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

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(54) **WIRELESS EARPHONE**

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(52) **U.S. Cl.**
USPC **D14/205**

(58) **Field of Classification Search**
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CPC H04R 25/00; H04R 25/02; H04R 1/1066;
H04R 1/1016; H04R 5/033; H04R
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D315,561 S * 3/1991 Miller D14/205
D318,669 S * 7/1991 Nakayama D14/205
D321,879 S * 11/1991 Emmerling D14/188
D337,587 S * 7/1993 Nakayama D14/205
D368,716 S * 4/1996 Shudo D14/205
D371,558 S * 7/1996 Yoshizawa D14/205

D421,014 S * 2/2000 Smith D14/205
D426,880 S * 6/2000 Leight D24/106
D460,752 S * 7/2002 Gerdomb D14/223
D471,176 S * 3/2003 Suzuki D14/205
D502,463 S * 3/2005 Bhakta D14/205
7,076,077 B2 * 7/2006 Atsumi H04R 1/1066
381/151
D550,202 S * 9/2007 Meier D14/206
D557,685 S * 12/2007 Lee D14/205
D559,831 S * 1/2008 Lee D14/205
D575,268 S * 8/2008 Christopher D14/205
D579,442 S * 10/2008 Kim D14/205
D617,308 S * 6/2010 Nousiainen D14/205

(Continued)

FOREIGN PATENT DOCUMENTS

CN 304583787 * 4/2018
CN 304974346 * 1/2019

(Continued)

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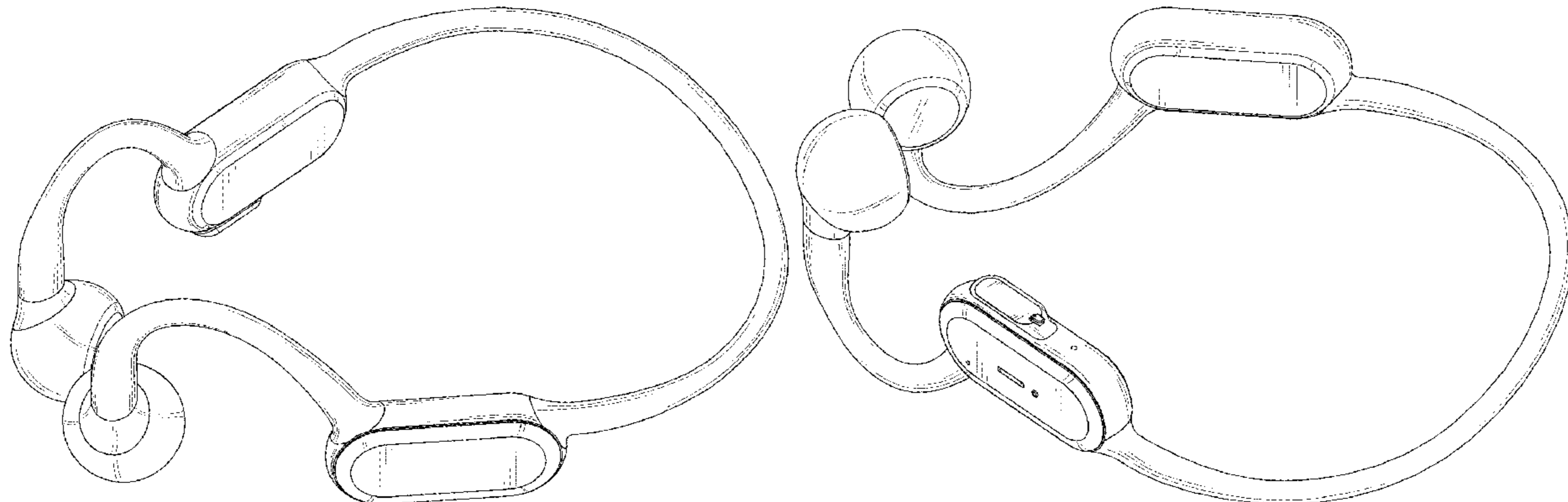
(57) **CLAIM**

The ornamental design for a wireless earphone, as shown and described.

DESCRIPTION

FIG. 1 is a first perspective view of a wireless earphone showing my new design;
FIG. 2 is a second perspective view thereof;
FIG. 3 is a front side elevation view thereof;
FIG. 4 is a rear side elevation view thereof;
FIG. 5 is a left side elevation view thereof;
FIG. 6 is a right side elevation view thereof;
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom plan view thereof.
The broken lines in the drawing depict portions of the wireless earphone that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D645,444 S * 9/2011 Quek D14/205
 D653,234 S * 1/2012 Lee D14/205
 D669,881 S * 10/2012 Clements D14/205
 D678,858 S * 3/2013 Feng D14/205
 8,411,893 B2 * 4/2013 Ito H04R 1/105
 381/381
 D706,745 S * 6/2014 Nakagawa H04R 1/1066
 D14/205
 D707,199 S * 6/2014 Ceyress H04R 1/10
 D14/205
 D716,759 S * 11/2014 Ha D14/205
 D717,765 S * 11/2014 Rausch D14/205
 D721,673 S * 1/2015 Park D14/205
 D722,999 S * 2/2015 Ishikura D14/205
 D740,785 S * 10/2015 Chen D14/205
 D756,959 S * 5/2016 Lee D14/205
 D766,869 S * 9/2016 Lee D14/205
 D771,587 S * 11/2016 Iwane D14/205
 D790,501 S * 6/2017 Wang D14/205
 D790,502 S * 6/2017 Qi D14/205
 D791,100 S * 7/2017 Chen D14/205
 D823,279 S * 7/2018 Chen D14/205
 D829,190 S * 9/2018 Bullen D14/205
 D847,779 S * 5/2019 Williamson D14/205
 D851,060 S * 6/2019 Lu D14/205
 D851,623 S * 6/2019 Zhang D14/205
 D875,710 S * 2/2020 Bailey D14/205

D895,571 S * 9/2020 Li D14/205
 D906,281 S * 12/2020 Zhang D14/205
 D907,002 S * 1/2021 Zhang D14/205
 D912,644 S * 3/2021 Liu D14/205
 D915,345 S * 4/2021 Zhang D14/205
 D919,592 S * 5/2021 Trought D14/205
 D926,726 S * 8/2021 Zhang D14/223
 D944,227 S * 2/2022 Zhu D14/205
 D955,364 S * 6/2022 Wu D14/205
 D957,361 S * 7/2022 Chen D14/205
 D961,546 S * 8/2022 Zhang D14/205
 D964,316 S * 9/2022 Tan D14/205
 2014/0185837 A1 * 7/2014 Kunimoto H04R 1/1075
 381/151
 2019/0029529 A1 * 1/2019 Haartsen A61B 5/02438
 2019/0075389 A1 * 3/2019 Jan A42B 3/306
 2020/0084546 A1 * 3/2020 Mainini H04R 1/1016
 2021/0021939 A1 * 1/2021 Olah H04R 1/1041
 2021/0067862 A1 * 3/2021 Li H04R 1/1075
 2021/0076123 A1 * 3/2021 Zhang H04R 9/06
 2021/0092525 A1 * 3/2021 Zheng H04R 25/604
 2022/0322017 A1 * 10/2022 Song H04R 25/606
 2022/0337929 A1 * 10/2022 Wang H04R 1/105
 2022/0369020 A1 * 11/2022 Zhang H04R 1/1041

FOREIGN PATENT DOCUMENTS

CN 305022601 * 2/2019
 JP D1662100 * 6/2020

* cited by examiner

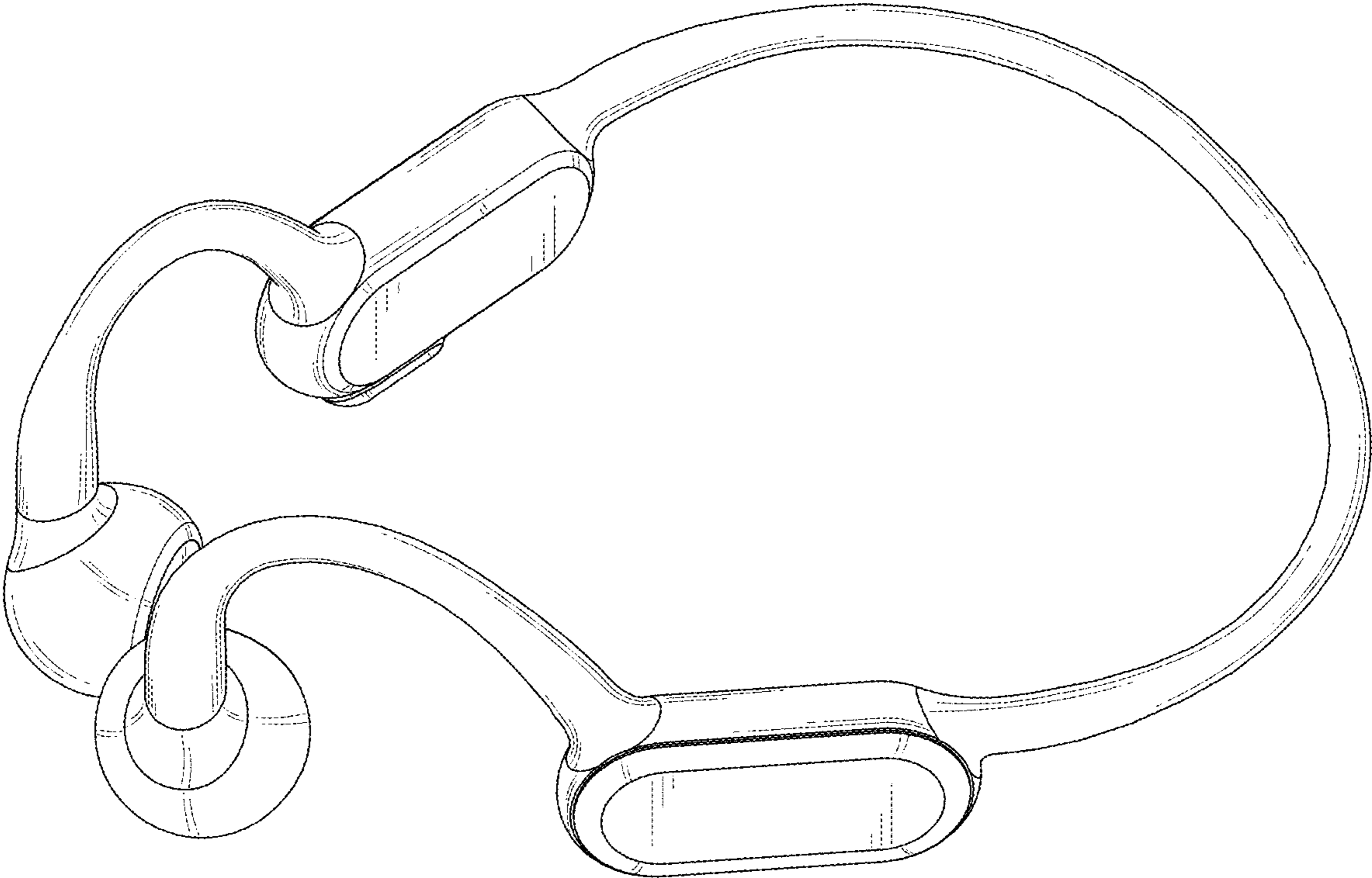


FIG. 1

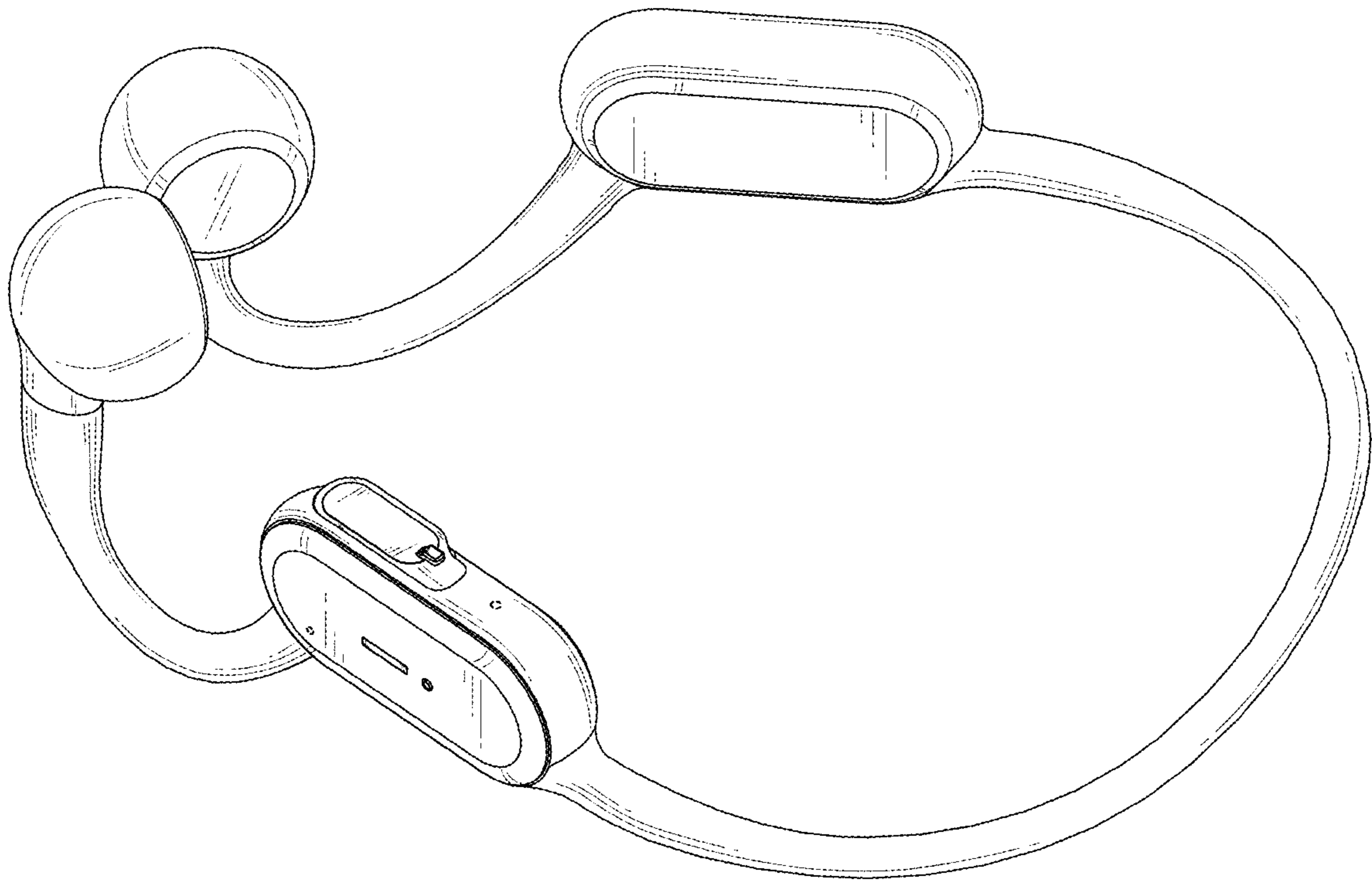


FIG. 2



FIG. 3



FIG. 4

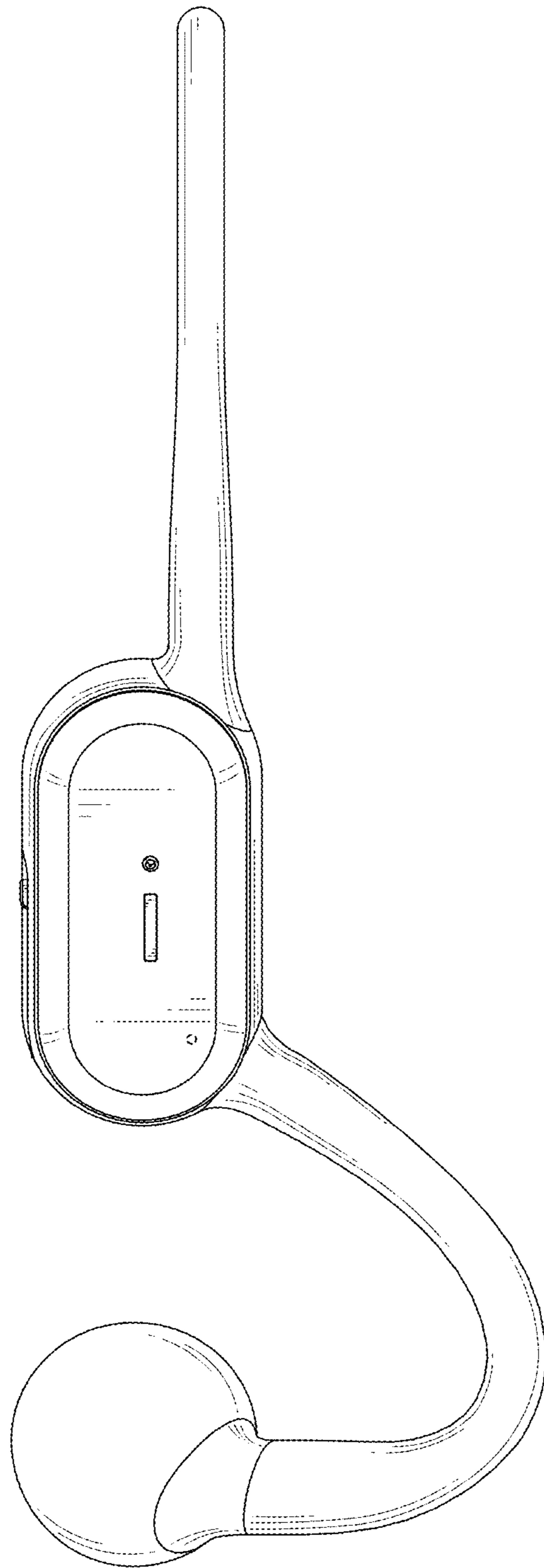


FIG. 5

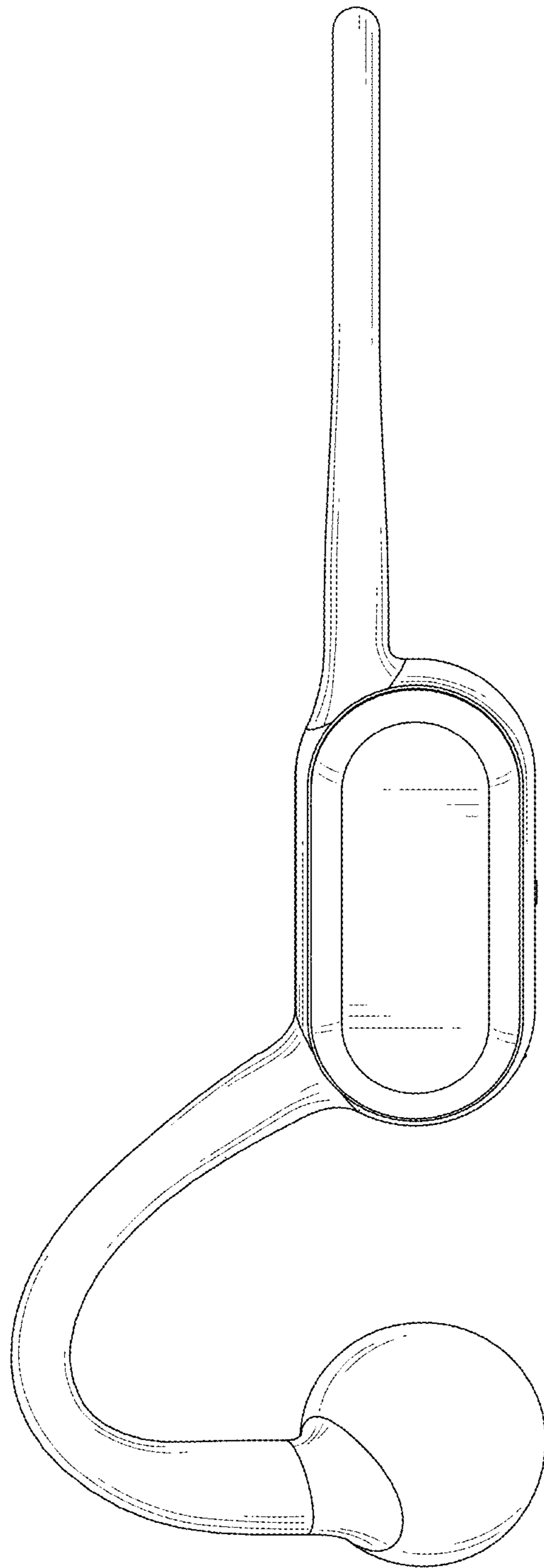


FIG. 6

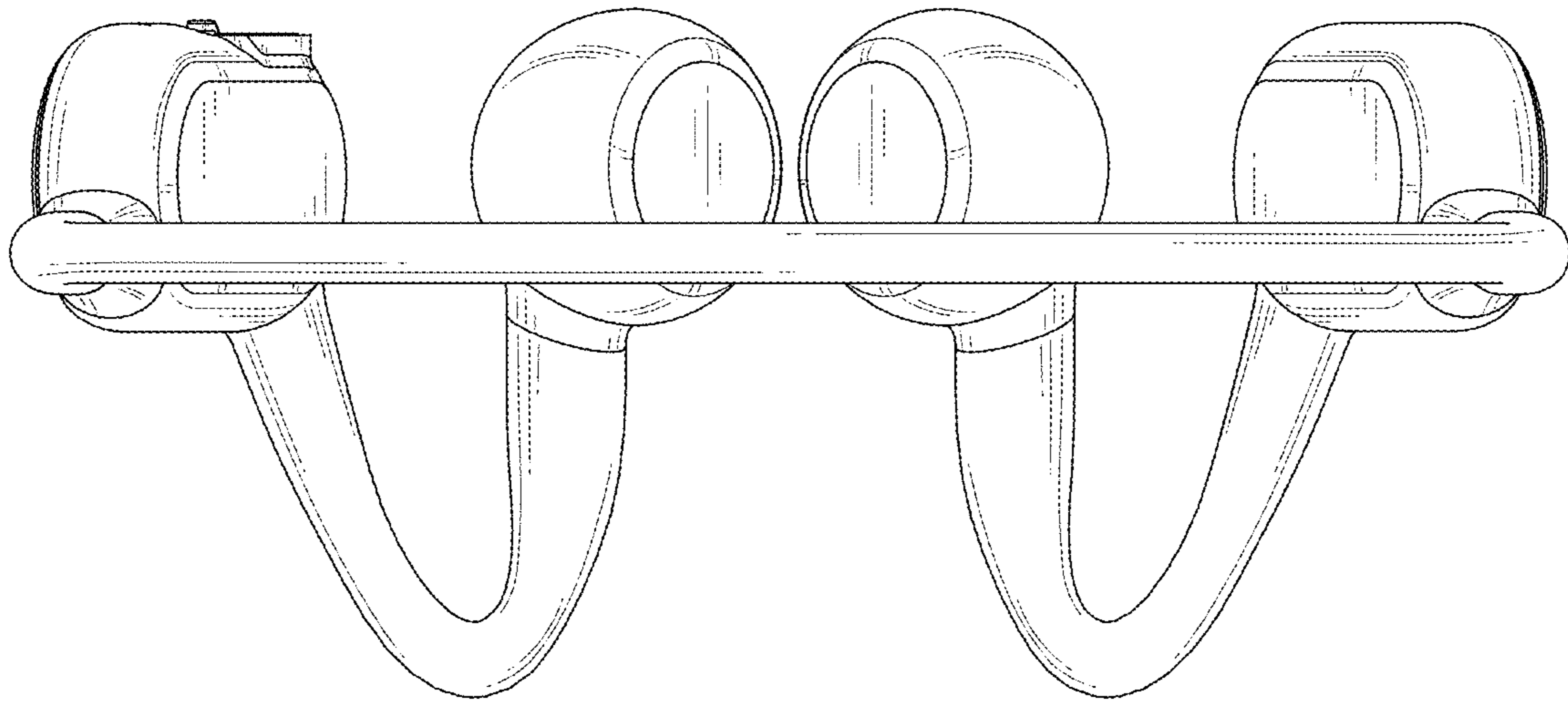


FIG. 7

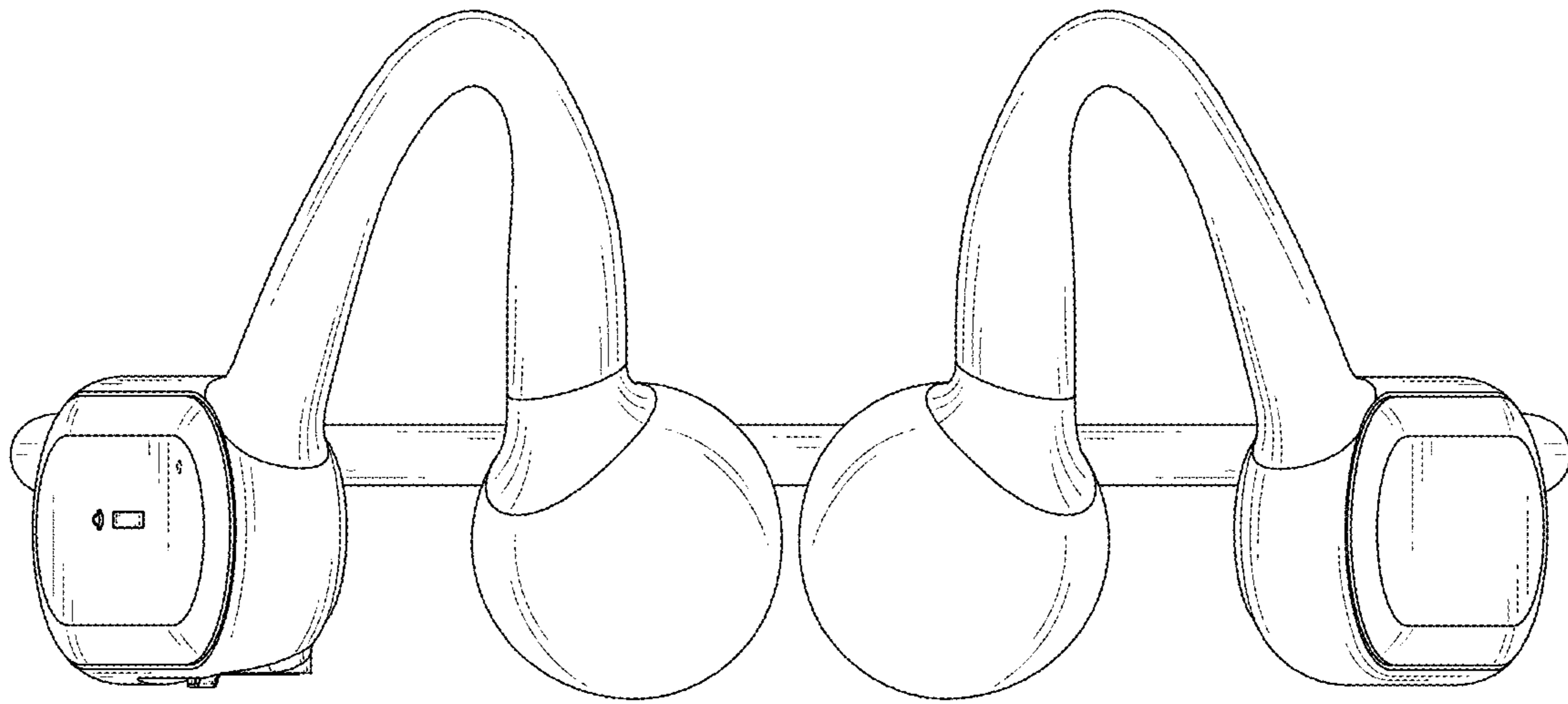


FIG. 8