

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: HOWELL et al.

Attorney Docket No.: IPVCP003C11

Application No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: Herewith

Group: Not Yet Assigned

Title: HEAD-WORN PERSONAL
AUDIO APPARATUS SUPPORTING
ENHANCED HEARING SUPPORT

**INFORMATION DISCLOSURE STATEMENT
37 CFR §§1.56 AND 1.97(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449 may be material to examination of the above-identified patent application. Applicants submit the list of these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application. The above-identified application is a Continuation of prior application U.S. Patent Application No. 17/873,104. This prior application is being relied upon for an earlier filing date under 35 U.S.C. § 120. Because the listed references (to the extent that copies are required) were either cited by the PTO, or submitted to the PTO in the prior application, under 37 CFR § 1.98(d) Applicants submit that copies need not be provided.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is: (i) filed within three (3) months of the filing date of the above-referenced application, (ii) believed to be filed before the mailing date of a first Office Action on the merits, or (iii) believed to be filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under §1.114.

Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-3874 (Order No. IPVCP003C11).

Respectfully submitted,

/C. Douglass Thomas/

C. Douglass Thomas
Registration No. 32,947

4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		
First Named Inventor/Applicant Name:		Thomas A. Howell		
Filer:		Peter P. Tong/Angela Nijim		
Attorney Docket Number:		IPVCP003C11		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
Pages:				
UTILITY APPL SIZE FEE PER 50 SHEETS >100	1081	3	420	1260
Claims:				
Miscellaneous-Filing:				
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				3080

Electronic Acknowledgement Receipt	
EFS ID:	47963638
Application Number:	18144557
International Application Number:	
Confirmation Number:	1712
Title of Invention:	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT
First Named Inventor/Applicant Name:	Thomas A. Howell
Customer Number:	34071
Filer:	Peter P. Tong/Angela Nijim
Filer Authorized By:	Peter P. Tong
Attorney Docket Number:	IPVCP003C11
Receipt Date:	08-MAY-2023
Filing Date:	
Time Stamp:	16:15:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 3080
RAM confirmation Number	E202358G15526808
Deposit Account	503874
Authorized User	Angela Nijim
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges)	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	IPVCP003C11_1449.pdf	139699	no	16
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Warnings:					
Information:					
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2	Power of Attorney	IPVCP003C11_PoA.pdf	486853	no	2
			ffa7f71e84539123e66df7c166d17c099a46c23d		
Warnings:					
Information:					
3	Oath or Declaration filed	IPVCP003C11_DecFromParent.pdf	505141	no	4
			88cf0bedbd1699175431e93fab08b34e9a77052d		
Warnings:					
Information:					
4	Drawings-only black and white line drawings	IPVCP003C11-Figs_AsFiled-CUTE.pdf	491427	no	92
			7f68a496c5cec0cf4c56aae3fa5a92b08188e458		
Warnings:					
Information:					
5	Application Data Sheet	WebADS.pdf	291226	no	10
			a7c674bb6e1daa1c02f86707d900250c62732fb8		
Warnings:					
Information:					
6	Transmittal of New Application	IPVCP003C11_AppTrans.pdf	290017	no	2
			a0b30e77309a00f2094f99a58dbfba6550a58254		
Warnings:					

Information:					
7		IPVCP003C11-App-EarBud_AsFiled.pdf	975091	yes	195
			db0480ea8d90da90bab9580ac622e7fefbf41e31		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	192	
	Claims		193	194	
	Abstract		195	195	
Warnings:					
Information:					
8	Assignee showing of ownership per 37 CFR 3.73	IPVCP003C11_Statement373.pdf	121929	no	3
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Warnings:					
Information:					
9	Transmittal Letter	IPVCP003C11_IDSTrans.pdf	19915	no	2
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Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	46616	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			3367914		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty. Docket No.	IPVCP003C11
	Application No.:	Not Yet Assigned
	Applicant	HOWELL et al.
	Filing Date	Filed Herewith
	Group	Not Yet Assigned
		Page 1 of 16

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	1.	2001/0005230 A1	Jun-01	Ishikawa			
	2.	2001/0028309 A1	Oct-01	Torch			
	3.	2001/0050754 A1	Dec-01	Hay et al.			
	4.	2002/0021407 A1	Feb-02	Elliot			
	5.	2002/0017997 A1	Feb-02	Felkowitz			
	6.	2002/0081982 A1	Jun-02	Schwartz et al.			
	7.	2002/0084990 A1	Jul-02	Peterson, III			
	8.	2002/0089639 A1	Jul-02	Starnes et al.			
	9.	2002/0090103 A1	Jul-02	Calisto, Jr.			
	10.	2002/0098877 A1	Jul-02	Gleberman			
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	15.	2002/0159023 A1	Oct-02	Swab			
	16.	2002/0197961 A1	Dec-02	Warren			
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	18.	2003/0022690 A1	Jan-03	Beyda et al.			
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	20.	2003/0062046 A1	Apr-03	Wiesmann et al.			
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	23.	2003/0067585 A1	Apr-03	Miller et al.			
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	25.	2003/0083591 A1	May-03	Edwards et al.			
	26.	2003/0091200 A1	May-03	Pompei			
	27.	2003/0214630 A1	Nov-03	Winterbotham			

Examiner	Date Considered
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Application No.:	Not Yet Assigned
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	Filing Date	Filed Herewith
	Group	Not Yet Assigned
		Page 2 of 16

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	29.	2003/0231293 A1	Dec-03	Blum et al.			
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	33.	2004/0059212 A1	Mar-04	Abreu			
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	35.	2004/0096078 A1	May-04	Lin			
	36.	2004/0100384 A1	May-04	Chen et al.			
	37.	2004/0101178 A1	May-04	Fedorovskaya et al.			
	38.	2004/0104864 A1	Jun-04	Nakada			
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	40.	2004/0128737 A1	Jul-04	Gesten			
	41.	2004/0150986 A1	Aug-04	Chang			
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	51.	2005/0078274 A1	Apr-05	Howell et al.			
	52.	2005/0088365 A1	Apr-05	Yamazaki et al.			
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	Group	Not Yet Assigned
		Page 3 of 16

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Examiner	Date Considered
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	Application No.:	Not Yet Assigned
	Applicant	HOWELL et al.
	Filing Date	Filed Herewith
	Group	Not Yet Assigned
		Page 4 of 16

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	91.	2008/0144854 A1	Jun-08	Abreu			
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	93.	2008/0151179 A1	Jun-08	Howell et al.			
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	Application No.:	Not Yet Assigned
	Applicant	HOWELL et al.
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		Page 5 of 16

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	121.	2012/0033061 A1	Feb-12	Ko et al.			
	122.	2012/0050668 A1	Mar-12	Howell et al.			
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	Application No.:	Not Yet Assigned
	Applicant	HOWELL et al.
	Filing Date	Filed Herewith
	Group	Not Yet Assigned
		Page 6 of 16

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	146.	2016/0098874 A1	Apr-16	Handville et al.			
	147.	2016/0246075 A9	Aug-16	Howell et al.			
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	149.	2017/0068117 A9	Mar-17	Howell et al.			
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	152.	2017/0131575 A1	May-17	Howell et al.			
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	156.	2018/0314079 A1	Nov-18	Chao et al.			
	157.	2018/0335650 A1	Nov-18	Howell et al.			
	158.	2018/0348050 A1	Dec-18	Howell et al.			
	159.	2019/0004325 A1	Jan-19	Connor			
	160.	2019/0033622 A1	Jan-19	Olgun et al.			
	161.	2019/0033623 A1	Jan-19	Howell et al.			
	162.	2019/0187492 A1	Jun-19	Howell et al.			
	163.	2019/0272800 A1	Sep-19	Tao et al.			
	164.	2019/0278110 A1	Sep-19	Howell et al.			
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	168.	2019/0369402 A1	Dec-19	Woodman et al.			
	169.	2019/0378493 A1	Dec-19	KIM et al.			
	170.	2019/0387351 A1	Dec-19	Lyren et al.			
	171.	2020/0012127 A1	Jan-20	Howell et al.			
	172.	2020/0218094 A1	Jul-20	Howell et al.			

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	173.	2020/0364992 A1	Nov-20	Howell et al.			
	174.	2021/0000347 A1	Jan-21	Stump			
	175.	2021/0026146 A1	Jan-21	Harder et al.			
	176.	2021/0271116 A1	Sep-21	Chao et al.			
	177.	2021/0364827 A9	Nov-21	Howell et al.			
	178.	2021/0364828 A1	Nov-21	Howell et al.			
	179.	2021/0379425 A1	Dec-21	Tran			
	180.	2022/0008763 A1	Jan-22	SALEH et al.			
	181.	2022/0011603 A1	Jan-22	Howell et al.			
	182.	2022/0034542 A1	Feb-22	Peters et al.			
	183.	2022/0054092 A1	Feb-22	Howell et al.			
	184.	2022/0178743 A1	Jun-22	Howell et al.			
	185.	2022/0335792 A1	Oct-22	Howell et al.			
	186.	2022/0357599 A1	Nov-22	Howell et al.			
	187.	2022/0415388 A1	Dec-22	Howell et al.			
	188.	2023/0017634 A1	Jan-23	Howell et al.			
	189.	2023/0033660 A1	Feb-23	Howell et al.			
	190.	2023/0057654 A1	Feb-23	Howell et al.			
	191.	320,558	Jun-1885	Hull			
	192.	669,949	Mar-1901	Underwood			
	193.	1,255,265	Feb-1918	Zachara			
	194.	1,917,745	Jul-33	Weiss			
	195.	2,249,572	Jul-41	Lieber			
	196.	2,638,532	May-53	Brady			
	197.	2,794,085	May-57	De Angelis			
	198.	2,818,511	Dec-57	Ullery et al.			
	199.	2,830,132	Apr-58	Borg			
	200.	2,874,230	Feb-59	Carlson			
	201.	2,904,670	Sep-59	Calmes			

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202.	3,060,308	Oct-62	Fortuna			
203.	3,104,290	Sep-63	Rosemond et al.			
204.	3,119,903	Jan-64	Rosemond et al.			
205.	3,597,054	Aug-71	Winter			
206.	3,710,115	Jan-73	Jubb			
207.	3,858,001	Dec-74	Bonne			
208.	3,883,701	May-75	Delorenzo			
209.	4,165,487	Aug-79	Corderman			
210.	4,254,451	Mar-81	Cochran, Jr.			
211.	4,283,127	Aug-81	Rosenwinkel et al.			
212.	4,322,585	Mar-82	Liautaud			
213.	4,348,664	Sep-82	Boschetti et al.			
214.	4,389,217	Jun-83	Baughman et al.			
215.	4,526,473	Jul-85	Zahn, III			
216.	4,535,244	Aug-85	Burnham			
217.	4,608,492	Aug-86	Burnham			
218.	4,683,587	Jul-87	Silverman			
219.	4,751,691	Jun-88	Perera			
220.	4,757,714	Jul-88	Purdy et al.			
221.	4,773,095	Sep-88	Zwicker et al.			
222.	4,806,011	Feb-89	Bettinger			
223.	4,822,160	April-89	Tsai			
224.	4,822,161	Apr-89	Jimmy			
225.	4,851,686	Jul-89	Pearson			
226.	4,856,086	Aug-89	McCullough			
227.	4,859,047	Aug-89	Badewitz			
228.	4,882,769	Nov-89	Gallimore			
229.	4,904,078	Feb-90	Gorike			
230.	4,942,629	Jul-90	Stadlmann			

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231.	4,962,469	Oct-90	Ono et al.			
232.	4,967,268	Oct-90	Lipton et al.			
233.	4,985,632	Jan-91	Bianco et al.			
234.	5,008,548	Apr-91	Gat			
235.	5,015,086	May-91	Okaue et al.			
236.	5,020,150	May-91	Shannon			
237.	5,026,151	Jun-91	Waltuck et al.			
238.	5,036,311	Jul-91	Moran et al.			
239.	5,050,150	Sep-91	Ikeda			
240.	5,064,410	Nov-91	Frenkel et al.			
241.	5,093,576	Mar-92	Edmond et al.			
242.	5,106,179	Apr-92	Kamaya et al.			
243.	5,144,344	Sep-92	Takahashi et al.			
244.	5,148,023	Sep-92	Hayashi et al.			
245.	5,151,600	Sep-92	Black			
246.	5,161,250	Nov-92	Ianna et al			
247.	5,172,256	Dec-92	Sethofer et al.			
248.	5,264,877	Nov-93	Hussey			
249.	5,306,917	Apr-94	Black et al.			
250.	5,353,378	Oct-94	Hoffman et al.			
251.	5,359,370	Oct-94	Mugnier			
252.	5,359,444	Oct-94	Piosenka et al.			
253.	5,367,345	Nov-94	da Silva			
254.	5,379,464	Jan-95	Schleger et al.			
255.	5,382,986	Jan-95	Black et al.			
256.	5,394,005	Feb-95	Brown et al.			
257.	5,452,026	Sep-95	Marcy, III			
258.	5,452,480	Sep-95	Ryden			
259.	5,455,637	Oct-95	Kallman et al.			

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	260.	5,455,640	Oct-95	Gertsikov			
	261.	5,457,751	Oct-95	Such			
	262.	5,463,428	Oct-95	Lipton et al.			
	263.	5,475,798	Dec-95	Handlos			
	264.	5,500,532	Mar-96	Kozicki			
	265.	5,510,961	Apr-96	Peng			
	266.	5,513,384	Apr-96	Brennan et al.			
	267.	5,519,781	May-96	Kurkurudza			
	268.	5,533,130	Jul-96	Staton			
	269.	5,541,641	Jul-96	Shimada			
	270.	5,581,090	Dec-96	Goudjil			
	271.	5,585,871	Dec.-96	Linden			
	272.	5,589,398	Dec-96	Krause et al.			
	273.	5,590,417	Dec-96	Rydbeck			
	274.	5,606,743	Feb-97	Vogt et al.			
	275.	5,608,808	Mar-97	da Silva			
	276.	5,634,201	May-97	Mooring			
	277.	5,671,035	Sep-97	Barnes			
	278.	5,686,727	Nov-97	Reenstra et al.			
	279.	5,694,475	Dec-97	Boyden			
	280.	5,715,323	Feb-98	Walker			
	281.	5,737,436	Apr-98	Boyden et al.			
	282.	5,777,715	Jul-98	Kruegle et al.			
	283.	5,818,381	Oct-98	Williams			
	284.	5,819,183	Oct-98	Voroba et al.			
	285.	5,835,185	Nov-98	Kallman et al.			
	286.	5,900,720	May-99	Kallman et al.			
	287.	5,903,395	May-99	Rallison et al.			
	288.	5,923,398	Jul-99	Goldman			

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	289.	5,941,837	Aug-99	Amano et al.			
	290.	5,946,071	Aug-99	Feldman			
	291.	5,949,516	Sep-99	McCurdy			
	292.	5,966,746	Oct-99	Reedy et al.			
	293.	5,980,037	Nov-99	Conway			
	294.	5,988,812	Nov-99	Wingate			
	295.	5,991,085	Nov-99	Rallison et al.			
	296.	5,992,996	Nov-99	Sawyer			
	297.	5,995,592	Nov-99	Shirai et al.			
	298.	6,091,546	Jul-00	Spitzer			
	299.	6,010,216	Jan-00	Jesiek			
	300.	6,013,919	Jan-00	Schneider et al.			
	301.	6,028,627	Feb-00	Helmsderfer			
	302.	6,046,455	Apr-00	Ribi et al.			
	303.	6,060,321	May-00	Hovorka			
	304.	6,061,580	May-00	Altschul et al.			
	305.	6,091,546	Jul-00	Spitzer			
	306.	6,091,832	Jul-00	Shurman et al.			
	307.	6,115,177	Sep-00	Vossler			
	308.	6,132,681	Oct-00	Faran et al.			
	309.	6,145,983	Nov-00	Schiffer			
	310.	6,154,552	Nov-00	Koroljow et al.			
	311.	6,176,576 B1	Jan-01	Green et al.			
	312.	6,225,897 B1	May-01	Doyle et al.			
	313.	6,231,181 B1	May-01	Swab			
	314.	6,236,969 B1	May-01	Ruppert et al.			
	315.	6,243,578 B1	Jun-01	Koike			
	316.	6,259,367 B1	Jul-01	Klein			
	317.	6,270,466 B1	Aug-01	Weinstein et al.			

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	318.	6,292,213 B1	Sep-01	Jones			
	319.	6,292,685 B1	Sep-01	Pompei			
	320.	6,301,050 B1	Oct-01	DeLeon			
	321.	6,301,367 B1	Oct-01	Boyden et al.			
	322.	6,307,526 B1	Oct-01	Mann			
	323.	6,311,155 B1	Oct-01	Vaudrey et al.			
	324.	6,343,858 B1	Feb-02	Zelman			
	325.	6,346,929 B1	Feb-02	Fukushima et al.			
	326.	6,349,001 B1	Feb-02	Spitzer			
	327.	6,349,422 B1	Feb-02	Schleger et al.			
	328.	6,409,335 B1	Jun-02	Lipawsky			
	329.	6,409,338 B1	Jun-02	Jewell			
	330.	6,426,719 B1	Jul-02	Nagareda et al.			
	331.	6,431,705 B1	Aug-02	Linden			
	332.	6,474,816 B2	Nov-02	Butler et al.			
	333.	6,478,736 B1	Nov-02	Mault			
	334.	6,506,142 B2	Jan-03	Itoh et al.			
	335.	6,511,175 B2	Jan-03	Hay et al.			
	336.	6,513,532 B2	Feb-03	Mault et al.			
	337.	6,517,203 B1	Feb-03	Blum et al.			
	338.	6,539,336 B1	Mar-03	Vock et al.			
	339.	6,542,081 B2	Apr-03	Torch			
	340.	6,546,101 B1	Apr-03	Murray et al.			
	341.	6,554,763 B1	Apr-03	Amano et al.			
	342.	6,582,075 B1	Jun-03	Swab et al.			
	343.	6,619,799 B1	Sep-03	Blum et al.			
	344.	6,629,076 B1	Sep-03	Haken			
	345.	6,678,381 B1	Jan-04	Manabe			
	346.	6,717,737 B1	Apr-04	Haglund			

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	347.	6,729,726 B2	May-04	Miller et al.			
	348.	6,736,759 B1	May-04	Stubbs et al.			
	349.	6,764,194 B1	Jul-04	Cooper			
	350.	6,769,767 B2	Aug-04	Swab et al.			
	351.	6,771,423 B2	Aug-04	Geist			
	352.	6,788,309 B1	Sep-04	Swan et al.			
	353.	6,792,401 B1	Sep-04	Nigro et al.			
	354.	6,816,314 B2	Nov-04	Shimizu et al.			
	355.	6,824,265 B1	Nov-04	Harper			
	356.	6,857,741 B2	Feb-05	Blum et al.			
	357.	6,871,951 B2	Mar-05	Blum et al.			
	358.	6,879,930 B2	Apr-05	Sinclair et al.			
	359.	6,912,386 B1	Jun-05	Himberg et al.			
	360.	6,929,365 B2	Aug-05	Swab et al.			
	361.	6,932,090 B1	Aug-05	Reschke et al.			
	362.	6,947,219 B1	Sep-05	Ou			
	363.	7,004,582 B2	Feb-06	Jannard et al.			
	364.	7,013,009 B2	Mar-06	Warren			
	365.	7,023,594 B2	Apr-06	Blum et al.			
	366.	7,030,902 B2	Apr-06	Jacobs			
	367.	7,031,667 B2	Apr-06	Horiguchi			
	368.	7,033,025 B2	Apr-06	Winterbotham			
	369.	7,059,717 B2	Jun-06	Bloch			
	370.	7,073,905 B2	Jul-06	Da Pra'			
	371.	7,079,876 B2	Jul-06	Levy			
	372.	7,123,215 B2	Oct-06	Nakada			
	373.	7,192,136 B2	Mar-07	Howell et al.			
	374.	7,255,437 B2	Aug-07	Howell et al.			
	375.	7,265,358 B2	Sep-07	Fontaine			

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376.	7,274,292 B2	Sep-07	Velhal et al.			
377.	7,289,767 B2	Oct-07	Lai			
378.	7,312,699 B2	Dec-07	Chornenky			
379.	7,331,666 B2	Feb-08	Swab et al.			
380.	7,376,238 B1	May-08	Rivas et al.			
381.	7,380,936 B2	Jun-08	Howell et al.			
382.	7,401,918 B2	Jul-08	Howell et al.			
383.	7,405,801 B2	Jul-08	Jacobs			
384.	7,429,965 B2	Sep-08	Weiner			
385.	7,438,409 B2	Oct-08	Jordan			
386.	7,438,410 B1	Oct-08	Howell et al.			
387.	7,445,332 B2	Nov-08	Jannard et al.			
388.	7,481,531 B2	Jan-09	Howell et al.			
389.	7,500,746 B2	Mar-09	Howell et al.			
390.	7,500,747 B2	Mar-09	Howell et al.			
391.	7,512,414 B2	Mar-09	Jannard et al.			
392.	7,517,083 B2	Apr-09	Blum et al.			
393.	7,527,374 B2	May-09	Chou			
394.	7,543,934 B2	Jun-09	Howell et al.			
395.	7,581,833 B2	Sep-09	Howell et al.			
396.	7,621,634 B2	Nov-09	Howell et al.			
397.	7,648,236 B1	Jan-10	Dobson			
398.	7,677,723 B2	Mar-10	Howell et al.			
399.	7,760,898 B2	Jul-10	Howell et al.			
400.	7,771,046 B2	Aug-10	Howell et al.			
401.	7,792,552 B2	Sep-10	Thomas et al.			
402.	7,801,570 B2	Sep-10	Cheung et al.			
403.	7,806,525 B2	Oct-10	Howell et al.			
404.	7,922,321 B2	Apr-11	Howell et al.			

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	405.	7,976,159 B2	Jul-11	Jacobs et al.			
	406.	8,109,629 B2	Feb-12	Howell et al.			
	407.	8,142,015 B2	Mar-12	Paolino			
	408.	8,174,569 B2	May-12	Tanijiri et al.			
	409.	8,337,013 B2	Dec-12	Howell et al.			
	410.	8,430,507 B2	Apr-13	Howell et al.			
	411.	8,434,863 B2	May-13	Howell et al.			
	412.	8,465,151 B2	Jun-13	Howell et al.			
	413.	8,485,661 B2	Jul-13	Yoo et al.			
	414.	8,500,271 B2	Aug-13	Howell et al.			
	415.	8,770,742 B2	Jul-14	Howell et al.			
	416.	8,849,185 B2	Sep-14	Cheung et al.			
	417.	8,905,542 B2	Dec-14	Howell et al.			
	418.	9,033,493 B2	May-15	Howell et al.			
	419.	9,244,292 B2	Jan-16	Swab et al.			
	420.	9,400,390 B2	Jul-16	Osterhout et al.			
	421.	9,405,135 B2	Aug-16	Sweis et al.			
	422.	9,488,520 B2	Nov-16	Howell et al.			
	423.	9,547,184 B2	Jan-17	Howell et al.			
	424.	9,690,121 B2	Jun-17	Howell et al.			
	425.	9,922,236 B2	Mar-18	Moore et al.			
	426.	10,042,186 B2	Aug-18	Chao et al.			
	427.	10,060,790 B2	Aug-18	Howell et al.			
	428.	10,061,144 B2	Aug-18	Howell et al.			
	429.	10,310,296 B2	Jun-19	Howell et al.			
	430.	10,345,625 B2	Jul-19	Howell et al.			
	431.	10,359,311 B2	Jul-19	Howell et al.			
	432.	10,515,623 B1	Dec-19	Grizzel			
	433.	10,539,459 B2	Jan-20	Howell et al.			

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	434.	10,624,790 B2	Apr-20	Chao et al.			
	435.	10,571,715 B2	Feb-20	Rizzo, III et al.			
	436.	10,777,048 B2	Sep-20	Howell et al.			
	437.	10,802,582 B1	Oct-20	Clements			
	438.	10,964,190 B2	Mar-21	Peyrard			
	439.	11,042,045 B2	Jun-21	Chao et al.			
	440.	11,069,358 B1	Jul-21	Harper			
	441.	11,086,147 B2	Aug-21	Howell et al.			
	442.	11,204,512 B2	Dec-21	Howell et al.			
	443.	11,243,416 B2	Feb-22	Howell et al.			
	444.	11,326,941 B2	May-22	Howell et al.			
	445.	11,513,371 B2	Nov-22	Howell et al.			
	446.	11,536,988 B2	Dec-22	Howell et al.			
	447.	11,644,693 B2	May-23	Howell et al.			
	448.	DES. 369,167	Apr-96	Hanson et al.			

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 34071

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 34071

OR

☐	Firm or individual name		
	Address		
	City	State	Zip
	Country		
	Telephone	Email	

Assignee name and address: IngerioSpec, LLC
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature/C. Douglass Thomas/	Date May 8, 2023
Name C. Douglass Thomas	Telephone 650-903-9200, x103
Title Member	

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 18 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

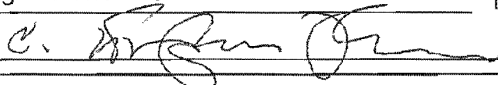
Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

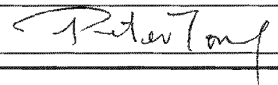
Title of Invention	EYEWEAR SUPPORTING BONE CONDUCTING SPEAKER
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>13/955,336</u> filed on <u>July 31, 2013</u>. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR Inventor: <u>C. Douglass Thomas</u> Date (Optional): <u>8/19/2013</u> Signature: <u></u>	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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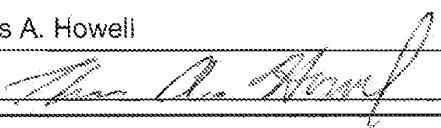
**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	EYEWEAR SUPPORTING BONE CONDUCTING SPEAKER
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>13/955,336</u> filed on <u>July 31, 2013</u> The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. LEGAL NAME OF INVENTOR Inventor: <u>Peter P. Tong</u> Date (Optional): <u>Aug 19, 2013</u> Signature: <u></u> Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Title of Invention	EYEWEAR SUPPORTING BONE CONDUCTING SPEAKER
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	EYEWEAR SUPPORTING BONE CONDUCTING SPEAKER
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As the below named inventor, I hereby declare that:

This declaration is directed to: ☐ The attached application, or

☒ United States application or PCT international application number 13/955,336
July 31, 2013
 filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

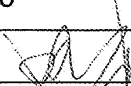
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

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LEGAL NAME OF INVENTOR

Inventor: David Chao Date (Optional) : _____

Signature:  _____

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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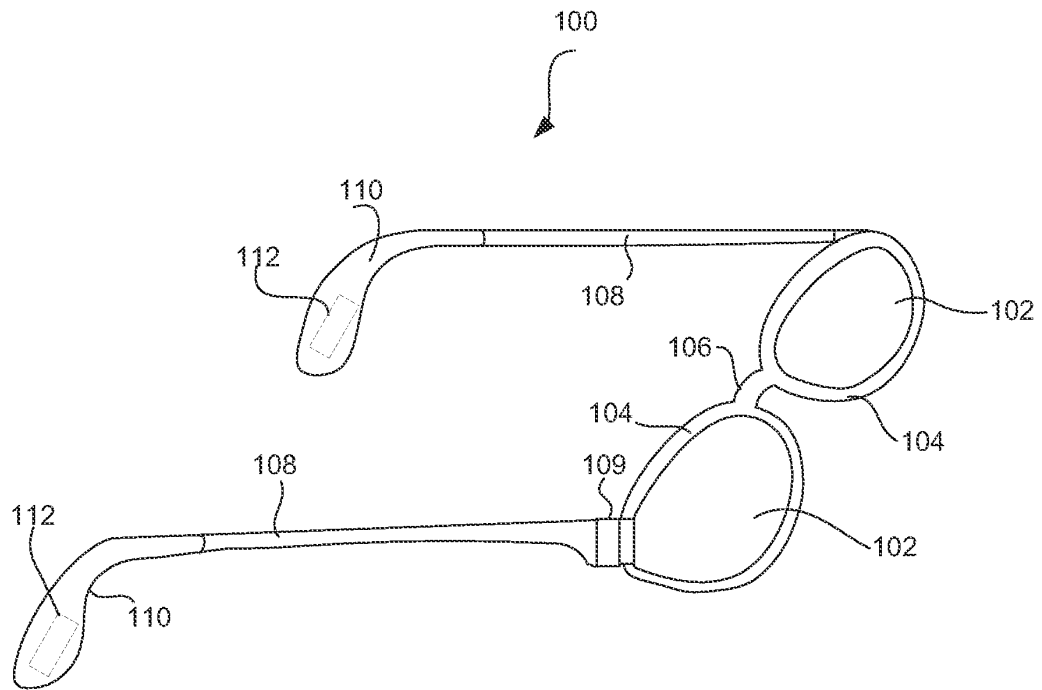


FIG. 1

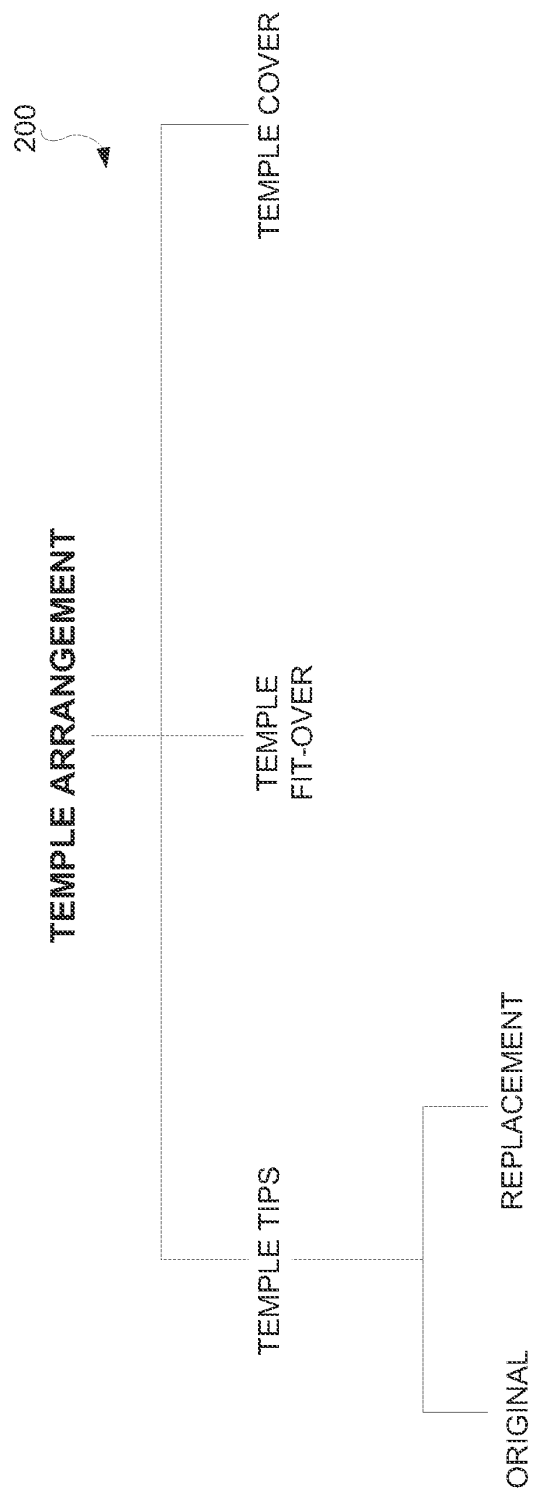


FIG. 2

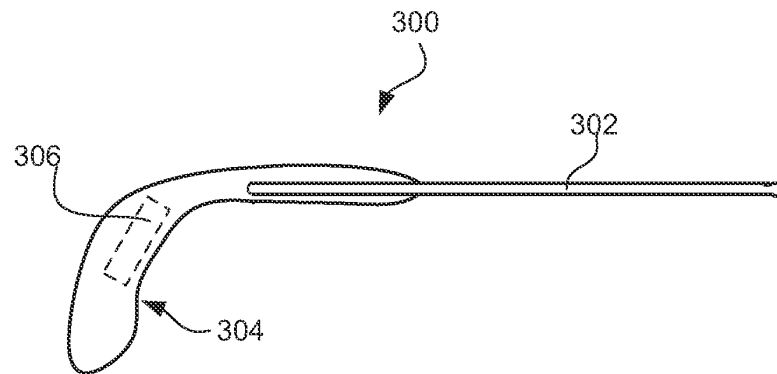


FIG. 3A

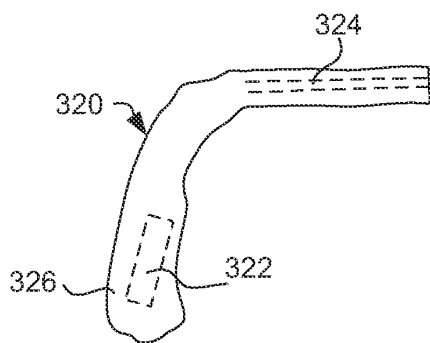


FIG. 3B

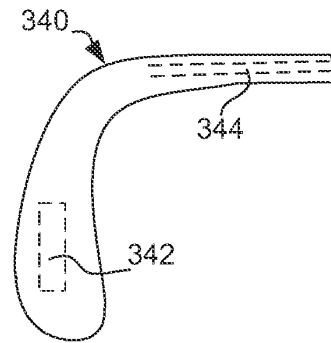


FIG. 3C

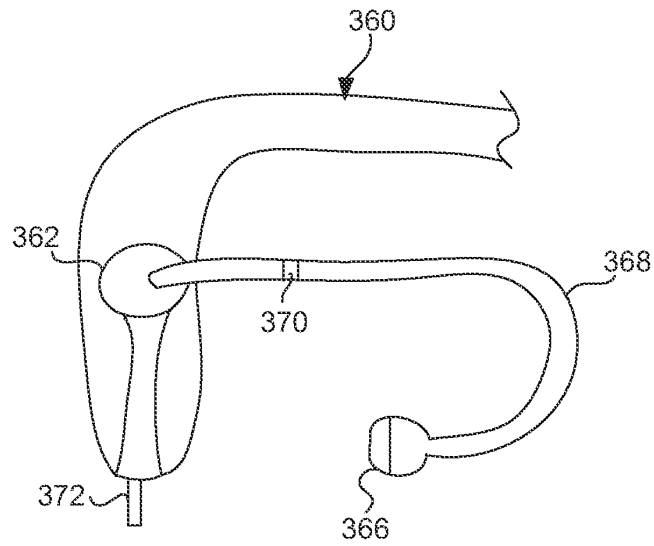


FIG. 3D

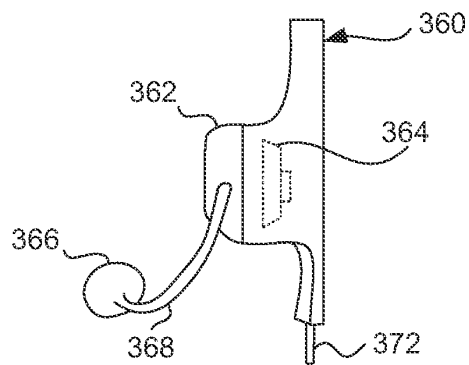


FIG. 3E

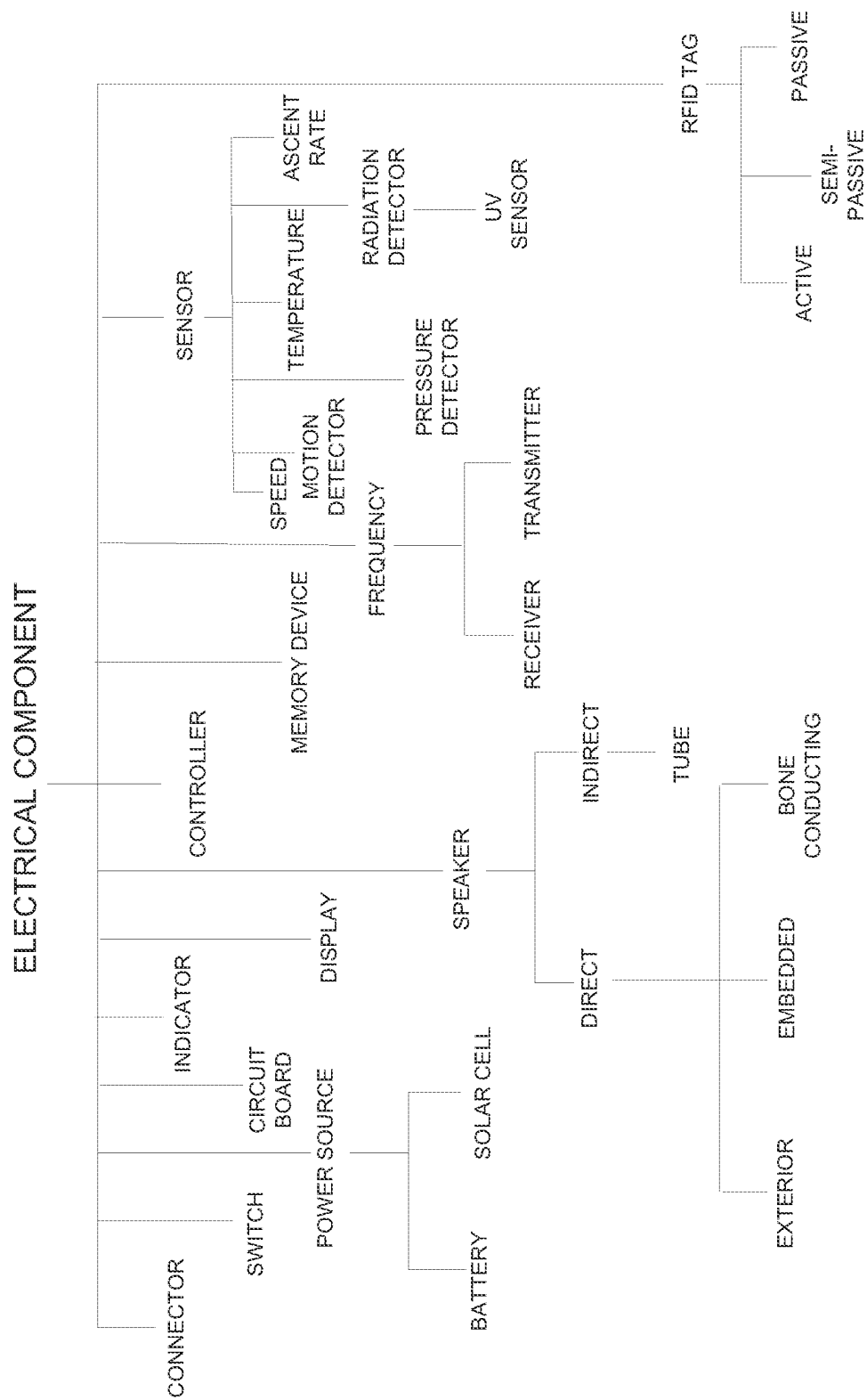


FIG. 4

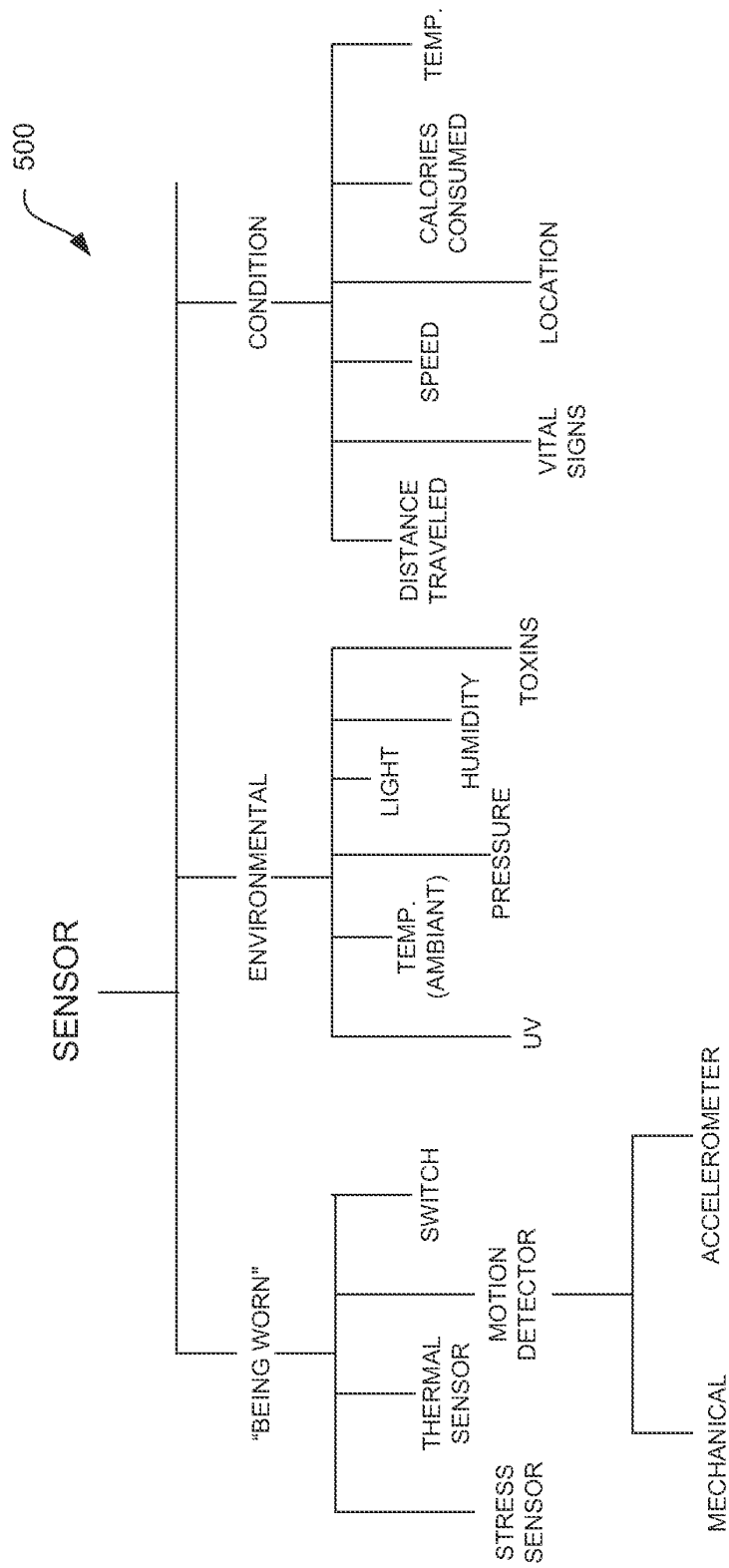


FIG. 5

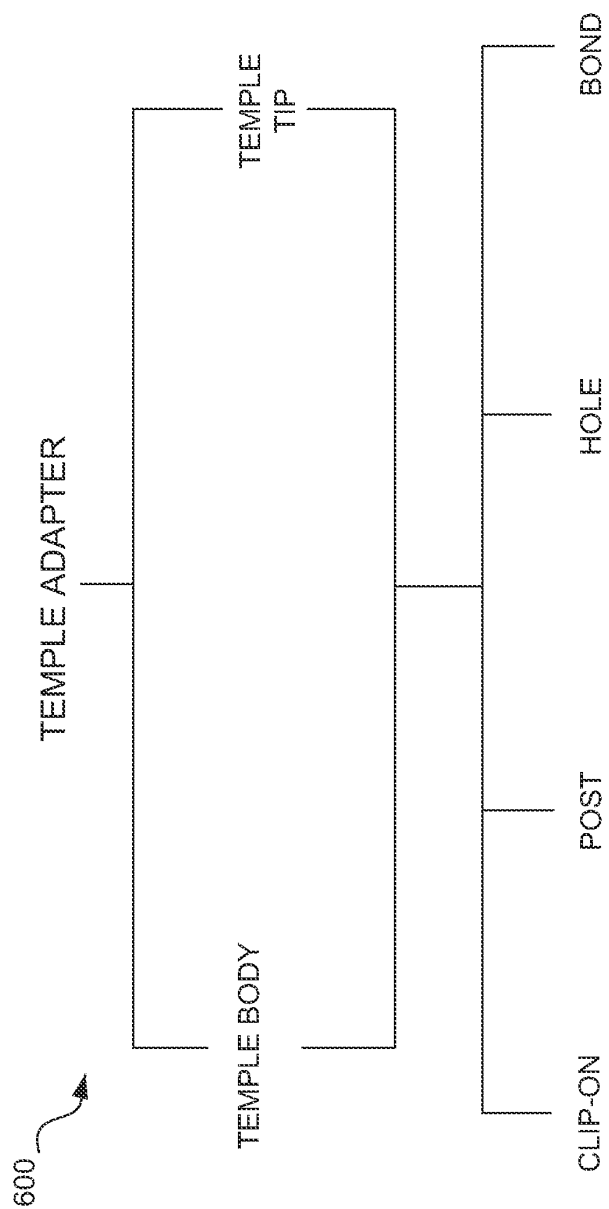


FIG. 6

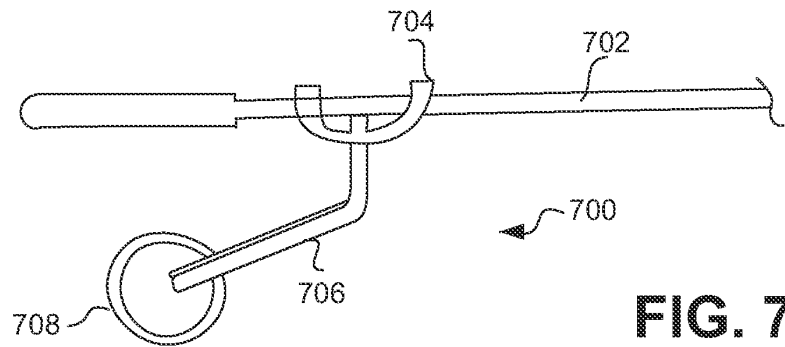


FIG. 7A

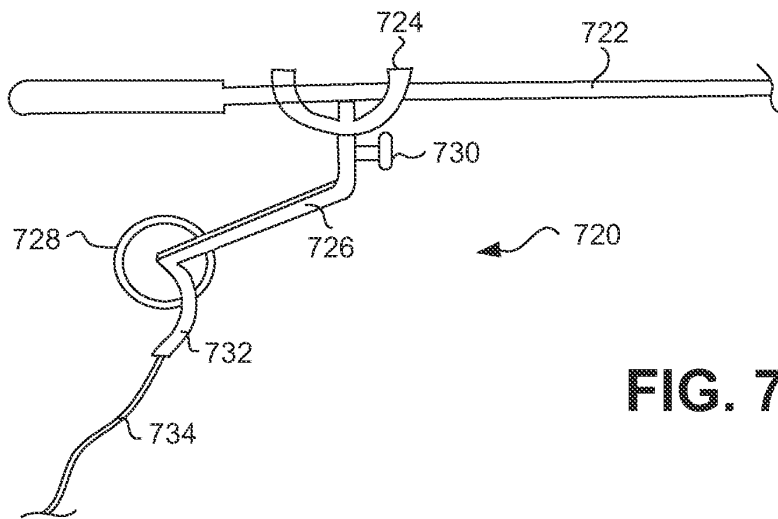


FIG. 7B

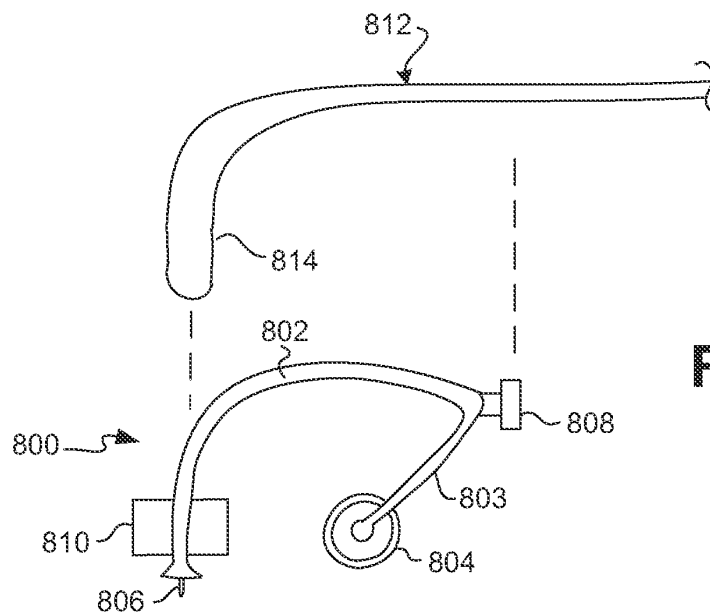


FIG. 8A

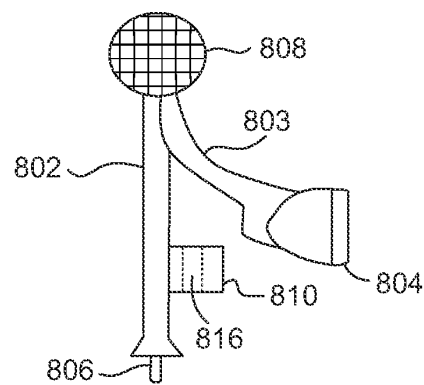
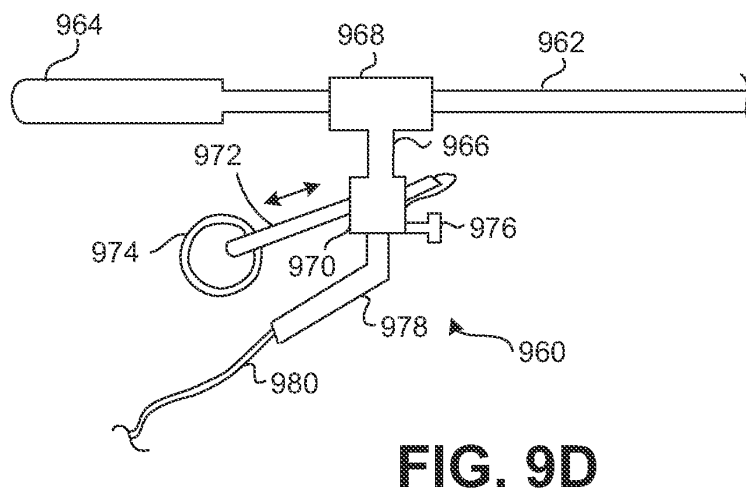
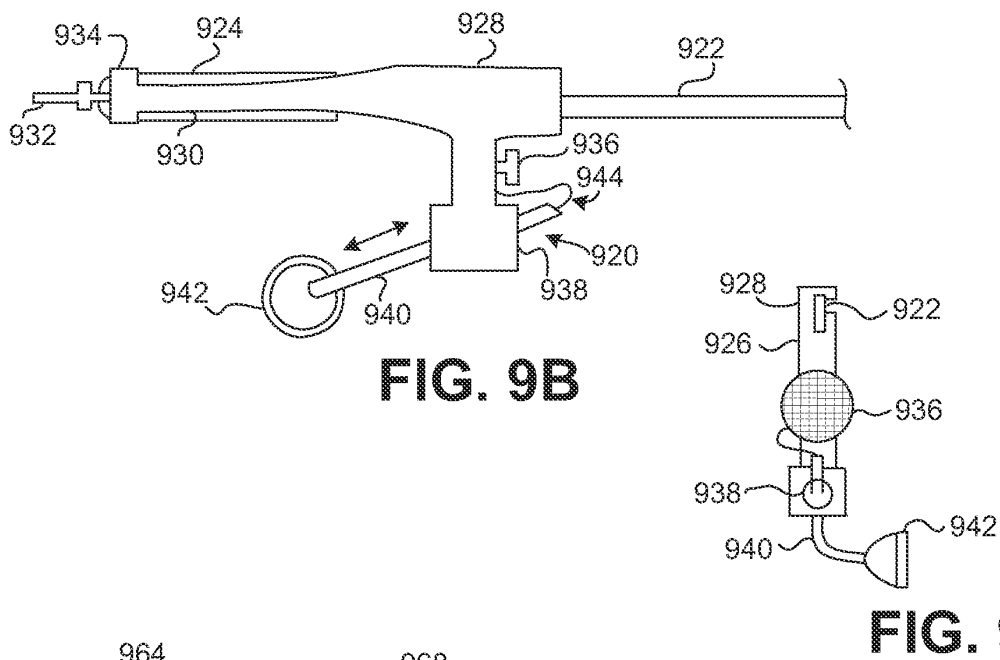
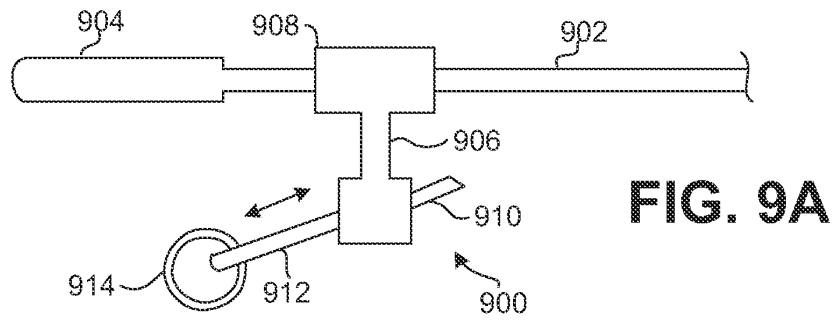


FIG. 8B



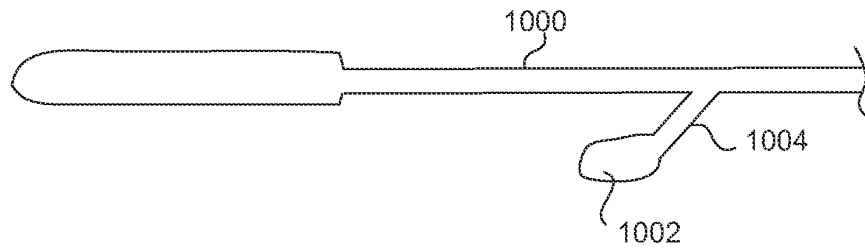


FIG. 10A

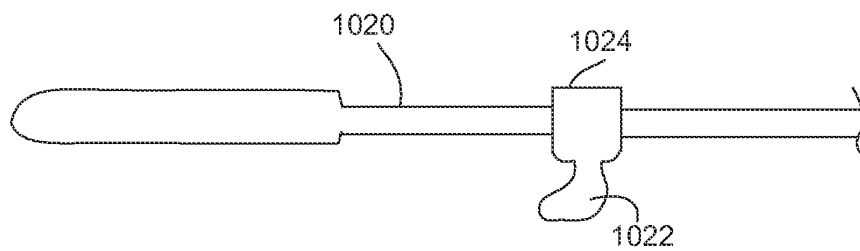


FIG. 10B

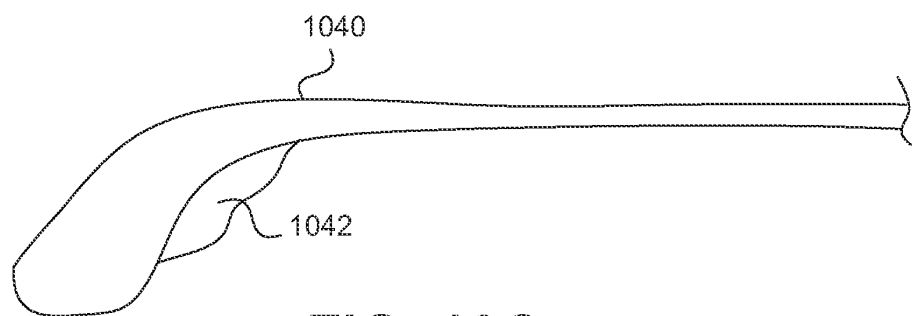


FIG. 10C

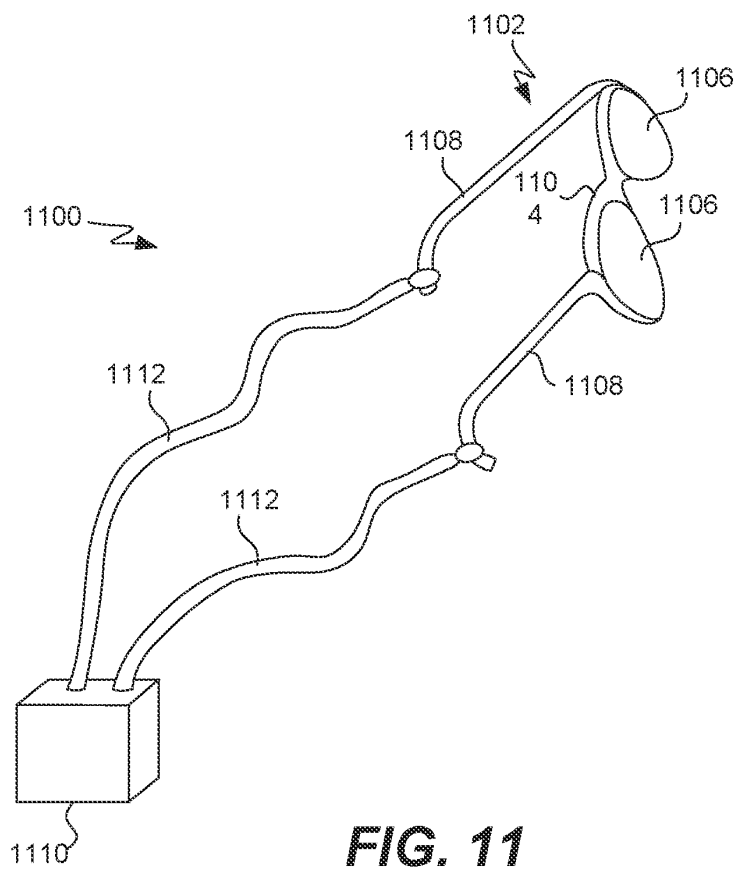


FIG. 11

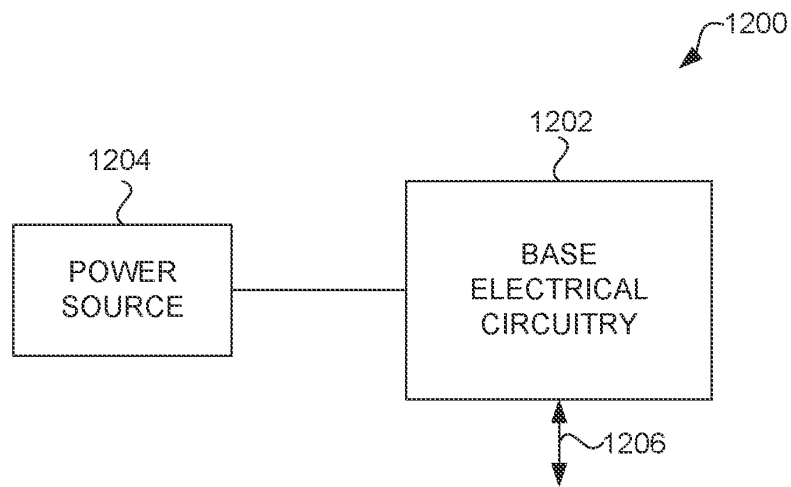


FIG. 12A

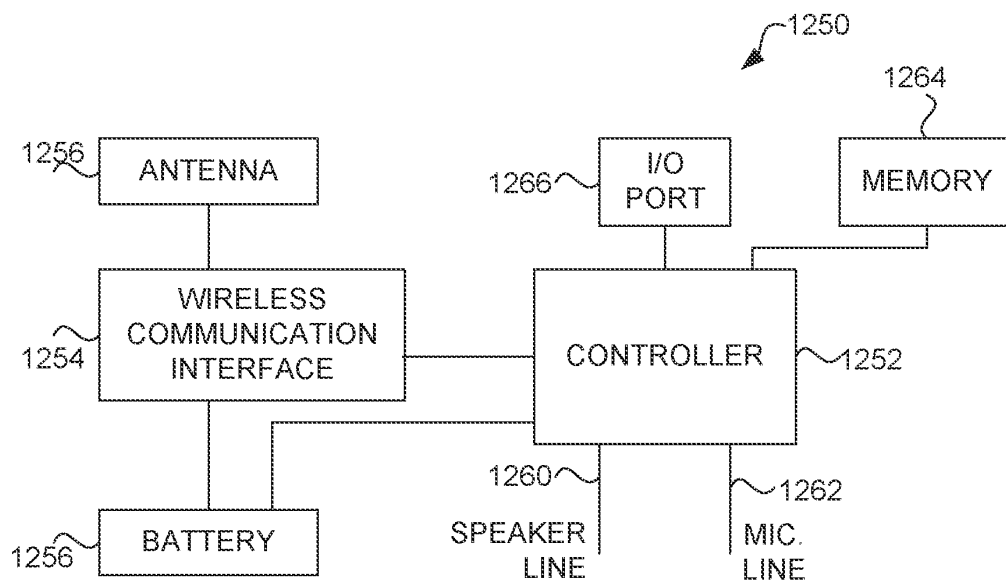


FIG. 12B

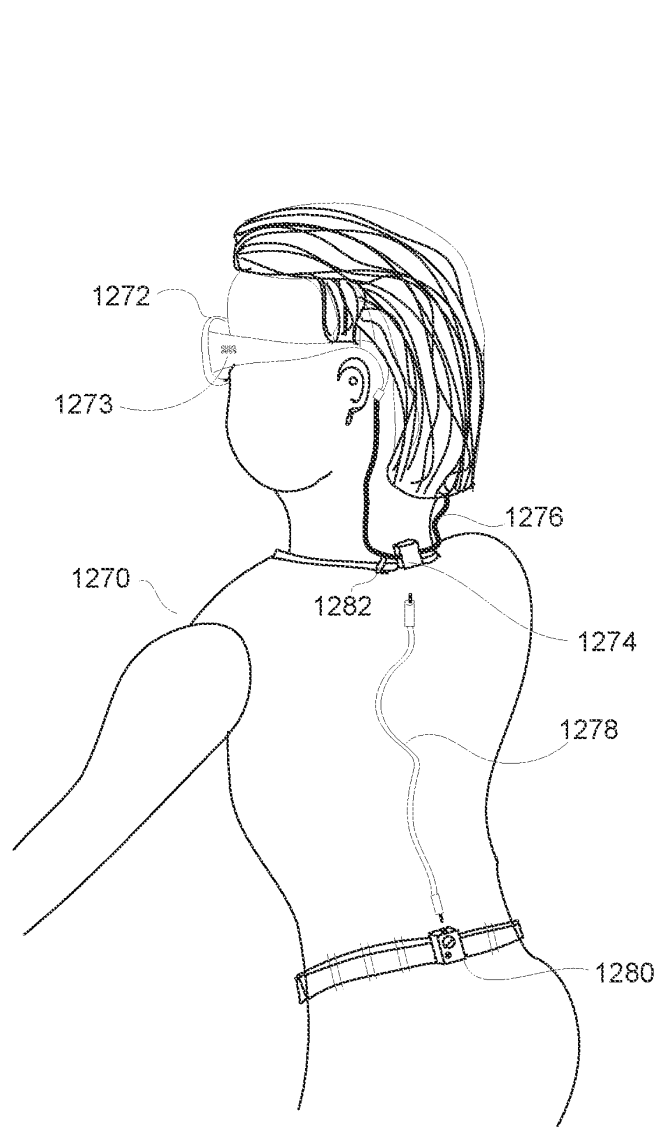


FIG. 12C

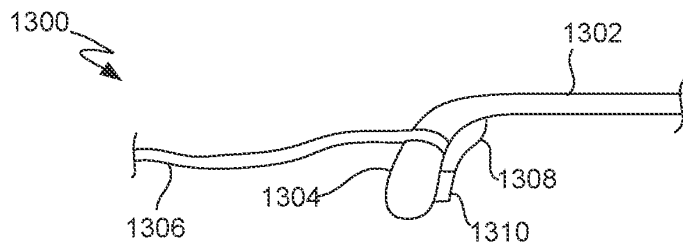


FIG. 13A

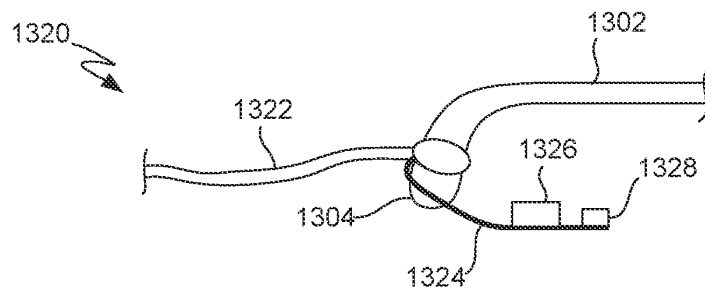


FIG. 13B

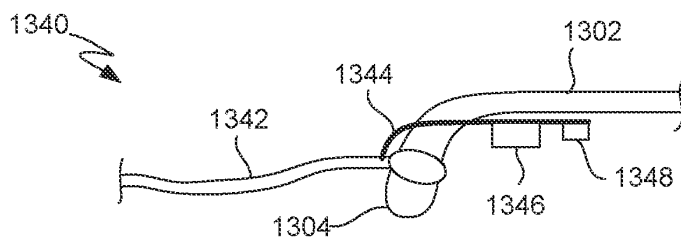


FIG. 13C

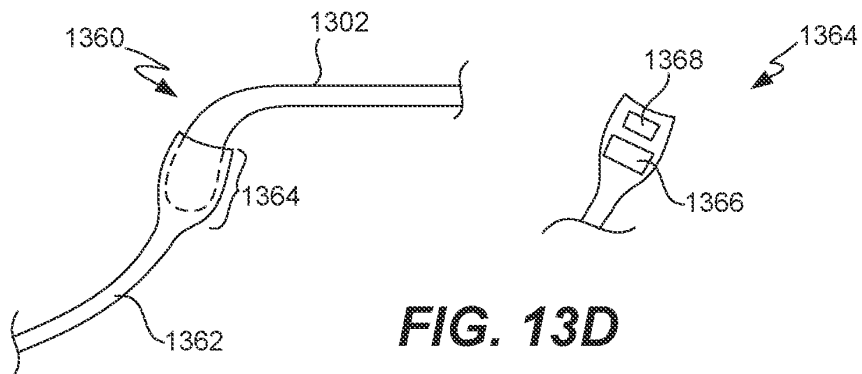


FIG. 13D

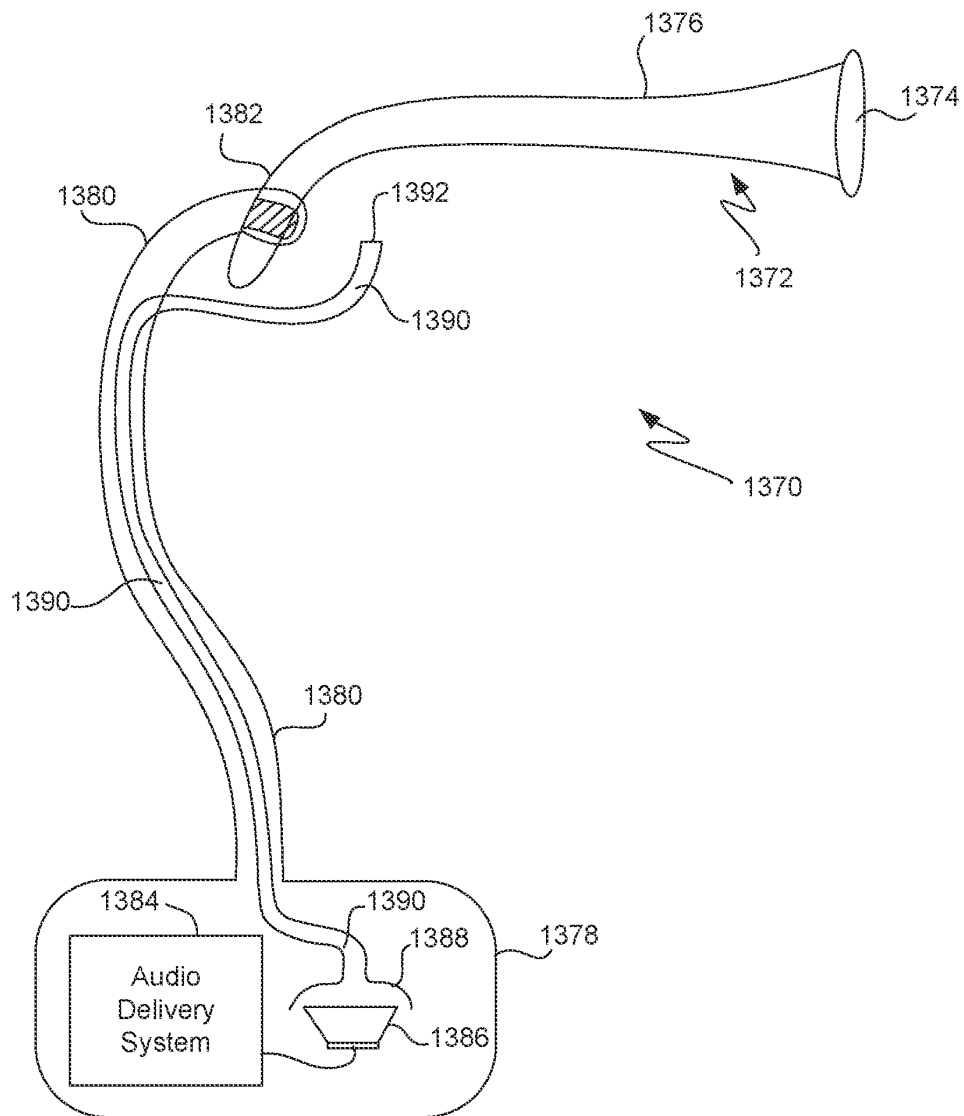


FIG. 13E

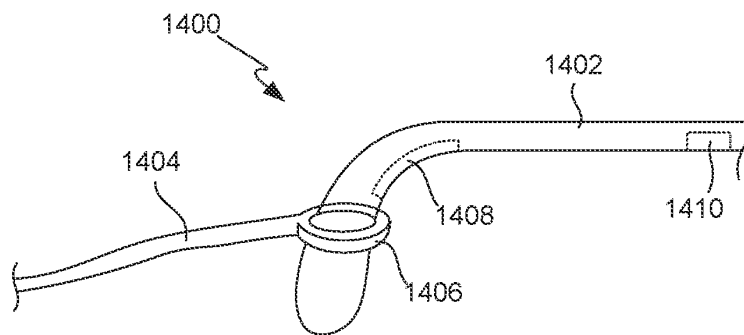


FIG. 14A

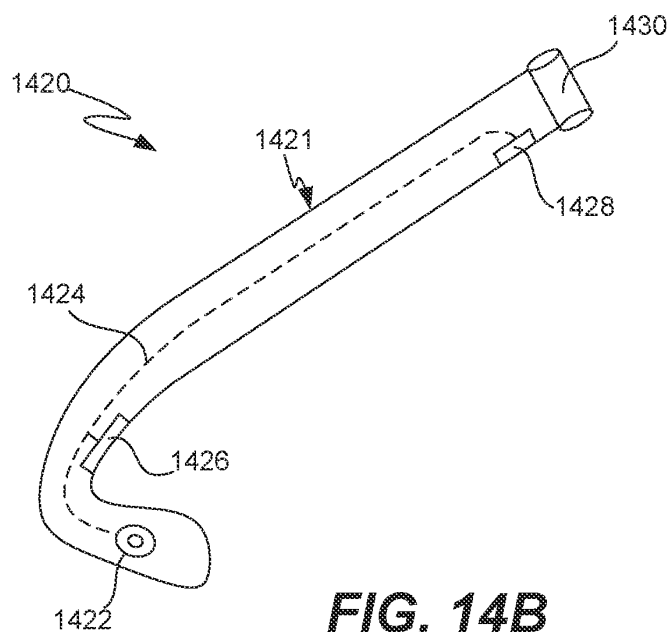
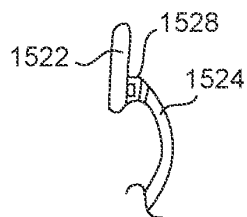
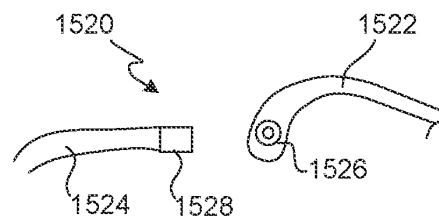
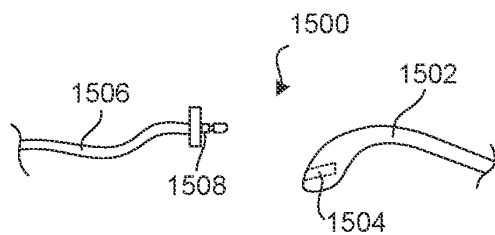
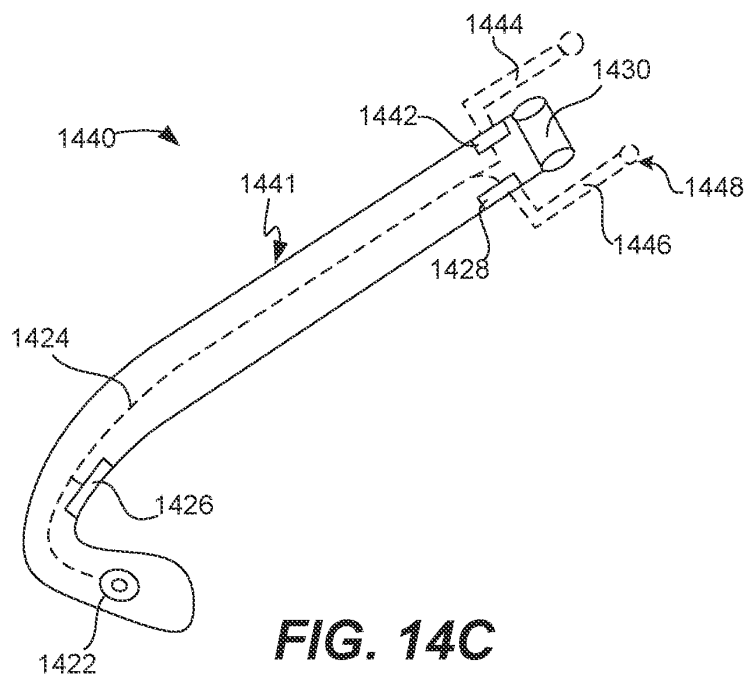


FIG. 14B



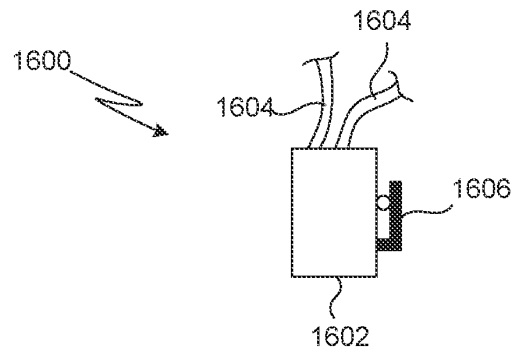


FIG. 16

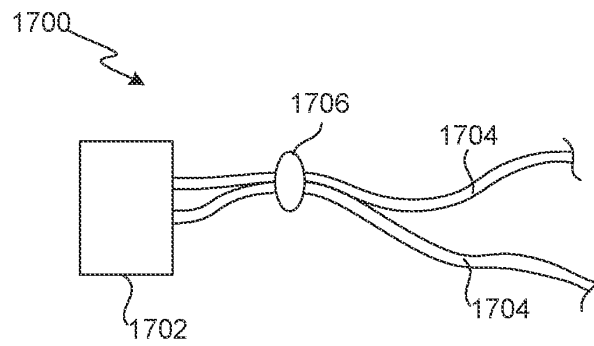
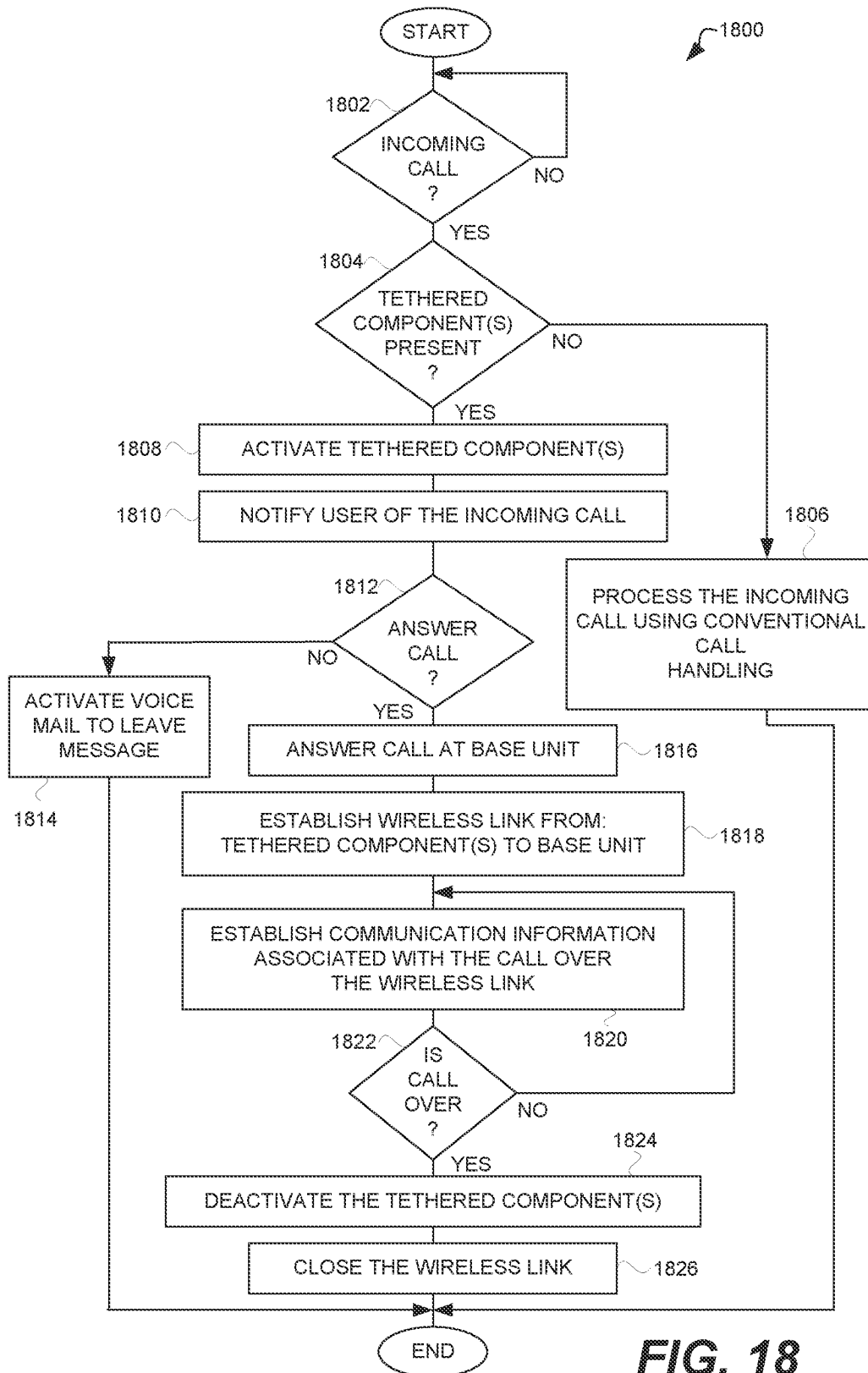
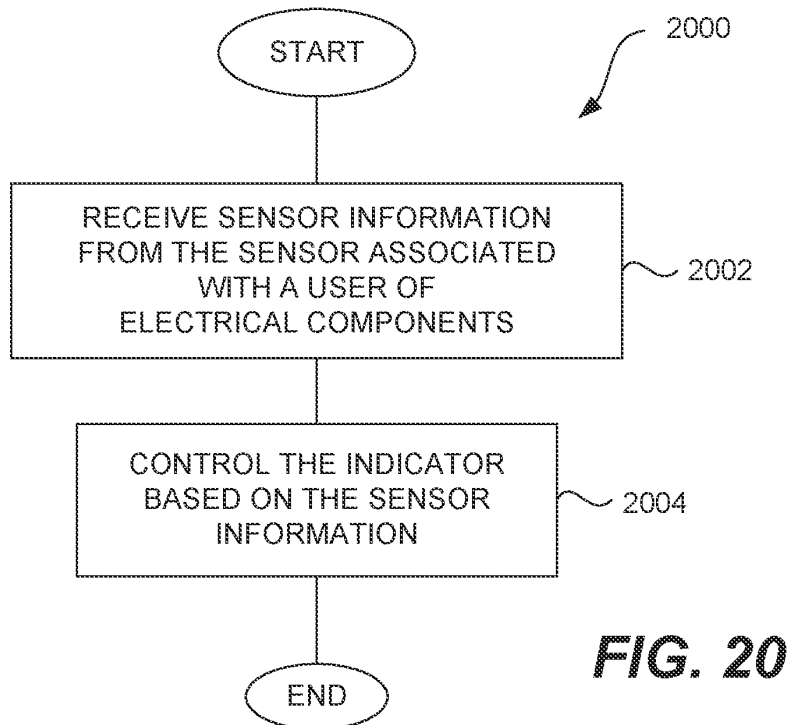
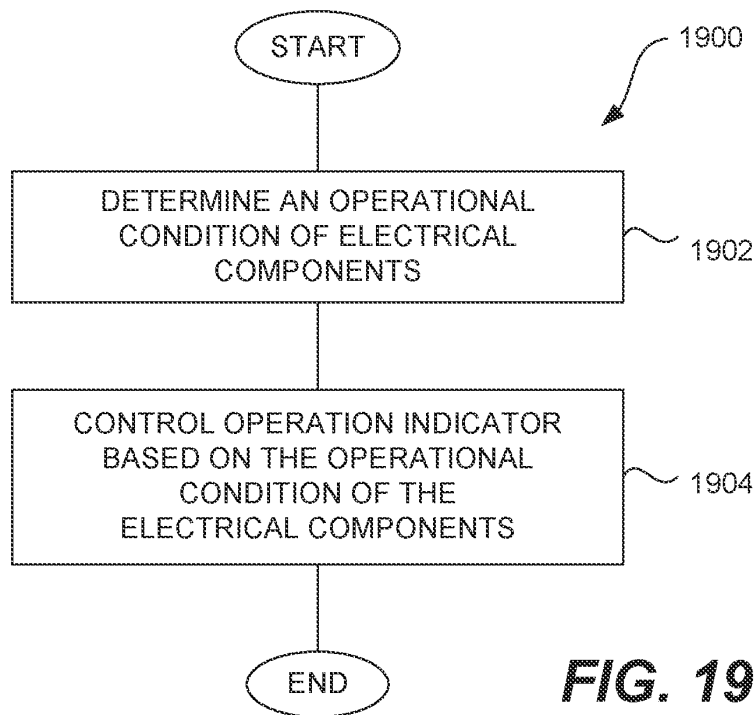
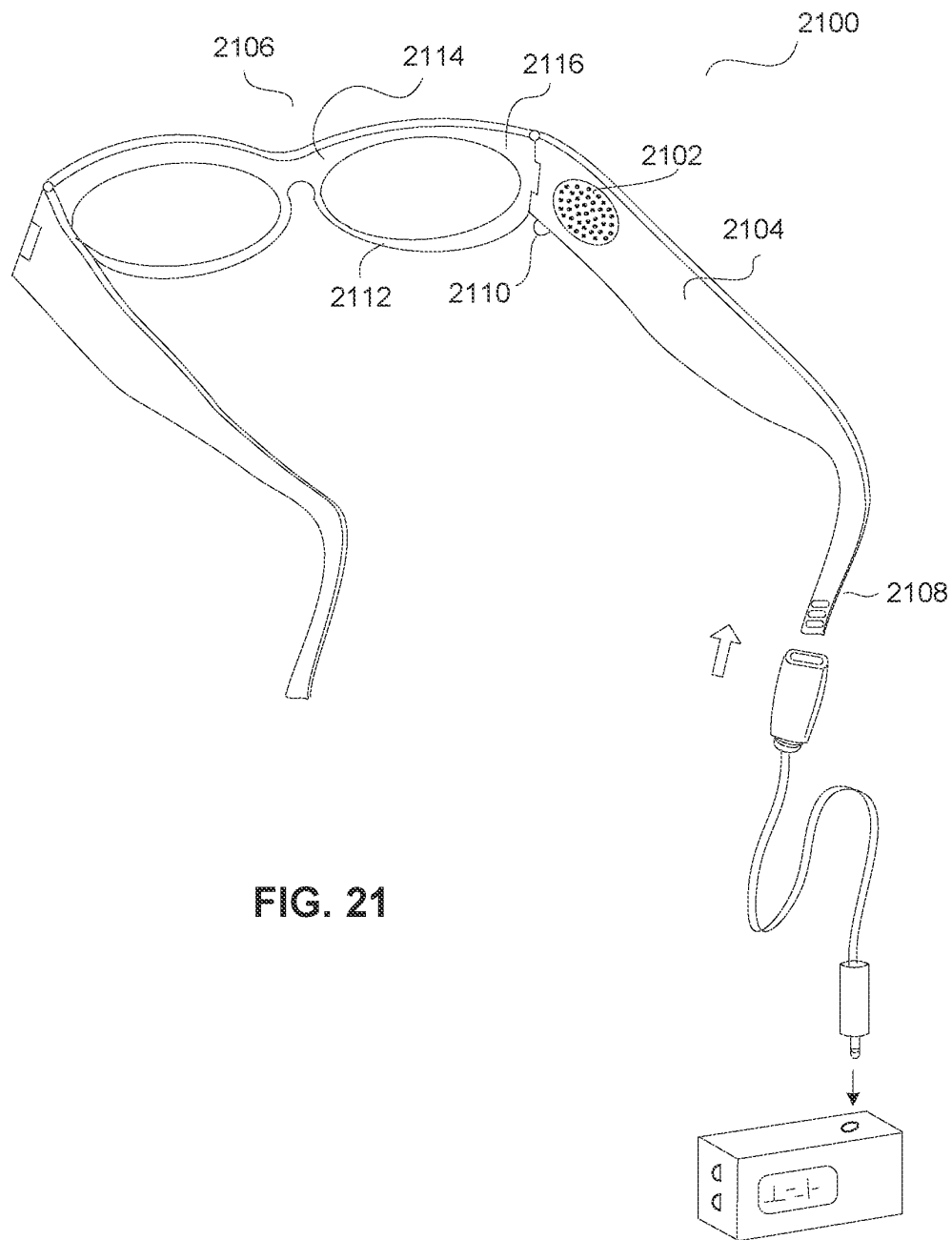


FIG. 17







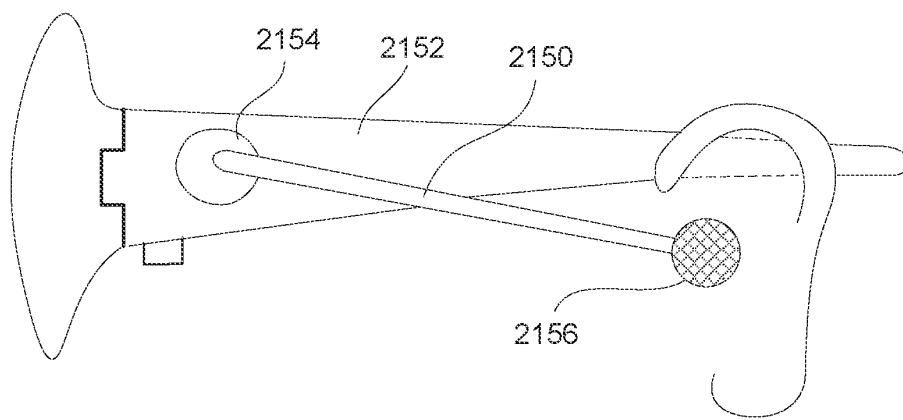


FIG. 22

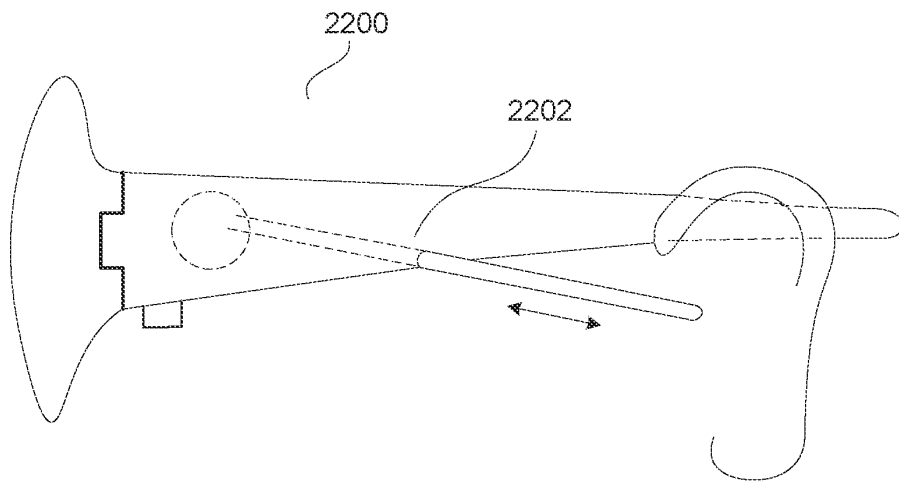


FIG. 23

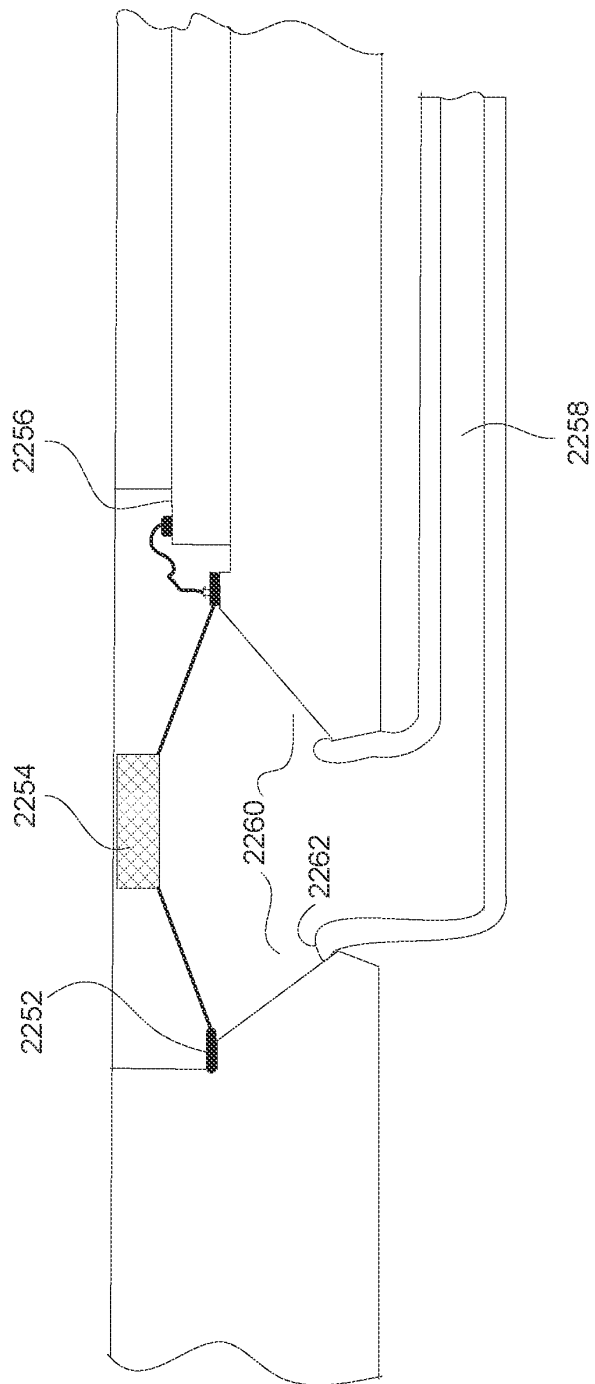


Fig. 24

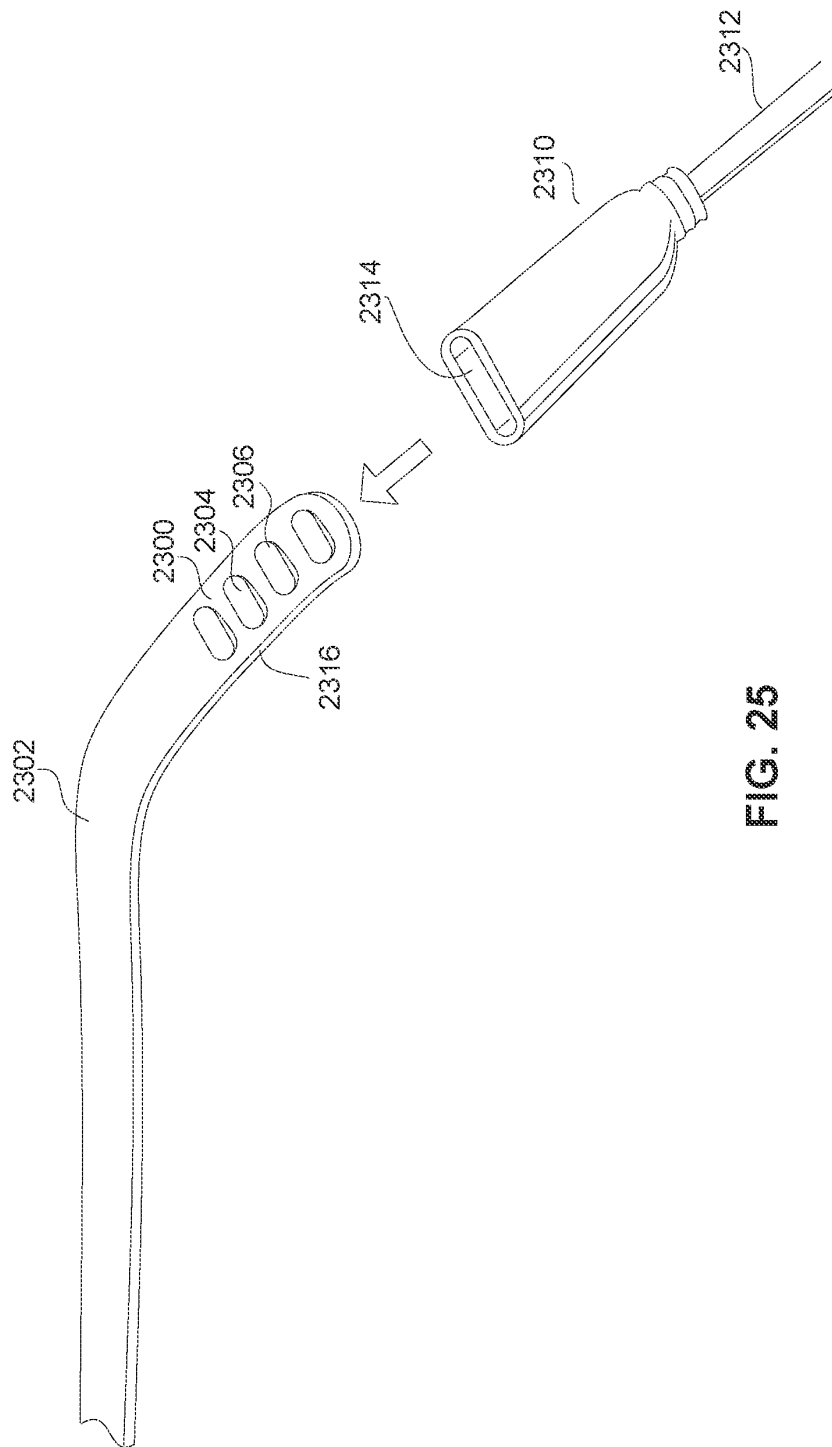


FIG. 25

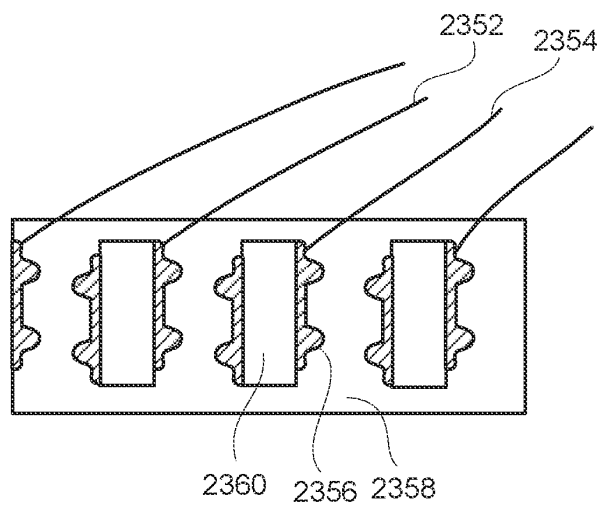


FIG. 26A

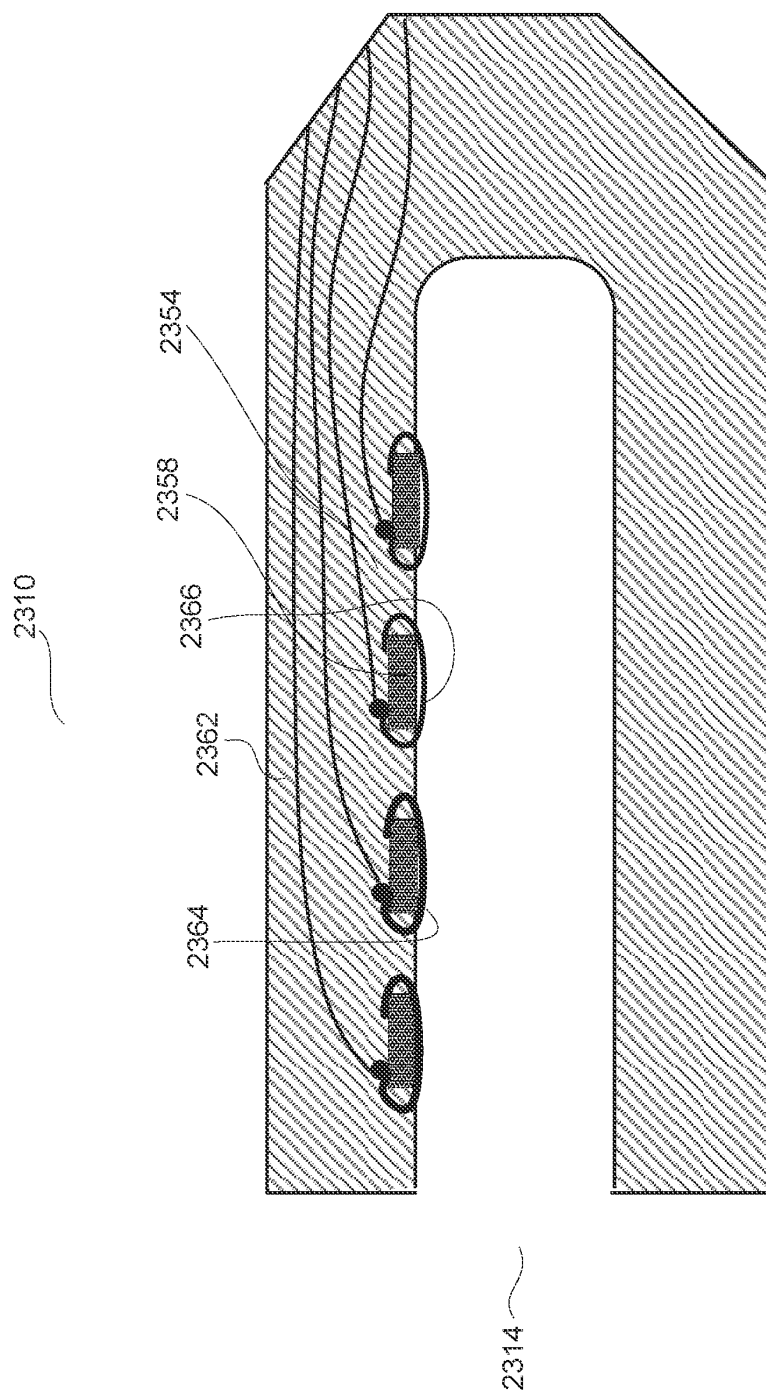


Fig. 26B

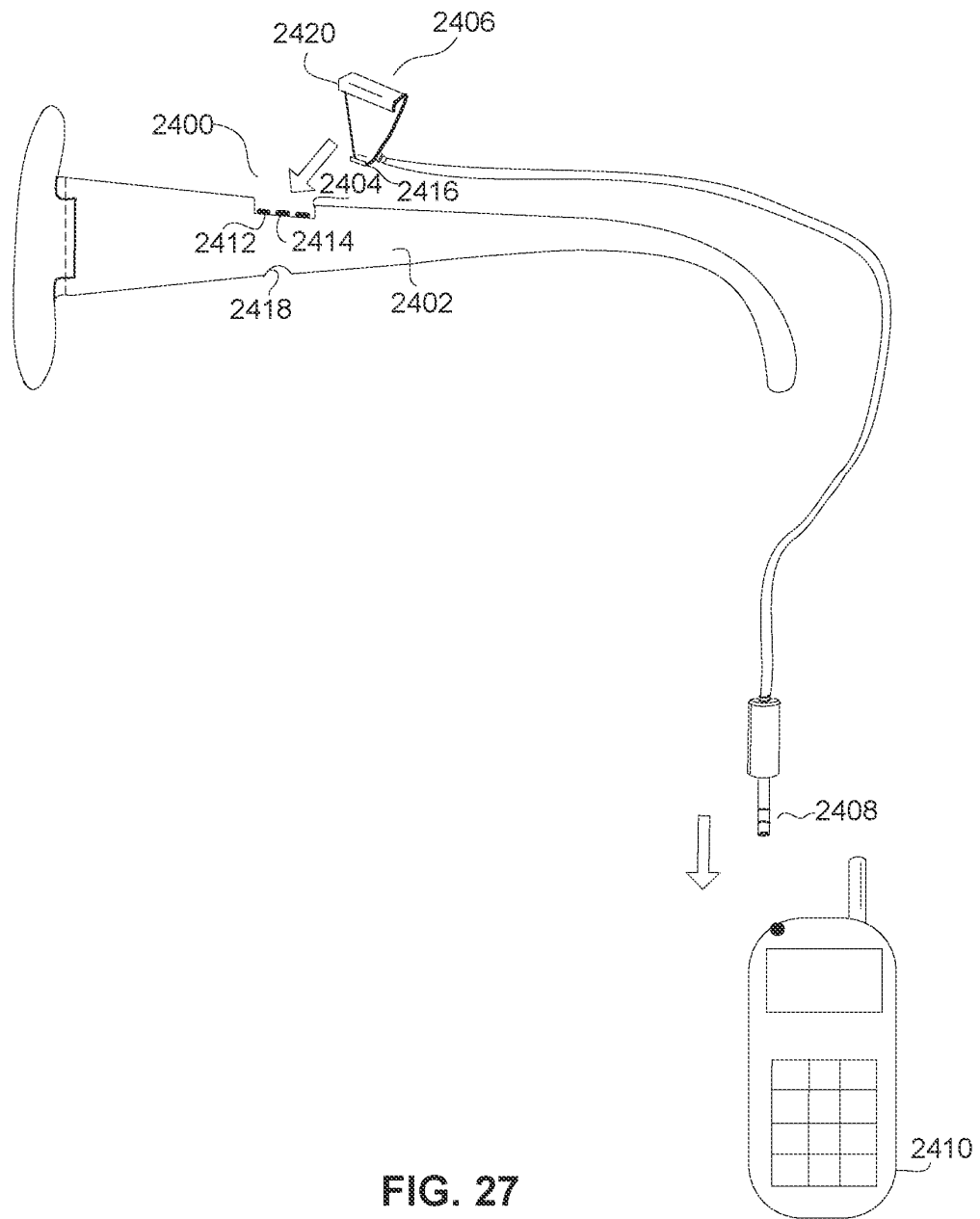


FIG. 27

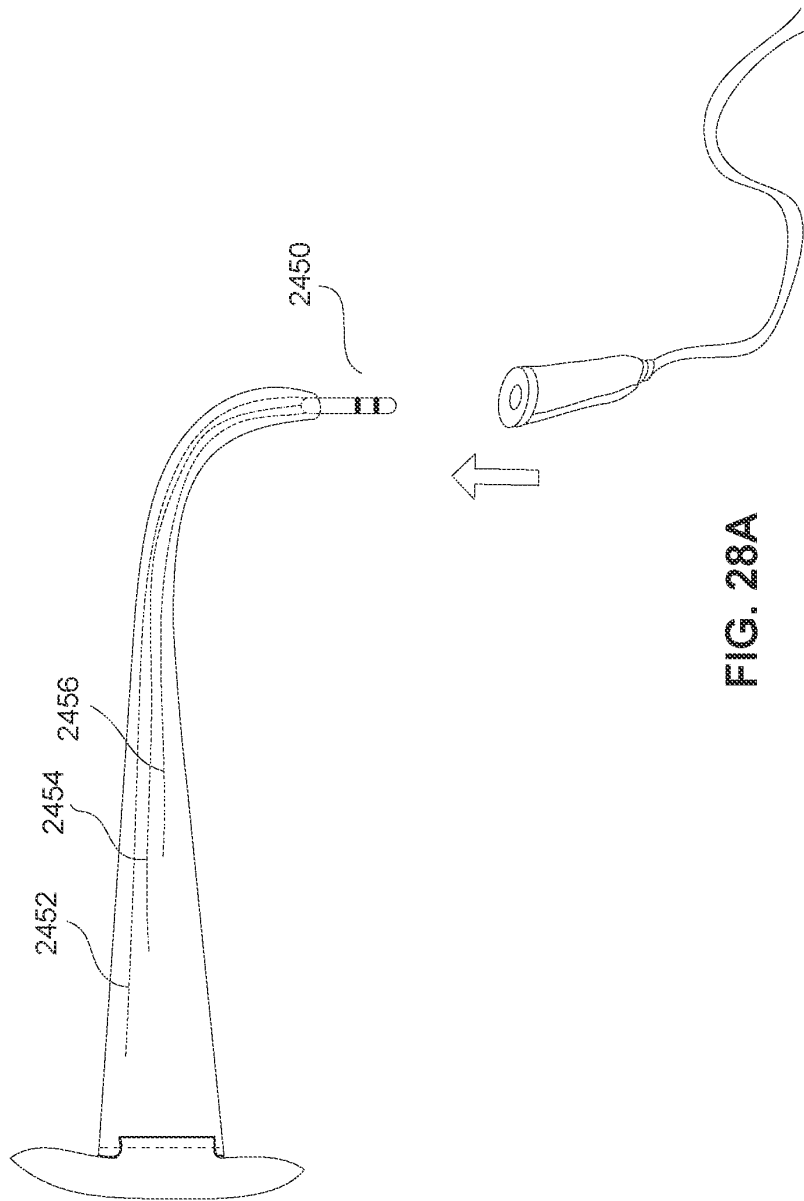


FIG. 28A

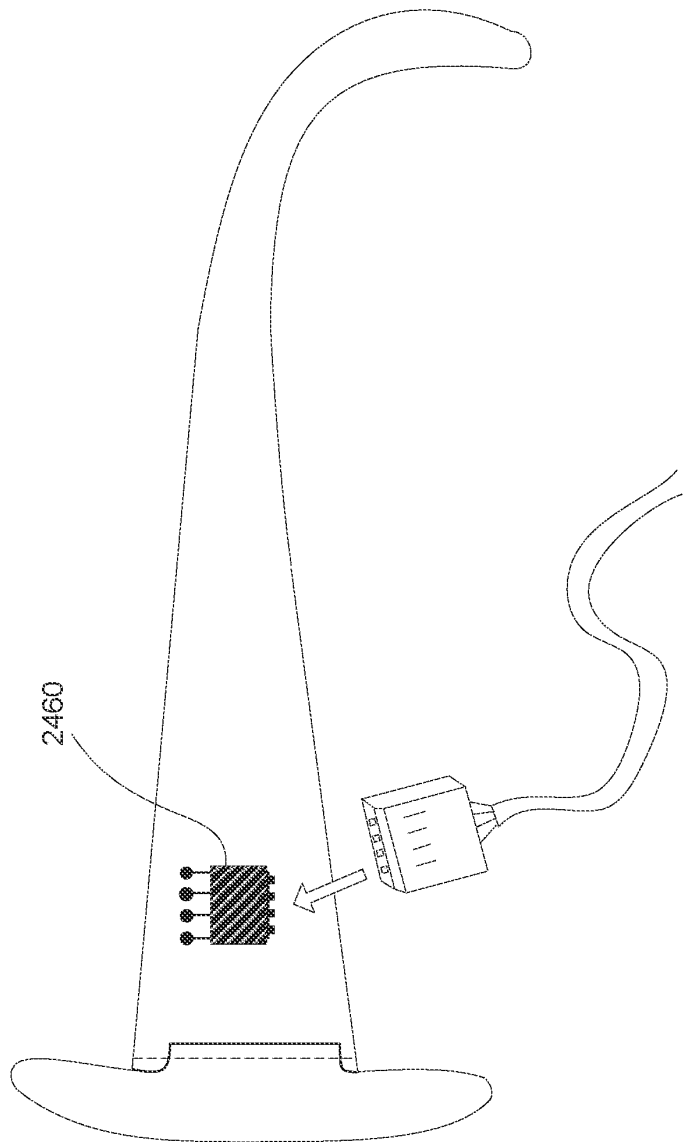


FIG. 28B

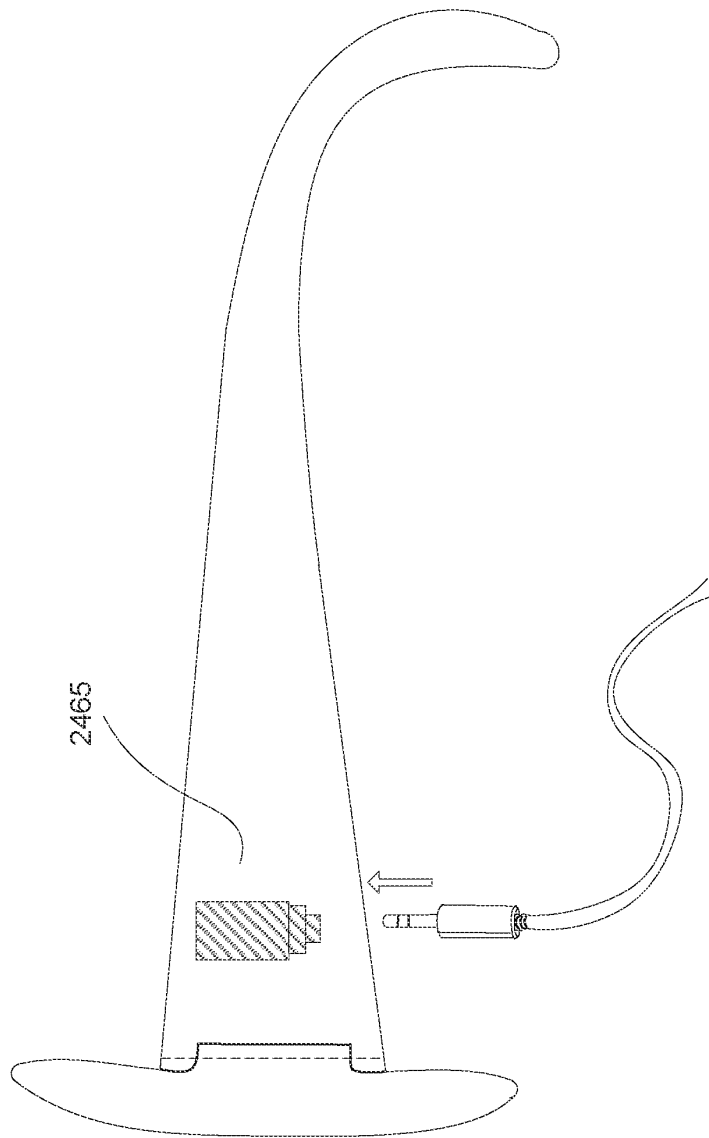


FIG. 28C

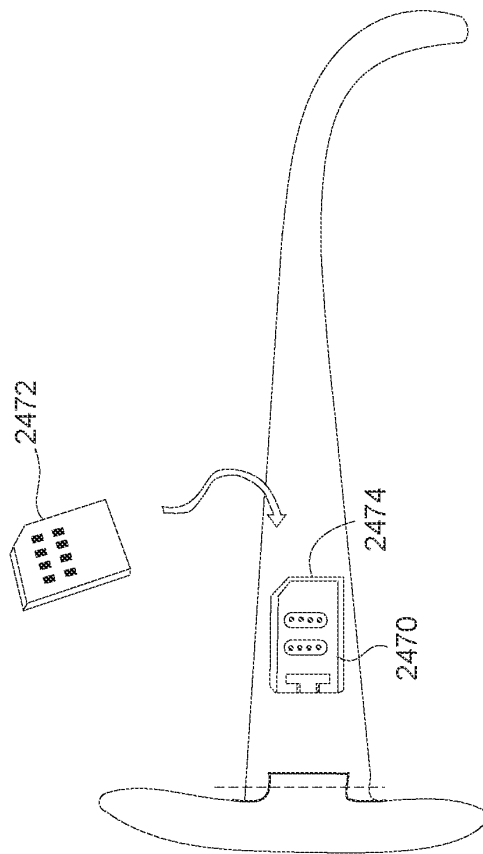


FIG. 28D

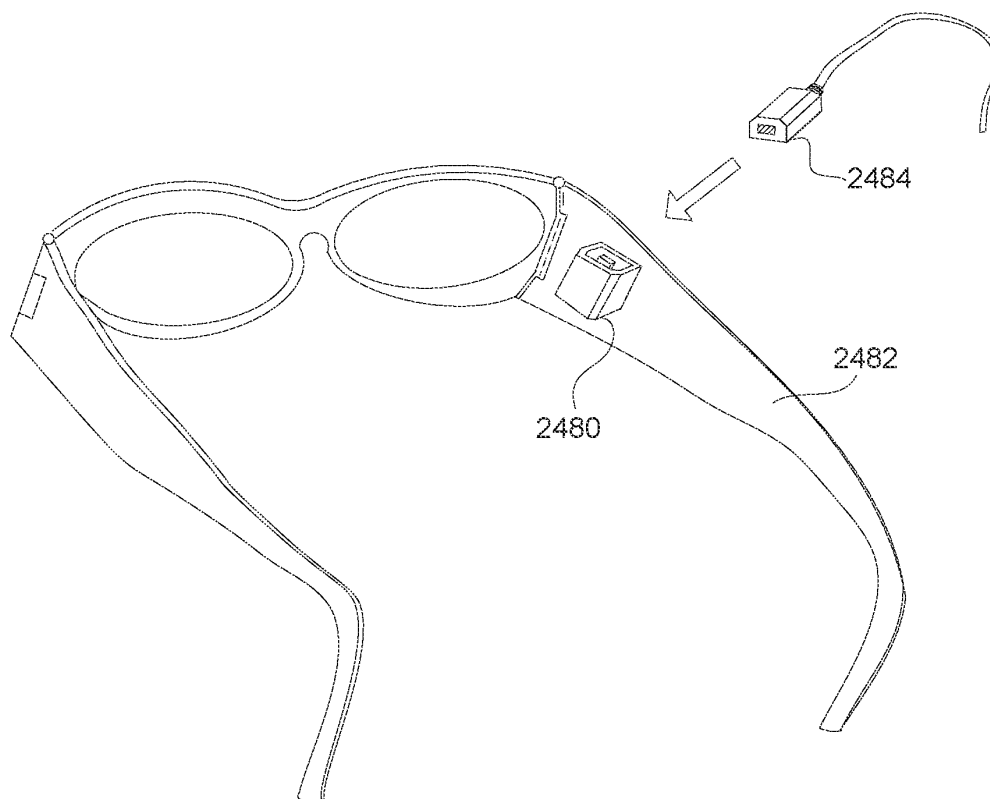
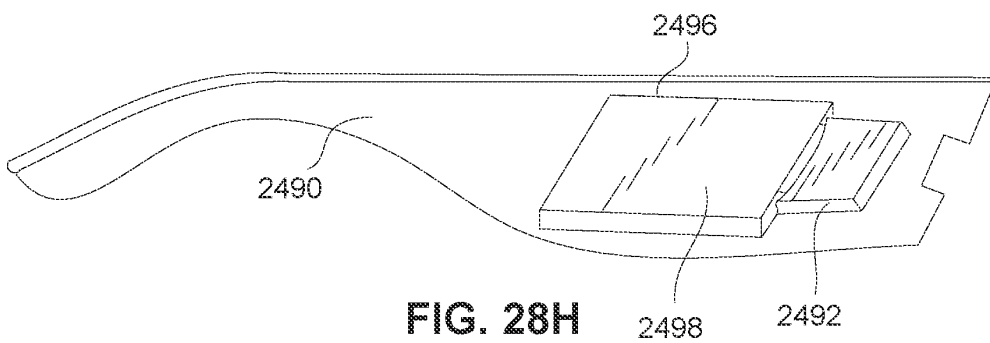
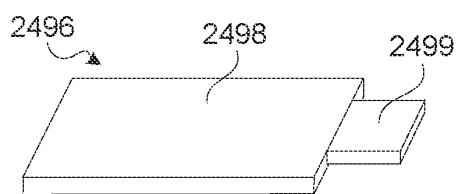
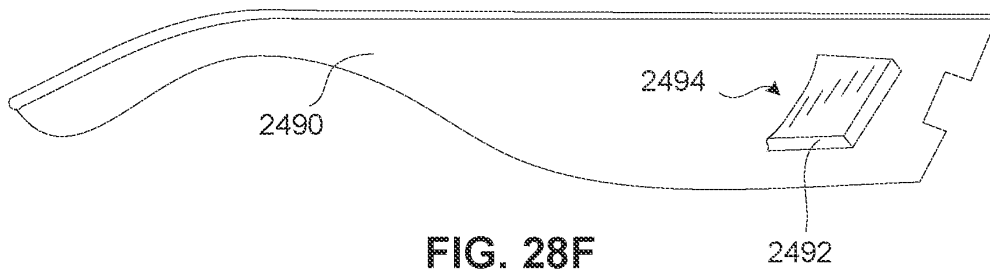


FIG. 28E



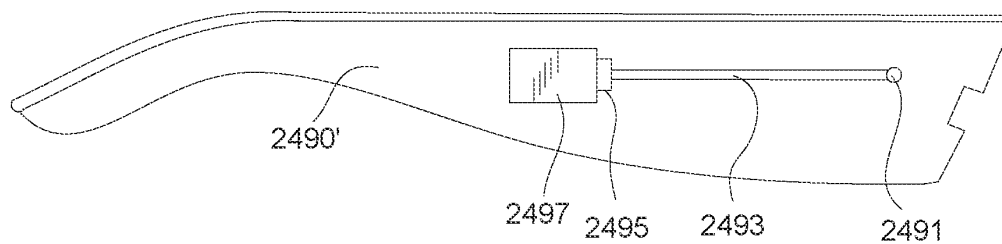


FIG. 28I

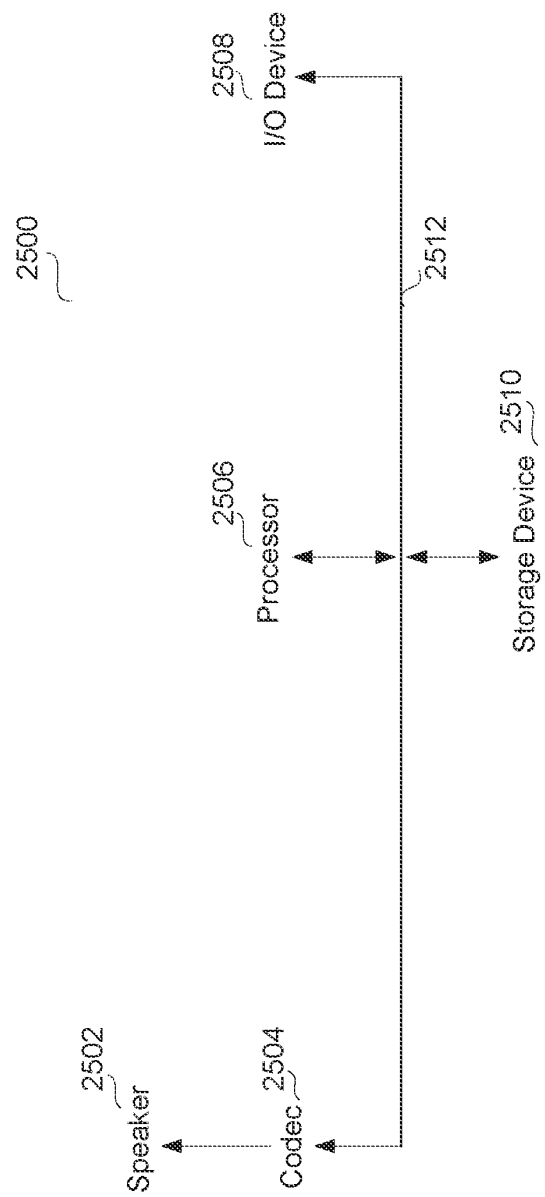


FIG. 29

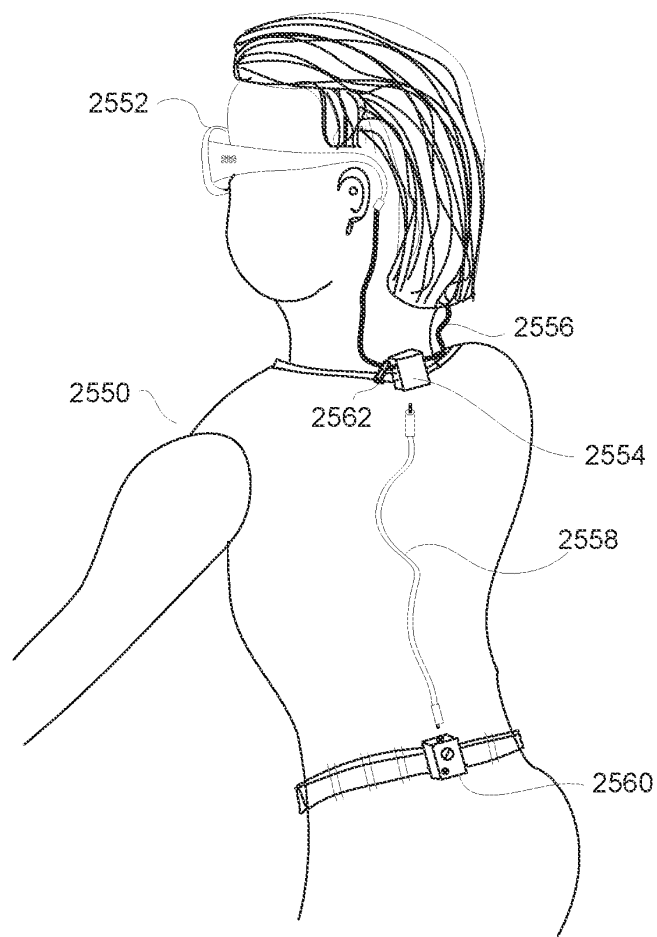


FIG. 30

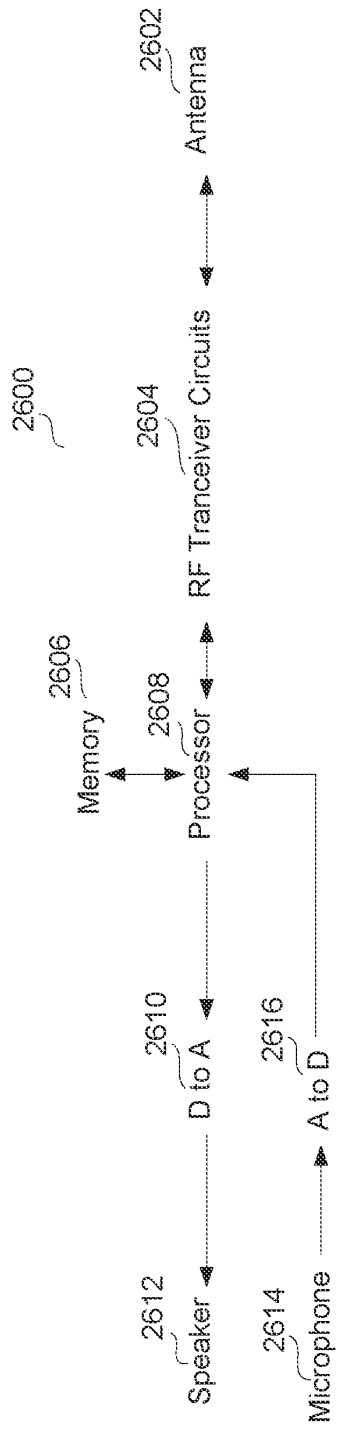


FIG. 31A

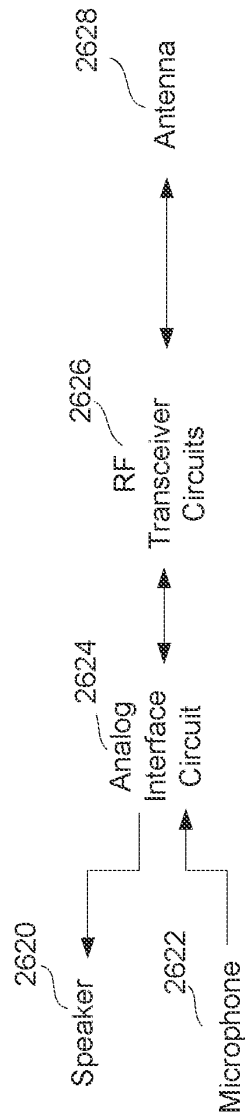


FIG. 31B

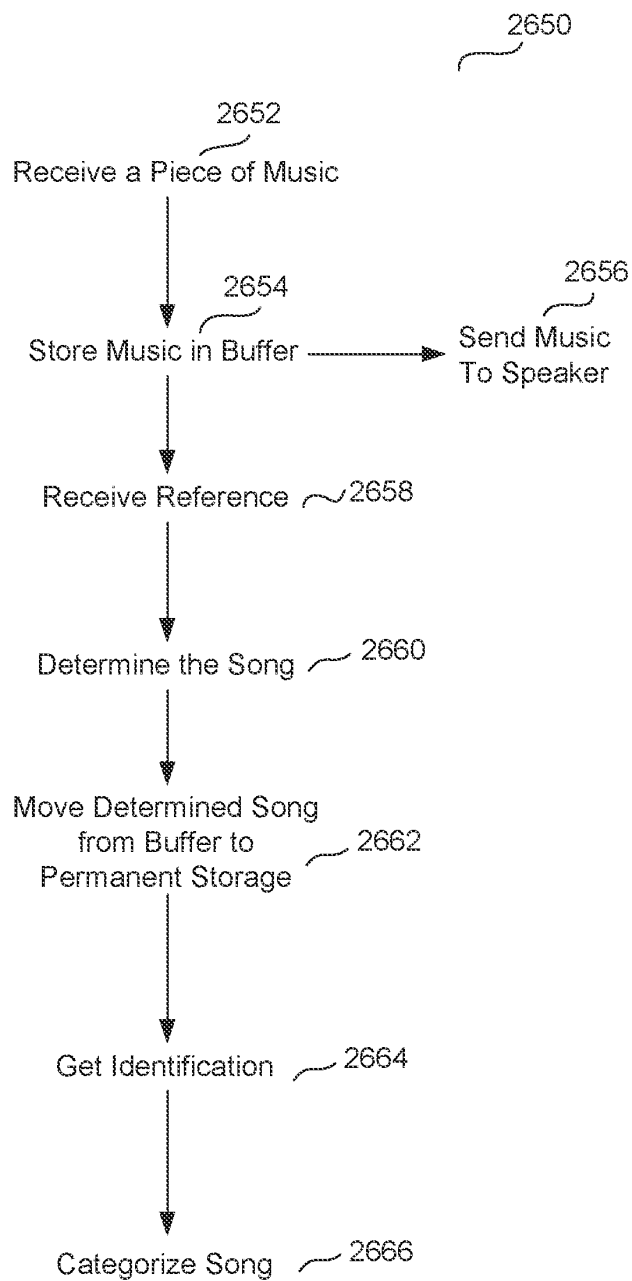


FIG. 32

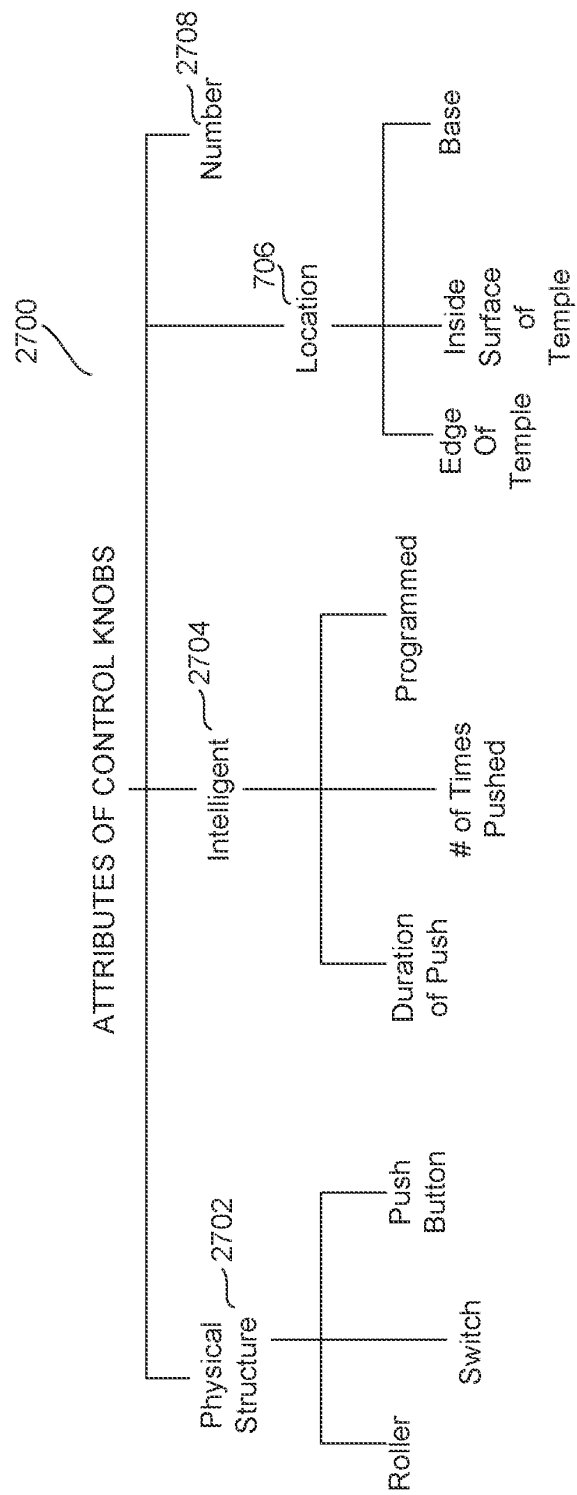


FIG. 33

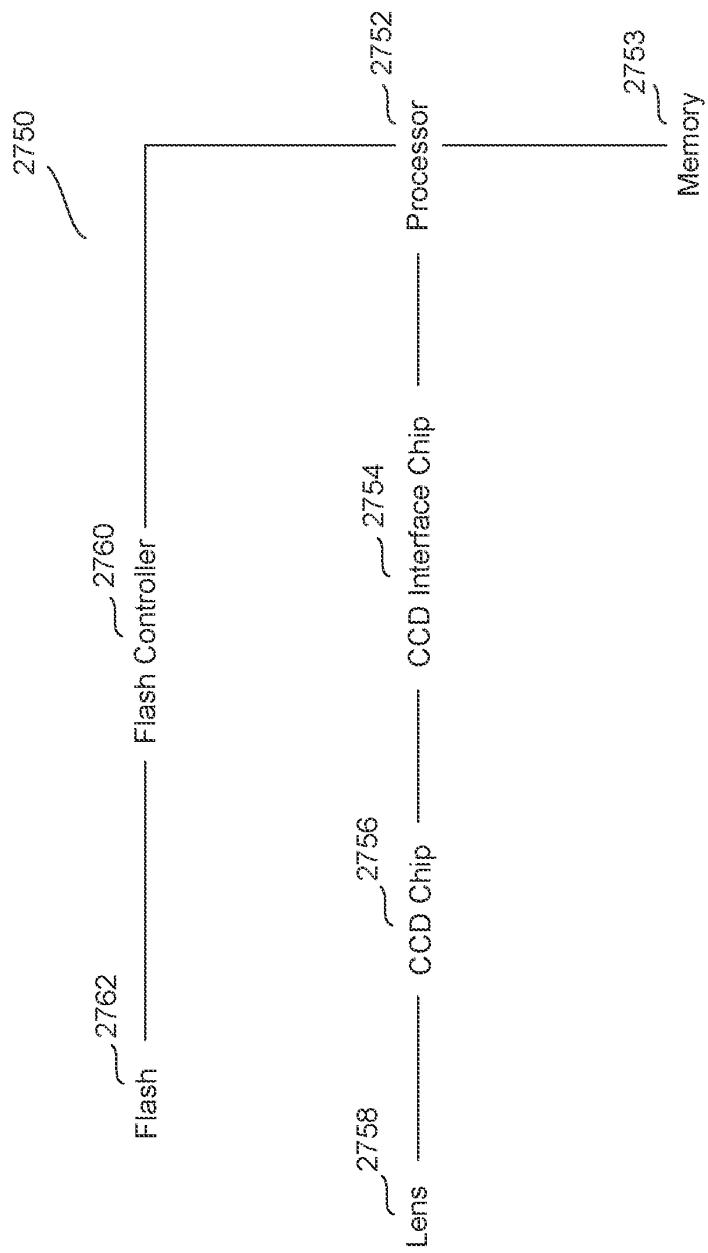


FIG. 34

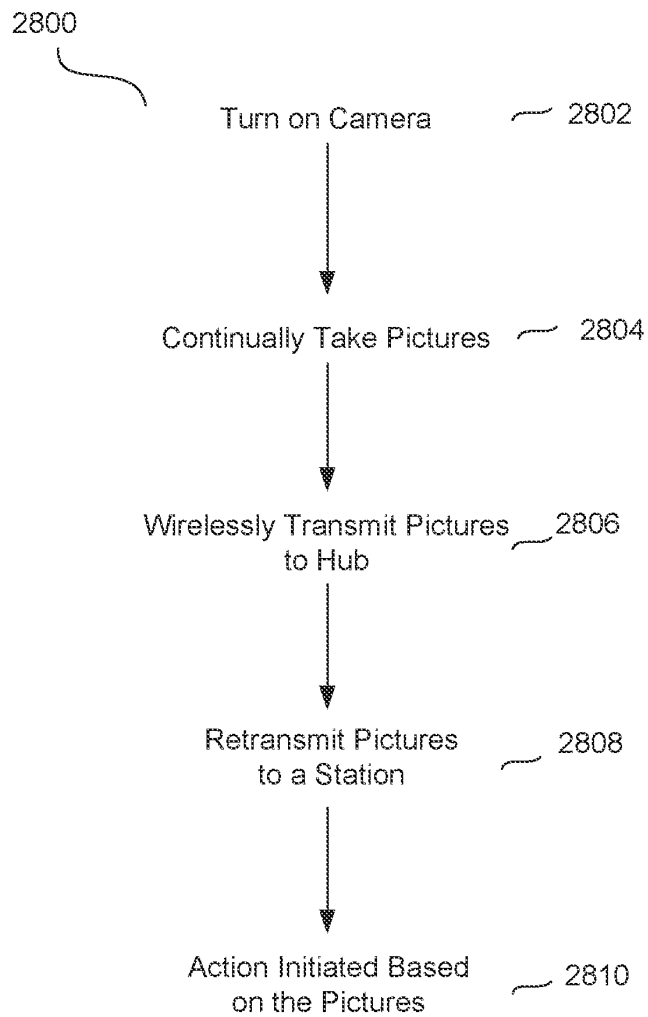


FIG. 35

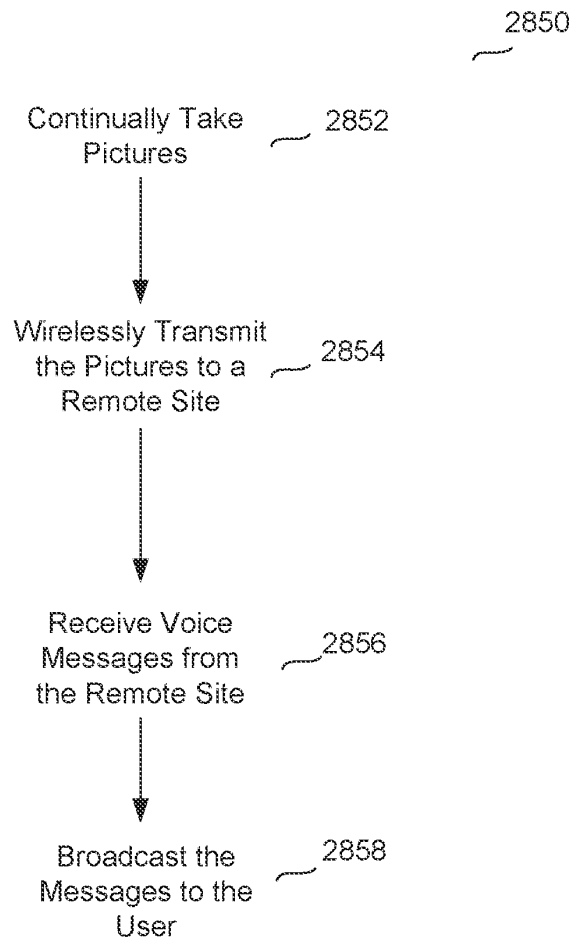


FIG. 36

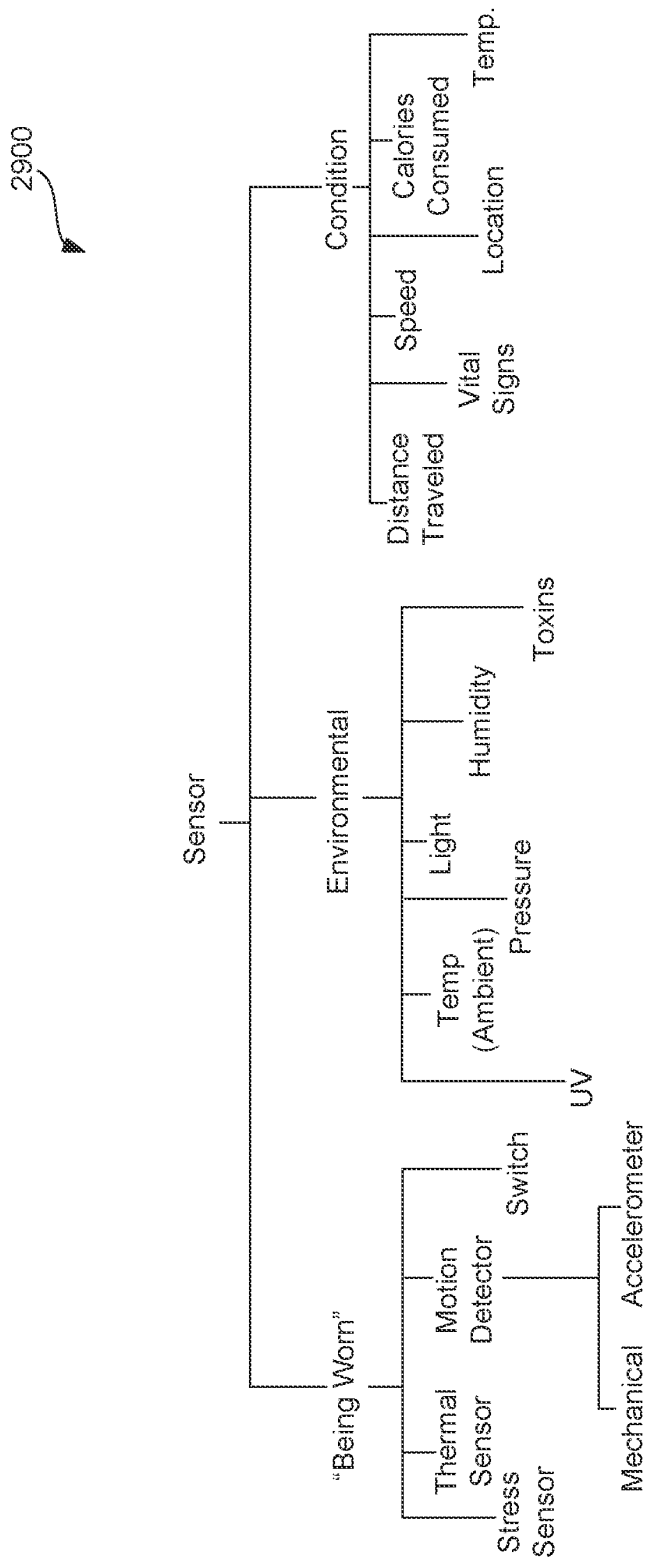


FIG. 37A

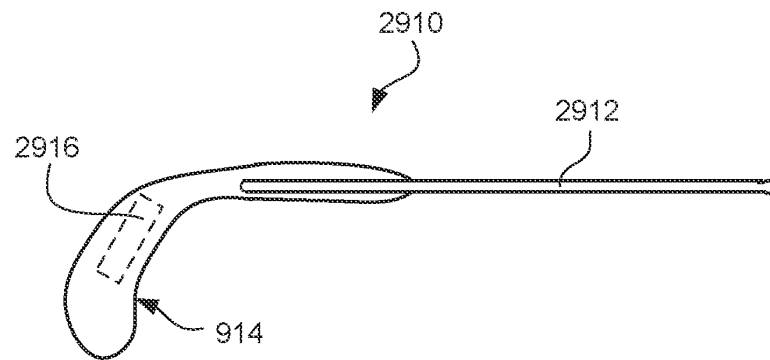


FIG. 37B

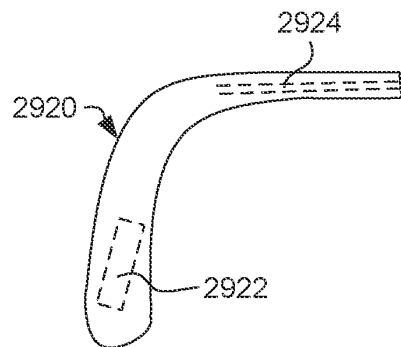


FIG. 37C

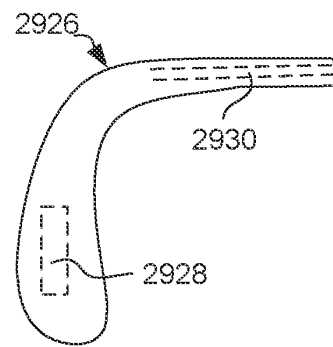


FIG. 37D

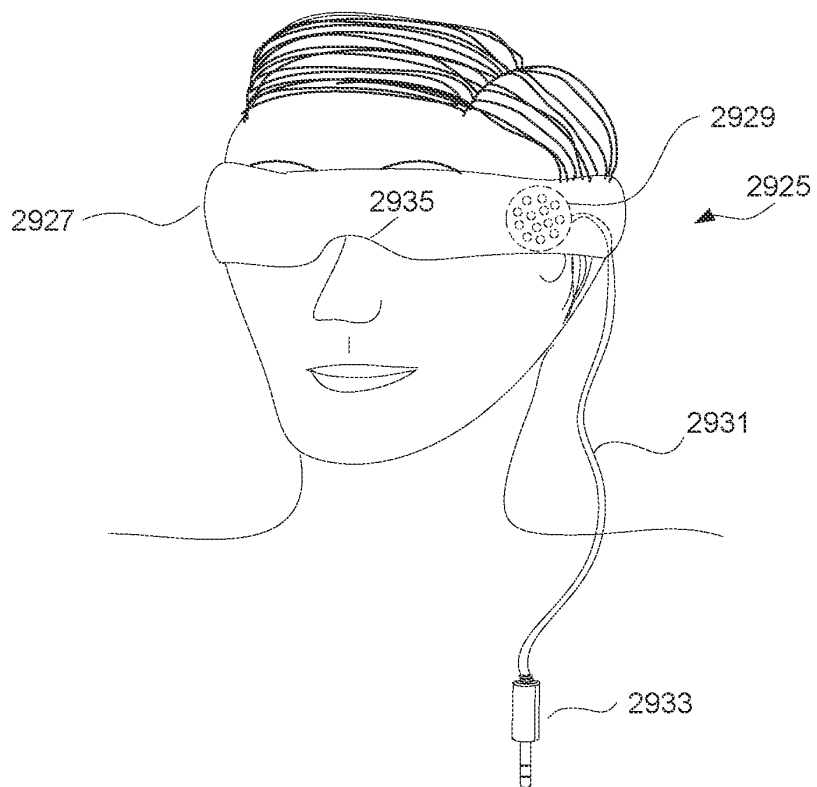


FIG. 38

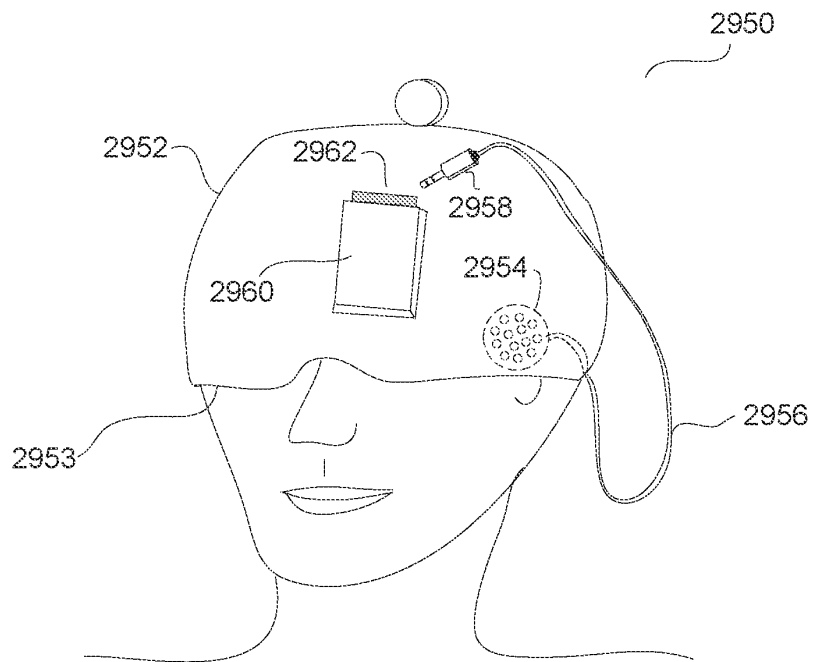


FIG. 39

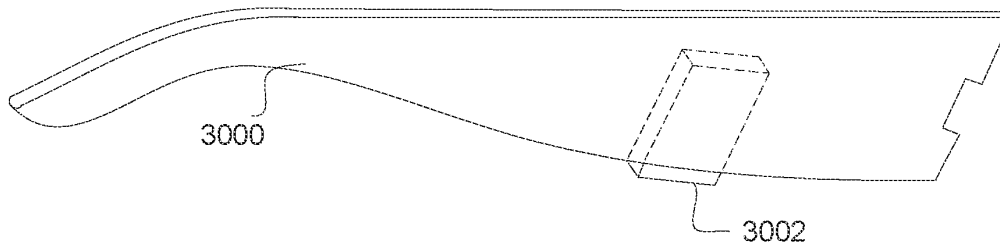


FIG. 40A

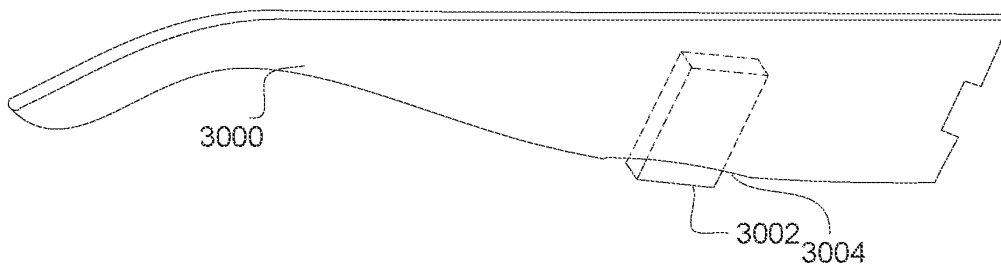


FIG. 40B

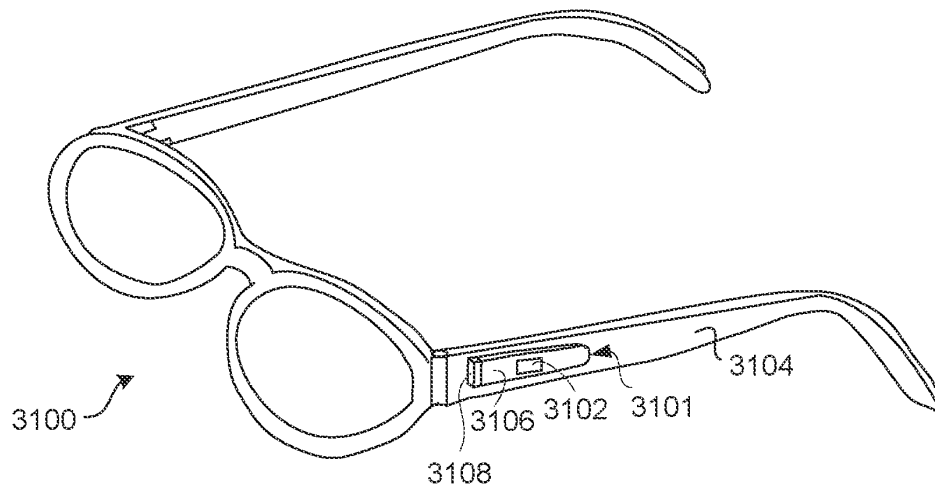


FIG. 41A

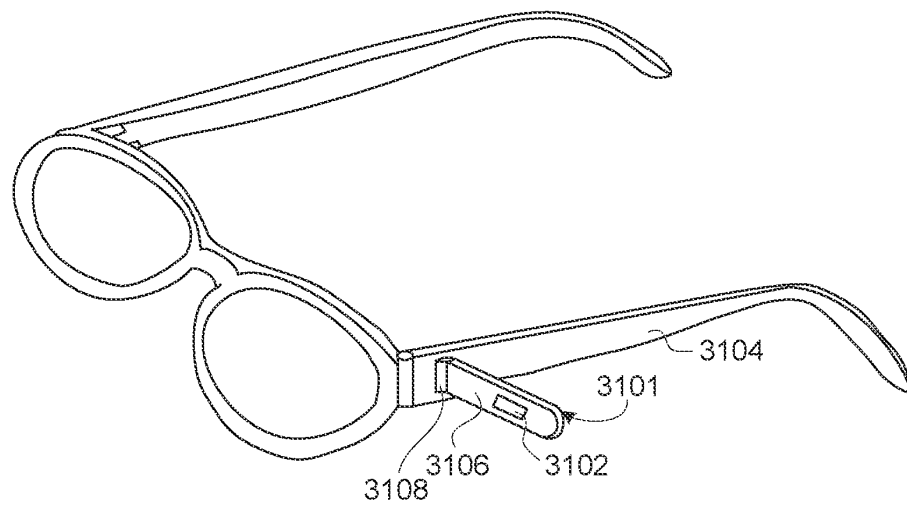


FIG. 41B

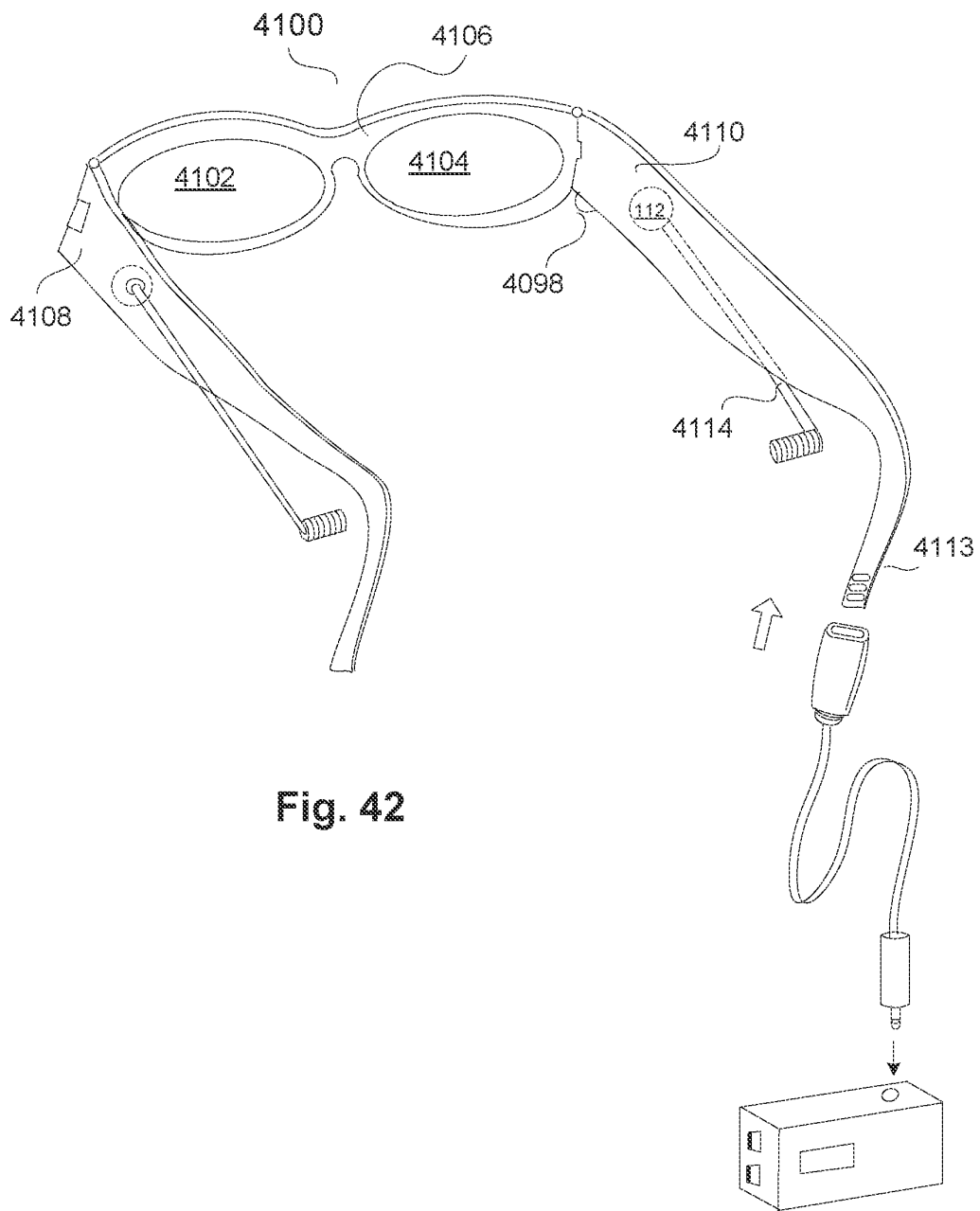


Fig. 42

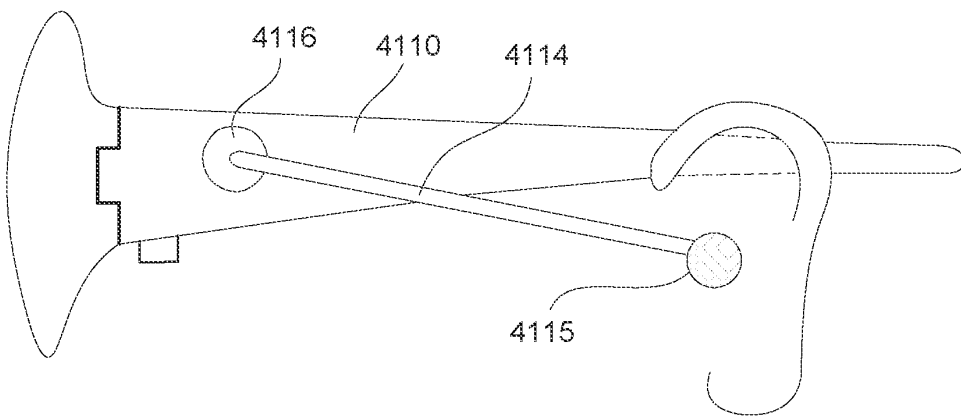


Fig. 43

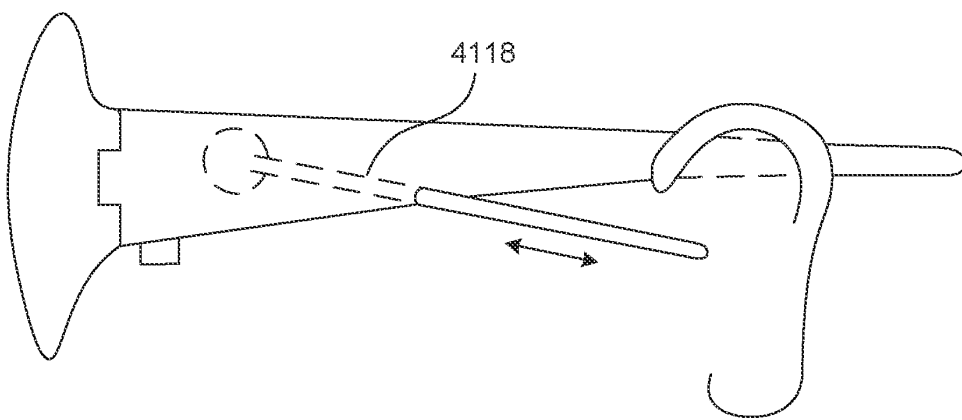


Fig. 44

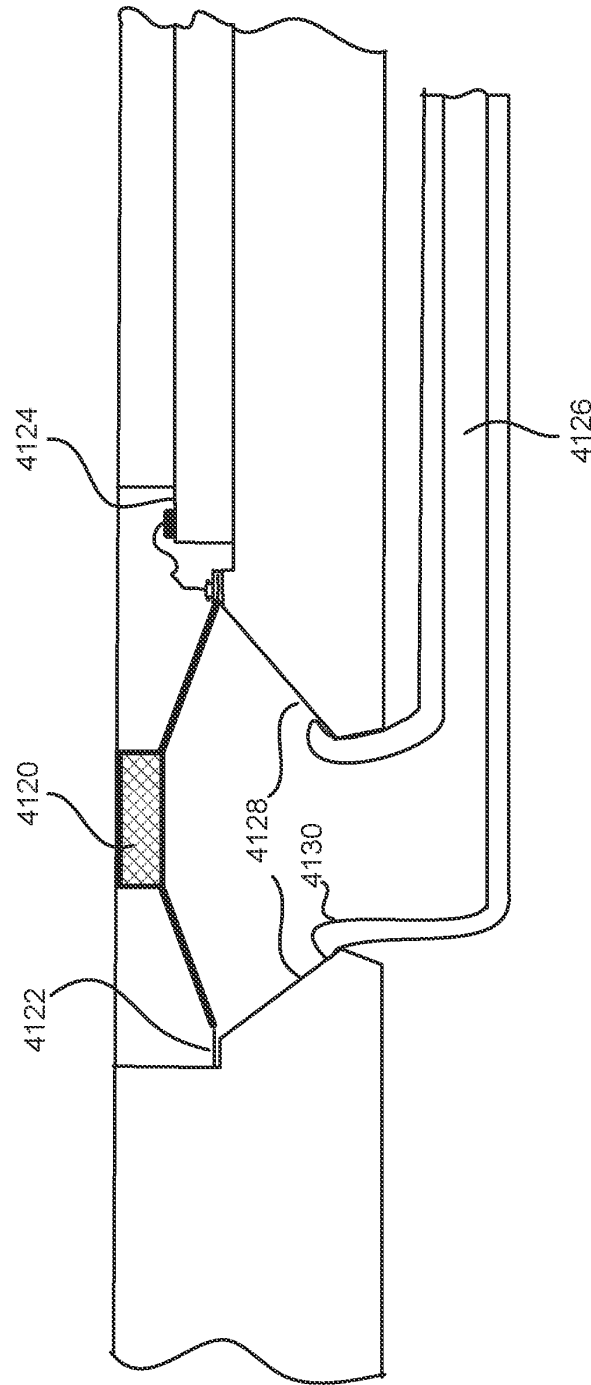


Fig. 45

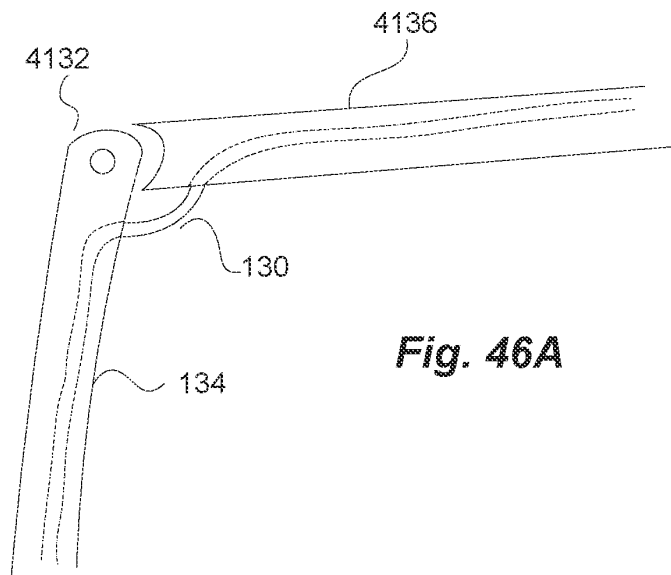


Fig. 46A

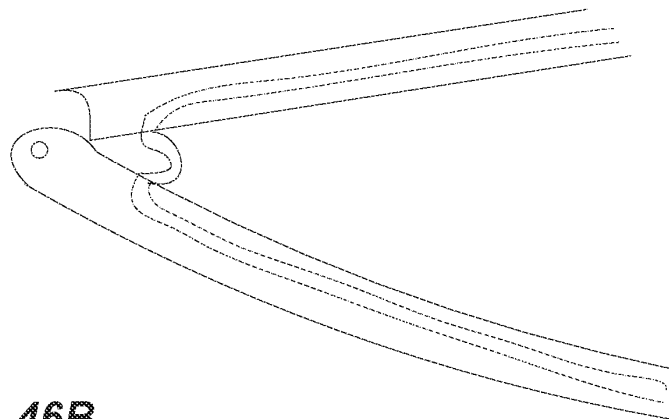


Fig. 46B

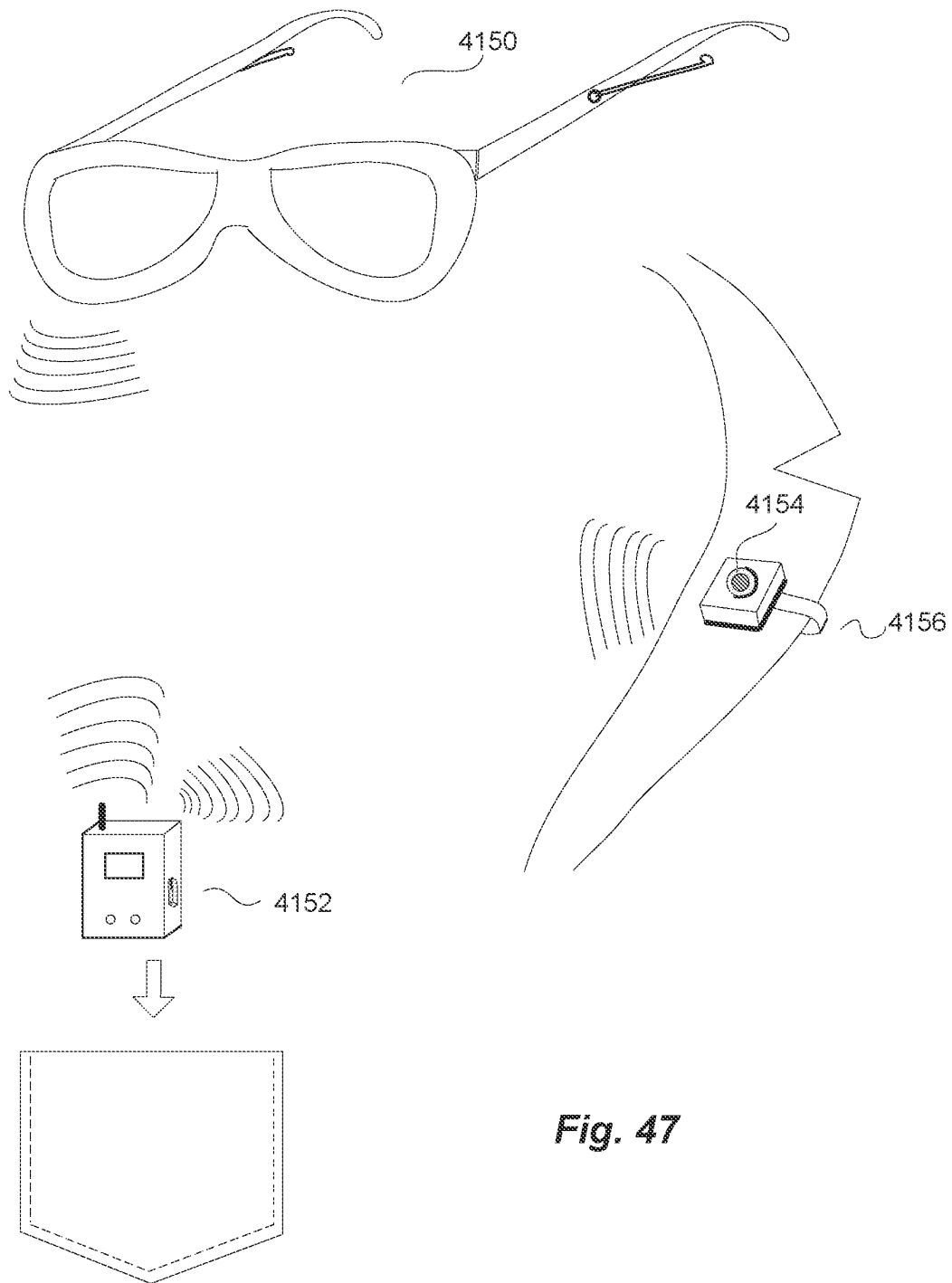
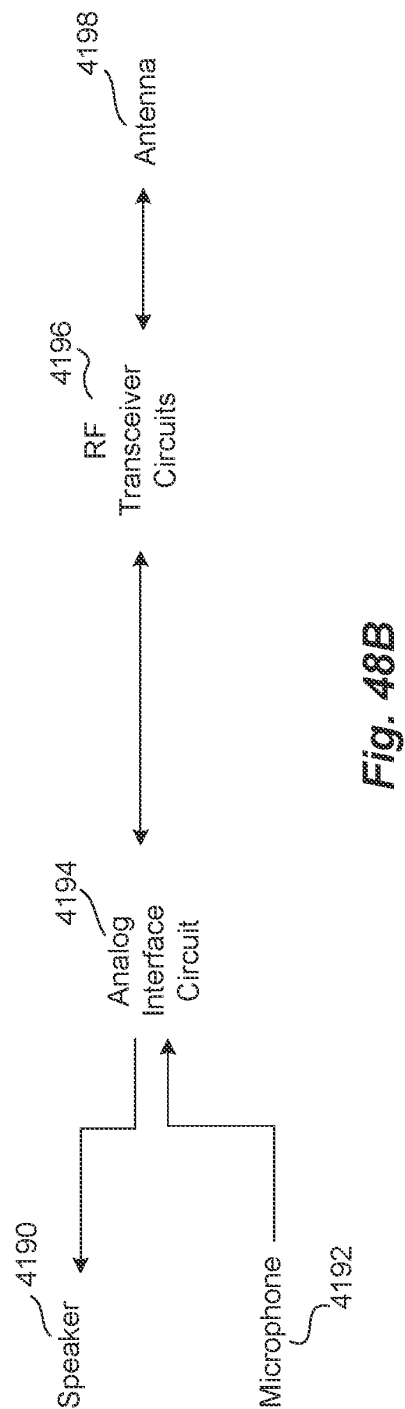
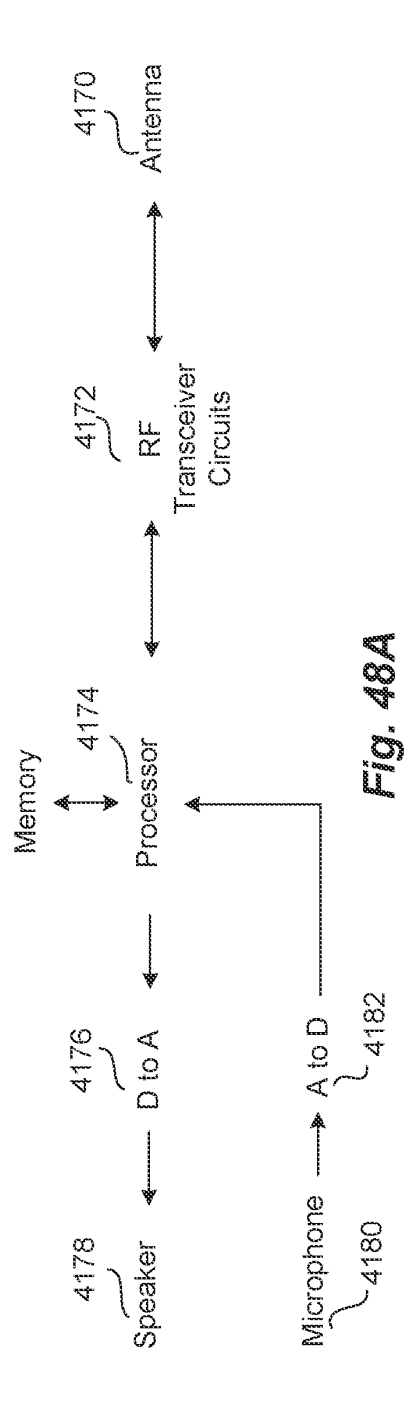


Fig. 47



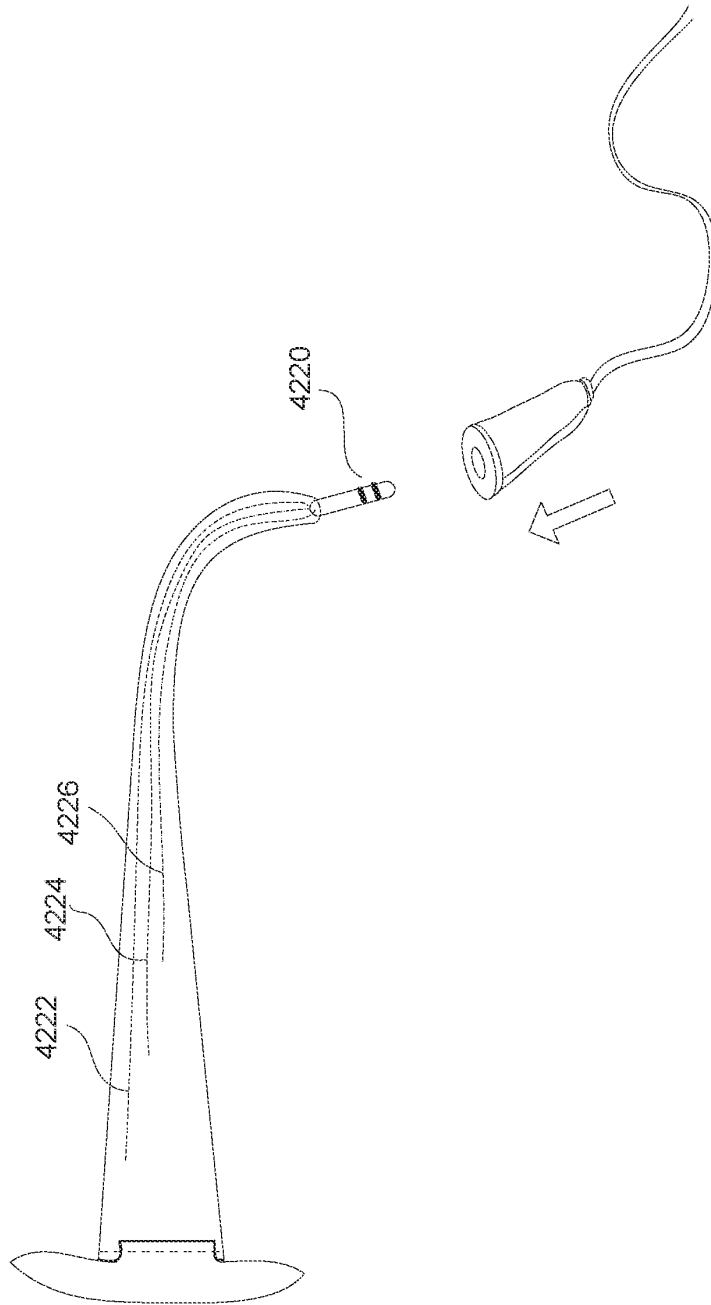


Fig. 49

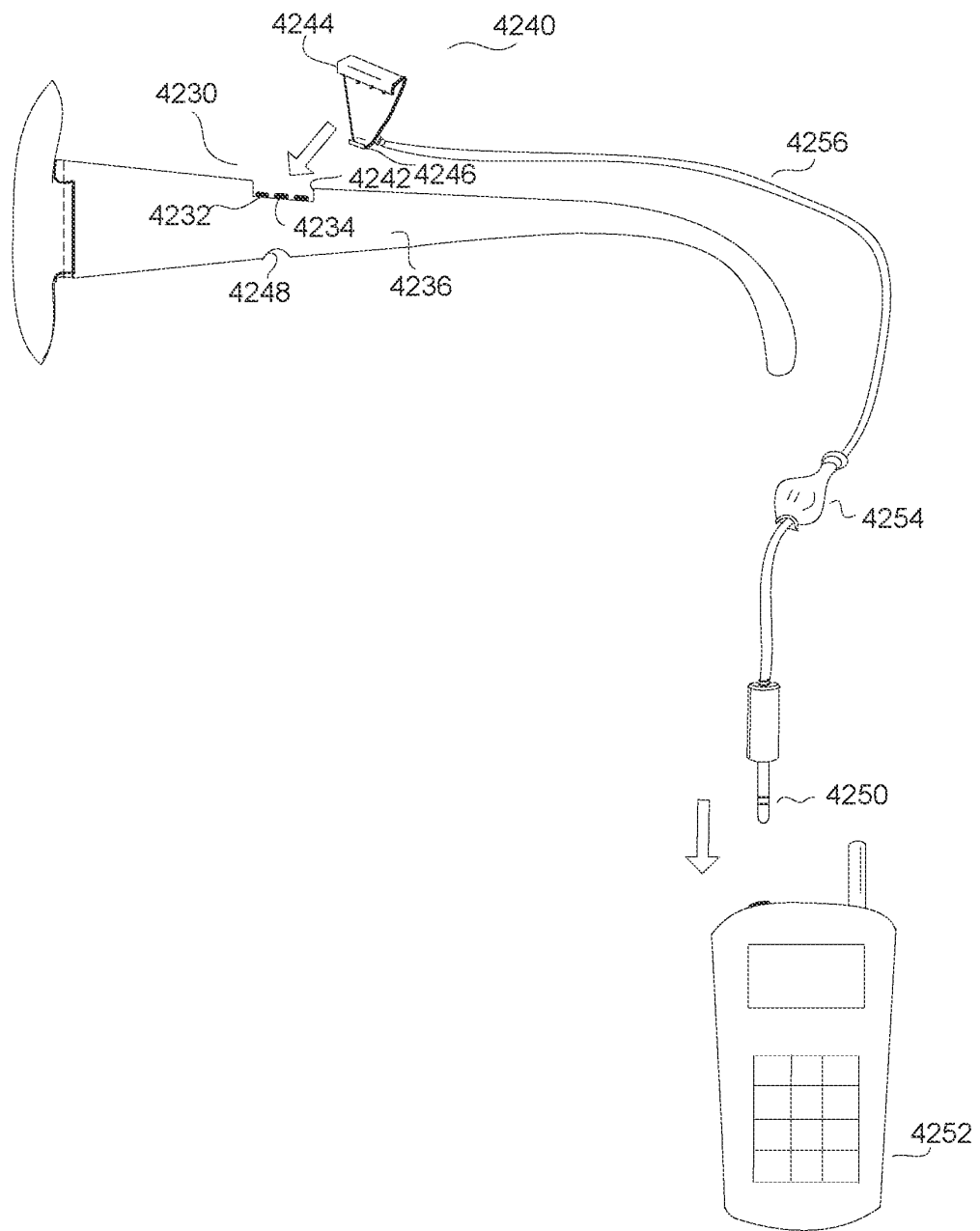


Fig. 50

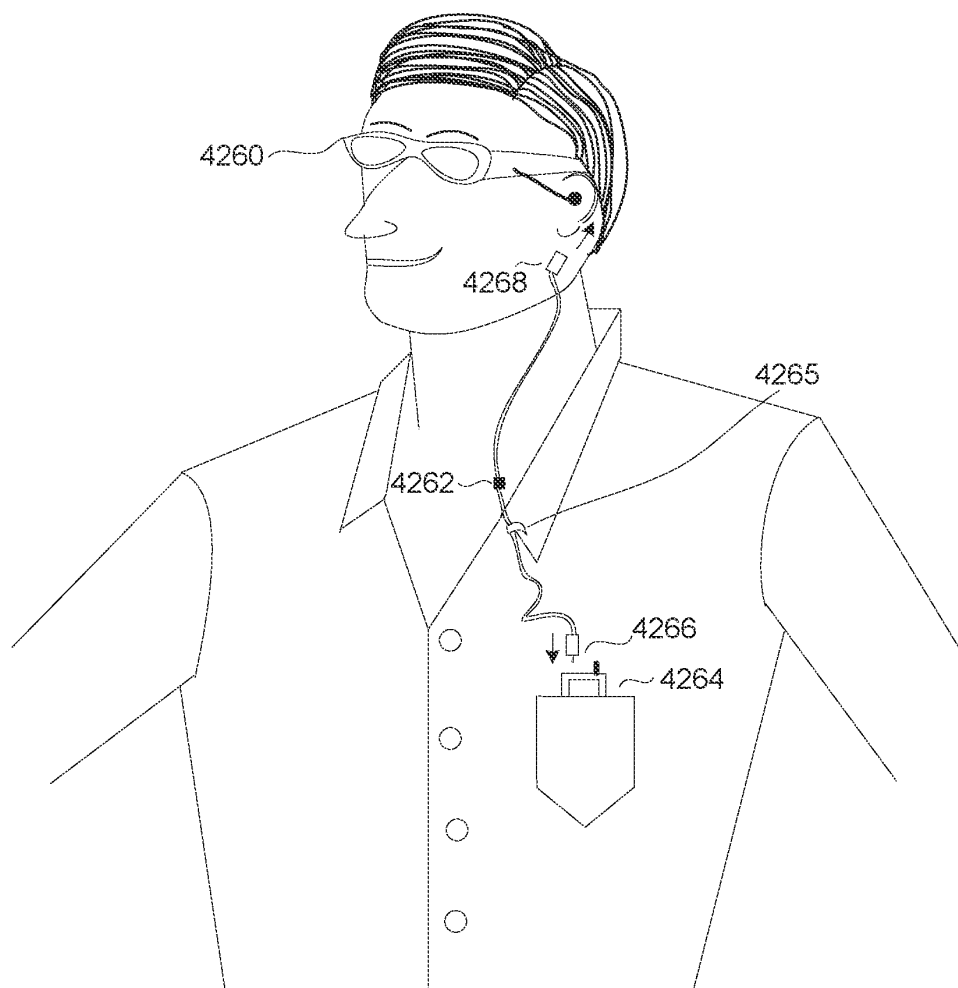


Fig. 51

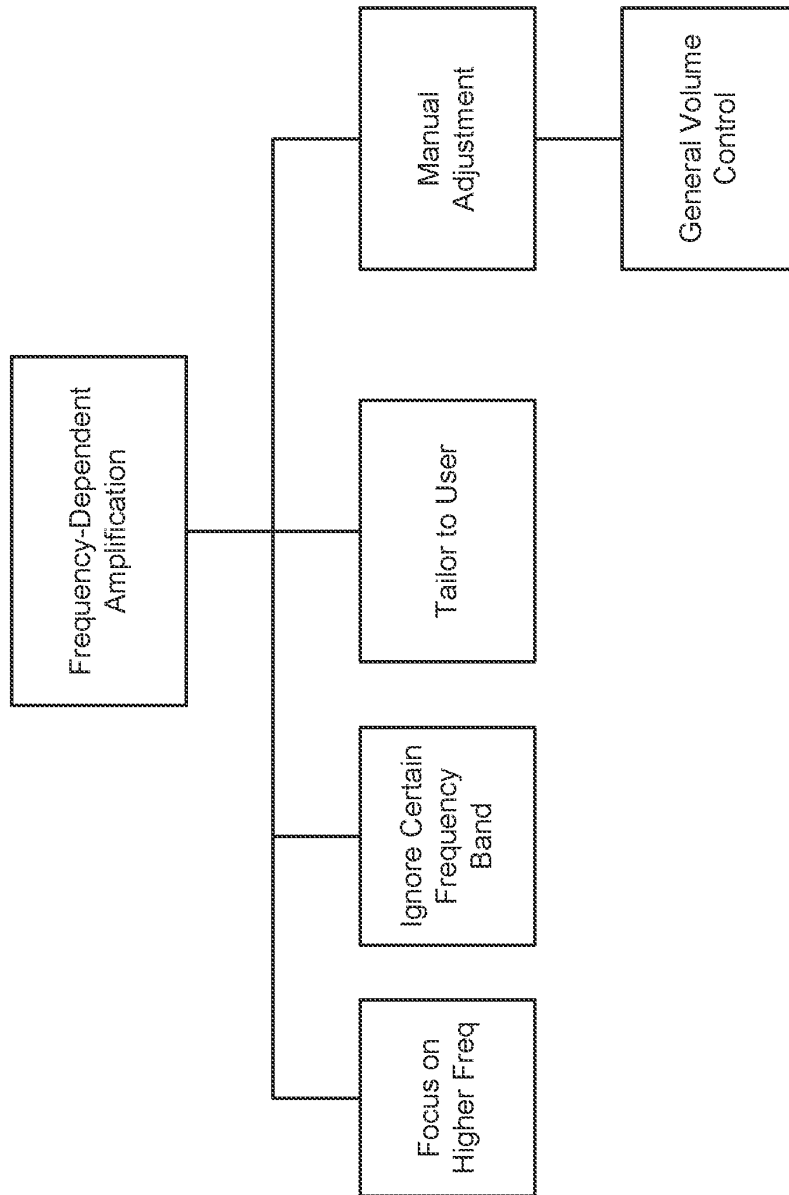


FIG. 52

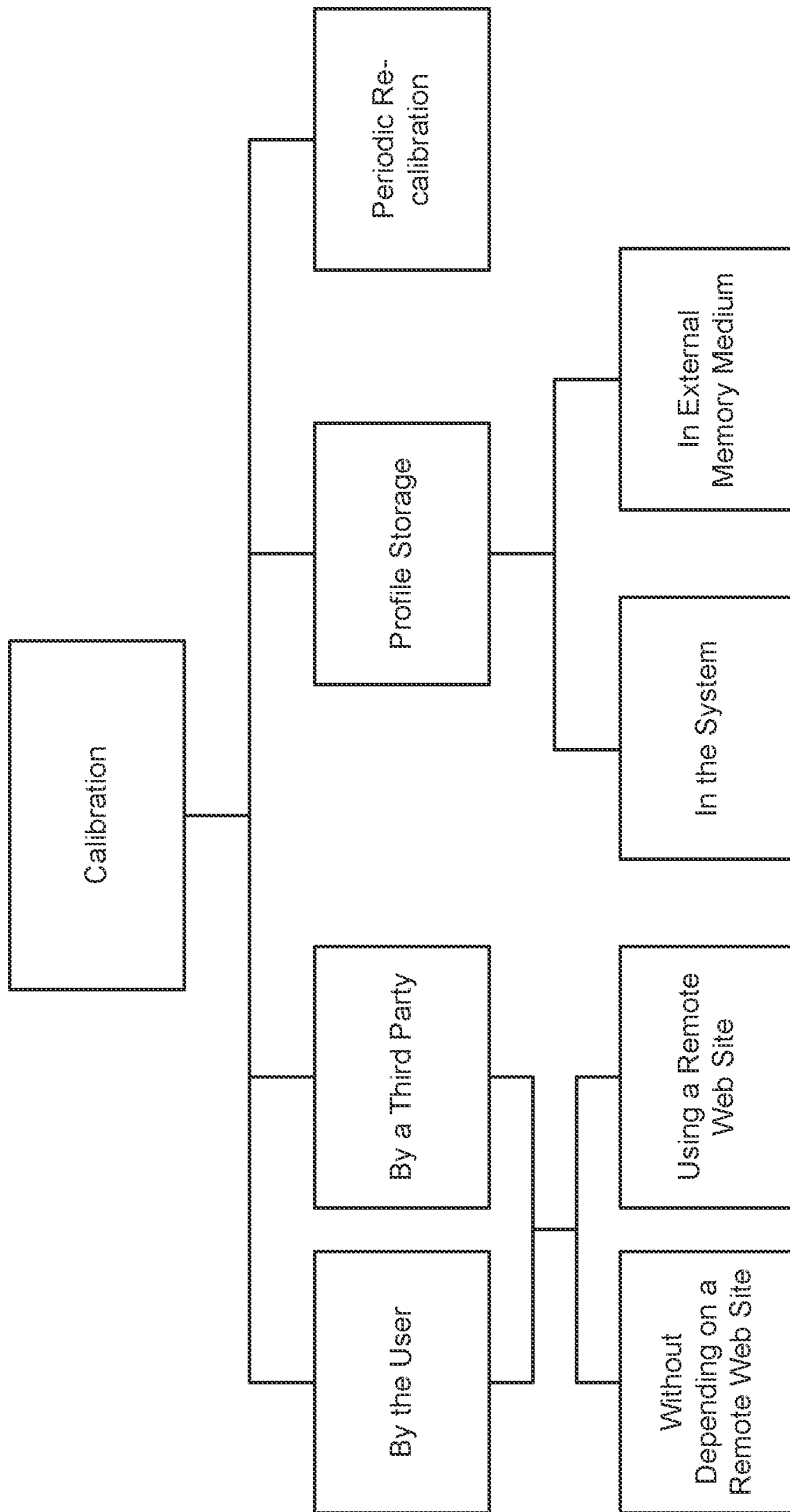


FIG. 53

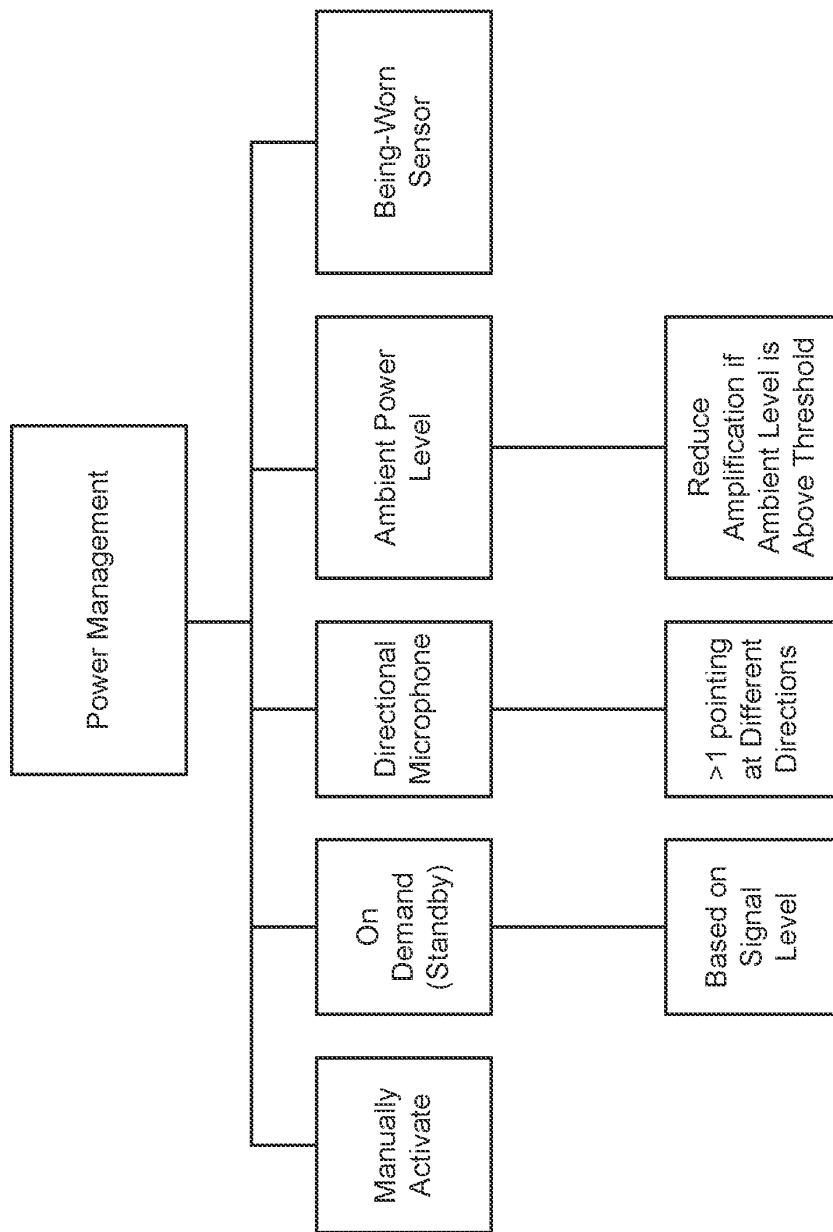


FIG. 54

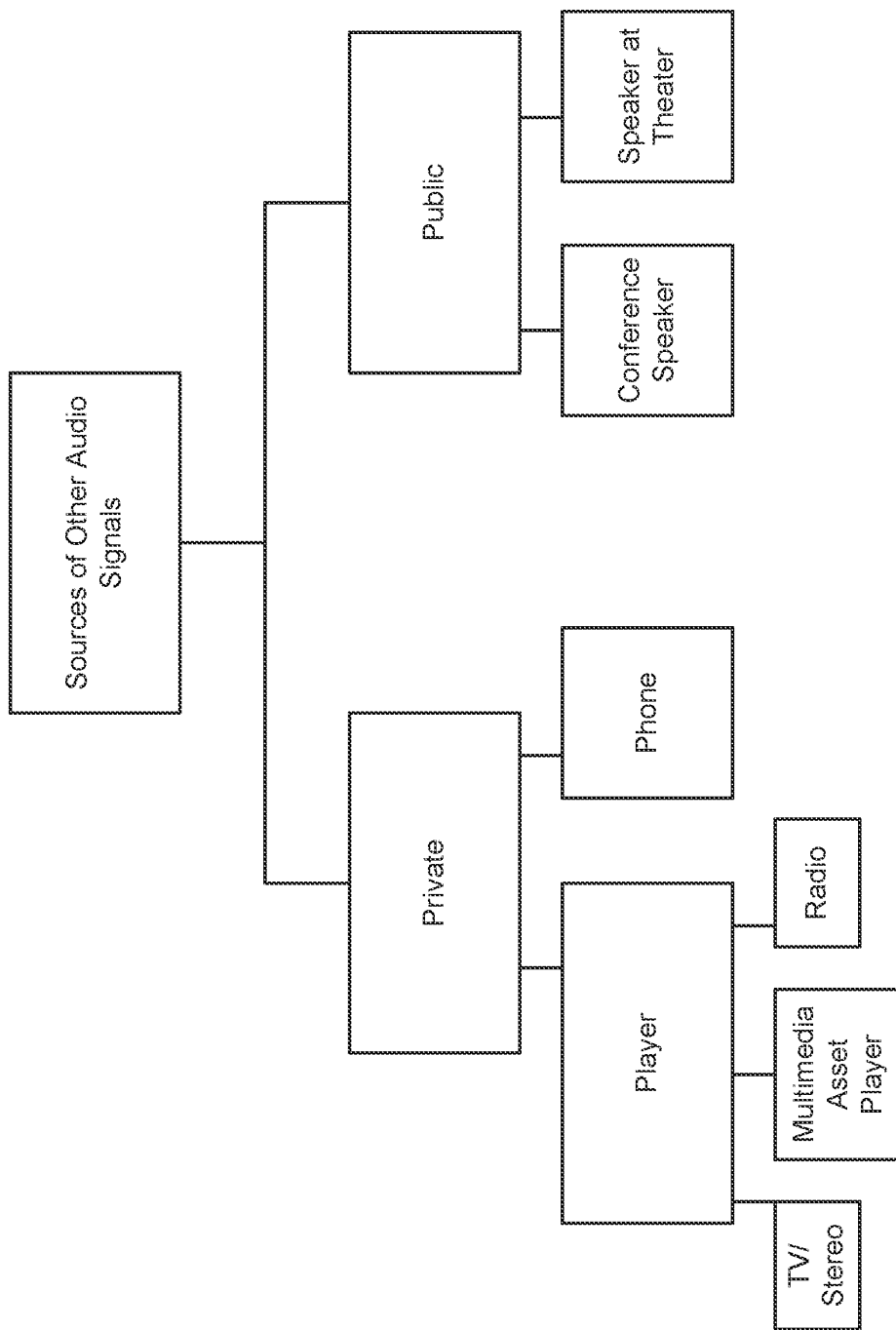


FIG. 55

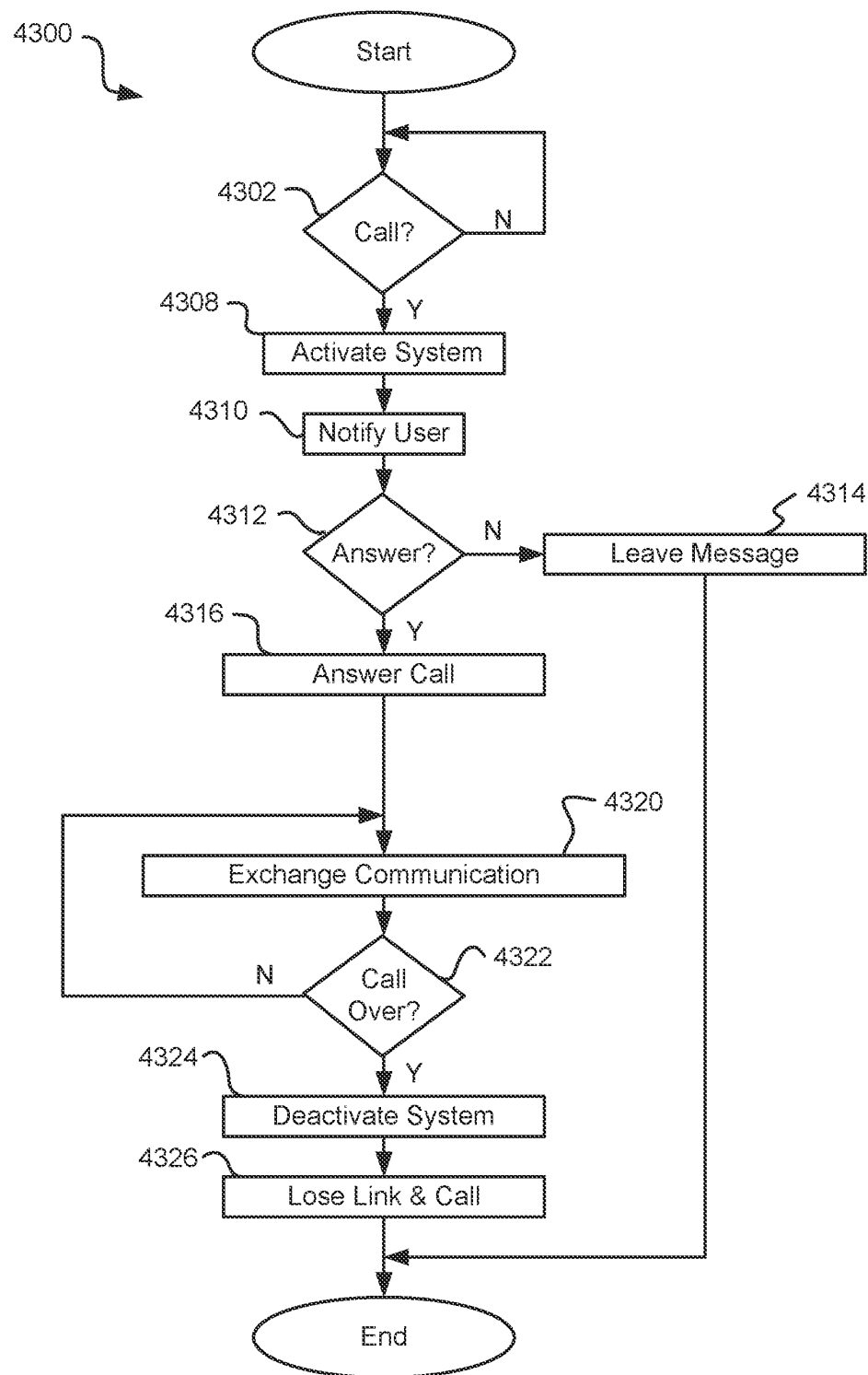


FIG. 56

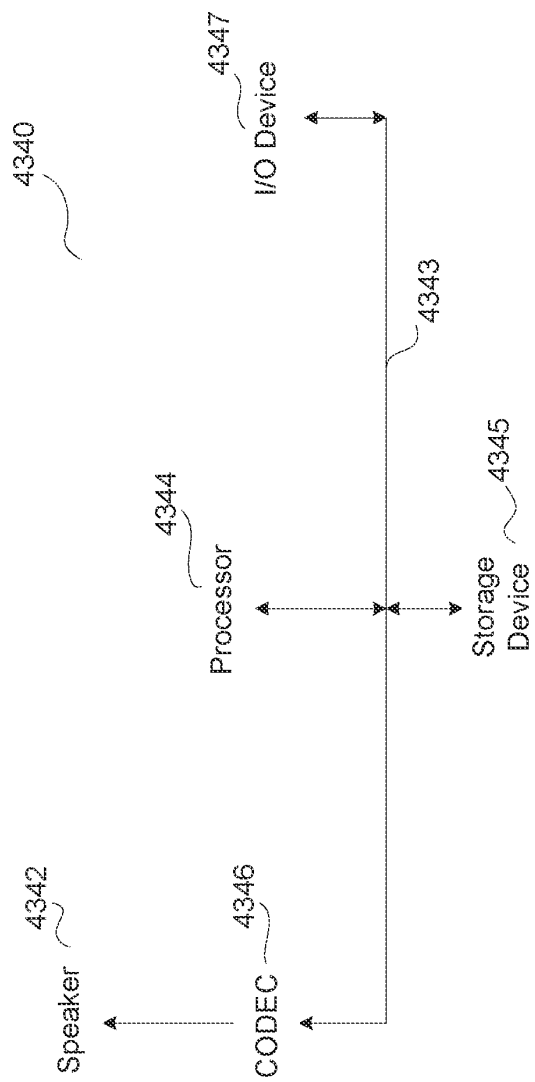


Fig. 57

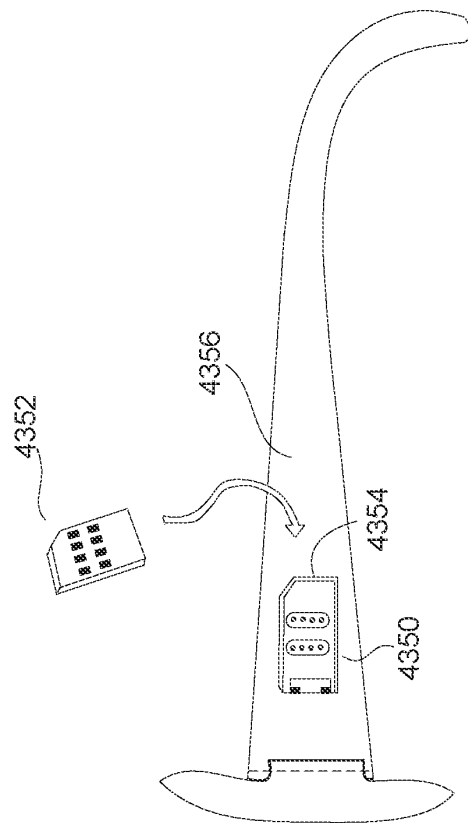


Fig. 58

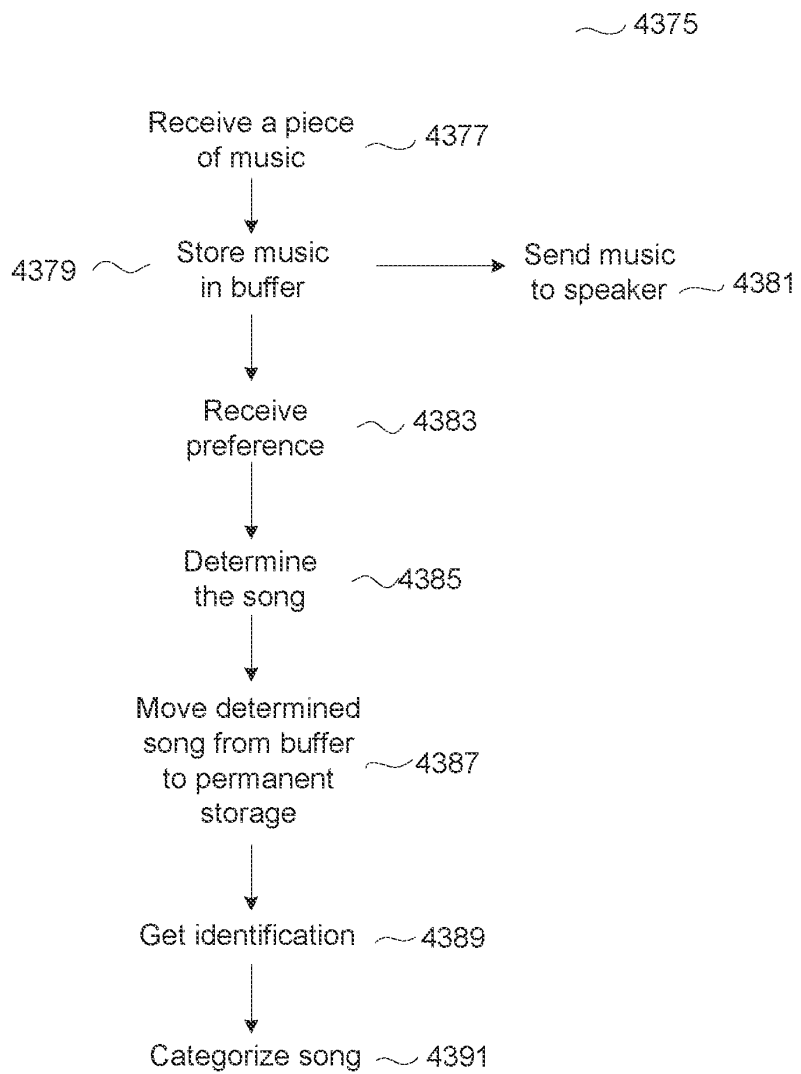


Fig. 59

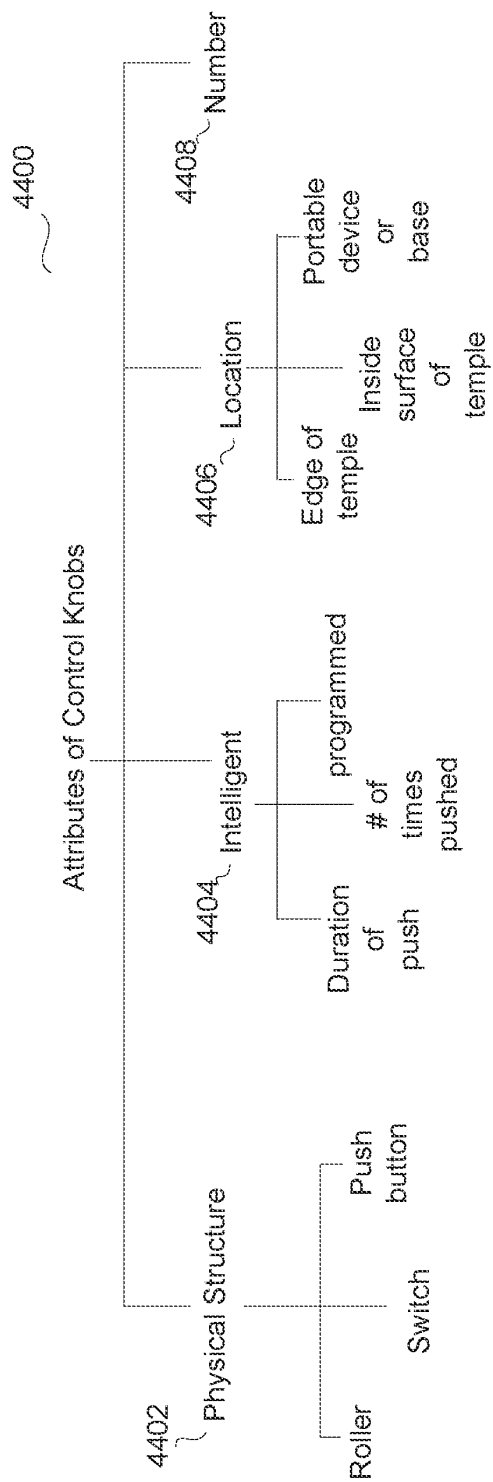


Fig. 60

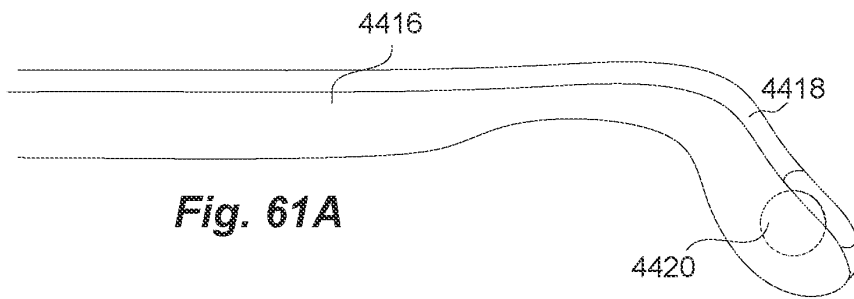


Fig. 61A

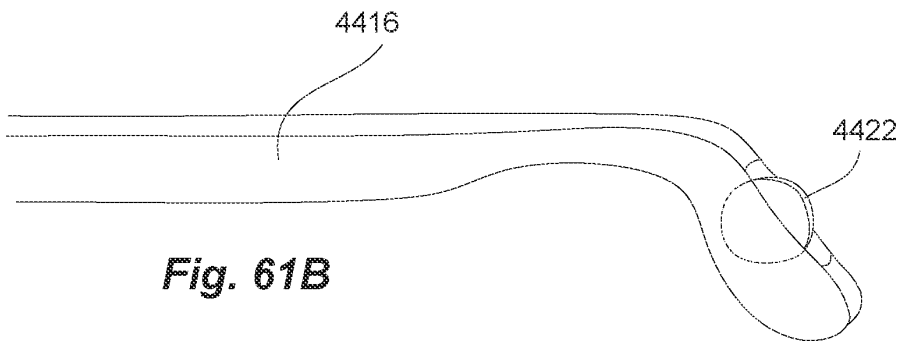


Fig. 61B

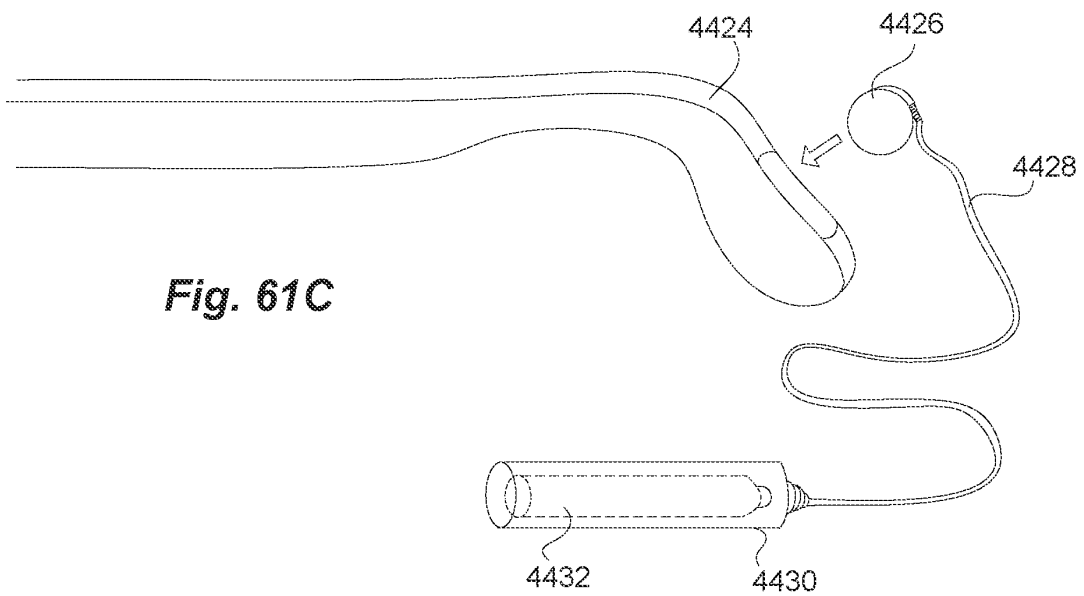


Fig. 61C

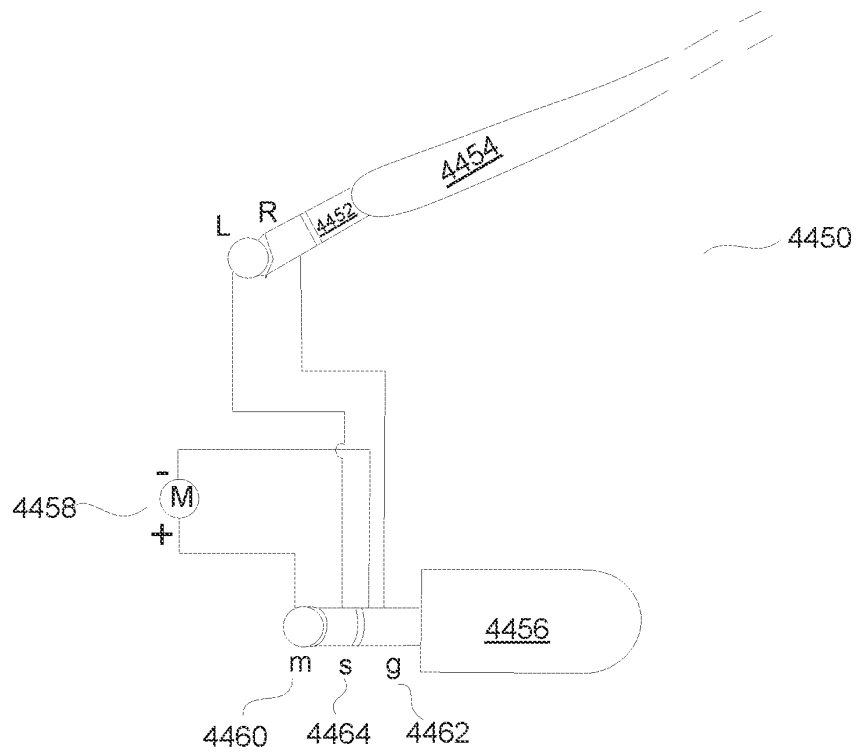


Fig. 62A

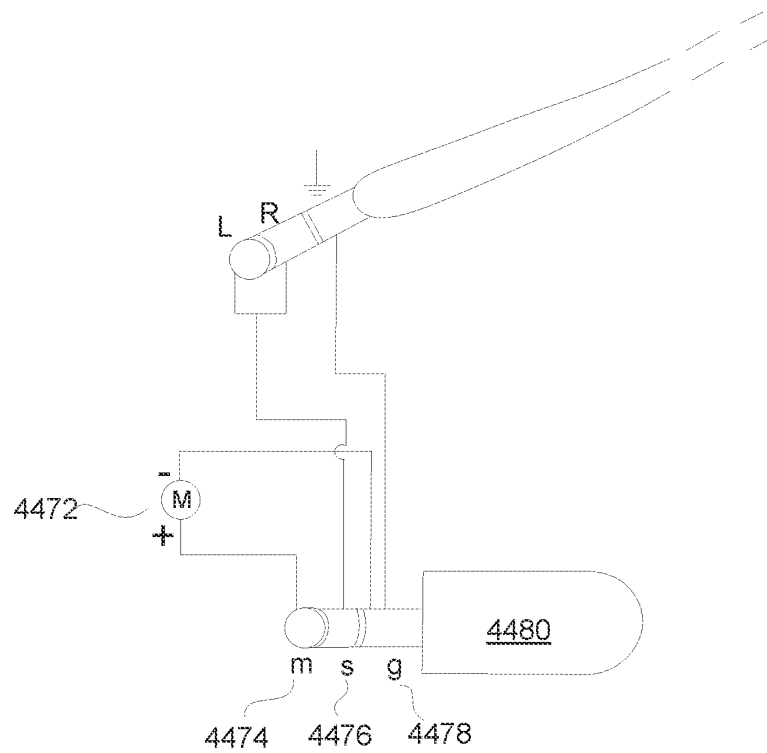


Fig. 62B

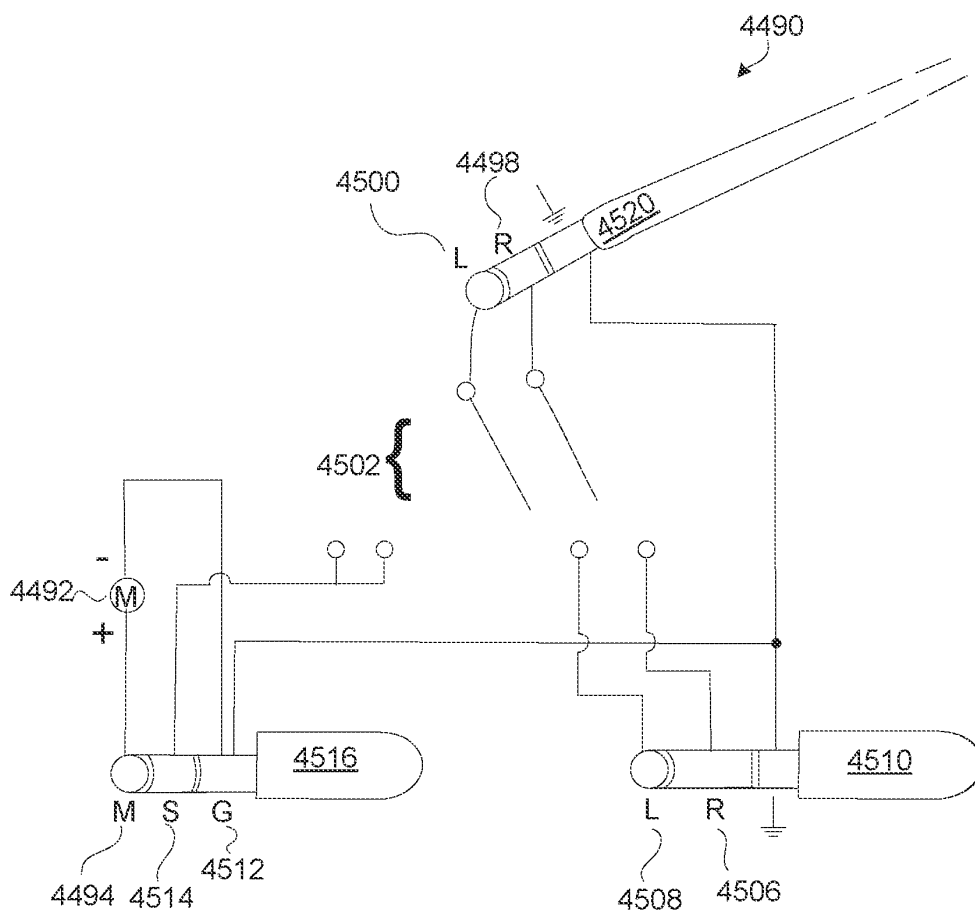


Fig. 63

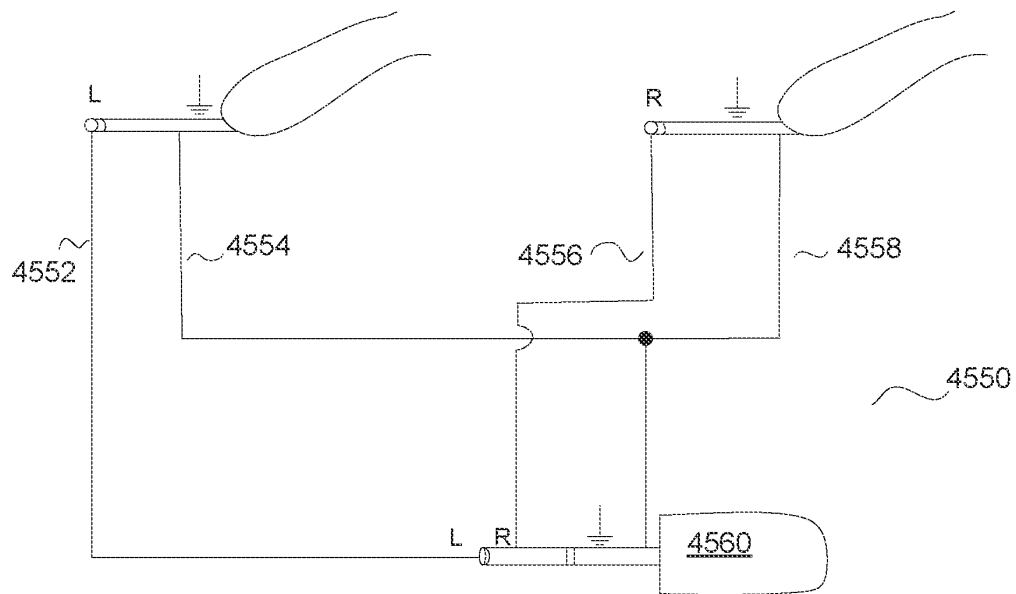


Fig. 64

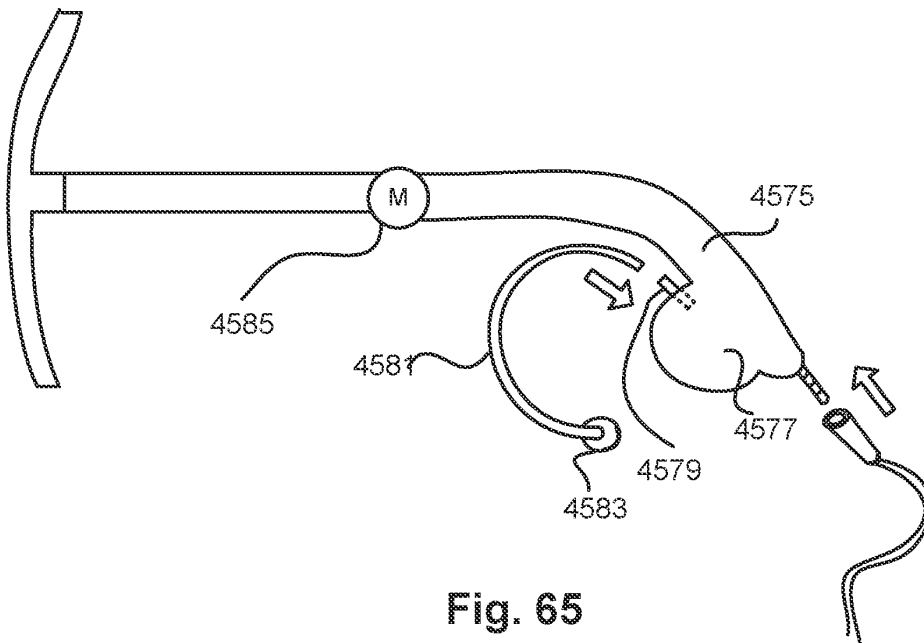


Fig. 65

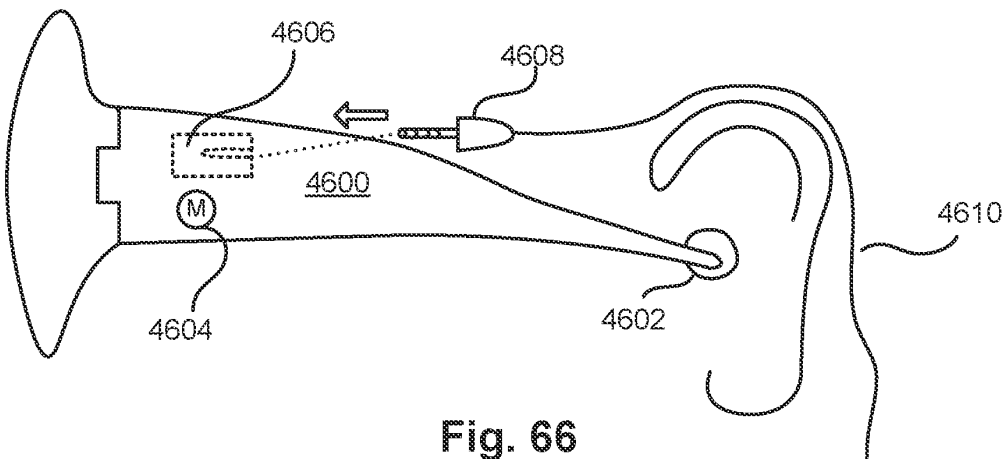


Fig. 66

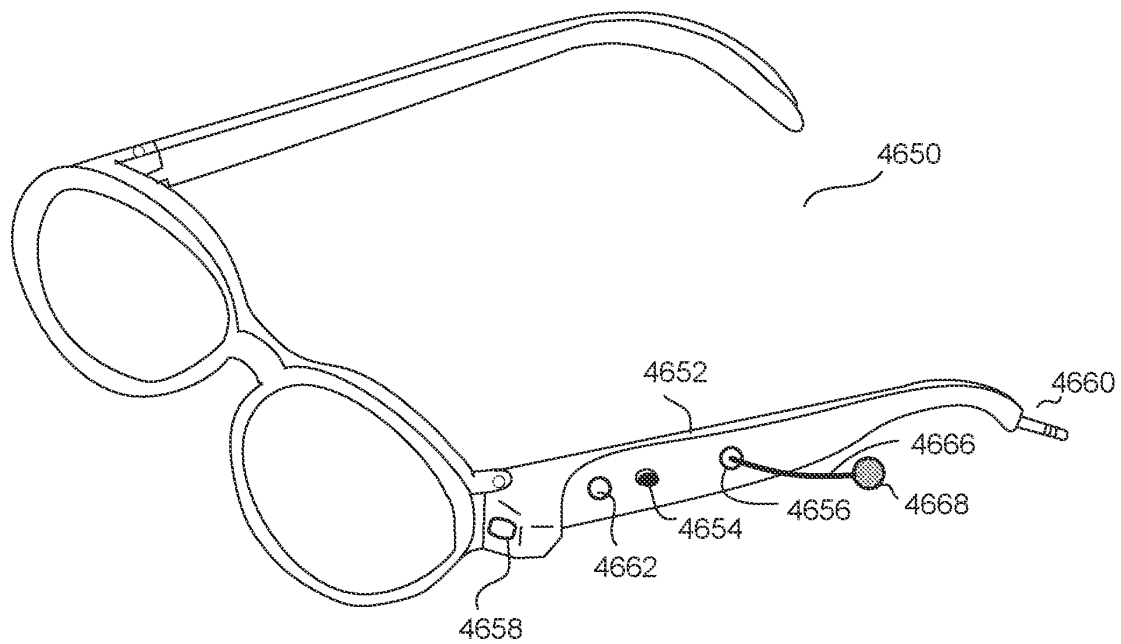


Fig. 67

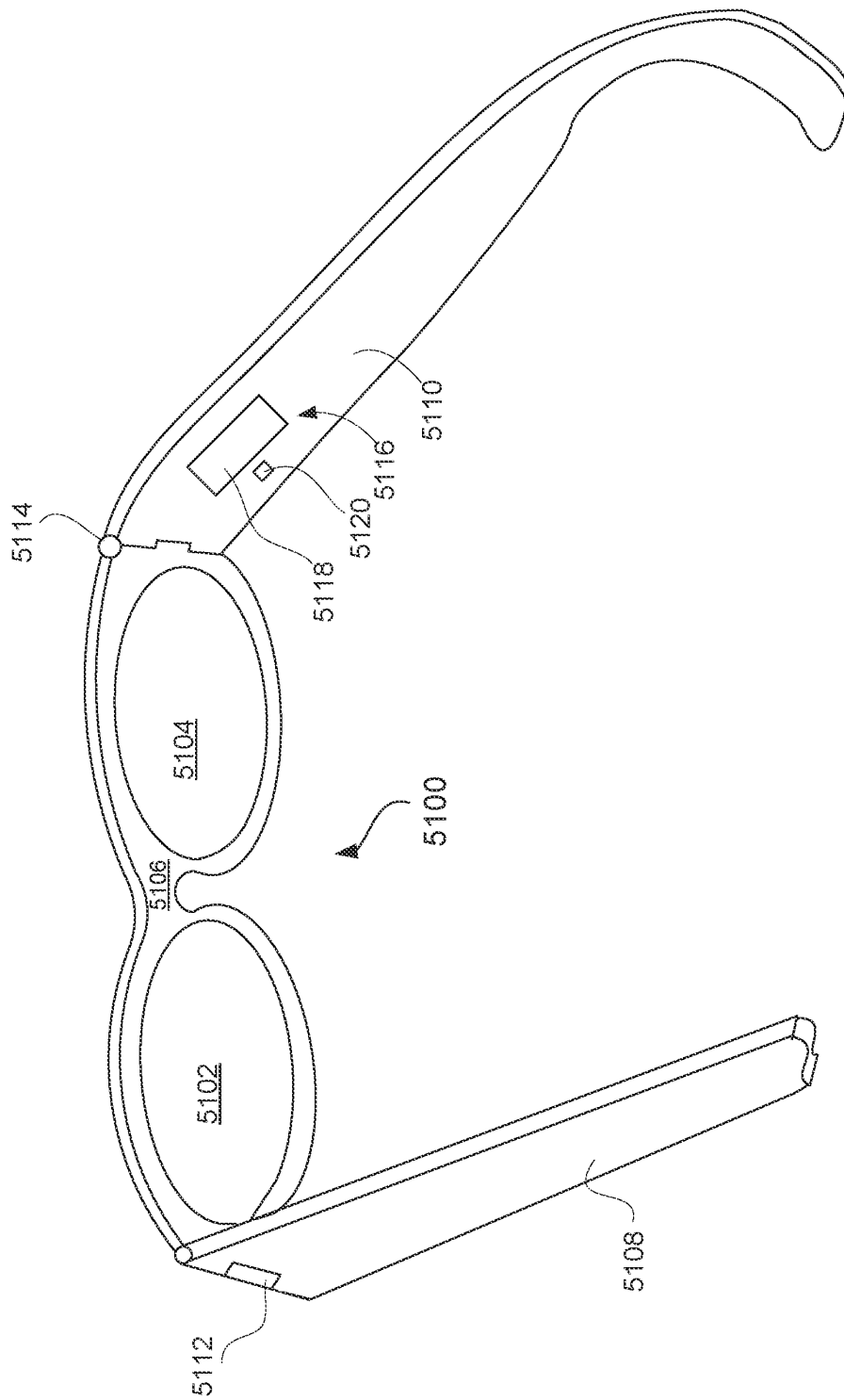


FIG. 68

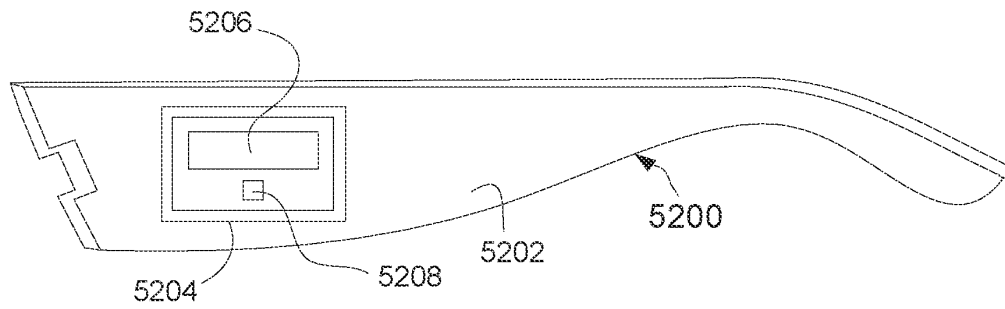


FIG. 69

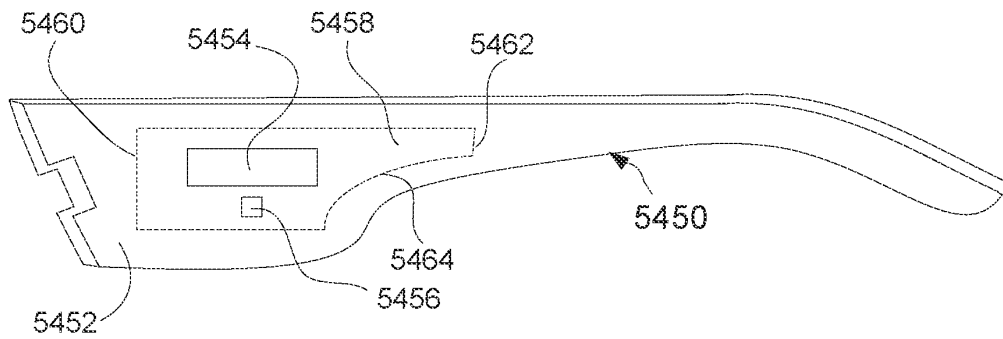


FIG. 71D

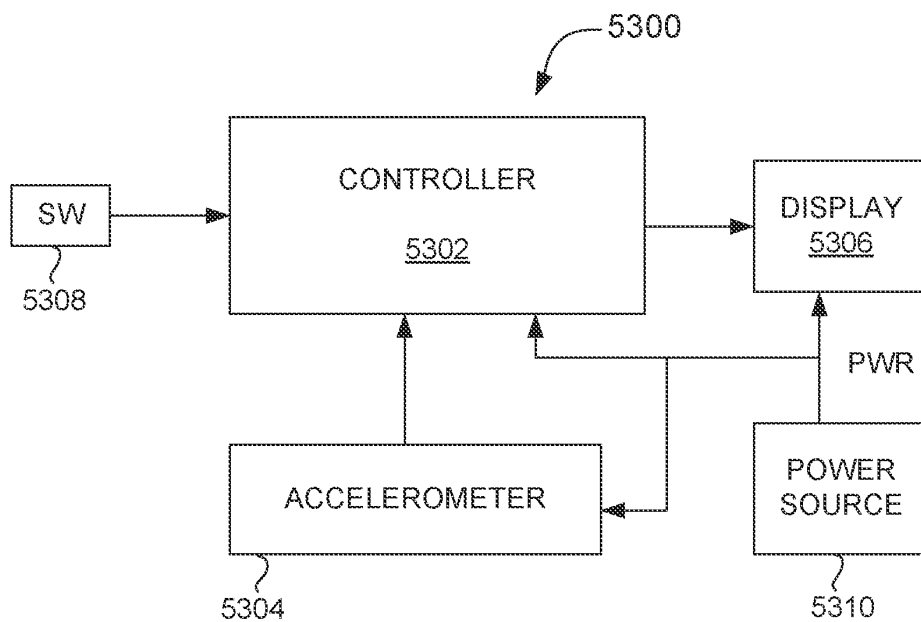


FIG. 70

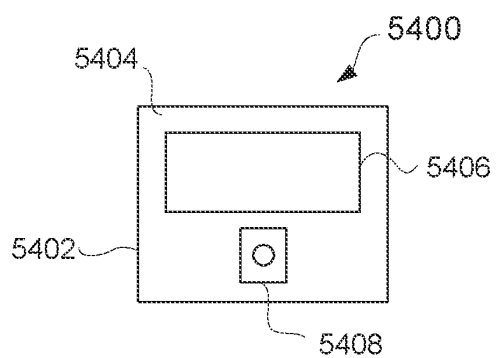


FIG. 71A

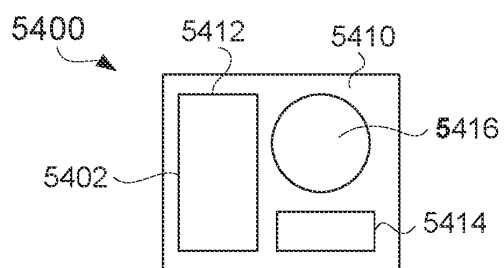


FIG. 71B

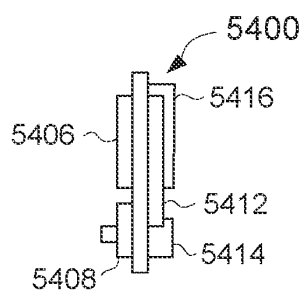


FIG. 71C

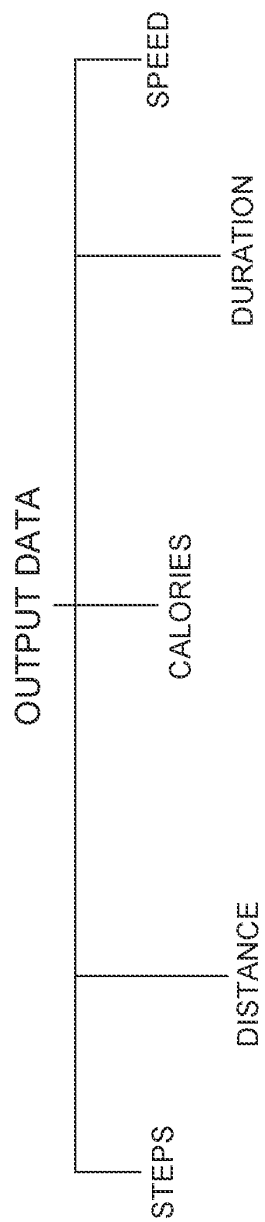


FIG. 72A

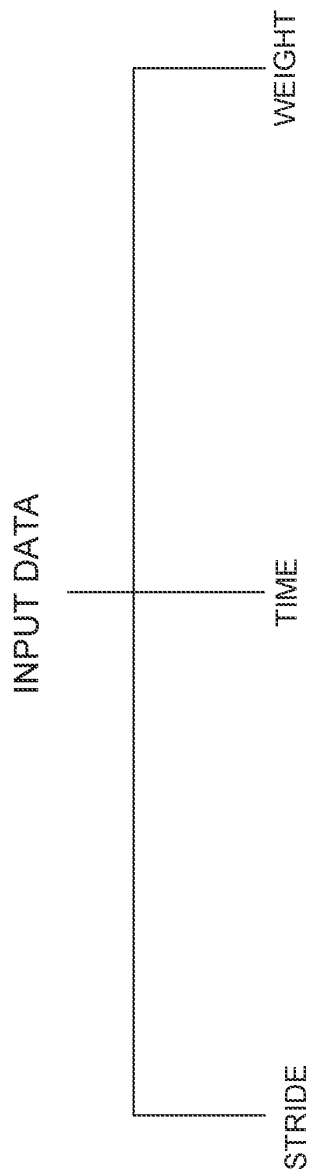


FIG. 72B

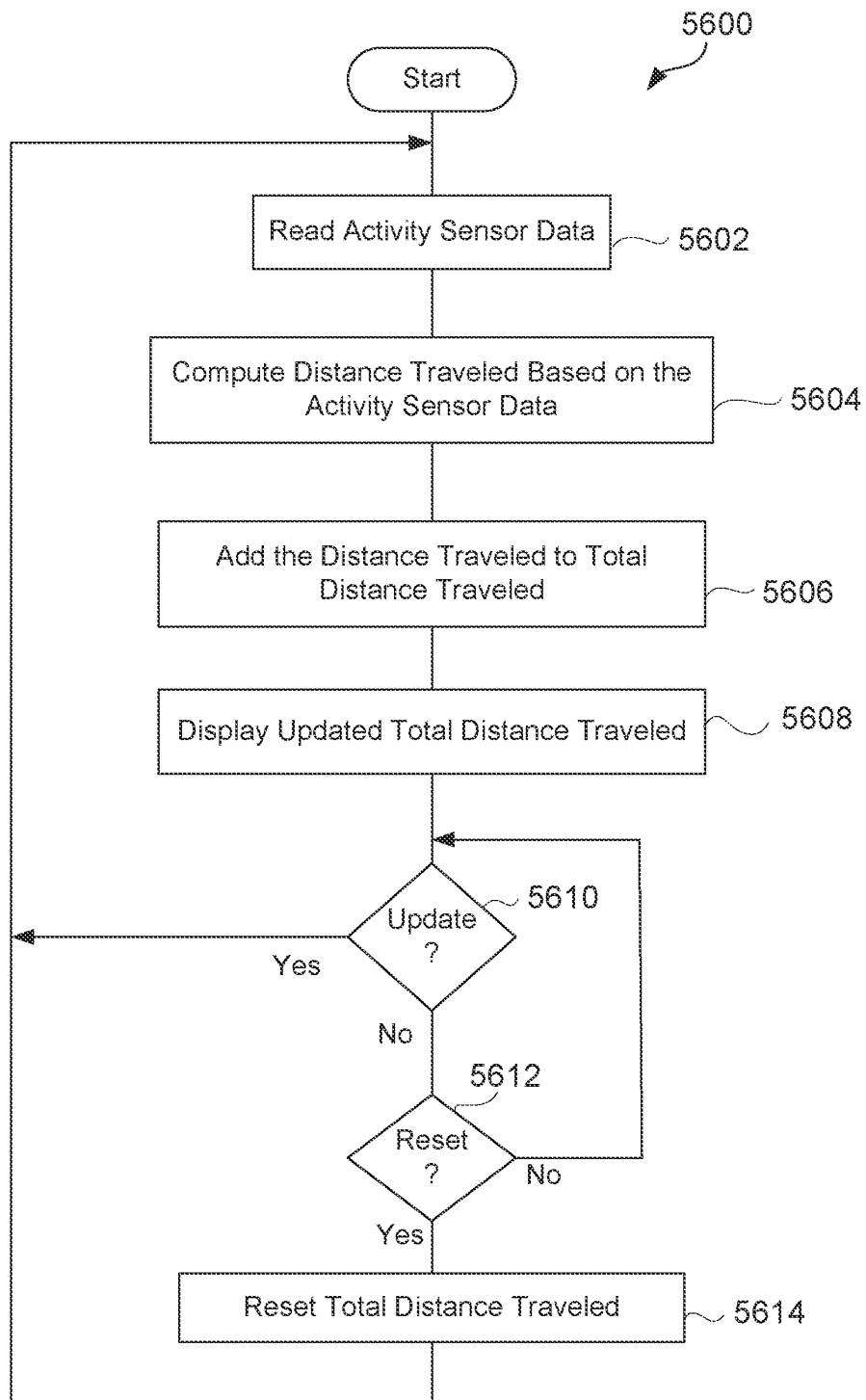


FIG. 73

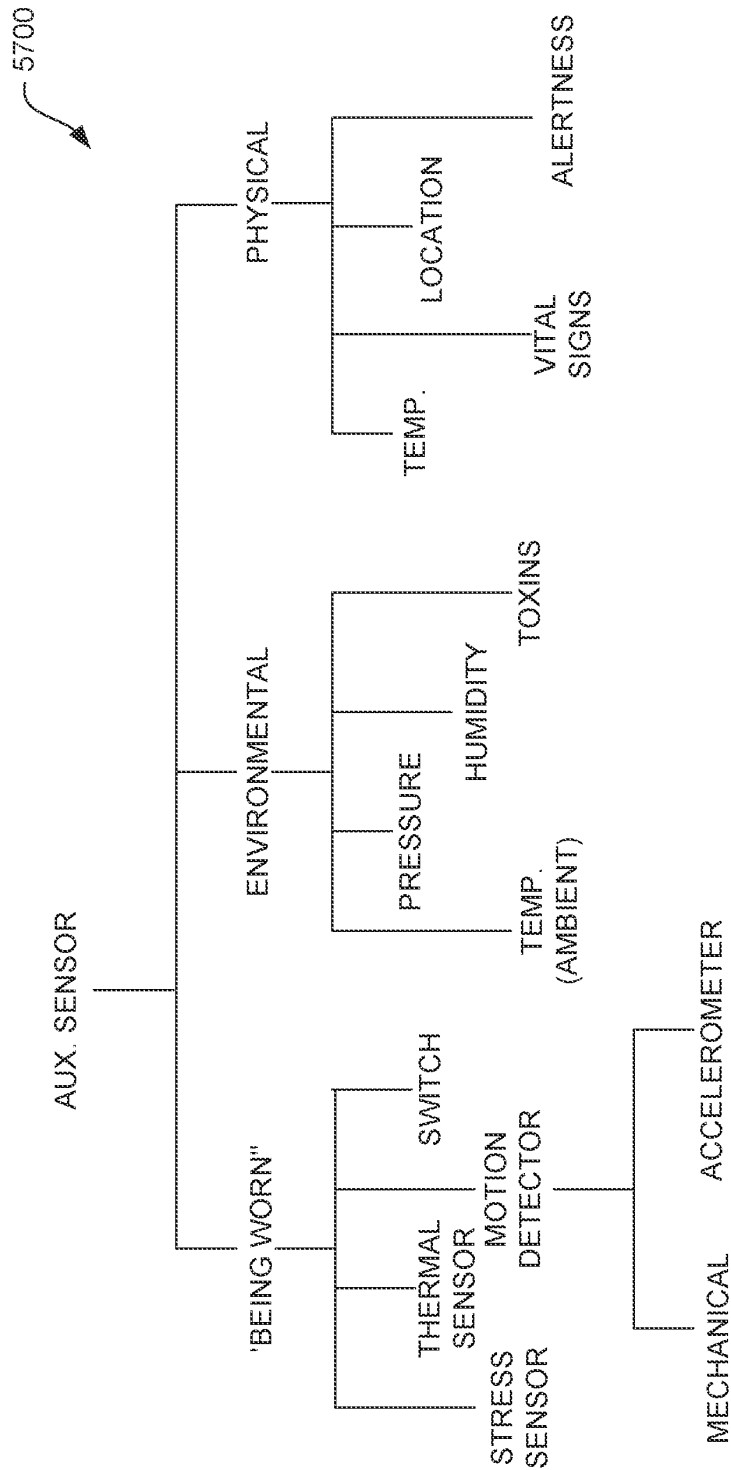


FIG. 74

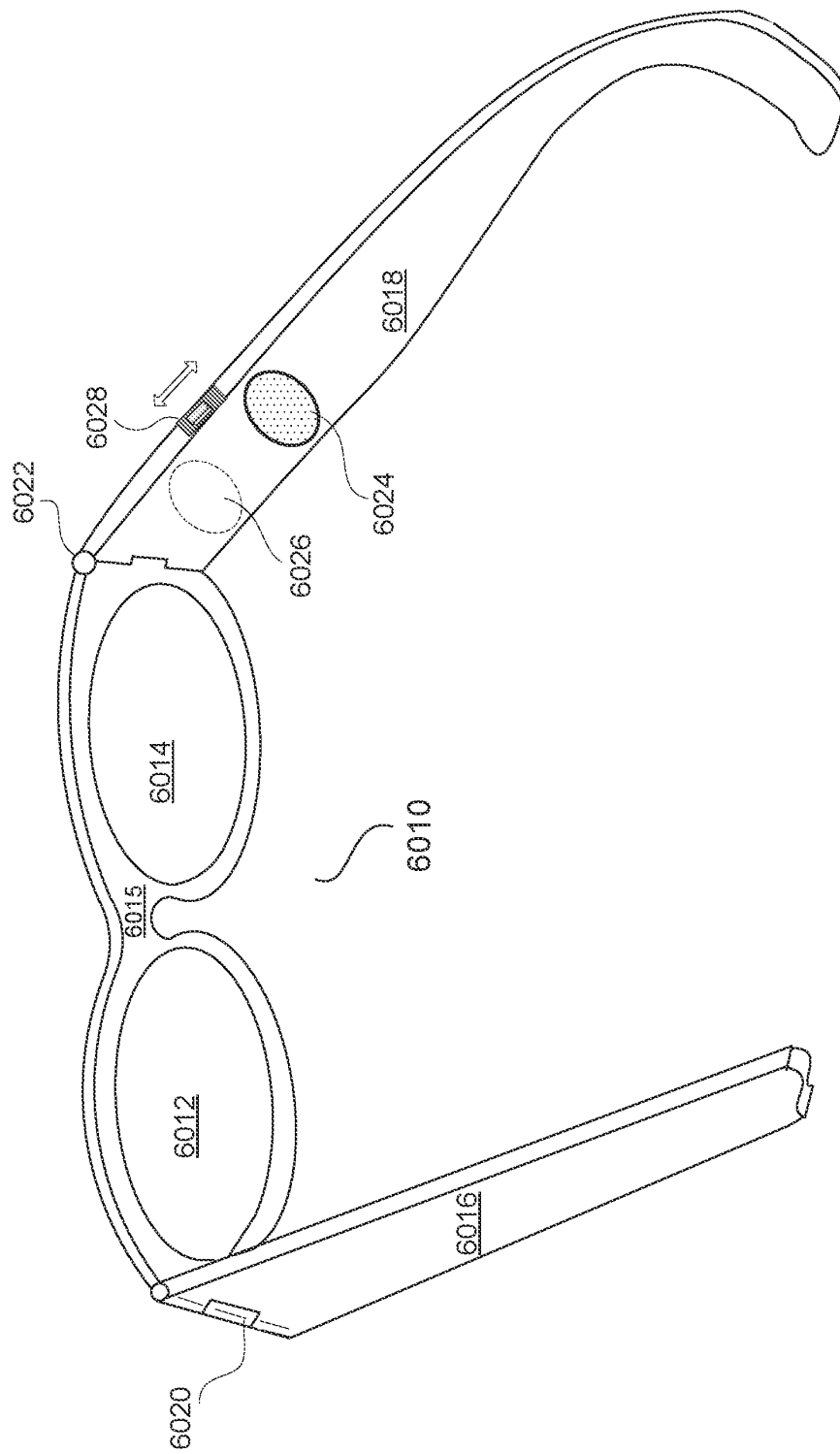


FIG. 75

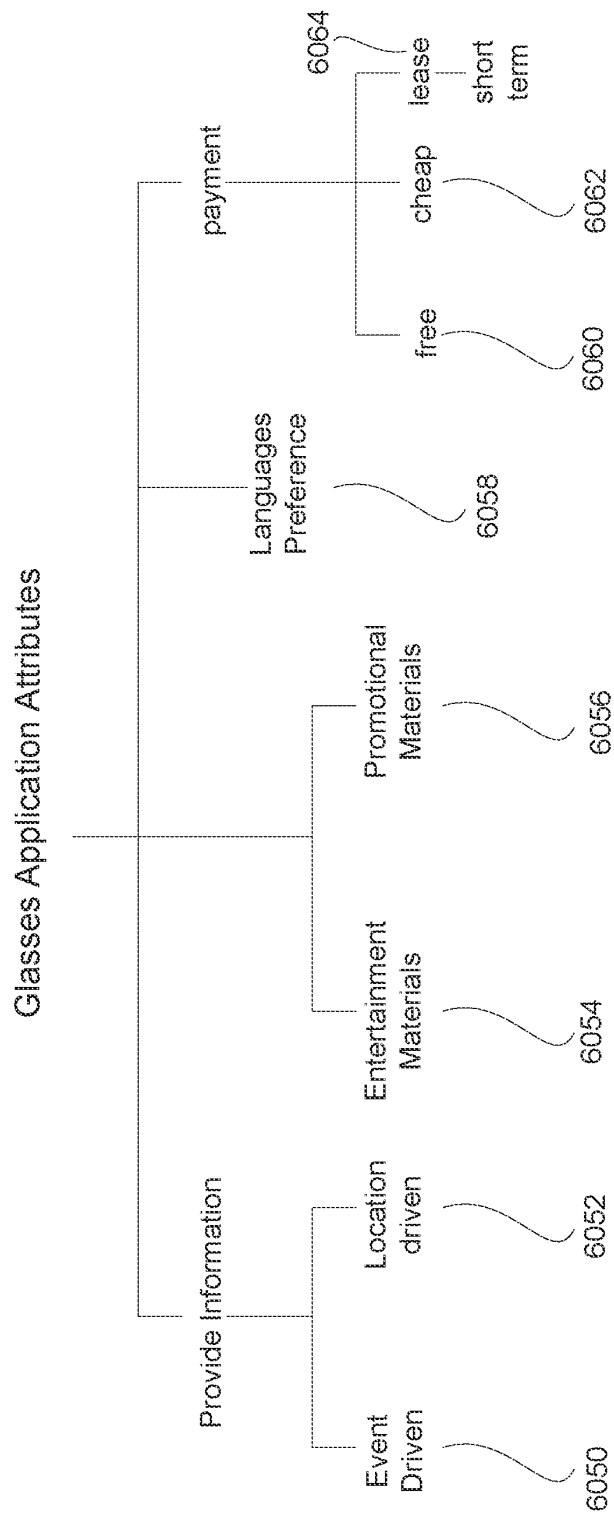


FIG. 76

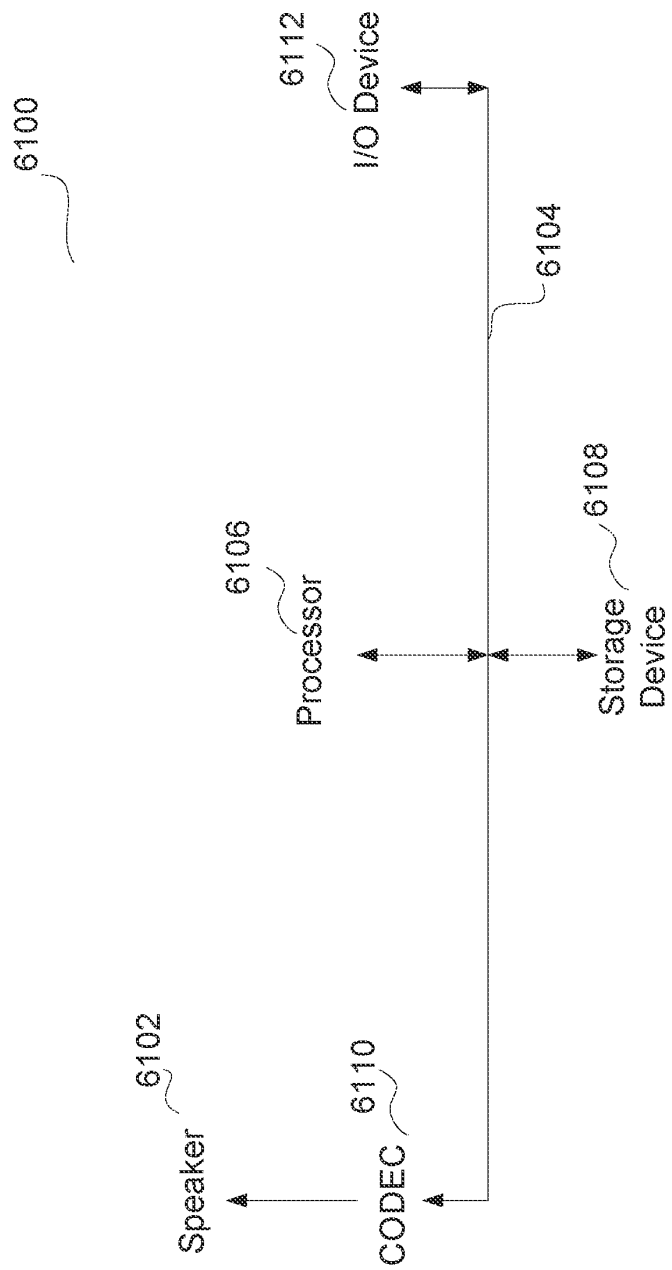


FIG. 77

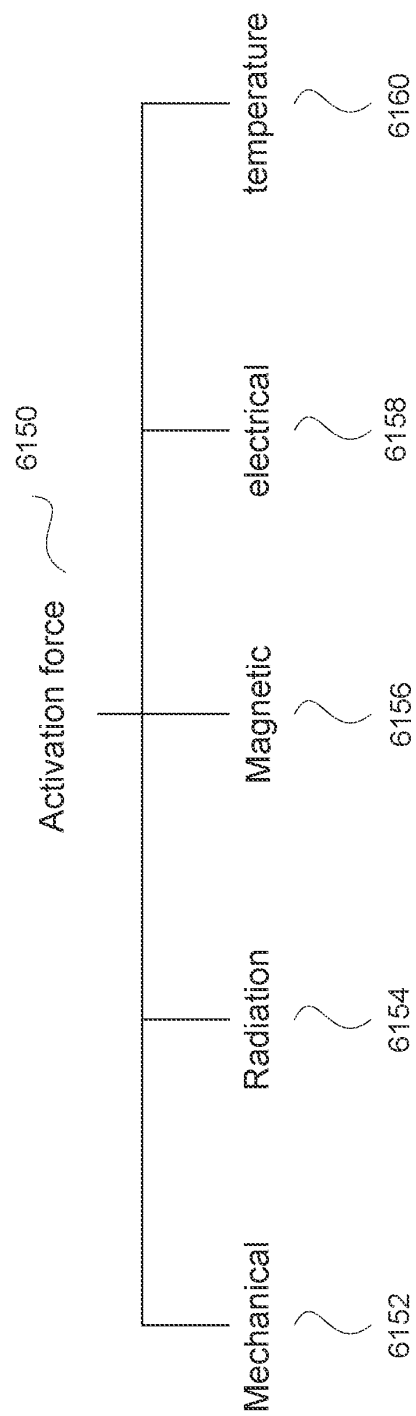


Fig. 78

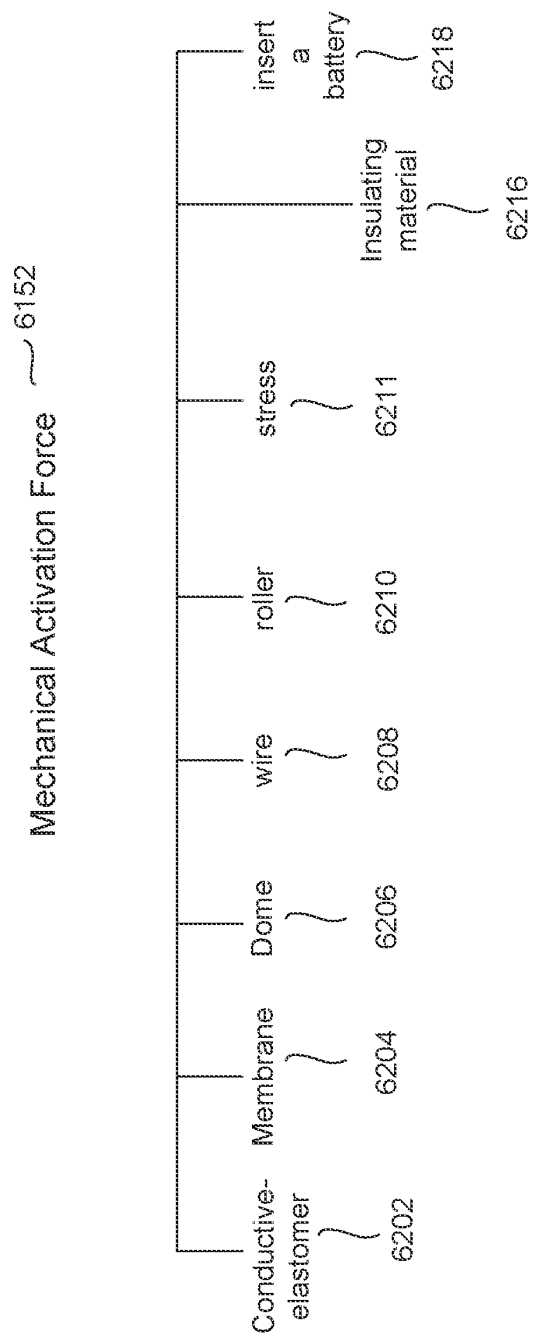


Fig. 79

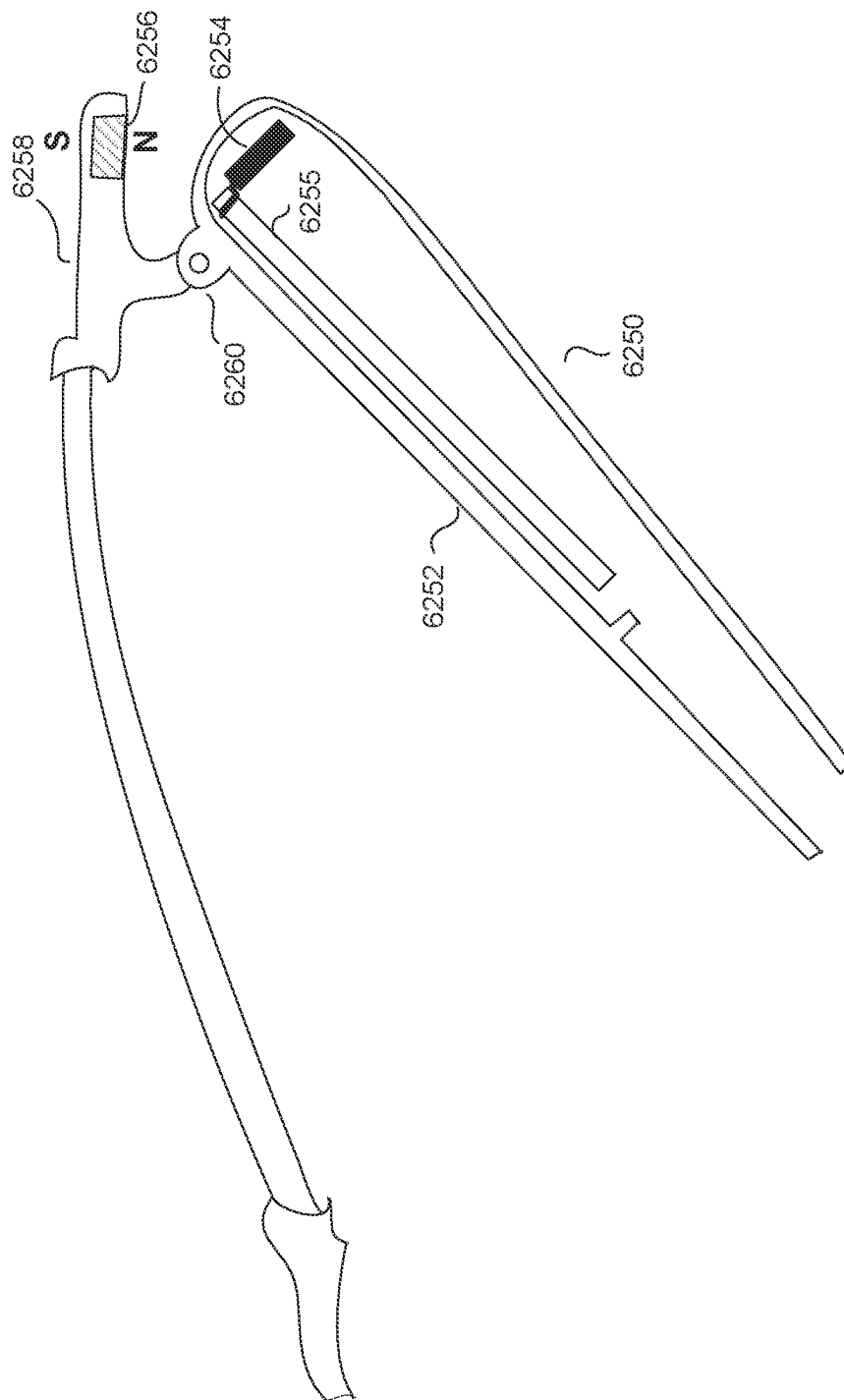


Fig. 80

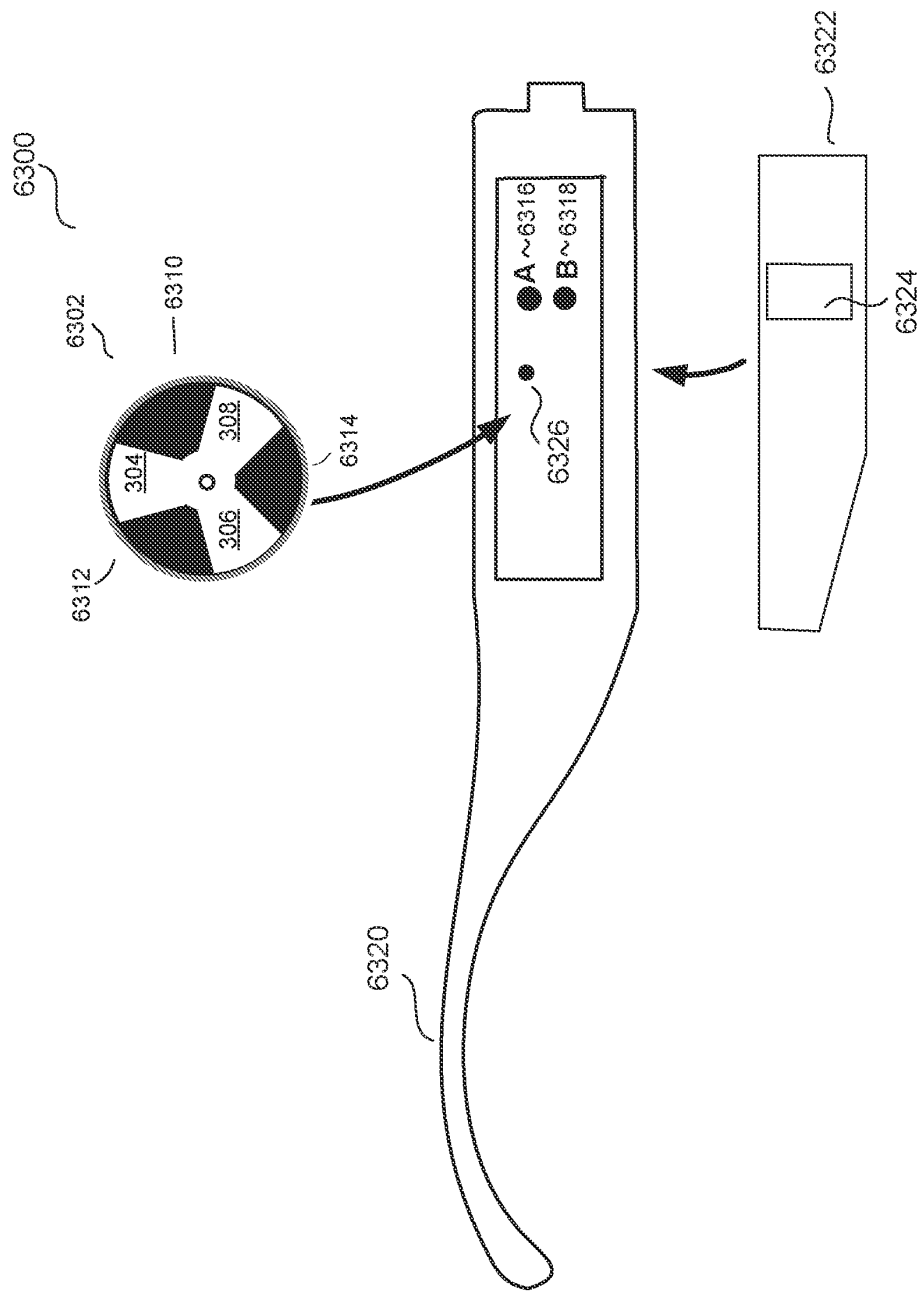


Fig. 81A

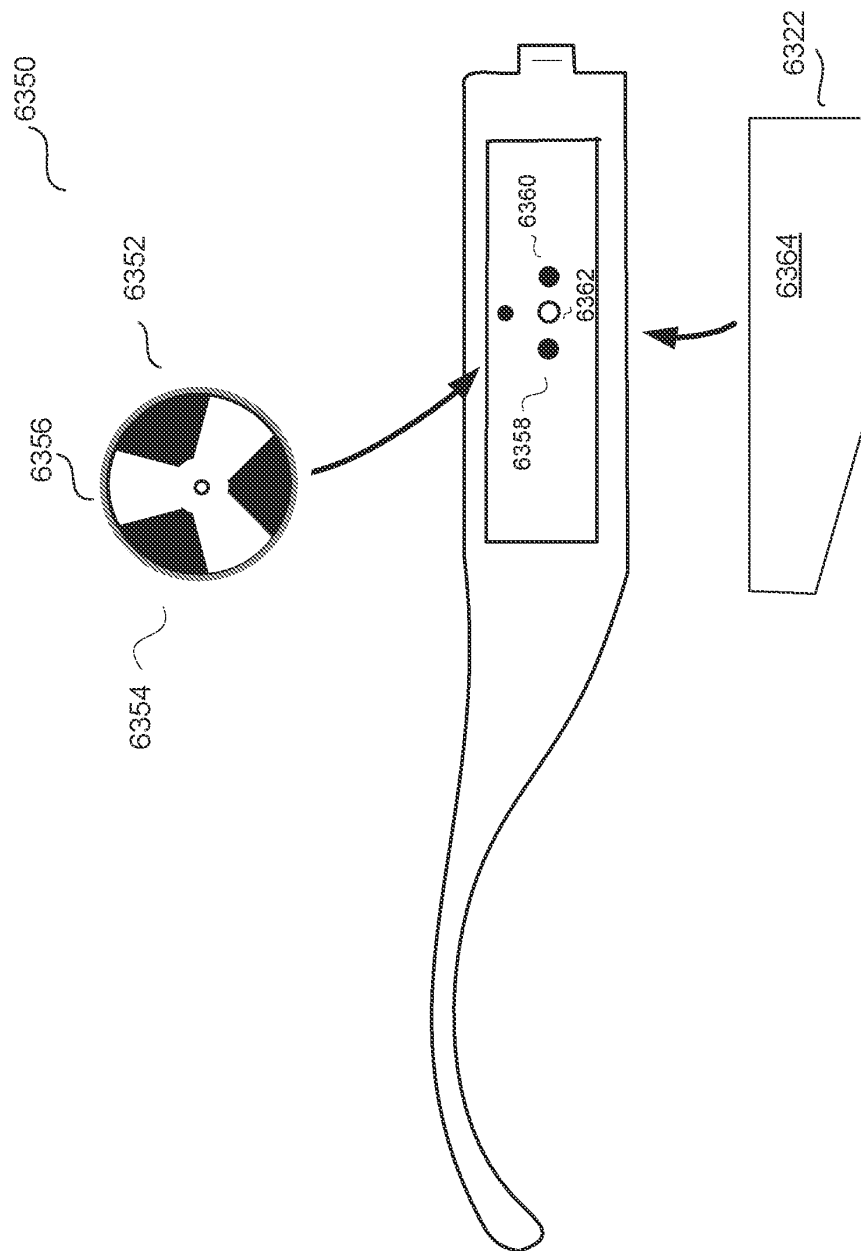


Fig. 81B

6400

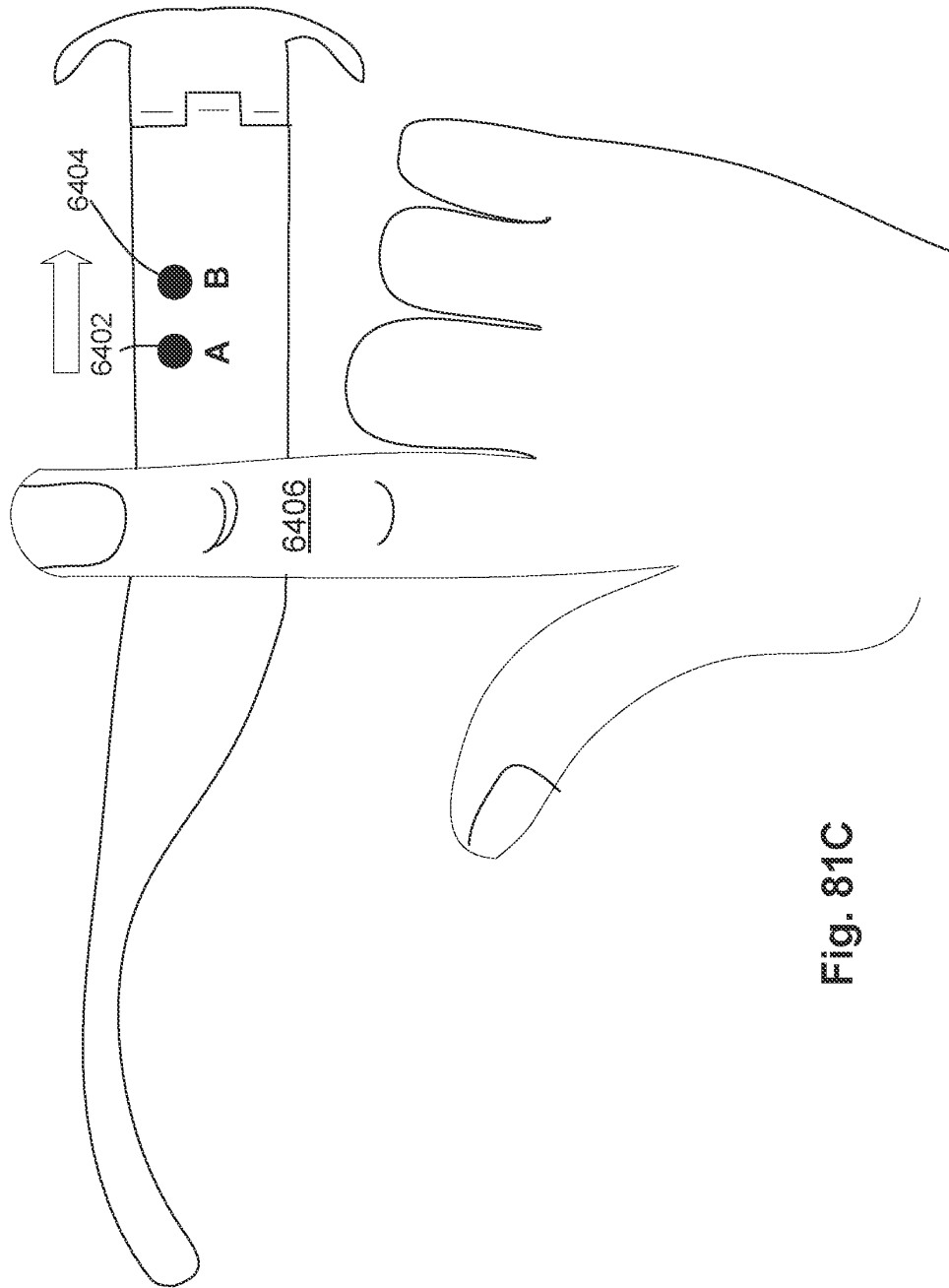


Fig. 81C

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		
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☐	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
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Prefix	Given Name	Middle Name	Family Name	Suffix
	David		Chao	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Saratoga	State/Province	CA	Country of Residence ⁱ US
Mailing Address of Inventor:				
Address 1	14137 Sobey Road			
Address 2				
City	Saratoga	State/Province	CA	
Postal Code	95070	Country ⁱ	US	
Inventor 3				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	C.	Douglass	Thomas	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service			
City	Saratoga	State/Province	CA
Country of Residence ⁱ		US	

Mailing Address of Inventor:

Address 1	4010 Moorpark Avenue		
Address 2	Suite 211		
City	San Jose	State/Province	CA
Postal Code	95117	Country ⁱ	US

Inventor 4**Legal Name**

Prefix	Given Name	Middle Name	Family Name	Suffix
	Peter	P.	Tong	

Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service

City	Mountain View	State/Province	CA
Country of Residence ⁱ		US	

Mailing Address of Inventor:

Address 1	1807 Limetree Lane		
Address 2			
City	Mountain View	State/Province	CA
Postal Code	94040	Country ⁱ	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.**Add****Correspondence Information:**Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).☐ An Address is being provided for the correspondence information of this application.

Customer Number	34071		
Email Address	doug@ipventure.com	Add Email	Remove Email

Application Information:

Title of the Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		
Attorney Docket Number	IPVCP003C11	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	92	Suggested Figure for Publication (if any)	52

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:					
☒ Customer Number		☐ US Patent Practitioner		☐ Limited Recognition (37 CFR 11.9)	
Customer Number		34071			
Prefix	Given Name	Middle Name	Family Name	Suffix	Remove
Registration Number					
Prefix	Given Name	Middle Name	Family Name	Suffix	Remove
Registration Number					
Additional Representative Information blocks may be generated within this form by selecting the Add button.					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
	Continuation of	17873104	2022-07-25		
Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
17873104	Continuation of	17484080	2021-09-24		
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17484080	Continuation of	16574254	2019-09-18	11204512	2021-12-21
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16574254	Continuation of	16049120	2018-07-30	11243416	2022-02-08
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16049120	Continuation of	15375423	2016-12-12	10061144	2018-08-28
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15375423	Continuation of	14557409	2014-12-01	9547184	2017-01-17
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14557409	Continuation of	13955336	2013-07-31	8905542	2014-12-09

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13955336	Continuation of	13085402	2011-04-12	8500271	2013-08-06

Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13085402	Continuation of	11183269	2005-07-15	7922321	2011-04-12

Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
11183269	Claims benefit of provisional	60592045	2004-07-28		

Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
11183269	Claims benefit of provisional	60605191	2004-08-28		

Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
11183269	Claims benefit of provisional	60618107	2004-10-12		

Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
11183269	Claims benefit of provisional	60620238	2004-10-18		

Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
11183269	Claims benefit of provisional	60647836	2005-01-31		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
11183269	Claims benefit of provisional	60647826	2005-01-31
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

[Clear](#)

☒ Assignee
 ☐ Legal Representative under 35 U.S.C. 117
 ☐ Joint Inventor

☐ Person to whom the inventor is obligated to assign.
 ☐ Person who shows sufficient proprietary interest

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name

Mailing Address Information For Applicant:

Address 1	4010 Moorpark Avenue		
Address 2	Suite 211		
City	San Jose	State/Province	CA
Country ¹	US	Postal Code	95117
Phone Number	650-903-9200	Fax Number	650-903-9800
Email Address	doug@ipventure.com		

Additional Applicant Data may be generated within this form by selecting the Add button.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
If the Assignee or Non-Applicant Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country i		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	IPVCP003C11
		Application Number	
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT		

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/C. Douglass Thomas/			Date (YYYY-MM-DD)	
First Name	C.	Last Name	Thomas	Registration Number	32947
Additional Signature may be generated within this form by selecting the Add button.					

PETITION TO MAKE SPECIAL BASED ON AGE FOR ADVANCEMENT OF EXAMINATION UNDER 37 CFR 1.102(c)(1)					
Application Information					
Application Number	18144557	Confirmation Number	1712	Filing Date	
Attorney Docket Number (optional)	IPVCP003C11	Art Unit		Examiner	
First Named Inventor	Thomas A. Howell				
Title of Invention	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT				
Attention: Office of Petitions An application may be made special for advancement of examination upon filing of a petition showing that the applicant is 65 years of age, or more. No fee is required with such a petition. See <u>37 CFR 1.102(c)(1)</u> and MPEP 708.02 (II). APPLICANT HEREBY PETITIONS TO MAKE SPECIAL FOR ADVANCEMENT OF EXAMINATION IN THIS APPLICATION UNDER 37 CFR 1.102(c)(1) and MPEP 708.02 (II) ON THE BASIS OF THE APPLICANT'S AGE. A grantable petition requires one of the following items: (1) Statement by one named inventor in the application that he/she is 65 years of age, or more; or (2) Certification by a registered attorney/agent having evidence such as a birth certificate, passport, driver's license, etc. showing one named inventor in the application is 65 years of age, or more.					
Name of Inventor who is 65 years of age, or older					
Given Name	Middle Name	Family Name	Suffix		
Peter	P.	Tong			
A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the format of the signature. Select (1) or (2) :					
☐ (1) I am an inventor in this application and I am 65 years of age, or more. ☒ (2) I am an attorney or agent registered to practice before the Patent and Trademark Office, and I certify that I am in possession of evidence, and will retain such in the application file record, showing that the inventor listed above is 65 years of age, or more.					
Signature	/C. Douglass Thomas/				
Name	C. Douglass Thomas	Registration Number	32947		

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Application of
Thomas A. Howell

:
:

Application No. 18144557

:DECISION ON PETITION TO MAKE SPECIAL
:UNDER 37 CFR 1.102(c)(1)

Filed:

:

Attorney Docket No. IPVCP003C11

This is a decision on the electronic petition under 37 CFR 1.102 (c)(1), filed 19-MAY-2023 to make the above-identified application special based on applicant's age as set forth in MPEP § 708.02, Section II.

The petition is **GRANTED**.

A grantable petition to make an application special under 37 CFR 1.102(c)(1), MPEP § 708.02, Section II : Applicant's Age must include a statement by applicant or a registered practitioner having evidence that applicant is at least 65 years of age. No fee is required.

Accordingly, the above-identified application has been accorded "special" status and will be taken up for action by the examiner upon the completion of all pre-examination processing.

Telephone inquiries concerning this electronic decision should be directed to the Electronic Business Center at 866-217-9197.

All other inquiries concerning either the examination or status of the application should be directed to the Technology Center.

Electronic Acknowledgement Receipt	
EFS ID:	48023261
Application Number:	18144557
International Application Number:	
Confirmation Number:	1712
Title of Invention:	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT
First Named Inventor/Applicant Name:	Thomas A. Howell
Customer Number:	34071
Filer:	Peter P. Tong/Angela Nijim
Filer Authorized By:	Peter P. Tong
Attorney Docket Number:	IPVCP003C11
Receipt Date:	19-MAY-2023
Filing Date:	
Time Stamp:	13:27:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	ePetition Request Form	petition-request.pdf	44894	no	2
			4f8c810c3280150909f0a6742b4ab86d0513649f		

Warnings:

Information:	
Total Files Size (in bytes):	44894
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty. Docket No.	IPVCP003C11
	Application No.:	18/144,557
	Applicant	HOWELL et al.
	Filing Date	May 8, 2023
	Group	Not Yet Assigned
		Page 1 of 10

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	1.						
	2.						
	3.						
	4.						
	5.						

Foreign Documents

								Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No	
		CA 2 487 391	Dec-03	Canada					
		CN 88203065	Nov-88	China			X abstract		
		CN 89214222.7	Mar-90	China			X abstract		
		CN 90208199.3	Nov-90	China			X abstract		
		DE 10123226 A1	Nov-02	Germany			X		
		EP 1027626 B1	Mar-16	Europe					
		EP 1134491 A2	Sep-01	Europe					
		EP 2290433 B1	Apr-16	Europe					
		FR 2530039 A1	Jan-84	France			X abstract		
		GB 1467982	Mar-77	Great Britain					
		JP 02-181722	Jul-90	Japan			X abstract		
		JP 09-017204	Jan-97	Japan			X		
		JP 10-161072	Jun-98	Japan			X		
		JP 2000-039595	Feb-00	Japan			X		
		JP 2002 341059 A	Nov-02	Japan			X		
		JP 2002-02511706 A	Apr-02	Japan			X		
		JP 2005-151292	Jun-05	Japan			X abstract		
		JP 2005-167902	Jun-05	Japan			X		
		JP 58-113912	Jul-83	Japan			X		

Examiner	Date Considered
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A	Notice of Allowance for U.S. Patent Application No. 11/183,269, dated December 10, 2010.	
B	Office Action for U.S. Patent Application No. 11/183,269, dated May 25, 2010.	
C	Final Office Action for U.S. Patent Application No. 11/183,269, dated February 17, 2010.	
D	Office Action for U.S. Patent Application No. 11/183,269, dated June 23, 2009.	
E	Office Action for U.S. Patent Application No. 11/183,269, dated December 4, 2008.	
F	Final Office Action for U.S. Patent Application No. 11/183,269, dated June 5, 2008.	
G	Office Action for U.S. Patent Application No. 11/183,269, dated October 18, 2007.	
H	Restriction Requirement for U.S. Patent Application No. 11/183,269, dated June 25, 2007.	
I	Office Action for U.S. Patent Application No. 13/085,402, dated April 19, 2012.	
J	Notice of Allowance for U.S. Patent Application No. 13/085,402, dated August 2, 2012.	
K	Notice of Allowance for U.S. Patent Application No. 13/085,402, dated November 13, 2012.	
L	Notice of Allowance for U.S. Patent Application No. 13/085,402, dated February 20, 2013.	
M	Notice of Allowance for U.S. Patent Application No. 13/085,402, dated June 14, 2013.	
N	Office Action for U.S. Patent Application No. 13/955,336, dated December 5, 2013.	
O	Notice of Allowance for U.S. Patent Application No. 13/955,336, dated April 28, 2014.	
P	Notice of Allowance for U.S. Patent Application No. 13/955,336, dated August 18, 2014.	
Q	Notice of Allowance for U.S. Patent Application No. 13/955,336, dated October 7, 2014.	
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	S	Office Action for U.S. Patent Application No. 14/557,409, dated June 11, 2015.
	T	Notice of Allowance for U.S. Patent Application No. 14/557,409, dated January 14, 2016.
	U	Notice of Allowance for U.S. Patent Application No. 14/557,409, dated April 28, 2016.
	V	Notice of Allowance for U.S. Patent Application No. 14/557,409, dated August 8, 2016.
	W	Notice of Allowance for U.S. Patent Application No. 14/557,409, dated November 4, 2016.
	X	Corrected Notice of Allowance for U.S. Patent Application No. 14/557,409, dated December 12, 2016.
	Y	Office Action for U.S. Patent Application No. 15/375,423, dated March 27, 2017.
	Z	Notice of Allowance for U.S. Patent Application No. 15/375,423, dated July 5, 2017.
	AA	Notice of Allowance for U.S. Patent Application No. 15/375,423, dated October 31, 2017.
	AB	Notice of Allowance for U.S. Patent Application No. 15/375,423, dated March 23, 2018.
	AC	Notice of Allowance for U.S. Patent Application No. 15/375,423, dated July 13, 2018.
	AD	Office Action for U.S. Patent Application No. 16/049,120, dated February 28, 2020.
	AE	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated June 3, 2020.
	AF	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated September 21, 2020.
	AG	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated February 23, 2021.
	AH	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated June 3, 2021.
	AI	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated September 20, 2021.
	AJ	Notice of Allowance for U.S. Patent Application No. 16/574,254, dated April 16, 2021.
	AK	Notice of Allowance for U.S. Patent Application No. 16/574,254, dated August 9, 2021.
	AL	Office Action for U.S. Patent Application No. 16/821,810, dated February 2, 2022.
	AM	Notice of Allowance for U.S. Patent Application No. 16/821,810, dated April 6, 2022.
	AN	Notice of Allowance for U.S. Patent Application No. 16/821,810, dated October 19, 2022.
	AO	Office Action for U.S. Patent Application No. 17/484,080, dated January 21, 2022.
	AP	Notice of Allowance for U.S. Patent Application No. 17/484,080, dated May 31, 2022.
	AQ	Notice of Allowance for U.S. Patent Application No. 17/484,080, dated September 13, 2022.
	AR	Notice of Allowance for U.S. Patent Application No. 17/484,080, dated January 31, 2023.
	AS	Office Action for U.S. Patent Application No. 17/949,029, dated November 23, 2022.
	AT	Notice of Allowance for U.S. Patent Application No. 17/949,029, dated March 1, 2023.
	AU	Office Action for U.S. Patent Application No. 17/873,104, dated October 6, 2022.
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	AW	Notice of Allowance for U.S. Patent Application No. 17/873,104, dated December 16, 2022.
	AX	Notice of Allowance for U.S. Patent Application No. 17/873,104, dated March 22, 2023.
	AY	Restriction Requirement for U.S. Patent Application No. 11/580,222, dated June 18, 2008.
	AZ	Office Action for U.S. Patent Application No. 11/580,222, dated September 12, 2008.
	BA	Office Action for U.S. Patent Application No. 11/580,222, dated January 28, 2009.
	BB	Notice of Allowance for U.S. Patent Application No. 11/580,222, dated April 20, 2009.
	BC	U.S. Patent Application No. 12/462,286, filed July 31, 2009.
	BD	Restriction Requirement for U.S. Patent Application No. 12/462,286, dated September 17, 2010.
	BE	Office Action for U.S. Patent Application No. 12/462,286, dated January 13, 2011.
	BF	Notice of Allowance for U.S. Patent Application No. 12/462,286, dated June 24, 2011.
	BG	Notice of Allowance for U.S. Patent Application No. 12/462,286, dated November 22, 2011.
	BH	Office Action for U.S. Patent Application No. 13/367,346, dated May 15, 2013.
	BI	Notice of Allowance for U.S. Patent Application No. 13/367,346, dated October 10, 2013.
	BJ	Office Action for U.S. Patent Application No. 13/367,346, dated January 28, 2014.
	BK	Notice of Allowance for U.S. Patent Application No. 13/367,346, dated August 15, 2014.
	BL	Notice of Allowance for U.S. Patent Application No. 13/367,346, dated March 19, 2015.
	BM	Office Action for U.S. Patent Application No. 14/715,501, dated September 23, 2015.
	BN	Office Action for U.S. Patent Application No. 14/715,501, dated March 25, 2016.
	BO	Office Action for U.S. Patent Application No. 14/715,501, dated October 17, 2016.
	BP	Office Action for U.S. Patent Application No. 14/715,501, dated July 20, 2017.
	BQ	Office Action for U.S. Patent Application No. 14/715,501, dated January 8, 2018.
	BR	Notice of Allowance for U.S. Patent Application No. 14/715,501, dated May 9, 2018.
	BS	Notice of Allowance for U.S. Patent Application No. 14/715,501, dated September 11, 2018.
	BT	Office Action for U.S. Patent Application No. 16/127,957, dated June 4, 2020.
	BU	Office Action for U.S. Patent Application No. 16/127,957, dated September 30, 2020.
	BV	Notice of Allowance for U.S. Patent Application No. 16/127,957, dated December 21, 2020.
	BW	Notice of Allowance for U.S. Patent Application No. 17/395,509, dated May 6, 2022.
	BX	Notice of Allowance for U.S. Patent Application No. 17/395,509, dated September 9, 2022.
	BY	Notice of Allowance for U.S. Patent Application No. 17/737,866, dated September 16, 2022.
	BZ	Notice of Allowance for U.S. Patent Application No. 16/182,969, dated January 28, 2022.
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CA	Office Action for U.S. Patent Application No. 16/182,969, dated June 24, 2020.
CB	Notice of Allowance for U.S. Patent Application No. 16/182,969, dated October 14, 2020.
CC	Notice of Allowance for U.S. Patent Application No. 16/182,969, dated September 1, 2021.
CD	U.S. Patent Application No. 12/806,312, filed August 10, 2010.
CE	Office Action for U.S. Patent Application No. 12/806,312, dated April 20, 2012.
CF	Office Action for U.S. Patent Application No. 12/806,312, dated September 25, 2012.
CG	Notice of Allowance for U.S. Patent Application No. 12/806,312, dated December 14, 2012.
CH	Notice of Allowance for U.S. Patent Application No. 12/806,312, dated March 29, 2013.
CI	U.S. Patent Application No. 13/831,512, filed March 14, 2013.
CJ	Office Action for U.S. Patent Application No. 13/831,512, dated June 4, 2013.
CK	Office Action for U.S. Patent Application No. 13/831,512, dated February 24, 2014.
CL	Office Action for U.S. Patent Application No. 13/831,512, dated July 2, 2014.
CM	Office Action for U.S. Patent Application No. 13/831,512, dated January 21, 2015.
CN	Office Action for U.S. Patent Application No. 13/831,512, dated May 29, 2015.
CO	Office Action for U.S. Patent Application No. 13/831,512, dated February 24, 2016.
CP	Notice of Allowance for U.S. Patent Application No. 13/831,512, dated August 1, 2016.
CQ	Notice of Allowance for U.S. Patent Application No. 13/831,512, dated October 25, 2016.
CR	Notice of Allowance for U.S. Patent Application No. 13/831,512, dated January 30, 2017.
CS	Notice of Allowance for U.S. Patent Application No. 13/831,512, dated February 21, 2017.
CT	Office Action for U.S. Patent Application No. 15/396,428, dated February 16, 2018.
CU	Office Action for U.S. Patent Application No. 15/396,428, dated June 21, 2018.
CV	Office Action for U.S. Patent Application No. 15/409,723, dated April 23, 2018.
CW	Office Action for U.S. Patent Application No. 15/409,723, dated October 31, 2018.
CX	Notice of Allowance for U.S. Patent Application No. 11/183,256, dated January 13, 2009.
CY	Office Action for U.S. Patent Application No. 11/183,256, dated September 12, 2008.
CZ	Notice of Allowance for U.S. Patent Application No. 11/183,256, dated July 8, 2008.
DA	Office Action for U.S. Patent Application No. 11/183,256, dated January 25, 2008.
DB	Restriction Requirement for U.S. Patent Application No. 11/183,256, dated October 17, 2007.
DC	Restriction Requirement for U.S. Patent Application No. 11/183,256, dated June 28, 2007.
DD	Notice of Allowance for U.S. Patent Application No. 11/546,685, dated February 17, 2010.
DE	Notice of Allowance for U.S. Patent Application No. 11/546,685, dated September 18, 2009.

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DF	Office Action for U.S. Patent Application No. 11/546,685, dated March 5, 2009.
DG	Restriction Requirement for U.S. Patent Application No. 11/546,685, dated January 27, 2009.
DH	US Patent Application No. 12/803,732, filed July 1, 2010.
DI	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated September 1, 2011.
DJ	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated November 15, 2011.
DK	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated January 30, 2012.
DL	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated April 17, 2012.
DM	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated July 5, 2012.
DN	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated October 19, 2012.
DO	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated February 13, 2013.
DP	Office Action for U.S. Patent Application No. 13/291,020, dated June 4, 2012.
DQ	Office Action for U.S. Patent Application No. 13/291,020, dated April 23, 2012.
DR	Notice of Allowance for U.S. Patent Application No. 13/291,020, dated August 2, 2012.
DS	Notice of Allowance for U.S. Patent Application No. 13/291,020, dated November 2, 2012.
DT	Notice of Allowance for U.S. Patent Application No. 13/291,020, dated February 11, 2013.
DU	U.S. Patent Application No. 13/831,419, filed March 14, 2013.
DV	Office Action for U.S. Patent Application No. 13/831,419, dated April 27, 2015.
DW	Office Action for U.S. Patent Application No. 13/831,419, dated August 12, 2015.
DX	Notice of Allowance for U.S. Patent Application No. 13/831,419, dated January 28, 2016.
DY	Office Action for U.S. Patent Application No. 13/831,419, dated April 28, 2016.
DZ	Office Action for U.S. Patent Application No. 13/831,419, dated November 17, 2016.
EA	Office Action for U.S. Patent Application No. 13/831,419, dated February 1, 2017.
EB	Notice of Allowance for U.S. Patent Application No. 13/831,419, dated June 6, 2017.
EC	Office Action for U.S. Patent Application No. 13/831,419, dated October 20, 2017.
ED	Office Action for U.S. Patent Application No. 13/831,419, dated June 8, 2018.
EE	U.S. Patent Application No. 13/831,445, filed March 14, 2013.
EF	Office Action for U.S. Patent Application No. 13/831,445, dated February 20, 2015.
EG	Notice of Allowance for U.S. Patent Application No. 13/831,445, dated October 21, 2016.
EH	Notice of Allowance for U.S. Patent Application No. 13/831,445, dated January 9, 2017.
EI	Corrected Notice of Allowance for U.S. Patent Application No. 13/831,445, dated January 23, 2017.
EJ	Notice of Allowance for U.S. Patent Application No. 13/831,445, dated April 25, 2017.

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EK	Office Action for U.S. Patent Application No. 13/831,445, dated February 6, 2018.
EL	Notice of Allowance for U.S. Patent Application No. 13/831,445, dated August 8, 2018.
EM	Office Action for U.S. Patent Application No. 16/429,181, dated September 30, 2020.
EN	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated February 1, 2021.
EO	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated June 17, 2021.
EP	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated August 19, 2021.
EQ	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated October 4, 2021.
ER	Office Action for U.S. Patent Application No. 16/429,181, dated February 9, 2022.
ES	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated August 10, 2022.
ET	Office Action for U.S. Patent Application No. 16/424,018, dated June 10, 2020.
EU	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated October 20, 2020.
EV	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated March 8, 2021.
EW	Office Action for U.S. Patent Application No. 16/424,018, dated May 13, 2021.
EX	Office Action for U.S. Patent Application No. 16/424,018, dated September 3, 2021.
EY	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated November 2, 2021.
EZ	Office Action for U.S. Patent Application No. 16/424,018, dated January 24, 2022.
FA	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated June 10, 2022.
FB	Office Action for U.S. Patent Application No. 16/424,018, dated September 6, 2022.
FC	Office Action for U.S. Patent Application No. 16/424,018, dated November 25, 2022.
FD	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated February 21, 2023.
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	HC	SafeSun Sensor, User's Manual, Optix Tech Inc., June 1998, 2 pages.
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty. Docket No.	IPVCP003C11
	Application No.:	18/144,557
	Applicant	HOWELL et al.
	Filing Date	May 8, 2023
	Group	Not Yet Assigned
		Page 10 of 10

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	HF	Shades of Fun, Blinking Light Glasses, http://www.shadesoffun.com/Nov/Novpgs-14.html , downloaded July 9, 2005, pp. 1-4.
	HG	SportLine Fitness Pedometer-Model 360, UltimateFatBurner Superstore, http://www.ultimatefatburner-store.com/ac_004.html , downloaded May 10, 2005, pp. 1-2.
	HH	Steele, Bonnie G. et al., "Bodies in motion: Monitoring daily activity and exercise with motion sensors in people with chronic pulmonary disease", VA Research & Development, Journal of Rehabilitation Research & Development, Vol. 40, No. 5, September/October 2003, Supplement 2, pages 45-58.
	HI	Stevens, Kathy, "Should I Use a Pedometer When I Walk?", Healtheon/WebMD, April 14, 2000.
	HJ	Sundgot, Jørgen "2nd-gen Motorola Bluetooth headset", InfoSync World, March 1, 2003, http://www.infosync.no/news/2002/n/2841.html , pp. 1-2.
	HK	SunSensors, Segan Industries, Inc., http://www.segan-ind.com/sunsensor.htm , downloaded February 5, 2004, pp. 1-3.
	HL	SunUV™, Personal UV Monitor User's Guide, APA Optics, Inc., 2003 pp. 1-52.
	HM	SunUV™, Personal UV Monitor, APA Optics, Inc., http://www.apaoptics.com/sunuv/models.html , downloaded December 20, 2003.
	HN	Talking Pedometer, Sportline, Inc., <i>June 2001 (Possibly earlier)</i> , 1 page.
	HO	The unofficial ELSA 3D Revelator page, December 30, 1999, pp. 1-15.
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	HR	UV-Smart, UVA/B Monitor, Model EC-960-PW, Instruction Manual, Tanita Corporation of America, Inc., downloaded November 16, 2001.
	HS	Vitaminder Personal Carb Counter, http://www.auravita.com/products/AURA/ORBU11420.asp . Downloaded November 15, 2005, pp. 1-4.
	HT	Yamada et al. "Development of an eye-movement analyser possessing functions for wireless transmission and autocalibration," Med. Biol. Eng. Comput., No. 28, v.4, July 28, 1990, http://link.springer.com/article/10.1007%2FBF02446149?LI=true , pp. 1-2.

Examiner	Date Considered
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Electronic Acknowledgement Receipt	
EFS ID:	48023288
Application Number:	18144557
International Application Number:	
Confirmation Number:	1712
Title of Invention:	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT
First Named Inventor/Applicant Name:	Thomas A. Howell
Customer Number:	34071
Filer:	Peter P. Tong/Angela Nijim
Filer Authorized By:	Peter P. Tong
Attorney Docket Number:	IPVCP003C11
Receipt Date:	19-MAY-2023
Filing Date:	
Time Stamp:	13:30:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	IPVCP003C11_IDSTrans_5-23.pdf	19923	no	2
			fcee2430ae0c4d2dbd9f564212873e4511e059b1		

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	IPVCP003C11_1449_5-23.pdf	92544	no	10
			d501fa5d71f9c695d208b68c1cbbf5b978bc0e1a		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
Total Files Size (in bytes):			112467		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: HOWELL et al.

Attorney Docket No.: IPVCP003C11

Application No.: 18/144,557

Examiner: Not Yet Assigned

Filed: May 8, 2023

Group: Not Yet Assigned

Title: HEAD-WORN PERSONAL
AUDIO APPARATUS SUPPORTING
ENHANCED HEARING SUPPORT

**INFORMATION DISCLOSURE STATEMENT
37 CFR §§1.56 AND 1.97(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449 may be material to examination of the above-identified patent application. Applicants submit the list of these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application. The above-identified application is a Continuation of prior application U.S. Patent Application No. 17/873,104. This prior application is being relied upon for an earlier filing date under 35 U.S.C. § 120. Because the listed references (to the extent that copies are required) were either cited by the PTO, or submitted to the PTO in the prior application, under 37 CFR § 1.98(d) Applicants submit that copies need not be provided.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is: (i) filed within three (3) months of the filing date of the above-referenced application, (ii) believed to be filed before the mailing date of a first Office Action on the merits, or (iii) believed to be filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under §1.114.

Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-3874 (Order No. IPVCP003C11).

Respectfully submitted,

/C. Douglass Thomas/

C. Douglass Thomas
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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
18/144,557	05/08/2023		3080	IPVCP003C11	5	3

CONFIRMATION NO. 1712

FILING RECEIPT



000000005/498811

34071
IPVENTURE, INC.
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

Date Mailed: 05/25/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Thomas A. Howell, San Jose, CA;
David Chao, Saratoga, CA;
C. Douglass Thomas, Saratoga, CA;
Peter P. Tong, Mountain View, CA;

Applicant(s)

IngenioSpec, LLC, San Jose, CA;

Power of Attorney: The patent practitioners associated with Customer Number 34071

Domestic Priority data as claimed by applicant

This application is a CON of 17/873,104 07/25/2022 PAT 11,644,693
which is a CON of 17/484,080 09/24/2021
which is a CON of 16/574,254 09/18/2019 PAT 11,204,512
which is a CON of 16/049,120 07/30/2018 PAT 11,243,416
which is a CON of 15/375,423 12/12/2016 PAT 10,061,144
which is a CON of 14/557,409 12/01/2014 PAT 9,547,184
which is a CON of 13/955,336 07/31/2013 PAT 8,905,542
which is a CON of 13/085,402 04/12/2011 PAT 8,500,271
which is a CON of 11/183,269 07/15/2005 PAT 7,922,321
which claims benefit of 60/592,045 07/28/2004
and claims benefit of 60/605,191 08/28/2004
and claims benefit of 60/618,107 10/12/2004
and claims benefit of 60/620,238 10/18/2004

page 1 of 4

and claims benefit of 60/647,836 01/31/2005
and claims benefit of 60/647,826 01/31/2005

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 05/24/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/144,557**

Projected Publication Date: 08/31/2023

Non-Publication Request: No

Early Publication Request: No

Title

HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD						Application or Docket Number 18/144,557			
Substitute for Form PTO-875									
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320		
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	700		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800		
TOTAL CLAIMS (37 CFR 1.16(i))	5 minus 20 =	*				x =	0		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x =	0		
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						1260		
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0		
			TOTAL			TOTAL	3080		
* If the difference in column 1 is less than zero, enter "0" in column 2.									
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	* Minus **	=	x =			x =		
	Independent (37 CFR 1.16(h))	* Minus ***	=	x =			x =		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE			TOTAL ADD'L FEE		
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	* Minus **	=	x =			x =		
	Independent (37 CFR 1.16(h))	* Minus ***	=	x =			x =		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE			TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty. Docket No.	IPVCP003C11
	Application No.:	18/144,557
	Applicant	HOWELL et al.
	Filing Date	May 8, 2023
	Group	2872
		Page 1 of 1

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	1.	2011/0292333 A1	Dec-11	Kozaki et al.			
	2.	2012/0283894 A1	Nov-12	Naboulsi			
	3.	2,725,462	Nov-55	Vorgang			
	4.	8,582,789 B2	Nov-13	Cheung et al.			
	5.	11,630,331 B2	Apr-23	Howell et al.			
	6.	11,644,361 B2	May-23	Howell et al.			

Foreign Documents

							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

A	Notice of Allowance for U.S. Patent Application No. 17/395,509, dated December 19, 2022.
B	Notice of Allowance for U.S. Patent Application No. 17/395,509, dated April 26, 2023.
C	Notice of Allowance for U.S. Patent Application No. 17/737,866, dated January 17, 2023.
D	Notice of Allowance for U.S. Patent Application No. 17/737,866, dated May 15, 2023.
E	Office Action for U.S. Patent Application No. 16/182,969, dated January 24, 2023.
F	Notice of Allowance for U.S. Patent Application No. 17/942,347, dated April 19, 2023.
G	Notice of Allowance for U.S. Patent Application No. 17/964,853, dated March 8, 2023.
H	Office Action for U.S. Patent Application No. 18/129,660, dated May 19, 2023.

Examiner	Date Considered
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Electronic Acknowledgement Receipt	
EFS ID:	48087793
Application Number:	18144557
International Application Number:	
Confirmation Number:	1712
Title of Invention:	HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING ENHANCED HEARING SUPPORT
First Named Inventor/Applicant Name:	Thomas A. Howell
Customer Number:	34071
Filer:	Peter P. Tong/Angela Nijim
Filer Authorized By:	Peter P. Tong
Attorney Docket Number:	IPVCP003C11
Receipt Date:	01-JUN-2023
Filing Date:	08-MAY-2023
Time Stamp:	15:11:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	IPVCP003C11_IDSTrans_6-23.pdf	19089	no	2
			edf7ceccce3264172b3494edbaefc30e7914ff1b3		

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	IPVCP003C11_1449_6-23.pdf	21731	no	1
			06a570d1558fcee6a51623e114dd972233af1061		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
Total Files Size (in bytes):			40820		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: HOWELL et al.

Attorney Docket No.: IPVCP003C11

Application No.: 18/144,557

Examiner: DOCKET CENTRAL

Filed: May 8, 2023

Group: 2872

Title: HEAD-WORN PERSONAL
AUDIO APPARATUS SUPPORTING
ENHANCED HEARING SUPPORT

**INFORMATION DISCLOSURE STATEMENT
37 CFR §§1.56 AND 1.97(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

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Respectfully submitted,

/C. Douglass Thomas/

C. Douglass Thomas
Registration No. 32,947

4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

Notice of References Cited	Application/Control No. 18/144,557		Applicant(s)/Patent Under Reexamination Howell et al.	
	Examiner JIE LEI		Art Unit 2872	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20230017635-A1	01-2023	Howell; Thomas A.	G02C5/143	1/1
	B					
	C					
	D					
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	K					
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	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
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Notice of References Cited

Part of Paper No. 20230821

<i>Search Notes</i> 	Application/Control No. 18/144,557	Applicant(s)/Patent Under Reexamination Howell et al.
	Examiner JIE LEI	Art Unit 2872

CPC - Searched*		
Symbol	Date	Examiner
G02C 1/00, 11/10, 11/06, 5/001, 5/02, 5/14, 5/22, 5/146	08/21/2023	JL
G02B 27/01, 27/017, 27/0176	08/21/2023	JL

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
351	158, 41, 111, 121, 123, 124	08/21/2023	JL
359	13, 629-633	08/21/2023	JL
381	381, 327, 328, 370, 380	08/21/2023	JL

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

	/JIE LEI/ Primary Examiner, Art Unit 2872
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<i>Search Notes</i> 	Application/Control No. 18/144,557	Applicant(s)/Patent Under Reexamination Howell et al.
	Examiner JIE LEI	Art Unit 2872

Search Notes		
Search Notes	Date	Examiner
G02C 1/00, 11/10, 11/06, 5/001, 5/02, 5/14, 5/22, 5/146 class and text search	08/21/2023	JL
G02B 27/01, 27/017, 27/0176 class and text search	08/21/2023	JL
351/158, 41, 111, 121, 123, 124 class and text search	08/21/2023	JL
359/13, 629-633 class and text search	08/21/2023	JL
381/381, 327, 328, 370, 380 class and text search	08/21/2023	JL
Inventor name search	08/21/2023	JL
NPL and foreign search (google scholar, google patent, globaldossier and Dialog search)	08/21/2023	JL
PE2E text search	08/21/2023	JL
Similarity search	08/21/2023	JL

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	USPGPUB, USPAT	08/21/2023	JL

	/JIE LEI/ Primary Examiner, Art Unit 2872
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Bibliographic Data

Application No: 18/144,557

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged:

/JIE LEI/

Examiner's Signature

Initials

Title:

HEAD-WORN PERSONAL AUDIO APPARATUS SUPPORTING
ENHANCED HEARING SUPPORT

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
05/08/2023	351	2872	IPVCP003C11
RULE			

APPLICANTS

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CONTINUING DATA

This application is a CON of 17873104 07/25/2022 PAT 11644693

17873104 is a CON of 17484080 09/24/2021

17484080 is a CON of 16574254 09/18/2019 PAT 11204512

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FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

05/24/2023

STATE OR COUNTRY

UNITED STATES

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IPVENTURE, INC.
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117
UNITED STATES

FILING FEE RECEIVED

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Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty. Docket No.	IPVCP003C11
	Application No.:	18/144,557
	Applicant	HOWELL et al.
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	Group	Not Yet Assigned
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	2.						
	3.						
	4.						
	5.						

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								Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No	
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Examiner	Date Considered
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B	Office Action for U.S. Patent Application No. 11/183,269, dated May 25, 2010.
C	Final Office Action for U.S. Patent Application No. 11/183,269, dated February 17, 2010.
D	Office Action for U.S. Patent Application No. 11/183,269, dated June 23, 2009.
E	Office Action for U.S. Patent Application No. 11/183,269, dated December 4, 2008.
F	Final Office Action for U.S. Patent Application No. 11/183,269, dated June 5, 2008.
G	Office Action for U.S. Patent Application No. 11/183,269, dated October 18, 2007.
H	Restriction Requirement for U.S. Patent Application No. 11/183,269, dated June 25, 2007.
I	Office Action for U.S. Patent Application No. 13/085,402, dated April 19, 2012.
J	Notice of Allowance for U.S. Patent Application No. 13/085,402, dated August 2, 2012.
K	Notice of Allowance for U.S. Patent Application No. 13/085,402, dated November 13, 2012.
L	Notice of Allowance for U.S. Patent Application No. 13/085,402, dated February 20, 2013.
M	Notice of Allowance for U.S. Patent Application No. 13/085,402, dated June 14, 2013.
N	Office Action for U.S. Patent Application No. 13/955,336, dated December 5, 2013.
O	Notice of Allowance for U.S. Patent Application No. 13/955,336, dated April 28, 2014.
P	Notice of Allowance for U.S. Patent Application No. 13/955,336, dated August 18, 2014.
Q	Notice of Allowance for U.S. Patent Application No. 13/955,336, dated October 7, 2014.

Examiner	Date Considered
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	S	Office Action for U.S. Patent Application No. 14/557,409, dated June 11, 2015.
	T	Notice of Allowance for U.S. Patent Application No. 14/557,409, dated January 14, 2016.
	U	Notice of Allowance for U.S. Patent Application No. 14/557,409, dated April 28, 2016.
	V	Notice of Allowance for U.S. Patent Application No. 14/557,409, dated August 8, 2016.
	W	Notice of Allowance for U.S. Patent Application No. 14/557,409, dated November 4, 2016.
	X	Corrected Notice of Allowance for U.S. Patent Application No. 14/557,409, dated December 12, 2016.
	Y	Office Action for U.S. Patent Application No. 15/375,423, dated March 27, 2017.
	Z	Notice of Allowance for U.S. Patent Application No. 15/375,423, dated July 5, 2017.
	AA	Notice of Allowance for U.S. Patent Application No. 15/375,423, dated October 31, 2017.
	AB	Notice of Allowance for U.S. Patent Application No. 15/375,423, dated March 23, 2018.
	AC	Notice of Allowance for U.S. Patent Application No. 15/375,423, dated July 13, 2018.
	AD	Office Action for U.S. Patent Application No. 16/049,120, dated February 28, 2020.
	AE	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated June 3, 2020.
	AF	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated September 21, 2020.
	AG	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated February 23, 2021.
	AH	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated June 3, 2021.
	AI	Notice of Allowance for U.S. Patent Application No. 16/049,120, dated September 20, 2021.
	AJ	Notice of Allowance for U.S. Patent Application No. 16/574,254, dated April 16, 2021.
	AK	Notice of Allowance for U.S. Patent Application No. 16/574,254, dated August 9, 2021.
	AL	Office Action for U.S. Patent Application No. 16/821,810, dated February 2, 2022.
	AM	Notice of Allowance for U.S. Patent Application No. 16/821,810, dated April 6, 2022.
	AN	Notice of Allowance for U.S. Patent Application No. 16/821,810, dated October 19, 2022.
	AO	Office Action for U.S. Patent Application No. 17/484,080, dated January 21, 2022.
	AP	Notice of Allowance for U.S. Patent Application No. 17/484,080, dated May 31, 2022.
	AQ	Notice of Allowance for U.S. Patent Application No. 17/484,080, dated September 13, 2022.
	AR	Notice of Allowance for U.S. Patent Application No. 17/484,080, dated January 31, 2023.
	AS	Office Action for U.S. Patent Application No. 17/949,029, dated November 23, 2022.
	AT	Notice of Allowance for U.S. Patent Application No. 17/949,029, dated March 1, 2023.
	AU	Office Action for U.S. Patent Application No. 17/873,104, dated October 6, 2022.
	AV	Office Action for U.S. Patent Application No. 17/873,104, dated November 6, 2022.

Examiner	Date Considered
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	AW	Notice of Allowance for U.S. Patent Application No. 17/873,104, dated December 16, 2022.
	AX	Notice of Allowance for U.S. Patent Application No. 17/873,104, dated March 22, 2023.
	AY	Restriction Requirement for U.S. Patent Application No. 11/580,222, dated June 18, 2008.
	AZ	Office Action for U.S. Patent Application No. 11/580,222, dated September 12, 2008.
	BA	Office Action for U.S. Patent Application No. 11/580,222, dated January 28, 2009.
	BB	Notice of Allowance for U.S. Patent Application No. 11/580,222, dated April 20, 2009.
	BC	U.S. Patent Application No. 12/462,286, filed July 31, 2009.
	BD	Restriction Requirement for U.S. Patent Application No. 12/462,286, dated September 17, 2010.
	BE	Office Action for U.S. Patent Application No. 12/462,286, dated January 13, 2011.
	BF	Notice of Allowance for U.S. Patent Application No. 12/462,286, dated June 24, 2011.
	BG	Notice of Allowance for U.S. Patent Application No. 12/462,286, dated November 22, 2011.
	BH	Office Action for U.S. Patent Application No. 13/367,346, dated May 15, 2013.
	BI	Notice of Allowance for U.S. Patent Application No. 13/367,346, dated October 10, 2013.
	BJ	Office Action for U.S. Patent Application No. 13/367,346, dated January 28, 2014.
	BK	Notice of Allowance for U.S. Patent Application No. 13/367,346, dated August 15, 2014.
	BL	Notice of Allowance for U.S. Patent Application No. 13/367,346, dated March 19, 2015.
	BM	Office Action for U.S. Patent Application No. 14/715,501, dated September 23, 2015.
	BN	Office Action for U.S. Patent Application No. 14/715,501, dated March 25, 2016.
	BO	Office Action for U.S. Patent Application No. 14/715,501, dated October 17, 2016.
	BP	Office Action for U.S. Patent Application No. 14/715,501, dated July 20, 2017.
	BQ	Office Action for U.S. Patent Application No. 14/715,501, dated January 8, 2018.
	BR	Notice of Allowance for U.S. Patent Application No. 14/715,501, dated May 9, 2018.
	BS	Notice of Allowance for U.S. Patent Application No. 14/715,501, dated September 11, 2018.
	BT	Office Action for U.S. Patent Application No. 16/127,957, dated June 4, 2020.
	BU	Office Action for U.S. Patent Application No. 16/127,957, dated September 30, 2020.
	BV	Notice of Allowance for U.S. Patent Application No. 16/127,957, dated December 21, 2020.
	BW	Notice of Allowance for U.S. Patent Application No. 17/395,509, dated May 6, 2022.
	BX	Notice of Allowance for U.S. Patent Application No. 17/395,509, dated September 9, 2022.
	BY	Notice of Allowance for U.S. Patent Application No. 17/737,866, dated September 16, 2022.
	BZ	Notice of Allowance for U.S. Patent Application No. 16/182,969, dated January 28, 2022.
Examiner		Date Considered

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	Application No.:	18/144,557
	Applicant	HOWELL et al.
	Filing Date	May 8, 2023
	Group	Not Yet Assigned
		Page 5 of 10

CA	Office Action for U.S. Patent Application No. 16/182,969, dated June 24, 2020.
CB	Notice of Allowance for U.S. Patent Application No. 16/182,969, dated October 14, 2020.
CC	Notice of Allowance for U.S. Patent Application No. 16/182,969, dated September 1, 2021.
CD	U.S. Patent Application No. 12/806,312, filed August 10, 2010.
CE	Office Action for U.S. Patent Application No. 12/806,312, dated April 20, 2012.
CF	Office Action for U.S. Patent Application No. 12/806,312, dated September 25, 2012.
CG	Notice of Allowance for U.S. Patent Application No. 12/806,312, dated December 14, 2012.
CH	Notice of Allowance for U.S. Patent Application No. 12/806,312, dated March 29, 2013.
CI	U.S. Patent Application No. 13/831,512, filed March 14, 2013.
CJ	Office Action for U.S. Patent Application No. 13/831,512, dated June 4, 2013.
CK	Office Action for U.S. Patent Application No. 13/831,512, dated February 24, 2014.
CL	Office Action for U.S. Patent Application No. 13/831,512, dated July 2, 2014.
CM	Office Action for U.S. Patent Application No. 13/831,512, dated January 21, 2015.
CN	Office Action for U.S. Patent Application No. 13/831,512, dated May 29, 2015.
CO	Office Action for U.S. Patent Application No. 13/831,512, dated February 24, 2016.
CP	Notice of Allowance for U.S. Patent Application No. 13/831,512, dated August 1, 2016.
CQ	Notice of Allowance for U.S. Patent Application No. 13/831,512, dated October 25, 2016.
CR	Notice of Allowance for U.S. Patent Application No. 13/831,512, dated January 30, 2017.
CS	Notice of Allowance for U.S. Patent Application No. 13/831,512, dated February 21, 2017.
CT	Office Action for U.S. Patent Application No. 15/396,428, dated February 16, 2018.
CU	Office Action for U.S. Patent Application No. 15/396,428, dated June 21, 2018.
CV	Office Action for U.S. Patent Application No. 15/409,723, dated April 23, 2018.
CW	Office Action for U.S. Patent Application No. 15/409,723, dated October 31, 2018.
CX	Notice of Allowance for U.S. Patent Application No. 11/183,256, dated January 13, 2009.
CY	Office Action for U.S. Patent Application No. 11/183,256, dated September 12, 2008.
CZ	Notice of Allowance for U.S. Patent Application No. 11/183,256, dated July 8, 2008.
DA	Office Action for U.S. Patent Application No. 11/183,256, dated January 25, 2008.
DB	Restriction Requirement for U.S. Patent Application No. 11/183,256, dated October 17, 2007.
DC	Restriction Requirement for U.S. Patent Application No. 11/183,256, dated June 28, 2007.
DD	Notice of Allowance for U.S. Patent Application No. 11/546,685, dated February 17, 2010.
DE	Notice of Allowance for U.S. Patent Application No. 11/546,685, dated September 18, 2009.

Examiner	Date Considered
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	Group	Not Yet Assigned
		Page 6 of 10

DF	Office Action for U.S. Patent Application No. 11/546,685, dated March 5, 2009.
DG	Restriction Requirement for U.S. Patent Application No. 11/546,685, dated January 27, 2009.
DH	US Patent Application No. 12/803,732, filed July 1, 2010.
DI	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated September 1, 2011.
DJ	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated November 15, 2011.
DK	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated January 30, 2012.
DL	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated April 17, 2012.
DM	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated July 5, 2012.
DN	Notice of Allowance for U.S. Patent Application No. 12/803,732, dated October 19, 2012.
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DP	Office Action for U.S. Patent Application No. 13/291,020, dated June 4, 2012.
DQ	Office Action for U.S. Patent Application No. 13/291,020, dated April 23, 2012.
DR	Notice of Allowance for U.S. Patent Application No. 13/291,020, dated August 2, 2012.
DS	Notice of Allowance for U.S. Patent Application No. 13/291,020, dated November 2, 2012.
DT	Notice of Allowance for U.S. Patent Application No. 13/291,020, dated February 11, 2013.
DU	U.S. Patent Application No. 13/831,419, filed March 14, 2013.
DV	Office Action for U.S. Patent Application No. 13/831,419, dated April 27, 2015.
DW	Office Action for U.S. Patent Application No. 13/831,419, dated August 12, 2015.
DX	Notice of Allowance for U.S. Patent Application No. 13/831,419, dated January 28, 2016.
DY	Office Action for U.S. Patent Application No. 13/831,419, dated April 28, 2016.
DZ	Office Action for U.S. Patent Application No. 13/831,419, dated November 17, 2016.
EA	Office Action for U.S. Patent Application No. 13/831,419, dated February 1, 2017.
EB	Notice of Allowance for U.S. Patent Application No. 13/831,419, dated June 6, 2017.
EC	Office Action for U.S. Patent Application No. 13/831,419, dated October 20, 2017.
ED	Office Action for U.S. Patent Application No. 13/831,419, dated June 8, 2018.
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EF	Office Action for U.S. Patent Application No. 13/831,445, dated February 20, 2015.
EG	Notice of Allowance for U.S. Patent Application No. 13/831,445, dated October 21, 2016.
EH	Notice of Allowance for U.S. Patent Application No. 13/831,445, dated January 9, 2017.
EI	Corrected Notice of Allowance for U.S. Patent Application No. 13/831,445, dated January 23, 2017.
EJ	Notice of Allowance for U.S. Patent Application No. 13/831,445, dated April 25, 2017.

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EK	Office Action for U.S. Patent Application No. 13/831,445, dated February 6, 2018.
EL	Notice of Allowance for U.S. Patent Application No. 13/831,445, dated August 8, 2018.
EM	Office Action for U.S. Patent Application No. 16/429,181, dated September 30, 2020.
EN	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated February 1, 2021.
EO	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated June 17, 2021.
EP	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated August 19, 2021.
EQ	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated October 4, 2021.
ER	Office Action for U.S. Patent Application No. 16/429,181, dated February 9, 2022.
ES	Notice of Allowance for U.S. Patent Application No. 16/429,181, dated August 10, 2022.
ET	Office Action for U.S. Patent Application No. 16/424,018, dated June 10, 2020.
EU	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated October 20, 2020.
EV	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated March 8, 2021.
EW	Office Action for U.S. Patent Application No. 16/424,018, dated May 13, 2021.
EX	Office Action for U.S. Patent Application No. 16/424,018, dated September 3, 2021.
EY	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated November 2, 2021.
EZ	Office Action for U.S. Patent Application No. 16/424,018, dated January 24, 2022.
FA	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated June 10, 2022.
FB	Office Action for U.S. Patent Application No. 16/424,018, dated September 6, 2022.
FC	Office Action for U.S. Patent Application No. 16/424,018, dated November 25, 2022.
FD	Notice of Allowance for U.S. Patent Application No. 16/424,018, dated February 21, 2023.
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	Filing Date	May 8, 2023
	Group	Not Yet Assigned
		Page 8 of 10

	FM	"How is the UV Index Calculated", SunWise Program, U.S. Environmental Protection Agency, http://www.epa.gov/sunwise/uvcalc.html , downloaded 10/14/04, pp. 1-2.
	FN	"Industrial UV Measurements", APA Optics, Inc., http://www.apaoptics.com/uv/ , downloaded 7/12/2004, p.1.
	FO	"Motorola and Oakley Introduce First Bluetooth Sunglasses-Cutting Edge RAZWire Line Offers Consumers On-The-Go Connections", Motorola Mediacenter-Press Release, February 14, 2005, pp. 1-2.
	FP	"Oakley Thump: Sunglasses Meet MP3 Player", with image, http://news.designtechnica.com/article4665.html , July 13, 2004.
	FQ	"Personal UV monitor," Optics.org, http://optics.org/articles/news/6/6/7/1 (downloaded 12/20/03), June 9, 2000, pp. 1-2.
	FR	"SafeSun Personal Ultraviolet Light Meter", http://healthchecksyste.ms.com/safesun.htm , downloaded July 12, 2004, pp. 1-4.
	FS	"SafeSun Personal UV Meter", Introduction, Optix Tech Inc., http://www.safesun.com , downloaded February 5, 2004, pp. 1-2.
	FT	"SafeSun Personal UV Meter, features, Optix Tech Inc., http://www.safesun.com/features.html , downloaded May 1, 2004, pp. 1-2.
	FU	"Sharper Image - The FM Pedometer", e-Corporate Gifts.com, http://www.e-corporategifts.com/sr353.html , downloaded January 22, 2005, pp. 1-2.
	FV	"Sun UV TM Personal UV Monitor", APA Optics, Inc., http://www.apaoptics.com/sunuv/uvfacts.html , downloaded December 20, 2003, pp.1-3.
	FW	"Ultraviolet Light and Sunglasses", Oberon's Frequently Asked Questions, http://www.oberoncompany.com/OBEnglish/FAQUV.html , downloaded February 5, 2004, pp. 1-2.
	FX	"Ultraviolet Light Sensor", Barrett & Associates Engineering, http://www.barrettengineering.com/project_uv.htm , downloaded February 5, 2004, pp. 1-3.
	FY	"Ultraviolet Radiation (UVR)", Forum North, Ontario Ministry of Labour, http://www3.mb.sympatico.ca/~ericc/ULTRAVIOLET%20RADIATION.htm , downloaded February 5, 2004, pp. 1-6.
	FZ	"What Are Gripples?", Gripping Eyewear, Inc., http://www.grippingeyewear.com/whatare.html , downloaded November 2, 2005.
	GA	"With Racing Heart", Skaloud et al., GPS World, Oct. 1, 2001, http://www.gpsworld.com/gpsworld/content/printContentPopup.jsp?id=1805 , pp.1-5.
	GB	Abrisa Product Information: Cold Mirrors, Abrisa, June 2001, p. 1.
	GC	Abrisa Product Information: Commercial Hot Mirror, Abrisa, June 2001, p. 1.
	GD	Alps Spectacle, Air Conduction Glass, Bone Conduction Glass, http://www.alps-inter.com/spec.htm , downloaded December 10, 2003, pp. 1-2.
	GE	Altimeter and Compass Watches, http://store.yahoo.com/snowshack/altimeter-watches.html , downloaded 5/3/04, pp. 1-2.
	GF	Bone Conduction Headgear HG16 Series, "Voiceducer," http://www.temco-j.co.jp/html/English/HG16.html , downloaded December 10, 2003, pp. 1-3.

Examiner	Date Considered
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty. Docket No.	IPVCP003C11
	Application No.:	18/144,557
	Applicant	HOWELL et al.
	Filing Date	May 8, 2023
	Group	Not Yet Assigned
		Page 9 of 10

	GG	Carnoy, David, "The Ultimate MP3 Player for Athletes? Could be.", CNET Reviews, May 14, 2004, pp. 1-4.
	GH	Clifford, Michelle A., "Accelerometers Jump into the Consumer Goods Market", Sensors Online, http://www.sensorsmag.com , August 2004.
	GI	Comfees.com, Adjustable Sports Band Style No. 1243, http://shop.store.yahoo.com/comfees/adssportbansty.html , downloaded April 18, 2003, pp. 1-2.
	GJ	Cool Last Minute Gift Ideas! UltimateFatBurner Reviews and Articles, http://www.ultimatefatburner.com/gift-ideas.html , downloaded May 10, 2005, pp. 1-3.
	GK	Dickie et al. "Eye Contact Sensing Glasses for Attention-Sensitive Wearable Video Blogging," Human Media Lab, Queen's University, Kingston, ON K7L 3N6, Canada, est. April 2004, pp. 1-2.
	GL	Dixen, Brian, "ear-catching", Supertesten, Mobil, April 2003 (estimated), pp. 37-41.
	GM	Global Solar UV Index, A Practical Guide, World Health Organization, 2002, pages 1-28.
	GN	Grobart, Sam, "Digit-Sizing Your Computer Data", News Article, September, 2004, p. 1.
	GO	Life Monitor V1.1, Rhusoft Technologies Inc., http://www.rhusoft.com/lifemonitor/ , March 1, 2003, pp. 1-6.
	GP	Manes, Stephen, "Xtreme Cam", Forbes Magazine, September 5, 2005, pg. 96.
	GQ	Mio, PhysiCal, http://www.gophysical.com/ , downloaded January 27, 2004, 5 pages.
	GR	Monitoring Athletes Performance--2002 Winter Olympic News from KSL, Jan. 23, 2002, http://2002.ksl.com/news-3885i , pp.1-3.
	GS	NIWA, "UV Index Information", http://www.niwa.cri.nz/services/uvozone/uvi-info , downloaded July, 15, 2004, pp. 1-2.
	GT	NuVision 60GX Steroscopic Wireless Glasses, Product Information, NuVision by MacNaughton, c. 1997, MacNaughton, Inc., pp. 1-2.
	GU	Pärkkä, Juha, et al., "A Wireless Wellness Monitor for Personal Weight Management", VTT Information Technology, Tampere, Finland, November 2000 , p.1.
	GV	Pedometer, Model HJ-112, Omron Instruction Manual, Omron Healthcare, Inc., 2003, pp. 1-27.
	GW	PNY Announces Executive Attaché USB 2.0 Flash Drive and Pen Series, Press Release, PNY Technologies, Las Vegas, January 8, 2004, pp. 1-2.
	GX	PNY Technologies, "Executive Attaché" http://www.pny.com/products/flash/execattache.asp downloaded November 16, 2005.
	GY	Polar WM41 and 42 weight management monitor, http://www.simplysports/polar/weight_management/wm41-42.htm , downloaded January 28, 2004, pp. 1-3.
	GZ	Questions Answers, Pedometer.com, http://www.pedometer.com , downloaded May 5, 2005.
	HA	RazrWire, copyright Motorola, Inc., July 2005, 1 page.
	HB	SafeSun Personal UV Meter, Scientific Data, Optix Tech Inc., http://www.safesun.com/scientific.html , downloaded May 1, 2004, pp. 1-3.
	HC	SafeSun Sensor, User's Manual, Optix Tech Inc., June 1998, 2 pages.
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty. Docket No.	IPVCP003C11
	Application No.:	18/144,557
	Applicant	HOWELL et al.
	Filing Date	May 8, 2023
	Group	Not Yet Assigned
		Page 10 of 10

	HD	SafeSun, Personal UV Meter, "Technical Specifications", Optix Tech Inc., http://www.safesun.com/technical.html , downloaded July 12, 2004, pp. 1-2.
	HE	SafeSun, Personal UV Meter, Experiments, Optix Tech Inc., http://www.safesun.com/experiments.html , downloaded February 5, 2004, pp. 1-2.
	HF	Shades of Fun, Blinking Light Glasses, http://www.shadesoffun.com/Nov/Novpgs-14.html , downloaded July 9, 2005, pp. 1-4.
	HG	SportLine Fitness Pedometer-Model 360, UltimateFatBurner Superstore, http://www.ultimatefatburner-store.com/ac_004.html , downloaded May 10, 2005, pp. 1-2.
	HH	Steele, Bonnie G. et al., "Bodies in motion: Monitoring daily activity and exercise with motion sensors in people with chronic pulmonary disease", VA Research & Development, Journal of Rehabilitation Research & Development, Vol. 40, No. 5, September/October 2003, Supplement 2, pages 45-58.
	HI	Stevens, Kathy, "Should I Use a Pedometer When I Walk?", Healtheon/WebMD, April 14, 2000.
	HJ	Sundgot, Jørgen "2nd-gen Motorola Bluetooth headset", InfoSync World, March 1, 2003, http://www.infosync.no/news/2002/n/2841.html , pp. 1-2.
	HK	SunSensors, Segan Industries, Inc., http://www.segan-ind.com/sunsensor.htm , downloaded February 5, 2004, pp. 1-3.
	HL	SunUV™, Personal UV Monitor User's Guide, APA Optics, Inc., 2003 pp. 1-52.
	HM	SunUV™, Personal UV Monitor, APA Optics, Inc., http://www.apaoptics.com/sunuv/models.html , downloaded December 20, 2003.
	HN	Talking Pedometer, Sportline, Inc., <i>June 2001 (Possibly earlier)</i> , 1 page.
	HO	The unofficial ELSA 3D Revelator page, December 30, 1999, pp. 1-15.
	HP	Top Silicon PIN Photodiode, PD93-21C, Technical Data Sheet, Everlight Electronics Co., Ltd., 2004, pp 1-9.
	HQ	UV Light Meter, UVA and UVB measurement, UV-340, Instruction Manual, Lutron, <i>June 2003 (estimated)</i> , pp. 1-5.
	HR	UV-Smart, UVA/B Monitor, Model EC-960-PW, Instruction Manual, Tanita Corporation of America, Inc., downloaded November 16, 2001.
	HS	Vitaminder Personal Carb Counter, http://www.auravita.com/products/AURA/ORBU11420.asp . Downloaded November 15, 2005, pp. 1-4.
	HT	Yamada et al. "Development of an eye-movement analyser possessing functions for wireless transmission and autocalibration," Med. Biol. Eng. Comput., No. 28, v.4, July 28, 1990, http://link.springer.com/article/10.1007%2FBF02446149?LI=true , pp. 1-2.

Examiner	/JIE LEI/	Date Considered	08/21/2023
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Web Search History

date, time	web site	search string
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8/21/2023 9:21:06 AM	Google	Smart glasses technology
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8/21/2023 9:21:27 AM	Google	audio smart glasses
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date, time	web site	search string
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date, time	web site	search string
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8/21/2023 10:50:54 AM	Google Patents	Search Term 1 signal Search Term 2 patrons Search Term 3 audio Search Term 4 output signal Search Term 5 frequency Before Priority Date: priority:19780410
8/21/2023 10:51:14 AM	Google Scholar	(pivot pin) (eyeglass) (tang) (clevis) (extending)
8/21/2023 10:51:14 AM	Google Patents	Search Term 1 (pivot pin) (eyeglass) (tang) (clevis) (extending) Before Priority Date: priority:19981215
8/21/2023 10:51:15 AM	Google Scholar	pivot pin eyeglass tang clevis extending
8/21/2023 10:51:15 AM	Google Patents	Search Term 1 pivot pin Search Term 2 eyeglass Search Term 3 tang Search Term 4 clevis Search Term 5 extending Before Priority Date: priority:19981215
8/21/2023 10:51:21 AM	Google Scholar	(pivot pin) (wire) (hinge) (tang) (pin portions)

date, time	web site	search string
8/21/2023 10:51:21 AM	Google Patents	Search Term 1 (pivot pin) (wire) (hinge) (tang) (pin portions) Before Priority Date: priority:19991112
8/21/2023 10:51:22 AM	Google Scholar	pivot pin wire hinge tang pin portions
8/21/2023 10:51:22 AM	Google Patents	Search Term 1 pivot pin Search Term 2 wire Search Term 3 hinge Search Term 4 tang Search Term 5 pin portions Before Priority Date: priority:19991112
8/21/2023 10:51:40 AM	Google Scholar	(audio signal) (audio) (volume) (signal) (voice)
8/21/2023 10:51:40 AM	Google Patents	Search Term 1 (audio signal) (audio) (volume) (signal) (voice) Before Priority Date: priority:20000204
8/21/2023 10:51:41 AM	Google Scholar	audio signal audio volume signal voice
8/21/2023 10:51:41 AM	Google Patents	Search Term 1 audio signal Search Term 2 audio Search Term 3 volume Search Term 4 signal Search Term 5 voice Before Priority Date: priority:20000204
8/21/2023 10:58:27 AM	Google Scholar	(receiver) (lens frame) (eyeglasses) (temple piece) (electrical)

date, time	web site	search string
8/21/2023 10:58:27 AM	Google Patents	Search Term 1 (receiver) (lens frame) (eyeglasses) (temple piece) (electrical) Before Priority Date: priority:20011018
8/21/2023 10:58:29 AM	Google Scholar	receiver lens frame eyeglasses temple piece electrical
8/21/2023 10:58:29 AM	Google Patents	Search Term 1 receiver Search Term 2 lens frame Search Term 3 eyeglasses Search Term 4 temple piece Search Term 5 electrical Before Priority Date: priority:20011018
8/21/2023 10:58:37 AM	Google Scholar	(values) (speaker) (listener) (location) (speech)
8/21/2023 10:58:37 AM	Google Patents	Search Term 1 (values) (speaker) (listener) (location) (speech) Before Priority Date: priority:20001127
8/21/2023 10:58:38 AM	Google Scholar	values speaker listener location speech
8/21/2023 10:58:38 AM	Google Patents	Search Term 1 values Search Term 2 speaker Search Term 3 listener Search Term 4 location Search Term 5 speech Before Priority Date: priority:20001127
8/21/2023 10:58:44 AM	Google Scholar	(hearing aid) (temples) (temple) (circuit) (recess)

date, time	web site	search string
8/21/2023 10:58:44 AM	Google Patents	Search Term 1 (hearing aid) (temples) (temple) (circuit) (recess) Before Priority Date: priority:19551208
8/21/2023 10:58:45 AM	Google Scholar	hearing aid temples temple circuit recess
8/21/2023 10:58:45 AM	Google Patents	Search Term 1 hearing aid Search Term 2 temples Search Term 3 temple Search Term 4 circuit Search Term 5 recess Before Priority Date: priority:19551208
8/21/2023 10:58:51 AM	Google Scholar	(hearing aid) (temple) (temples) (microphone) (housing)
8/21/2023 10:58:51 AM	Google Patents	Search Term 1 (hearing aid) (temple) (temples) (microphone) (housing) Before Priority Date: priority:19570225
8/21/2023 10:58:53 AM	Google Scholar	hearing aid temple temples microphone housing
8/21/2023 10:58:53 AM	Google Patents	Search Term 1 hearing aid Search Term 2 temple Search Term 3 temples Search Term 4 microphone Search Term 5 housing Before Priority Date: priority:19570225
8/21/2023 10:59:07 AM	Google Scholar	(matrix) (led) (sequentially) (clock signal) (pair)

date, time	web site	search string
8/21/2023 10:59:07 AM	Google Patents	Search Term 1 (matrix) (led) (sequentially) (clock signal) (pair) Before Priority Date: priority:19781027
8/21/2023 10:59:09 AM	Google Scholar	matrix led sequentially clock signal pair
8/21/2023 10:59:09 AM	Google Patents	Search Term 1 matrix Search Term 2 led Search Term 3 sequentially Search Term 4 clock signal Search Term 5 pair Before Priority Date: priority:19781027
8/21/2023 10:59:25 AM	Google Scholar	(clothing) (speaker) (article) (enclosure) (pin)
8/21/2023 10:59:25 AM	Google Patents	Search Term 1 (clothing) (speaker) (article) (enclosure) (pin) Before Priority Date: priority:19800505
8/21/2023 10:59:26 AM	Google Scholar	clothing speaker article enclosure pin
8/21/2023 10:59:26 AM	Google Patents	Search Term 1 clothing Search Term 2 speaker Search Term 3 article Search Term 4 enclosure Search Term 5 pin Before Priority Date: priority:19800505
8/21/2023 10:59:36 AM	Google Scholar	(cell) (subject) (ultraviolet light) (ultraviolet) (predetermined value)

date, time	web site	search string
8/21/2023 10:59:36 AM	Google Patents	Search Term 1 (cell) (subject) (ultraviolet light) (ultraviolet) (predetermined value) Before Priority Date: priority:19781030
8/21/2023 10:59:37 AM	Google Scholar	cell subject ultraviolet light ultraviolet predetermined value
8/21/2023 10:59:37 AM	Google Patents	Search Term 1 cell Search Term 2 subject Search Term 3 ultraviolet light Search Term 4 ultraviolet Search Term 5 predetermined value Before Priority Date: priority:19781030
8/21/2023 10:59:51 AM	Google Scholar	(radiation) (exposure) (color) (unit) (temperature)
8/21/2023 10:59:51 AM	Google Patents	Search Term 1 (radiation) (exposure) (color) (unit) (temperature) Before Priority Date: priority:19790511
8/21/2023 10:59:52 AM	Google Scholar	radiation exposure color unit temperature
8/21/2023 10:59:52 AM	Google Patents	Search Term 1 radiation Search Term 2 exposure Search Term 3 color Search Term 4 unit Search Term 5 temperature Before Priority Date: priority:19790511
8/21/2023 11:11:58 AM	Google Scholar	(guide) (carrier) (carrier body) (guide channel) (carrier unit)

date, time	web site	search string
8/21/2023 11:11:58 AM	Google Patents	Search Term 1 (guide) (carrier) (carrier body) (guide channel) (carrier unit) Before Priority Date: priority:19650712
8/21/2023 11:12:00 AM	Google Scholar	guide carrier carrier body guide channel carrier unit
8/21/2023 11:12:00 AM	Google Patents	Search Term 1 guide Search Term 2 carrier Search Term 3 carrier body Search Term 4 guide channel Search Term 5 carrier unit Before Priority Date: priority:19650712
8/21/2023 11:12:06 AM	Google Scholar	(hinge) (bar) (plunger) (temple) (hinge pin)
8/21/2023 11:12:06 AM	Google Patents	Search Term 1 (hinge) (bar) (plunger) (temple) (hinge pin) Before Priority Date: priority:19661209
8/21/2023 11:12:08 AM	Google Scholar	hinge bar plunger temple hinge pin
8/21/2023 11:12:08 AM	Google Patents	Search Term 1 hinge Search Term 2 bar Search Term 3 plunger Search Term 4 temple Search Term 5 hinge pin Before Priority Date: priority:19661209
8/21/2023 11:12:14 AM	Google Scholar	(frame) (temple bar) (temple) (section) (hinge)

date, time	web site	search string
8/21/2023 11:12:14 AM	Google Patents	Search Term 1 (frame) (temple bar) (temple) (section) (hinge) Before Priority Date: priority:19730116
8/21/2023 11:12:15 AM	Google Scholar	frame temple bar temple section hinge
8/21/2023 11:12:15 AM	Google Patents	Search Term 1 frame Search Term 2 temple bar Search Term 3 temple Search Term 4 section Search Term 5 hinge Before Priority Date: priority:19730116
8/21/2023 11:12:20 AM	Google Scholar	(frame) (light emitting) (eyeglasses) (pair) (switch)
8/21/2023 11:12:20 AM	Google Patents	Search Term 1 (frame) (light emitting) (eyeglasses) (pair) (switch) Before Priority Date: priority:19791129
8/21/2023 11:12:22 AM	Google Scholar	frame light emitting eyeglasses pair switch
8/21/2023 11:12:22 AM	Google Patents	Search Term 1 frame Search Term 2 light emitting Search Term 3 eyeglasses Search Term 4 pair Search Term 5 switch Before Priority Date: priority:19791129
8/21/2023 11:12:33 AM	Google Scholar	(display) (earphone) (spectacles) (radio receiving) (receiving circuit)