



US00D871365S

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

(10) **Patent No.:** **US D871,365 S**

(45) **Date of Patent:** **\*\* Dec. 31, 2019**

(54) **EARPHONE**

(71) Applicant: **SONY CORPORATION**, Tokyo (JP)

(72) Inventor: **So Morimoto**, Saitama (JP)

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

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

(21) Appl. No.: **29/639,762**

(22) Filed: **Mar. 8, 2018**

(30) **Foreign Application Priority Data**

Dec. 28, 2017 (JP) ..... D2017-029452

Dec. 29, 2017 (CN) ..... 2017 3 0682841

(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; 428/179,  
428/180; D3/218, 215, 219; D13/107,  
D13/108, 154, 184; 181/129, 130, 135;  
379/430, 431; 381/380, 381; 455/90.3,  
455/575.1, 569.1; D24/104; D9/508,  
D9/549, 564, 428

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**

271,075 A \* 1/1883 Jenks ..... B29C 55/023  
428/179  
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

(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 303755329 S 7/2016  
CN 303931584 S 11/2016

(Continued)

**OTHER PUBLICATIONS**

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

*Primary Examiner* — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Michael Best and  
Friedrich LLP

(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;

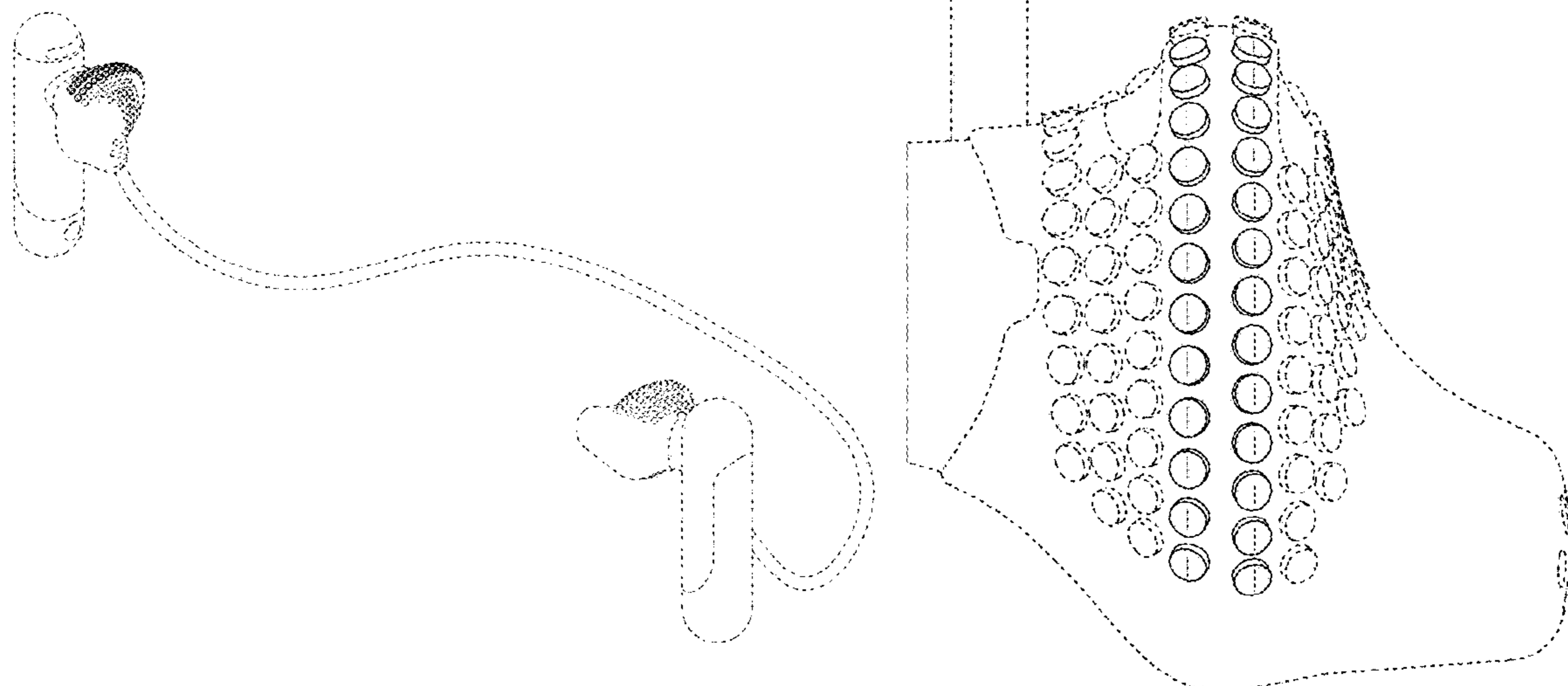
FIG. 4 is a left side elevational view thereof;

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

FIG. 6 is a partially enlarged top plan view thereof along the  
lines 6-6 and 6'-6' of FIG. 5.

The broken lines illustrating the unclaimed portions of the  
earphone form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

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  
3,553,068 A \* 1/1971 Coale ..... B29C 51/34  
264/321  
D220,723 S \* 5/1971 Abbo ..... D14/197  
3,588,384 A \* 6/1971 Negley ..... H04M 1/05  
381/327  
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  
3,977,928 A \* 8/1976 Odagiri ..... D21H 5/26  
156/62.2  
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  
5,196,254 A \* 3/1993 Akiyama ..... B32B 3/28  
428/178  
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

FOREIGN PATENT DOCUMENTS

CN 303987663 S 12/2016  
CN 304005300 S 1/2017  
CN 304005351 S 1/2017  
CN 304044353 S 2/2017  
JP 1556458 S 7/2016

\* cited by examiner

FIG.1

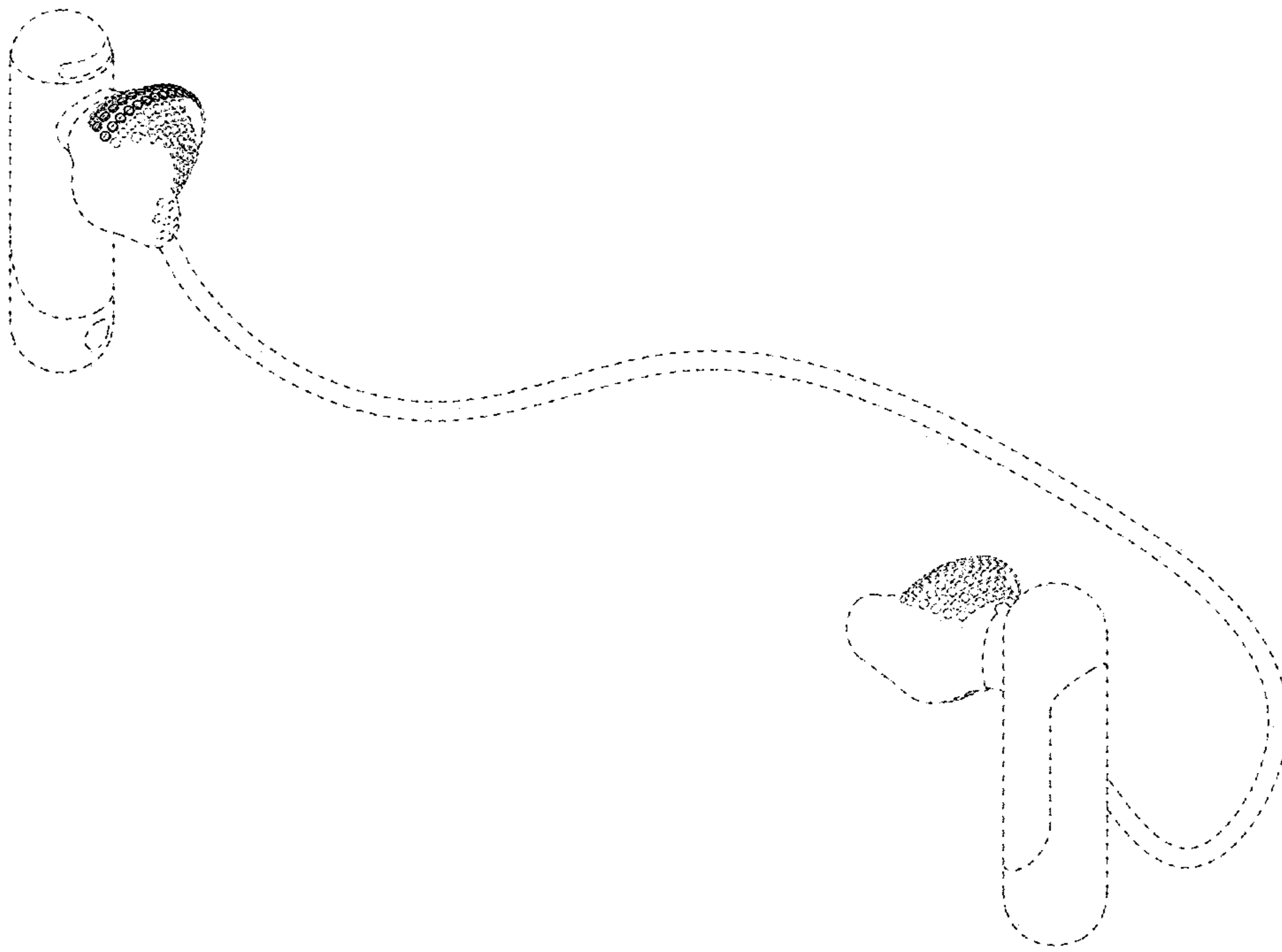


FIG.2

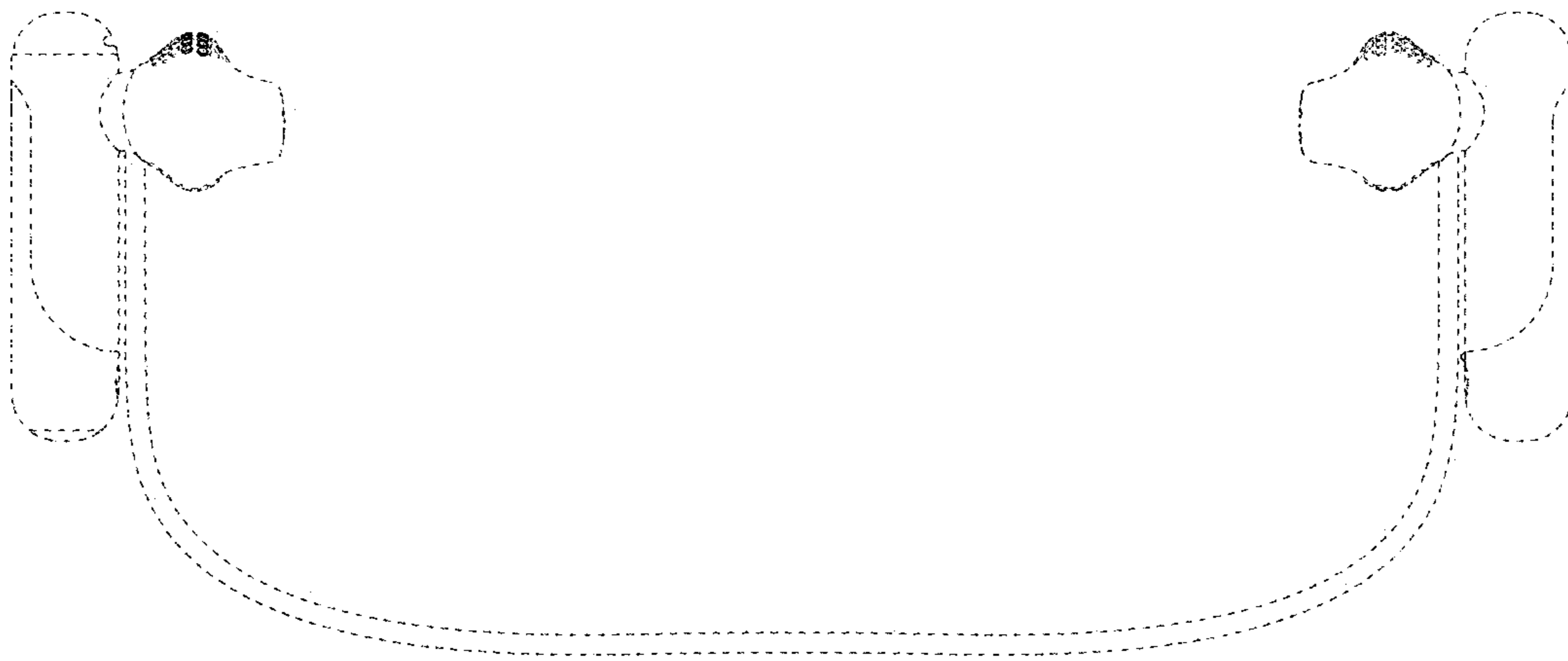


FIG.3



FIG.4

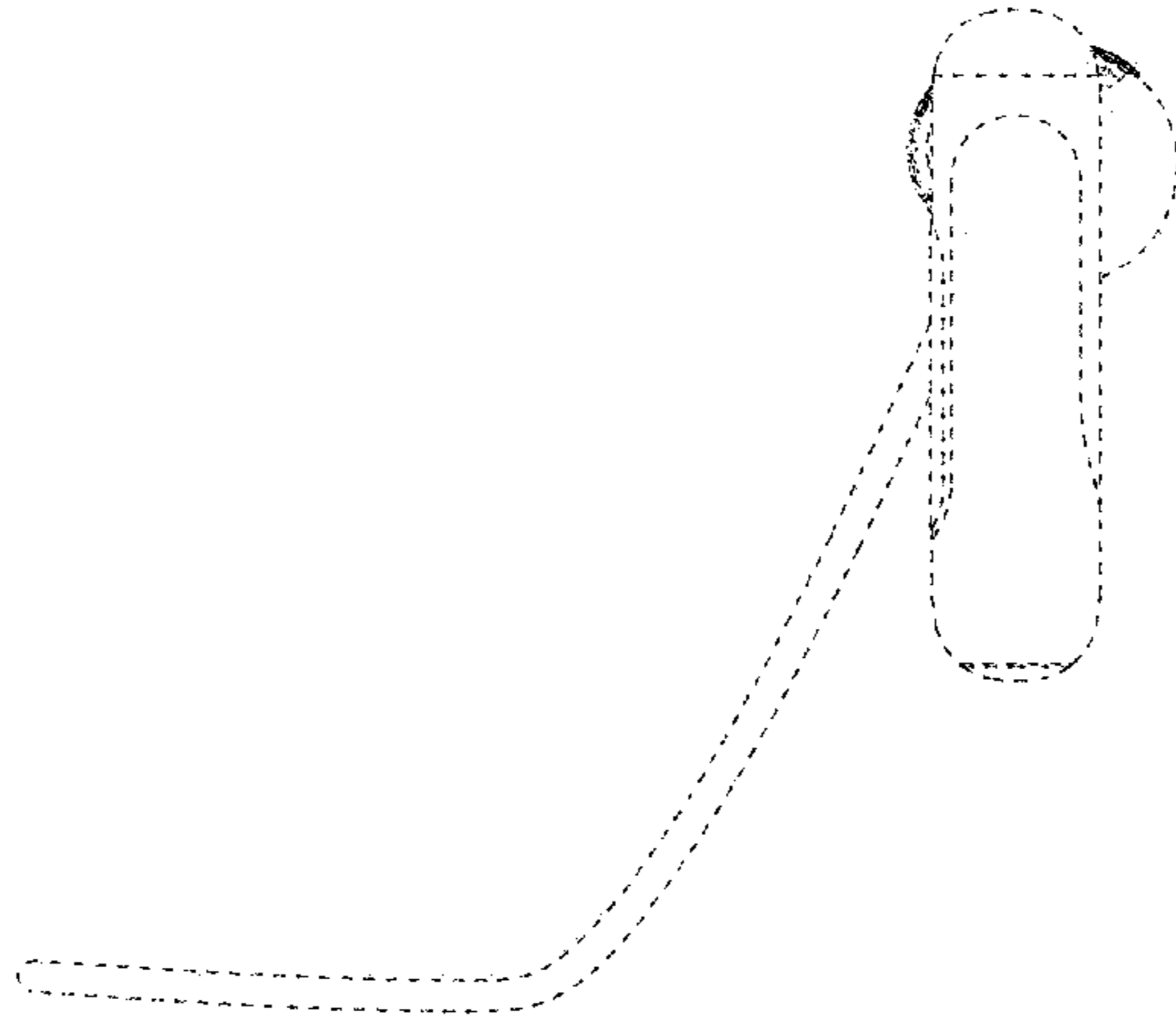


FIG.5

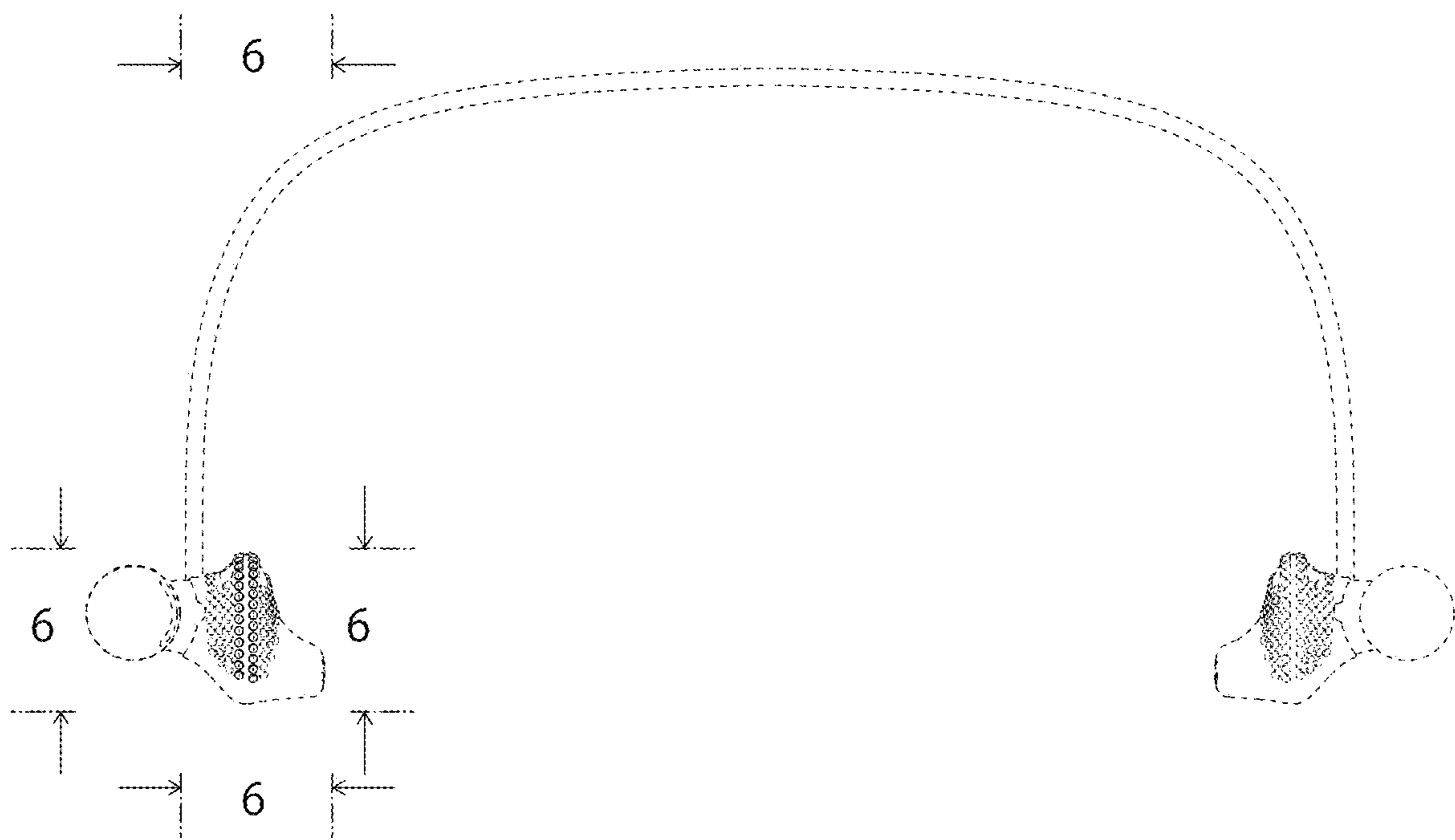


FIG.6

