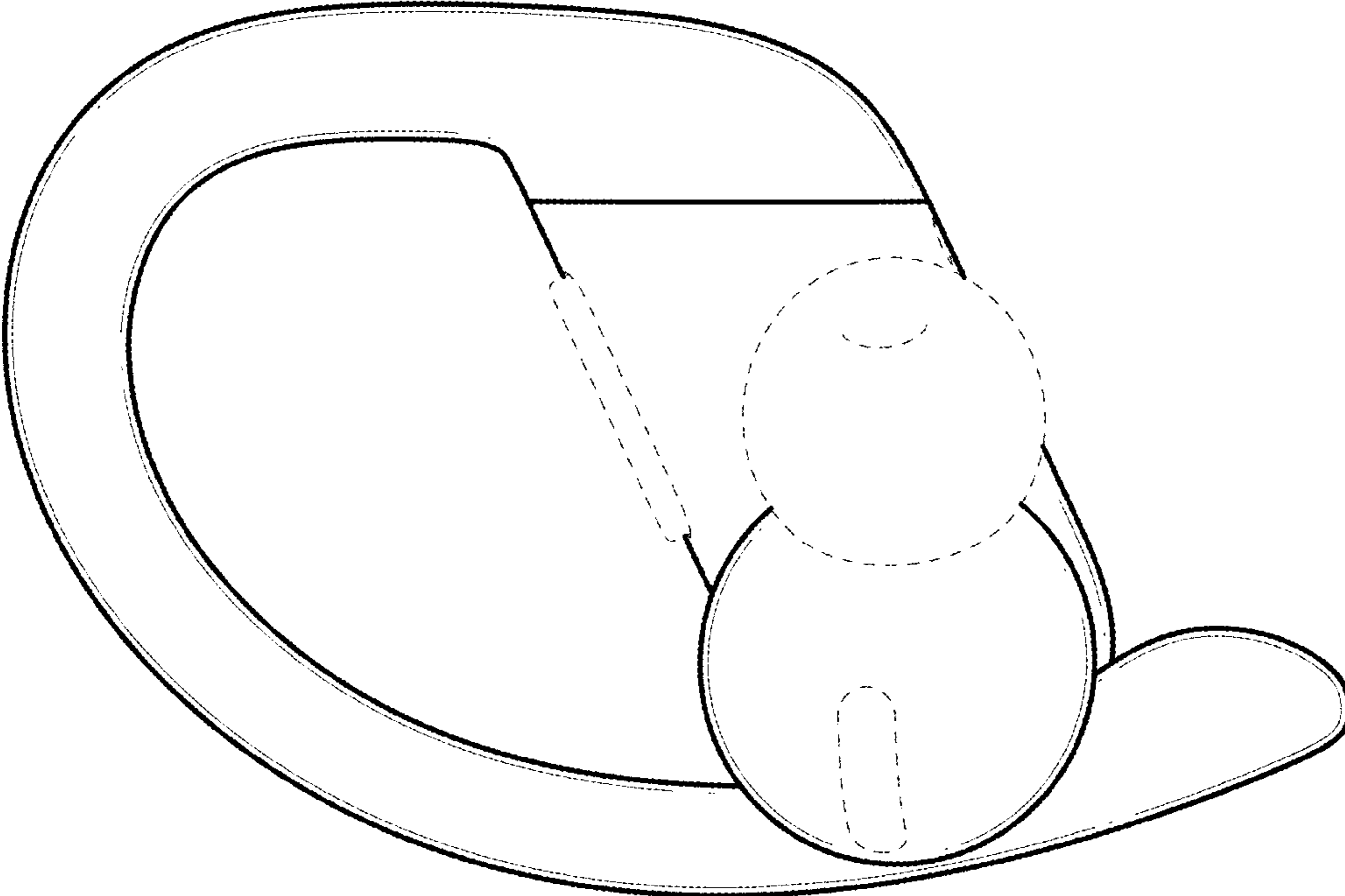


FIG. 5

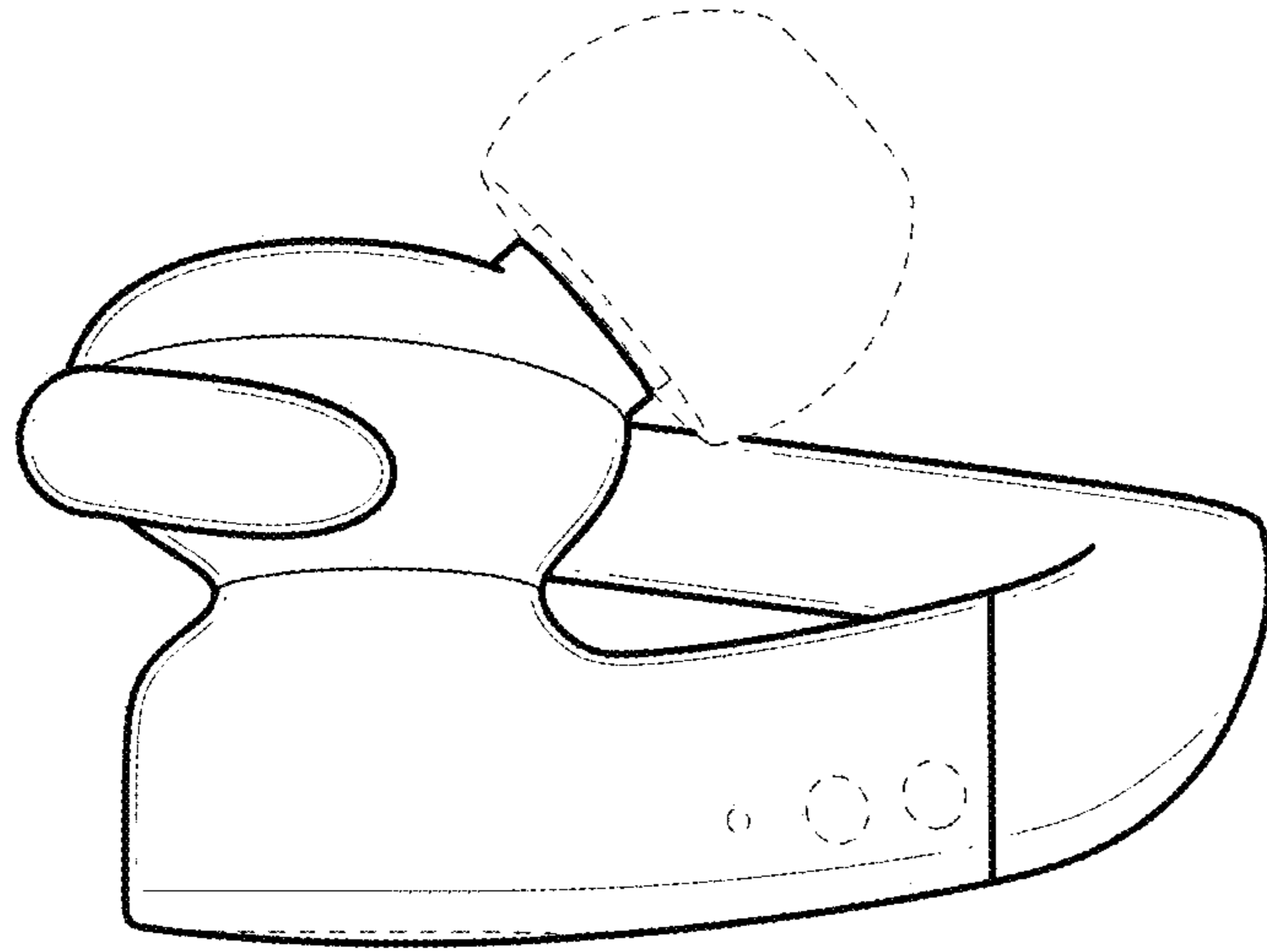


FIG. 8

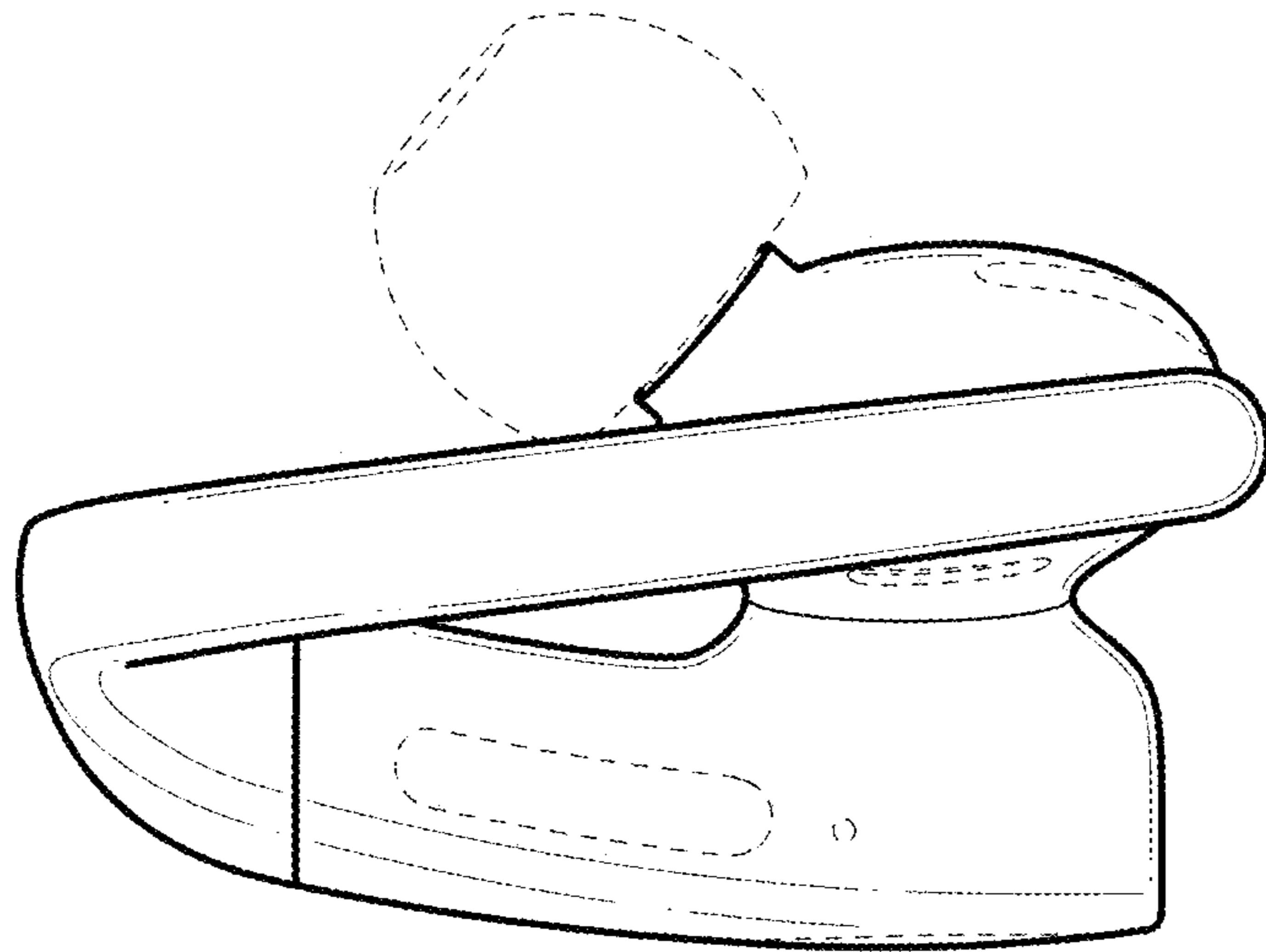


FIG. 7