



US00D945404S

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

(10) **Patent No.:** **US D945,404 S**
(45) **Date of Patent:** **** Mar. 8, 2022**

(54) **PAIR OF EAR BUDS**

(71) Applicant: **GN AUDIO A/S**, Ballerup (DK)

(72) Inventor: **Johan Birger**, Ballerup (DK)

(73) Assignee: **GN AUDIO A/S**, Ballerup (DK)

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

(21) Appl. No.: **29/726,448**

(22) Filed: **Mar. 3, 2020**

(30) **Foreign Application Priority Data**

Sep. 4, 2019 (EM) 001474134-0001
Sep. 4, 2019 (EM) 001474134-0002

(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; D13/108; 320/110; 455/90.3,
455/575.1, 569.1

CPC H04R 1/10; H04R 25/00; H04R 25/02;
H04R 1/1066; H04R 1/1016; H04R
5/033; H04R 5/0335; H04R 1/105; H04R
1/1083; H04R 1/1091; H02J 7/00

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

904,715 A * 11/1908 McWilliams 128/864
D182,255 S 3/1958 Smith
3,902,628 A 9/1975 Schurman
D266,271 S * 9/1982 Johanson D24/174
D289,262 S 4/1987 Goetz
D291,608 S 8/1987 Chevassus
4,702,238 A * 10/1987 Scott A61F 11/08
128/867

(Continued)

FOREIGN PATENT DOCUMENTS

EM 007971882-0001 5/2020
EM 008049761-0001 7/2020

(Continued)

OTHER PUBLICATIONS

Extended European Search Report for European patent application
No. 18211033.8 dated May 23, 2019.

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Hamre, Schumann,
Mueller & Larson, P.C.

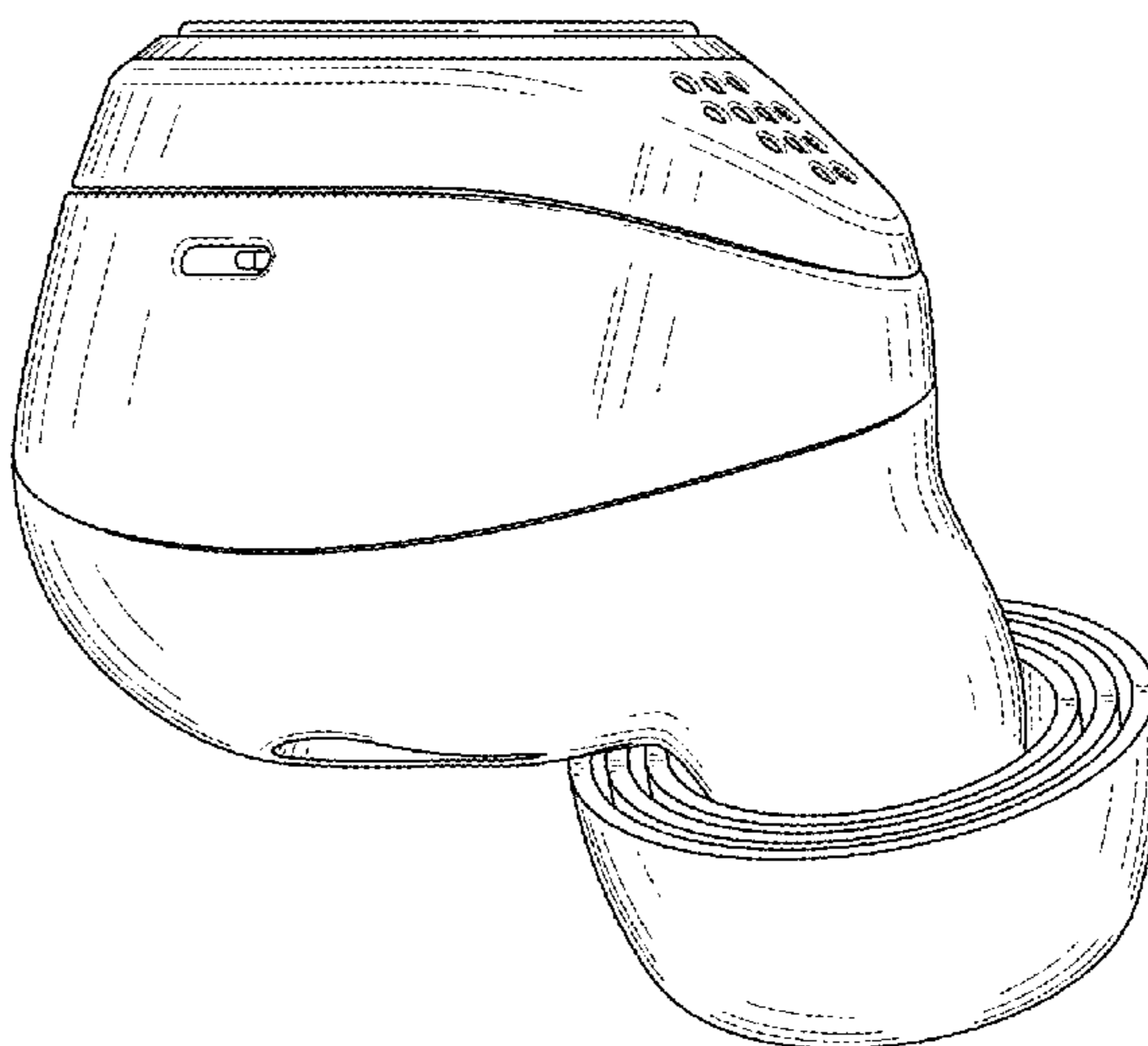
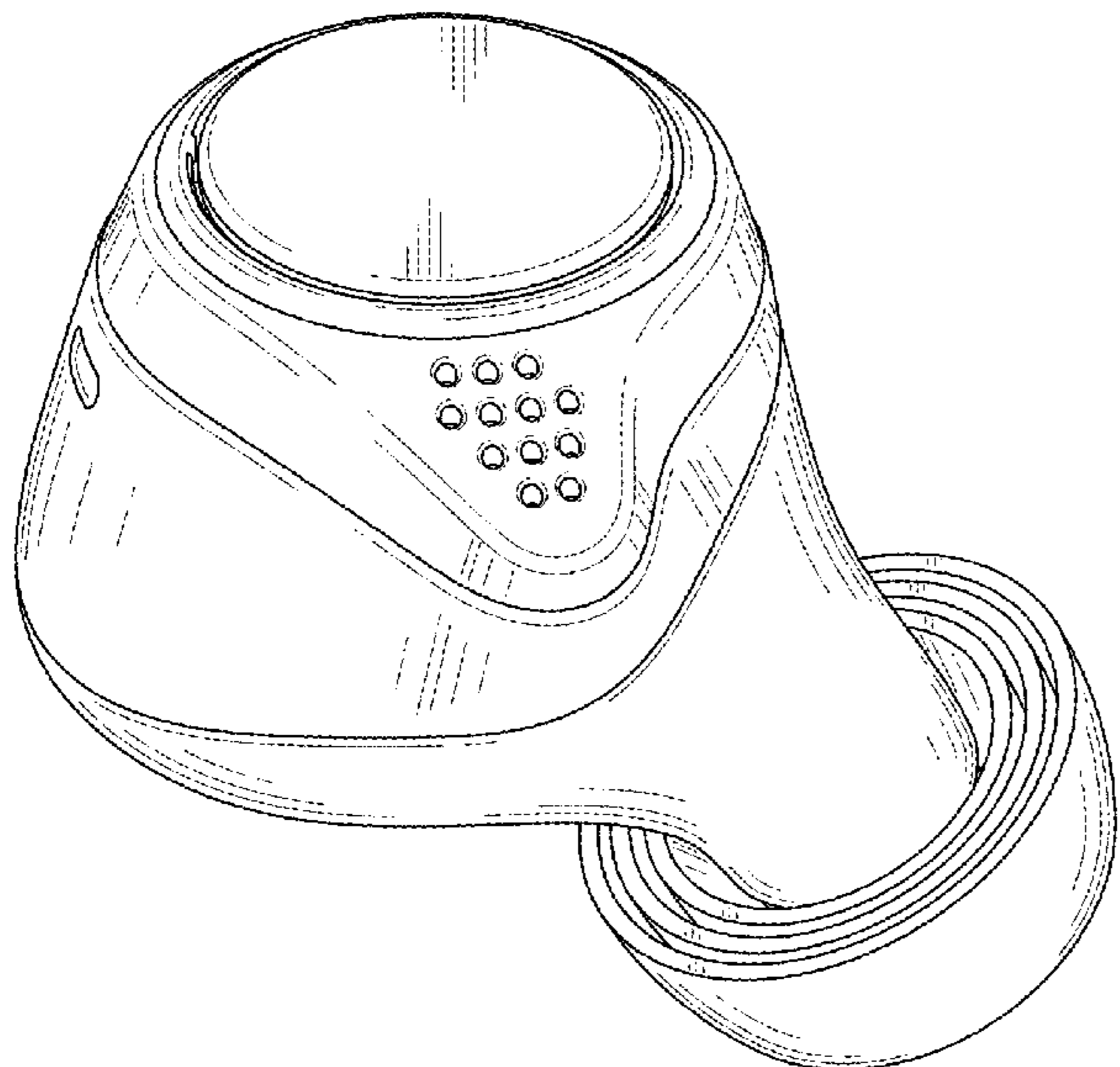
(57) **CLAIM**

The ornamental design for pair of ear buds, as shown and
described.

DESCRIPTION

FIG. 1 is a perspective view of the top front perspective view
(right ear bud) of a pair of ear buds showing my new design;
FIG. 2 is a front (Right Ear Bud) view thereof.
FIG. 3 is a rear (Right Ear Bud) view thereof.
FIG. 4 is a left (Right Ear Bud) view thereof.
FIG. 5 is a right (Right Ear Bud) view thereof.
FIG. 6 is a top (Right Ear Bud) view thereof.
FIG. 7 is a bottom (Right Ear Bud) view thereof.
FIG. 8 is a top front perspective view (left ear bud) of a pair
of ear buds showing my new design;
FIG. 9 is a front (Left Ear Bud) view thereof.
FIG. 10 is a rear (Left Ear Bud) view thereof.
FIG. 11 is a left (Left Ear Bud) view thereof.
FIG. 12 is a right (Left Ear Bud) view thereof.
FIG. 13 is a top (Left Ear Bud) view thereof; and,
FIG. 14 is a bottom (Left Ear Bud) view thereof.
The features shown in broken lines depict environmental
subject matter only and form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,353,946 A 10/1994 Behrend
 5,782,371 A 7/1998 Baerenwald et al.
 D406,057 S 2/1999 Hager
 D449,165 S 10/2001 van der Hulst
 D469,607 S 2/2003 Wolff
 D553,077 S 10/2007 Kim et al.
 D586,557 S 2/2009 Jalet
 D597,084 S * 7/2009 Gondo D14/223
 7,784,583 B1 8/2010 Hall
 D631,470 S * 1/2011 Yoneyama D14/223
 D635,558 S * 4/2011 Zheng D14/223
 D641,010 S * 7/2011 Kwon D14/223
 D641,164 S 7/2011 Cornu et al.
 8,189,846 B2 5/2012 Tiscareno
 D668,244 S * 10/2012 Matsumura D14/223
 D673,430 S 1/2013 Glassman
 D687,021 S * 7/2013 Yuen D14/223
 D697,058 S * 1/2014 Thompson D14/223
 D711,858 S * 8/2014 Yang D14/223
 8,910,781 B2 12/2014 Pipes
 9,237,394 B2 1/2016 Seo et al.
 9,445,631 B1 9/2016 Patel et al.
 D772,572 S 11/2016 Palmborg et al.
 D800,097 S * 10/2017 Chen D14/223
 D806,648 S 1/2018 Beedham et al.
 D806,879 S * 1/2018 Horbinski D24/174
 D810,431 S 2/2018 Kim et al.
 D817,309 S * 5/2018 Czaniecki D14/223
 D818,268 S 5/2018 Akana et al.
 9,961,434 B2 * 5/2018 Kelly H04R 1/1066
 D839,583 S 2/2019 Cao
 D841,580 S * 2/2019 Bao D13/108
 D841,581 S 2/2019 Bonahoom
 D841,626 S * 2/2019 Tang D14/223
 D841,627 S * 2/2019 Wen D14/223
 D843,354 S * 3/2019 Kumano D14/223
 D845,932 S * 4/2019 Lu D14/223
 D846,264 S 4/2019 Wu
 D849,401 S 5/2019 Akana et al.
 D853,116 S 7/2019 Bergman et al.
 D864,110 S 10/2019 Koshimura
 D870,451 S 12/2019 Birger
 D873,248 S * 1/2020 Weicheng D14/223
 D878,045 S 3/2020 Akana et al.
 D881,572 S 4/2020 Wang et al.
 D882,259 S 4/2020 Liu
 D886,455 S 6/2020 Williamson et al.
 D887,351 S 6/2020 Bonahoom
 D887,395 S * 6/2020 Wang D14/223
 D888,408 S 6/2020 Lee et al.
 10,692,482 B2 * 6/2020 Zhu H04R 1/1016
 10,701,472 B1 6/2020 Xu et al.
 10,715,905 B2 * 7/2020 Wen G10K 11/17853
 D893,184 S 8/2020 Liu
 D893,185 S 8/2020 Liu
 D894,123 S 8/2020 Xiong

D895,580 S * 9/2020 Yu D14/223
 D896,205 S * 9/2020 Zhang D14/223
 D897,678 S 10/2020 Koh
 D897,997 S 10/2020 Zhang
 D898,664 S 10/2020 Bhutani
 D902,588 S 11/2020 Zhang
 10,827,249 B1 * 11/2020 Pine H04R 1/1025
 D904,025 S 12/2020 Ma
 D904,755 S 12/2020 Birger
 D905,664 S * 12/2020 He D14/223
 D908,667 S * 1/2021 He D14/223
 D909,995 S * 2/2021 Cai D14/223
 D910,603 S 2/2021 Li et al.
 D911,027 S 2/2021 Liang
 D913,223 S 3/2021 Li
 D918,138 S 5/2021 Ma
 D918,181 S * 5/2021 Bailey D14/223
 D920,235 S 5/2021 Liu
 D920,236 S 5/2021 Xie
 D920,958 S * 6/2021 Ye D14/223
 D921,582 S 6/2021 Liu
 D922,315 S 6/2021 Zhang
 D922,358 S * 6/2021 Li D14/223
 D922,946 S 6/2021 Chen
 D922,985 S 6/2021 Kataoka
 D928,124 S * 8/2021 Liu D14/223
 D929,378 S * 8/2021 Li D14/223
 D929,970 S * 9/2021 Lin D14/223
 D930,617 S * 9/2021 Tanaka D14/223
 D930,620 S * 9/2021 Lindenberger D14/223
 D930,622 S * 9/2021 Lin D14/223
 D931,256 S * 9/2021 Lu D14/223
 2002/0096517 A1 7/2002 Gelardi
 2008/0090622 A1 4/2008 Kim et al.
 2010/0246878 A1 9/2010 Sim et al.
 2012/0321103 A1 12/2012 Smailagic et al.
 2013/0148830 A1 6/2013 Sakaguchi et al.
 2014/0064548 A1 * 3/2014 Chu H04R 1/1091
 381/380
 2014/0348372 A1 11/2014 Seo et al.
 2017/0064429 A1 3/2017 Hirsch et al.
 2018/0020281 A1 1/2018 Wurtz
 2018/0060031 A1 * 3/2018 Boesen A61B 5/6817
 2018/0286375 A1 10/2018 Cattell et al.
 2018/0338193 A1 11/2018 Wallace et al.
 2019/0069066 A1 2/2019 Song et al.
 2020/0186906 A1 * 6/2020 Birch H04R 1/1016
 2020/0304899 A1 9/2020 Cramer et al.
 2020/0321792 A1 10/2020 Rhee et al.
 2021/0085047 A1 3/2021 Wright et al.

FOREIGN PATENT DOCUMENTS

EM 008428452-0001 2/2021
 EP 2736267 5/2014
 JP 2015109542 6/2015
 KR 300955725 5/2018

* cited by examiner

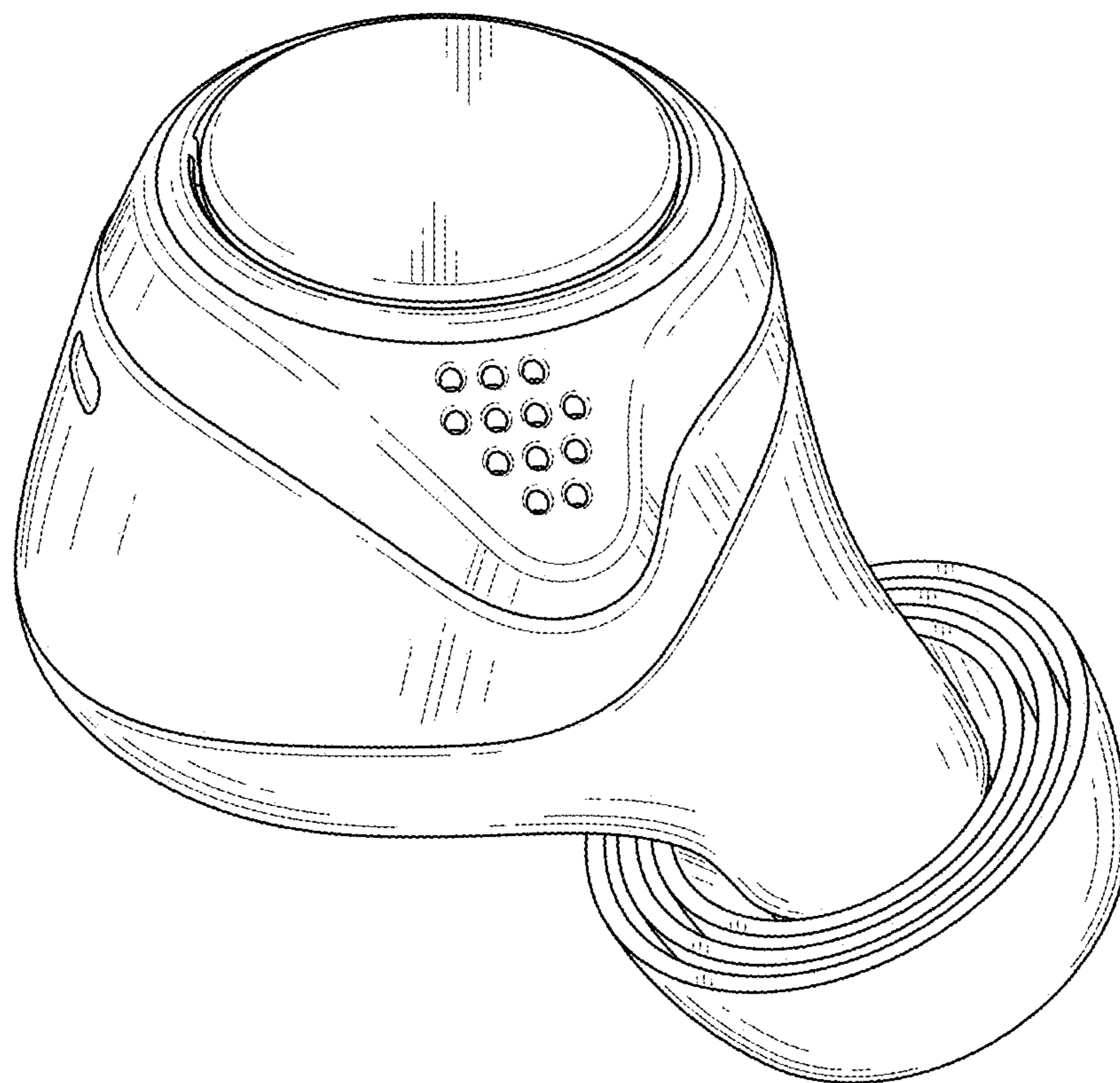


FIG. 1

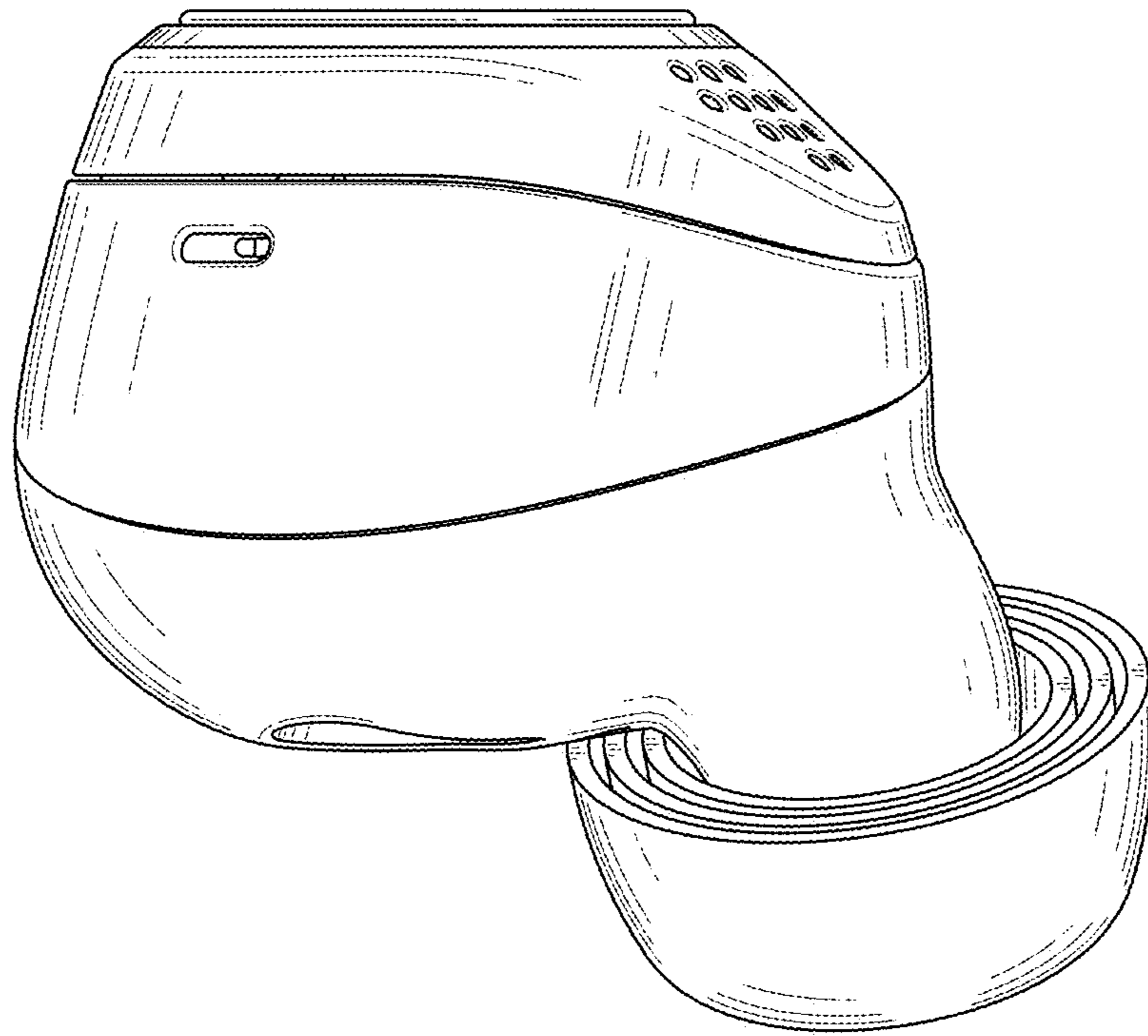


FIG. 2

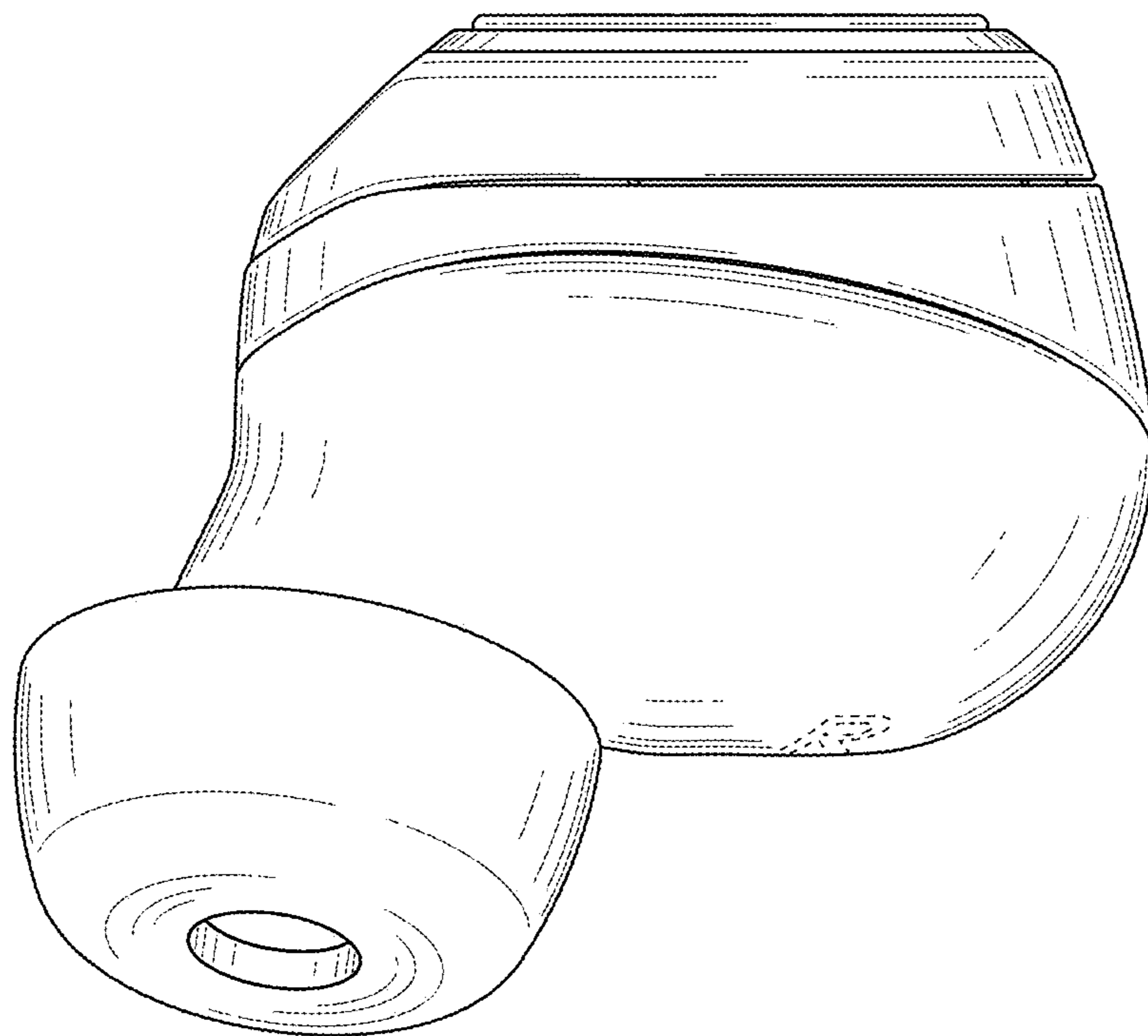


FIG. 3

3/8

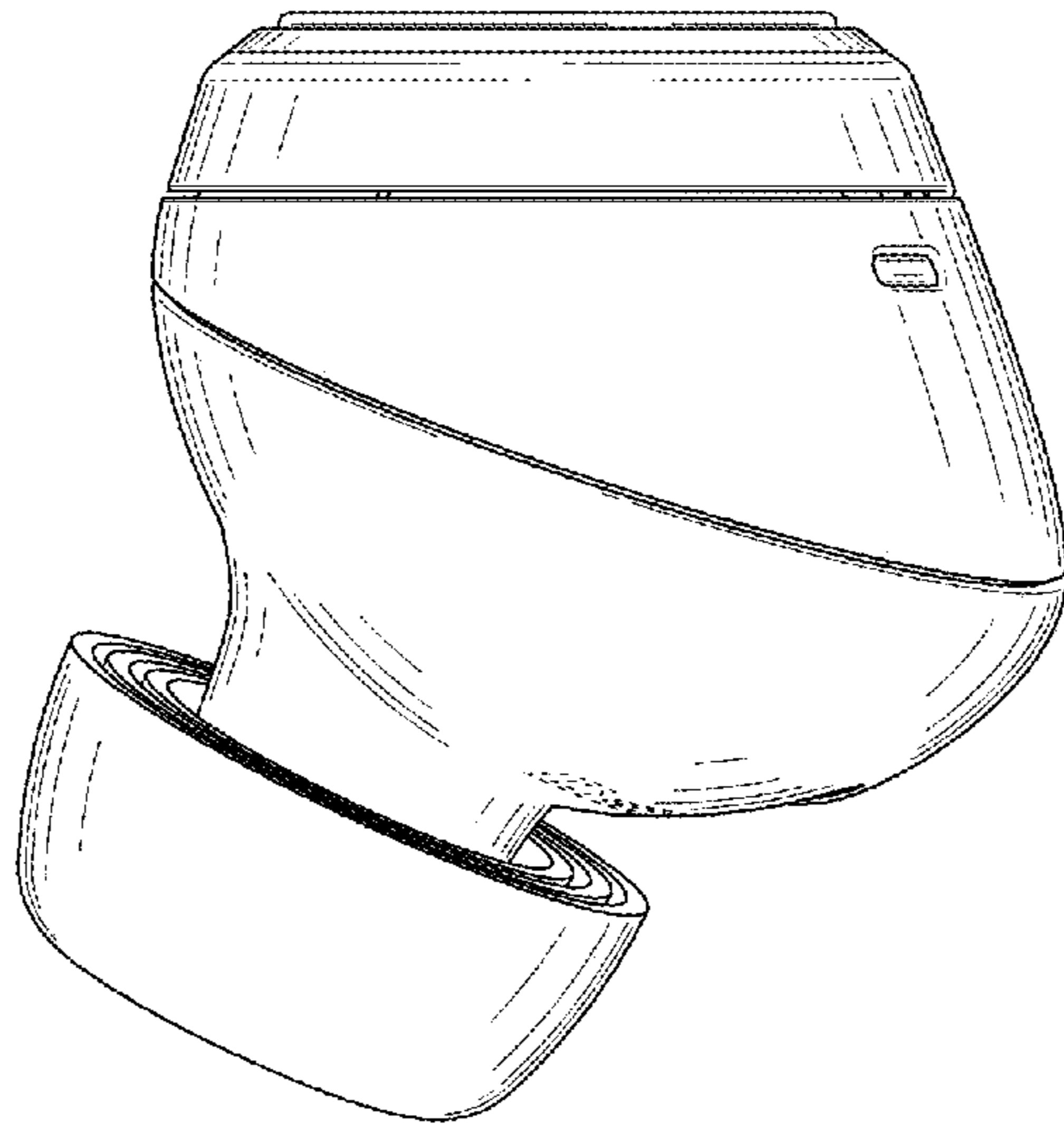


FIG. 4

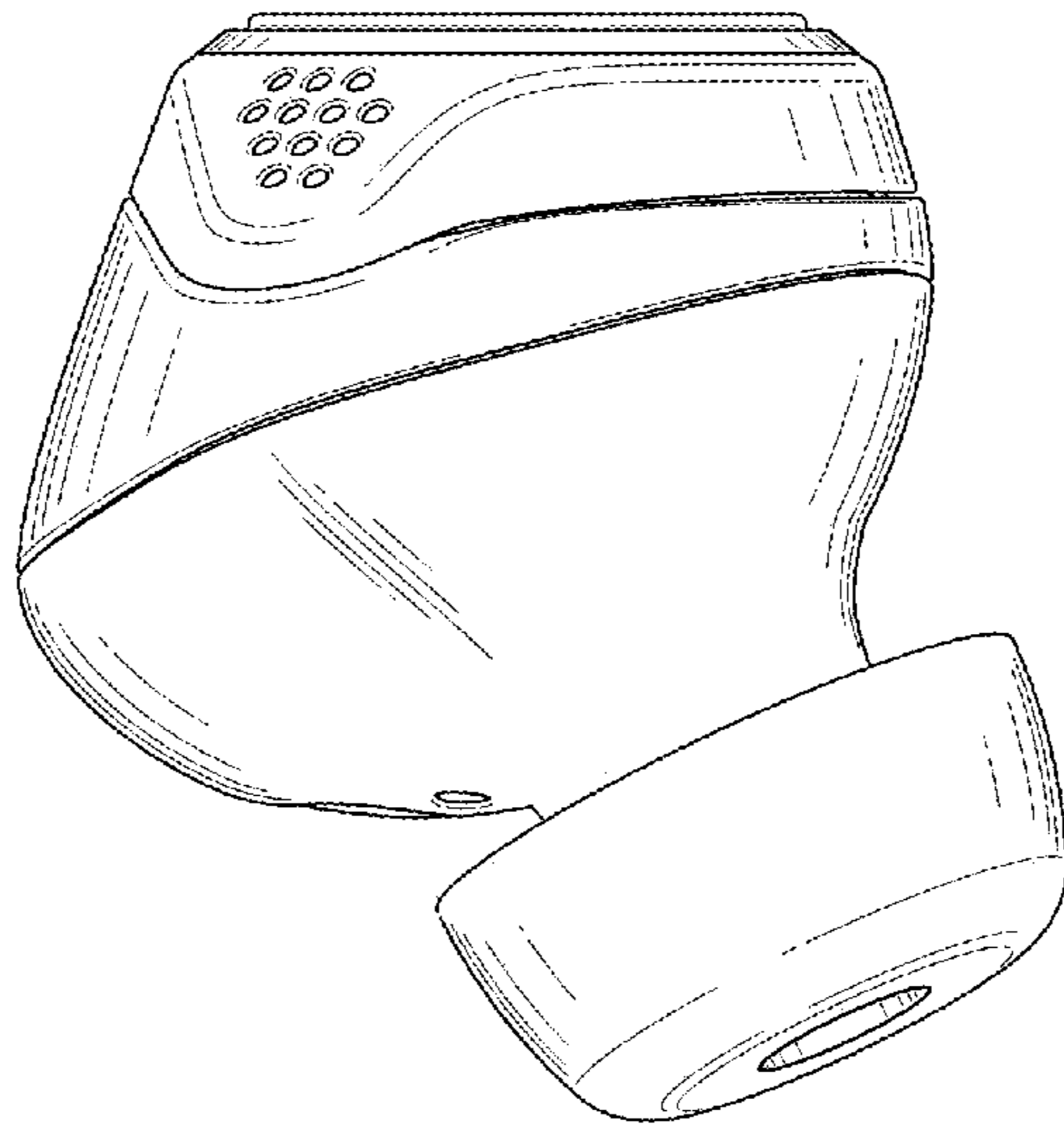


FIG. 5

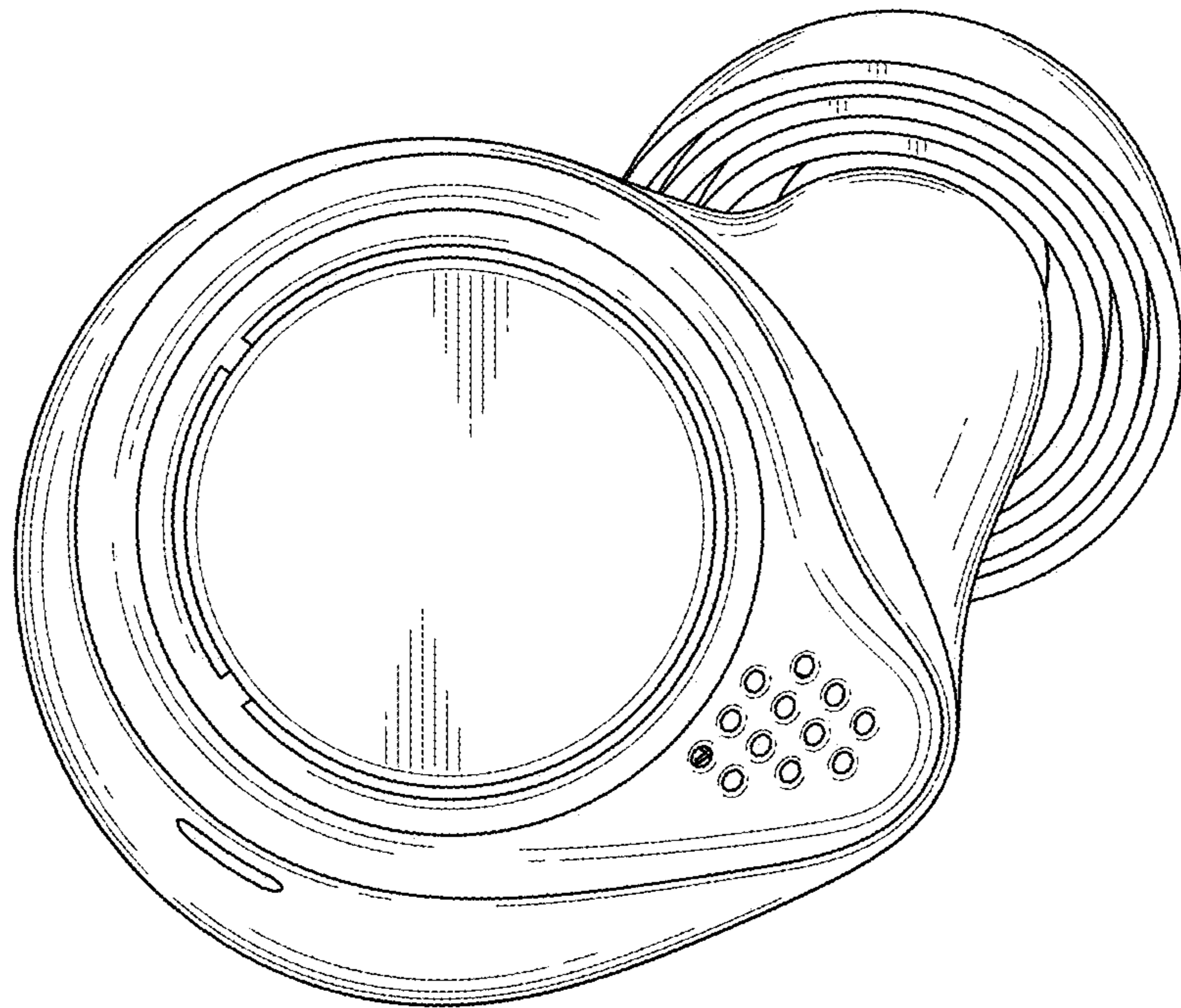


FIG. 6

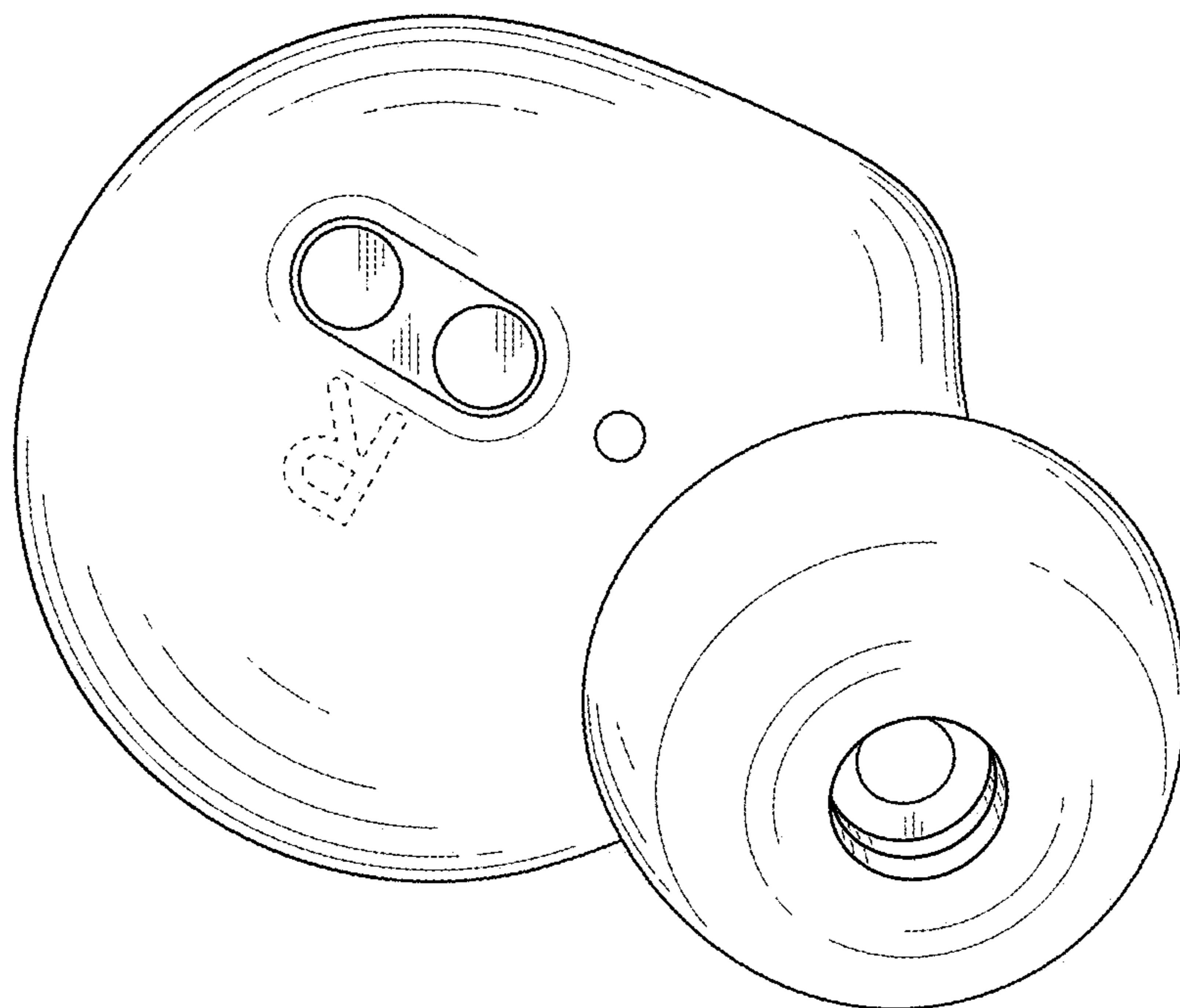


FIG. 7

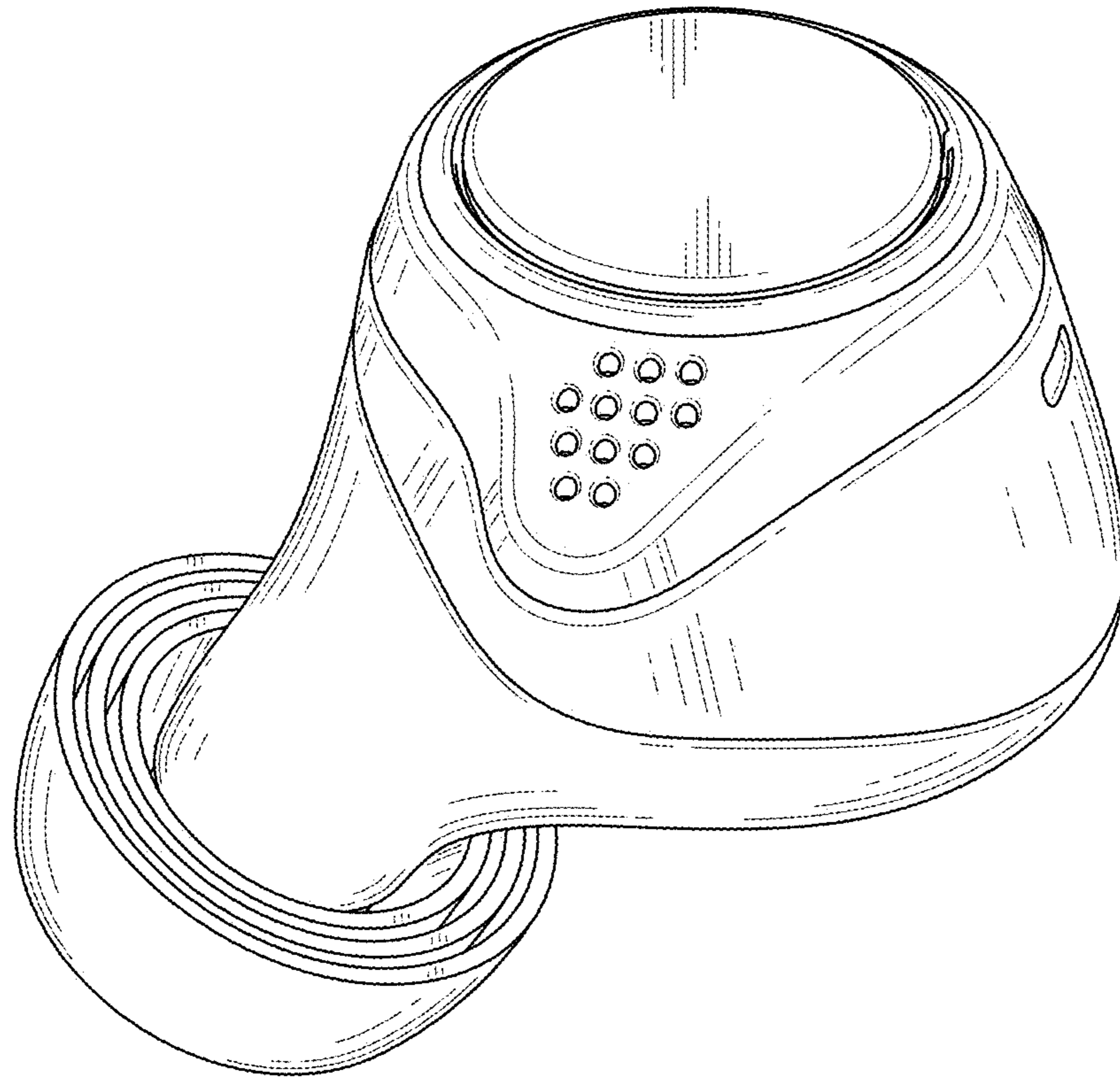


FIG. 8

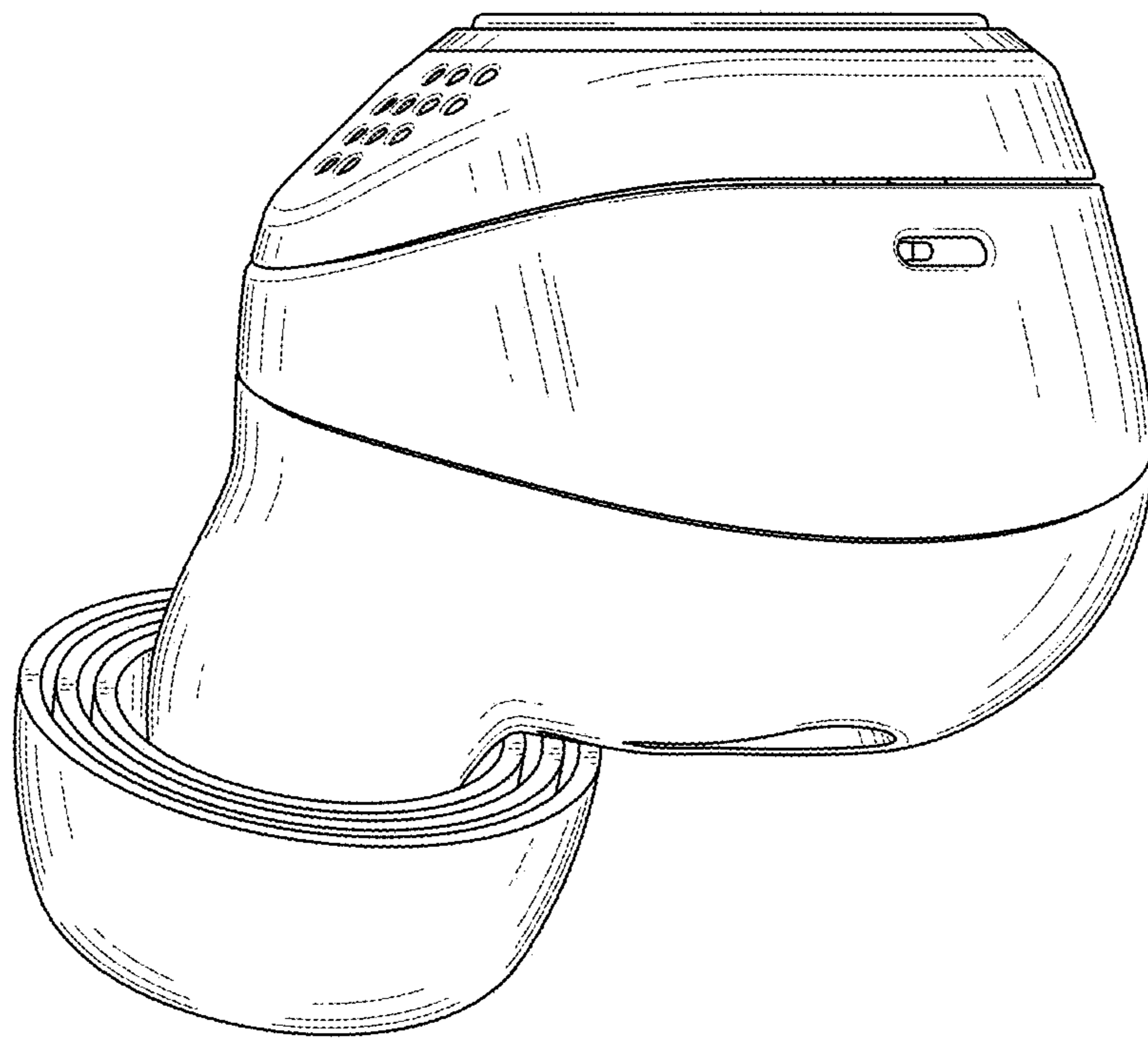


FIG. 9

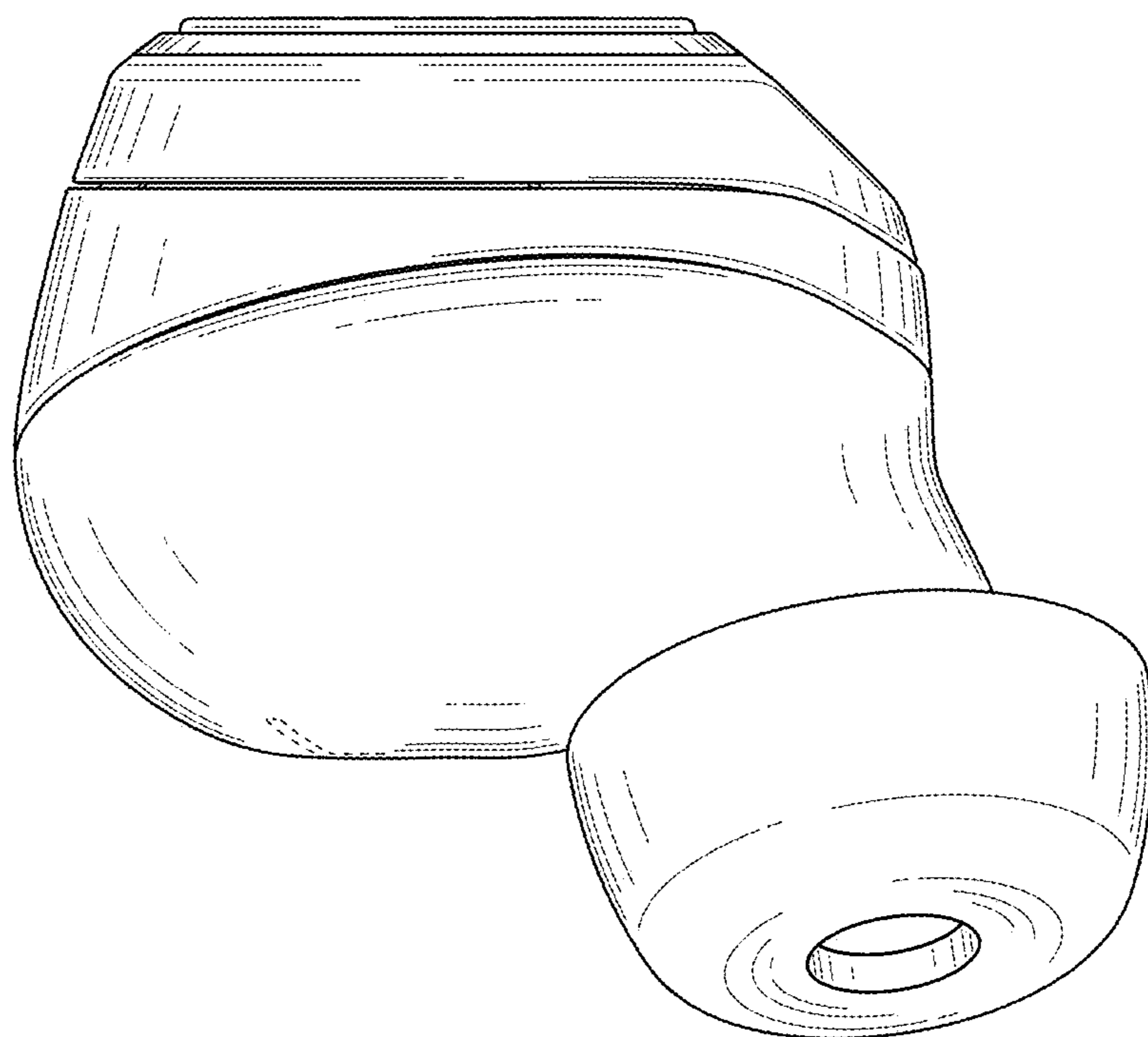


FIG. 10

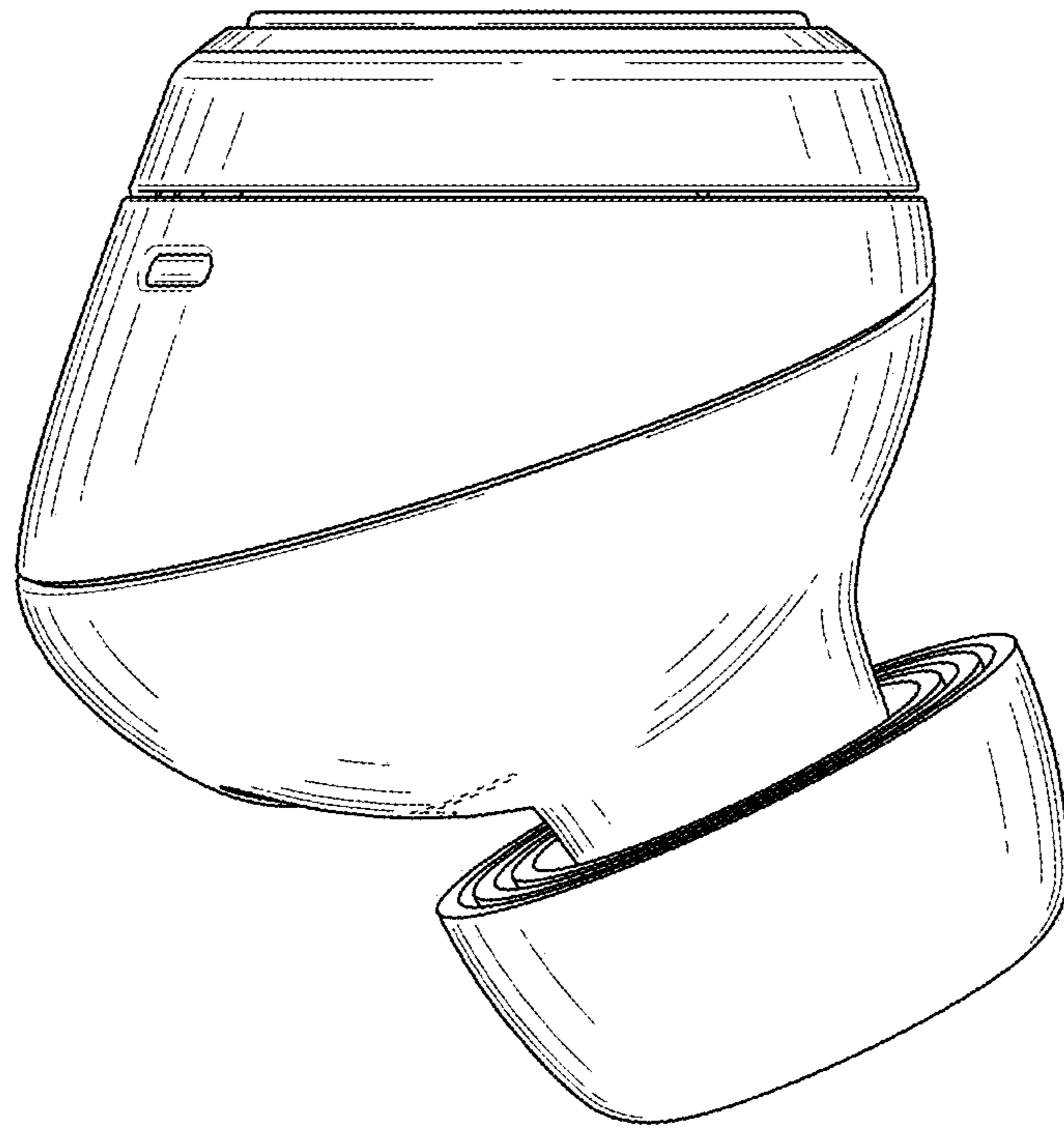


FIG. 11

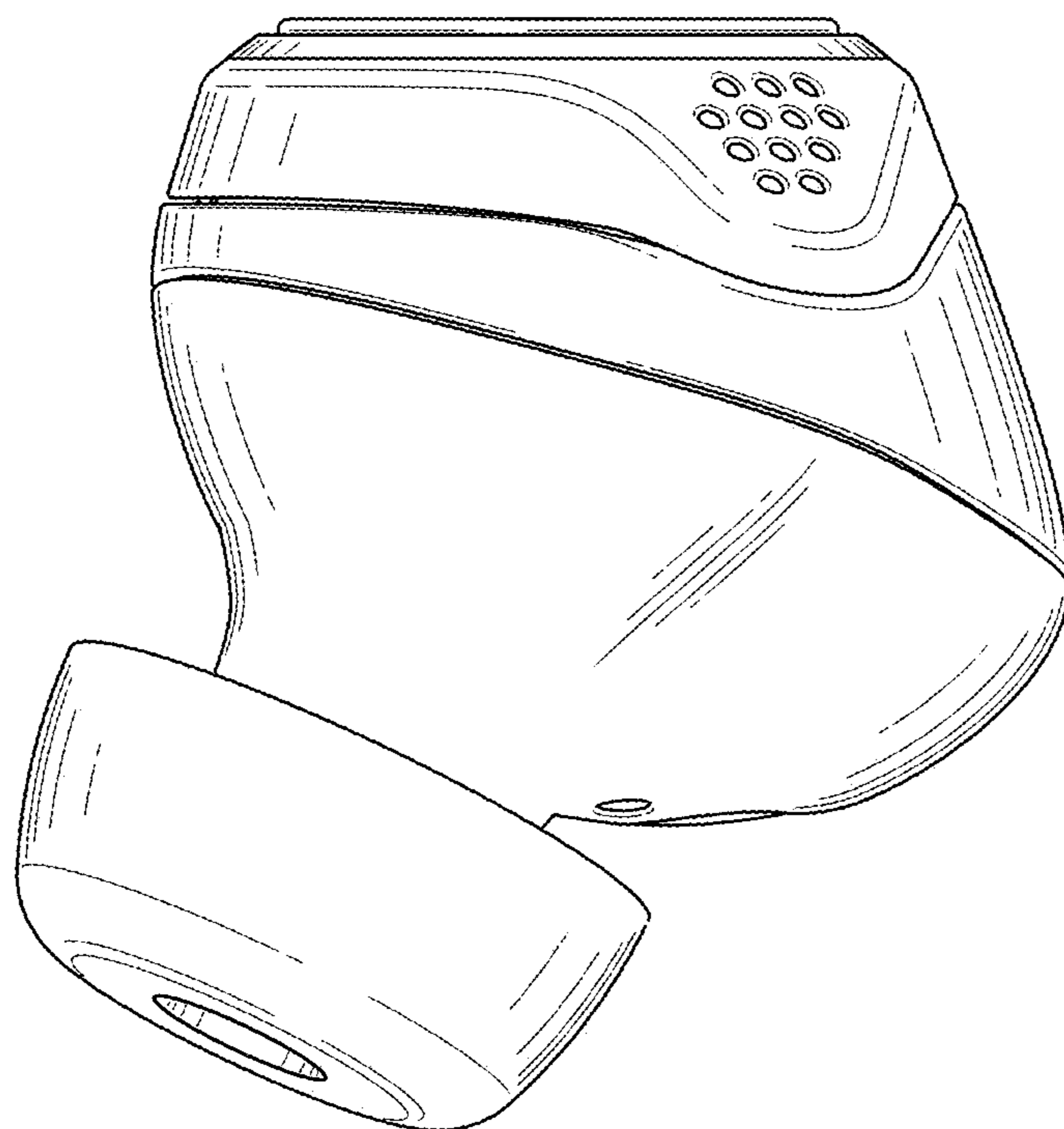


FIG. 12

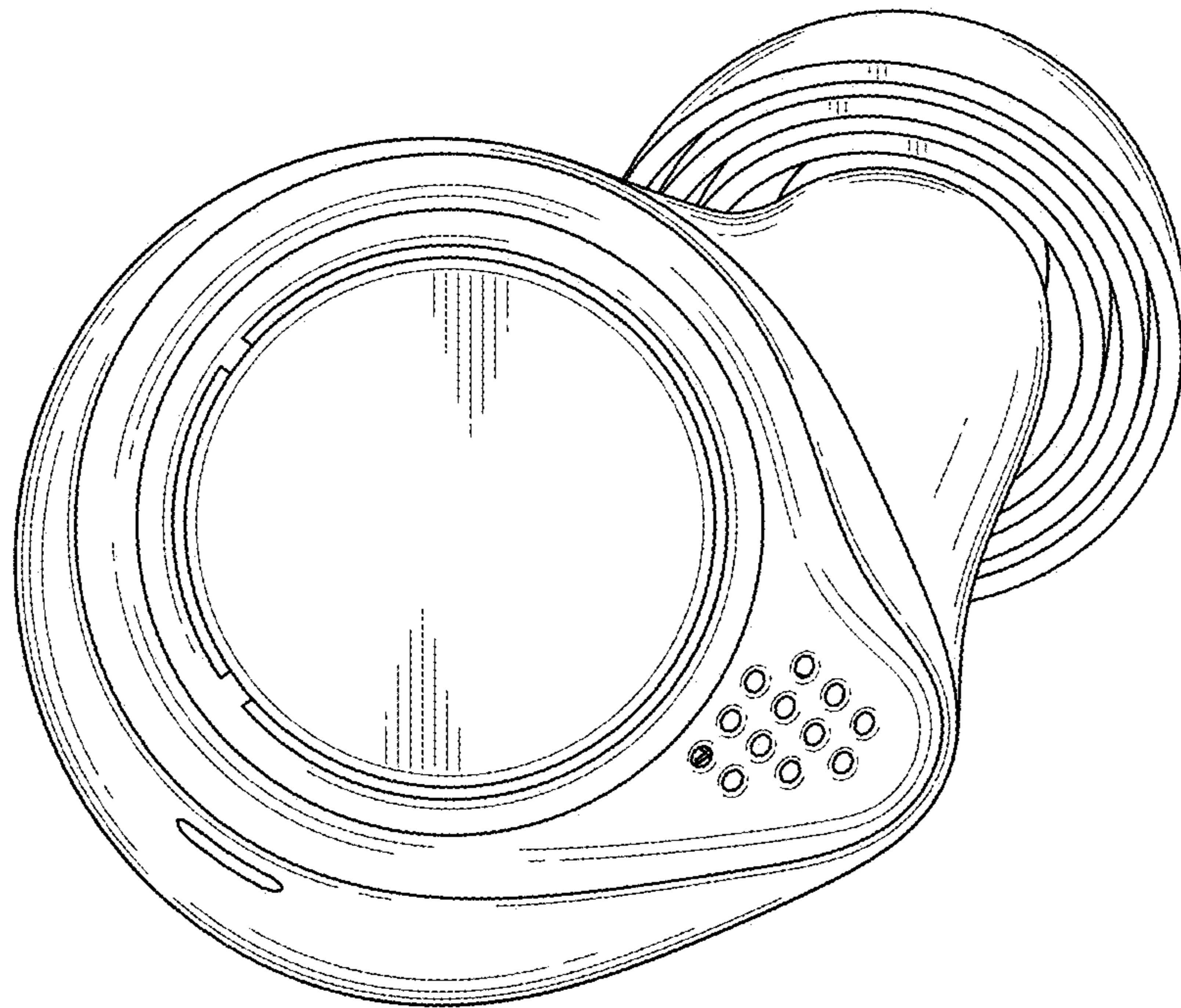


FIG. 13

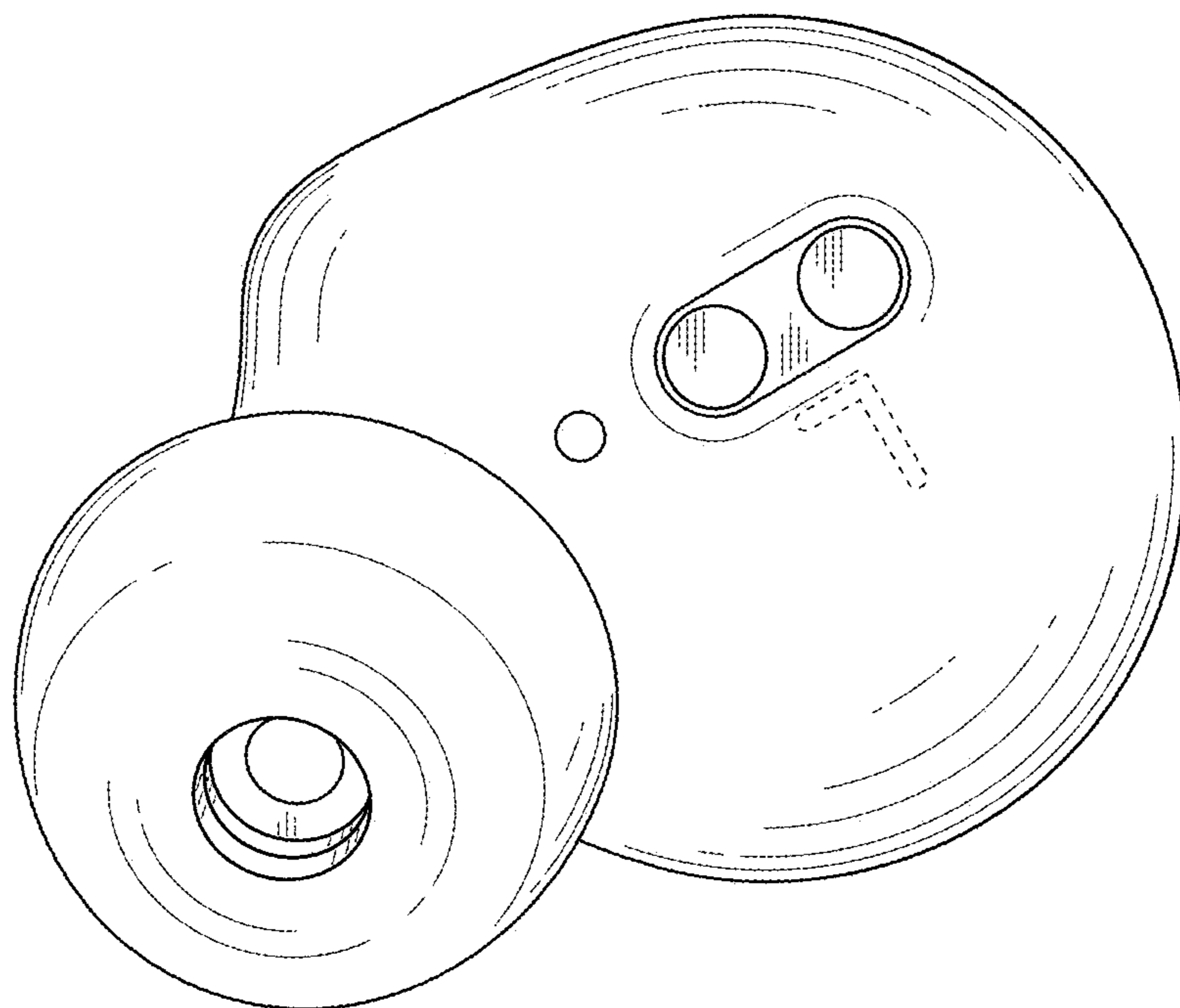


FIG. 14