



US00D870694S

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

(10) **Patent No.:** **US D870,694 S**

(45) **Date of Patent:** **** Dec. 24, 2019**

(54) **EARPHONE**

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(73) Assignee: **SONY CORPORATION**, Tokyo (JP)

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

(21) Appl. No.: **29/639,954**

(22) Filed: **Mar. 9, 2018**

(30) **Foreign Application Priority Data**

Dec. 28, 2017 (JP) D2017-029451

Dec. 29, 2017 (CN) 201730682841

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

(52) **U.S. Cl.**

USPC **D14/205**; D14/223

(58) **Field of Classification Search**

USPC D14/205, 223, 218, 168, 496; D3/203.2,
D3/208, 207, 265, 218, 215, 219;
D13/107, 108, 154, 184; D9/508, 549,
D9/564, 428; 181/129, 130, 135;
379/430, 431; 381/380, 381; 455/90.3,
455/575.1, 569.1; D24/104

CPC H04R 1/10; H04R 1/1016; H04R 1/1066;
H04R 1/105; H04R 1/1041; H04R
1/1033; H04R 1/1058

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

470,850 A * 3/1892 Rogers D3/24
1,419,618 A * 6/1922 Deming A61J 3/071
424/438
2,090,881 A * 8/1937 Wilson A43B 13/20
36/29
2,285,335 A * 6/1942 Hurt B29C 55/023
428/179

2,340,037 A * 1/1944 Irving A61J 3/071
206/530
2,921,001 A * 1/1960 McDermott A61J 3/10
424/10.4
2,941,562 A * 6/1960 Benet B65D 41/02
220/796
3,018,015 A * 1/1962 Norton B65D 81/03
116/DIG. 14
3,345,265 A * 10/1967 Grodberg A61K 9/209
424/475

(Continued)

FOREIGN PATENT DOCUMENTS

CN 304005300 S 1/2017
JP 1556458 S 7/2016

OTHER PUBLICATIONS

Office Action issued in Japanese Application No. D2017-029606,
dated May 7, 2019.

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(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective view of an earphone showing my new
design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

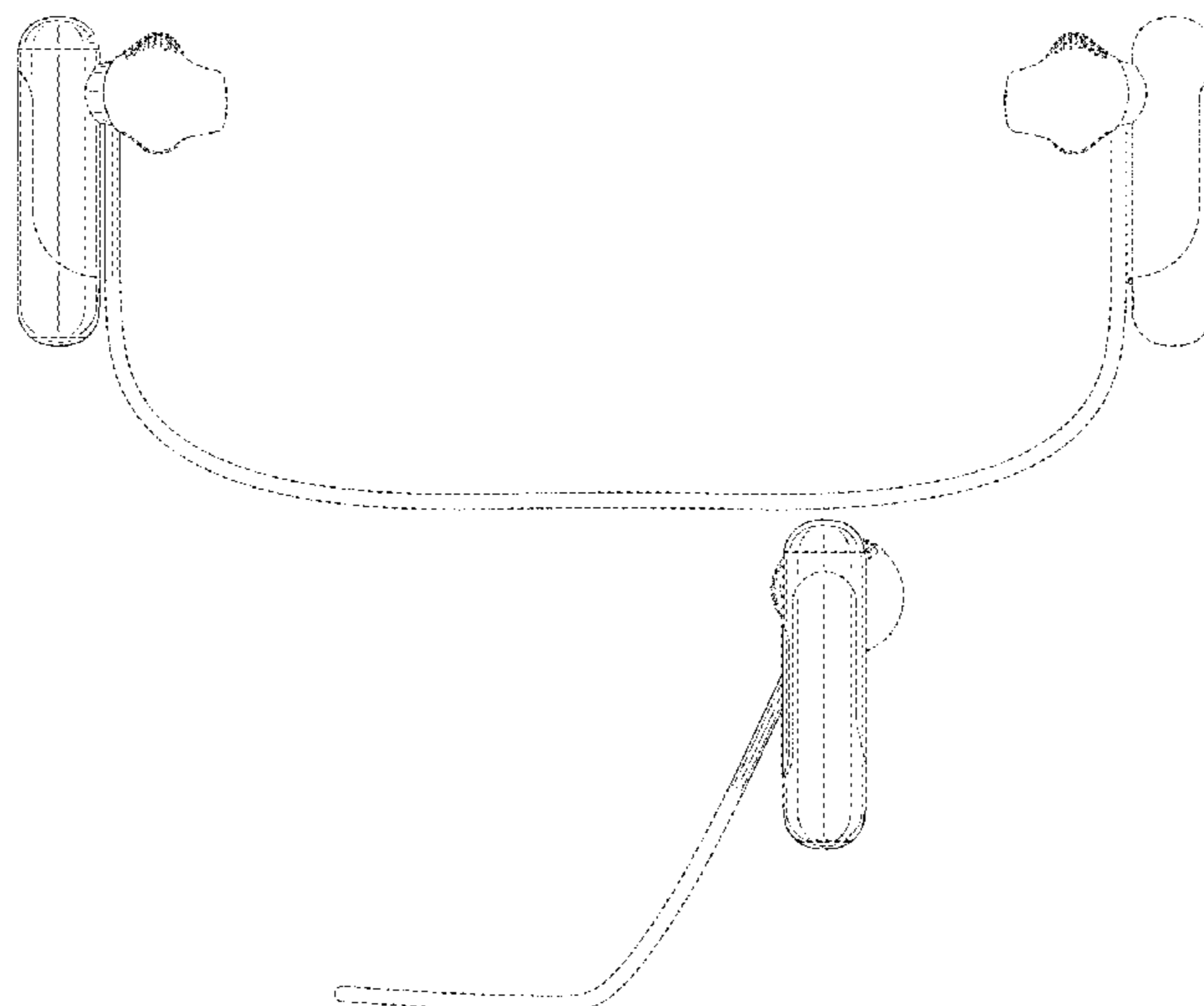
FIG. 4 is a left side elevational view thereof;

FIG. 5 is a top plan view thereof; and,

FIG. 6 is a bottom plan view thereof.

The broken lines illustrating the unclaimed portions of the
earphone form no part of the claimed design. Dot-dash
broken lines define the boundaries of the claimed design and
form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D220,723 S * 5/1971 Abbo D14/197
 3,588,384 A * 6/1971 Negley H04M 1/05
 3,611,150 A * 10/1971 Timm H04B 1/08
 312/7.1
 D223,835 S * 6/1972 Schmidt D14/191
 3,781,492 A * 12/1973 Cragg H04R 1/08
 379/430
 4,335,281 A * 6/1982 Scott H04M 1/05
 379/430
 4,393,974 A * 7/1983 Levesque A45C 11/00
 206/37
 D281,281 S * 11/1985 Matalon D28/5
 4,588,867 A * 5/1986 Konomi H04R 1/46
 379/430
 4,646,872 A * 3/1987 Kamon H04R 1/225
 181/129
 4,893,344 A * 1/1990 Tragardh H04M 1/05
 379/430
 D316,550 S * 4/1991 Sogabe D14/168
 5,310,141 A * 5/1994 Homer B64G 1/425
 136/222
 D351,171 S * 10/1994 Tanaka D14/205
 5,640,458 A * 6/1997 Nishiguchi G11C 7/16
 381/2
 D396,860 S * 8/1998 Yasutomi D10/119.2
 D417,869 S * 12/1999 Yasutomi D14/168
 D421,014 S * 2/2000 Smith D14/205
 D447,470 S * 9/2001 Obata D14/167
 D467,907 S * 12/2002 Marion D14/223
 D469,753 S * 2/2003 Andre D14/205
 D473,859 S * 4/2003 Rivera D14/223
 D491,911 S * 6/2004 Jung D14/203.3
 D505,132 S * 5/2005 Linville D14/223
 D511,157 S * 11/2005 Johnson D14/223
 D512,982 S * 12/2005 Rodarte D14/205
 D514,552 S * 2/2006 Lee D14/205
 D515,070 S * 2/2006 Andre D14/205
 D517,053 S * 3/2006 Ham D14/223

7,099,467 B1 * 8/2006 Rohrbach G09B 15/00
 379/441
 D536,700 S * 2/2007 Landau D14/480.5
 D551,250 S * 9/2007 Andre D14/484.1
 D583,804 S * 12/2008 Mahler D14/223
 D587,678 S * 3/2009 Yuyama D14/205
 D588,099 S 3/2009 Yuyama
 D594,442 S * 6/2009 Chon D14/205
 D598,374 S * 8/2009 Sasada D13/108
 D601,125 S 9/2009 Komiyama
 D604,272 S * 11/2009 Kitayama D14/223
 D607,815 S * 1/2010 Lui D13/107
 D629,396 S * 12/2010 Andre D14/223
 D635,546 S 4/2011 Komiyama
 D643,830 S * 8/2011 Fish D14/205
 D645,816 S * 9/2011 Sasada D13/108
 D658,362 S * 5/2012 Nassiri D3/203.2
 D668,246 S * 10/2012 Fathollahi D14/250
 D691,480 S * 10/2013 Shukla D24/104
 D691,580 S * 10/2013 Cho D14/205
 D694,220 S * 11/2013 Lee D14/223
 8,655,006 B2 * 2/2014 Aase B29C 43/203
 381/370
 D707,660 S * 6/2014 Yang H04R 1/10
 D14/223
 D731,781 S * 6/2015 Behar D3/201
 D745,862 S 12/2015 Otani et al.
 D752,542 S * 3/2016 Lamar D14/205
 D756,958 S * 5/2016 Lee D14/205
 D757,682 S * 5/2016 Perez D14/205
 D780,690 S * 3/2017 Clapper D13/108
 D798,844 S * 10/2017 Nokuo D14/223
 D815,037 S * 4/2018 Chen D13/108
 D821,999 S * 7/2018 Guo D14/205
 D830,336 S * 10/2018 Cai D14/205
 D842,836 S * 3/2019 Ma D14/205
 D843,938 S * 3/2019 Park D13/108
 2003/0161999 A1 * 8/2003 Kannankeril B32B 3/28
 428/178
 2010/0027249 A1 * 2/2010 Connor F21L 4/08
 362/183
 2016/0056648 A1 * 2/2016 Dowd H02J 7/0042
 320/107

* cited by examiner

FIG.1

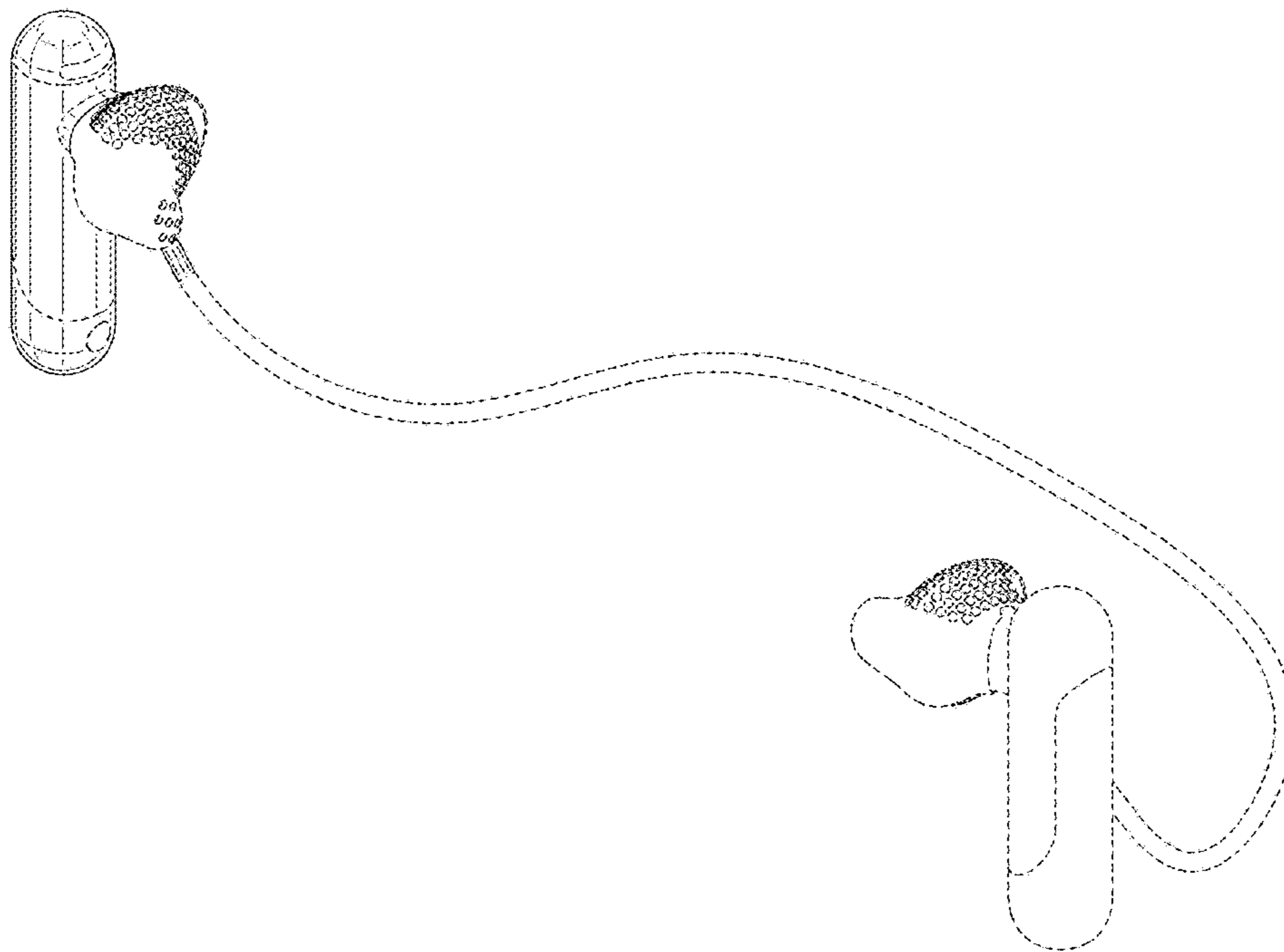


FIG.2

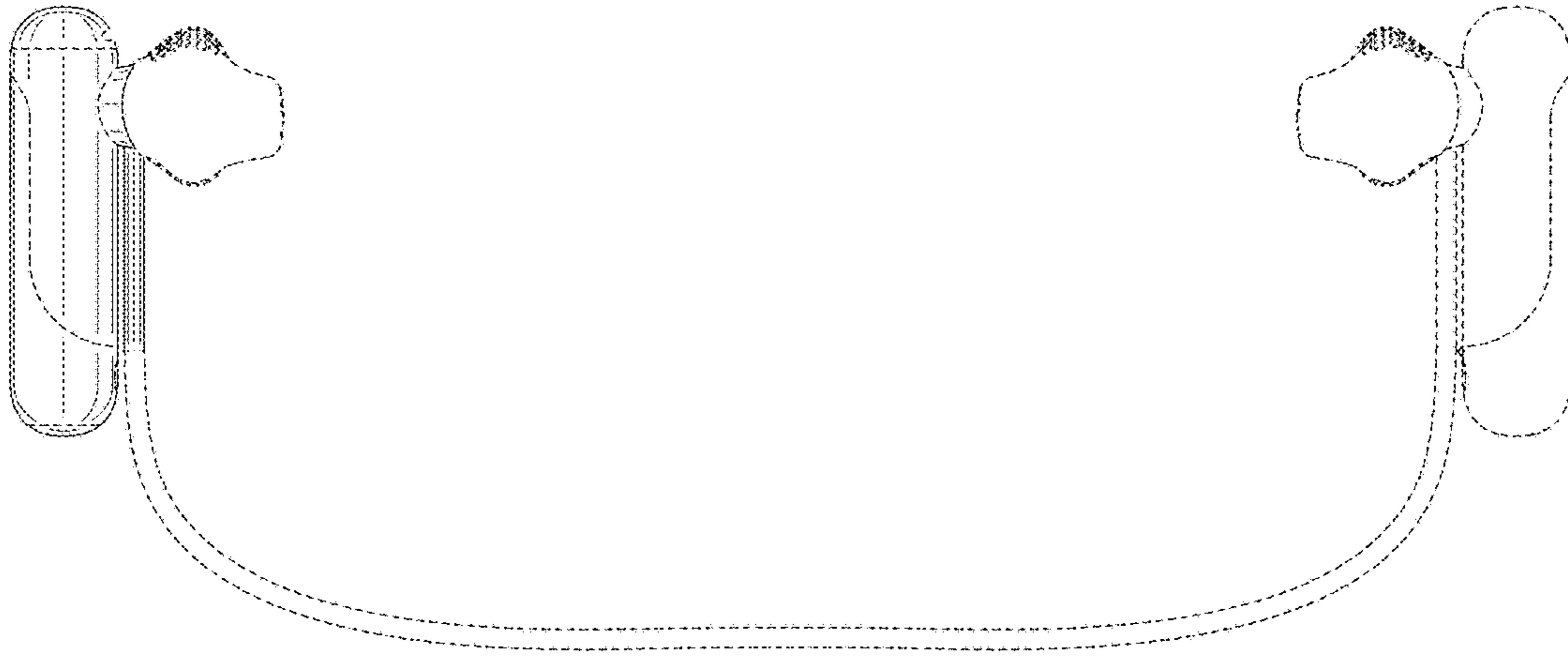


FIG.3



FIG.4

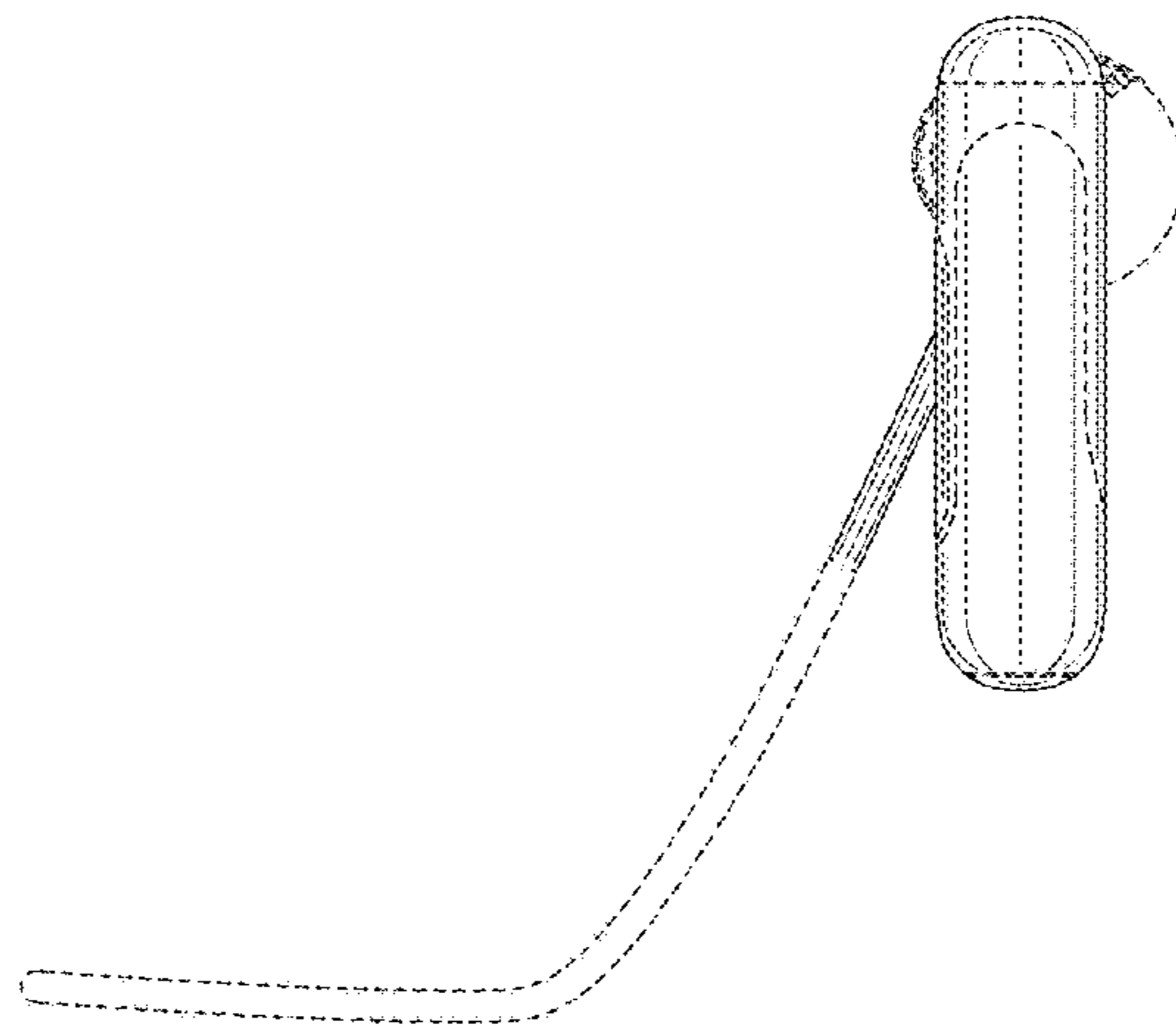


FIG.5

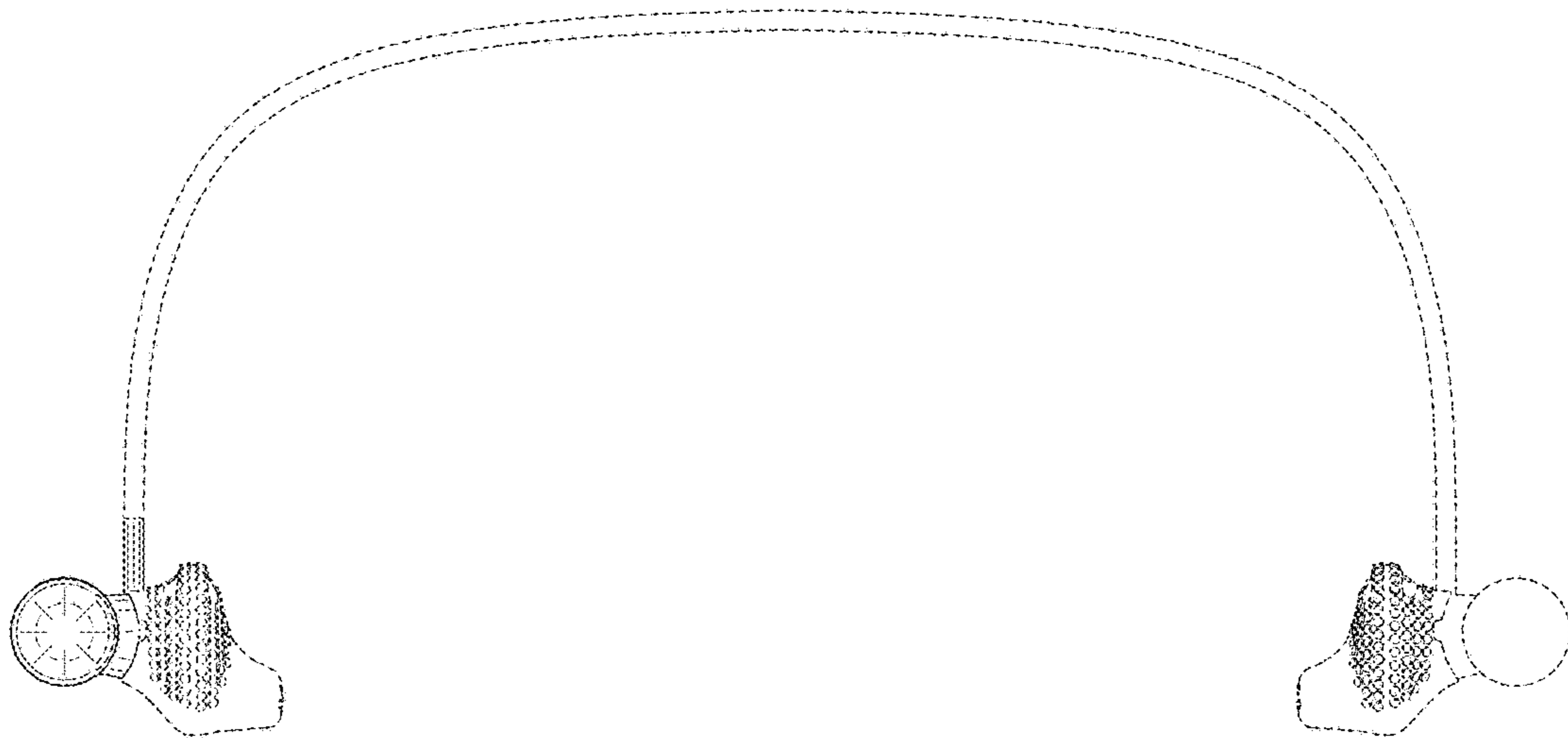


FIG.6

