

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 11,061,532 B2  
APPLICATION NO. : 17/169229  
DATED : July 13, 2021  
INVENTOR(S) : Sean D. Bradley et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

On Page 2, Column 1, Item (56), Line 25, under U.S. Patent Documents, delete "Bradley et al." and insert --O'Connor et al.--.

On Page 3, Column 2, Item (56), Line 7, under Other Publications, delete "www/" and insert --www.--.

In the Drawings

On Sheet 4 of 13, FIG. 4, Line 1, delete "403." and insert --403--.

In the Specification

In Column 1, Line 34, delete "Speakup™" and insert --Speakup™--.

In Column 1, Line 49, delete "Browsealoud™" and insert --Browsealoud™--.

In Column 4, Line 14, delete "W<sub>3</sub>C" and insert --W3C--.

In Column 6, Line 52, delete "mark-up" and insert --markup--.

In Column 9, Line 6, delete ""president" and insert --"President--.

In Column 9, Line 46, delete "H REF" and insert --HREF--.

In Column 17, Line 50, delete "SIT" and insert --STT--.

Signed and Sealed this  
Fifth Day of October, 2021



Drew Hirshfeld  
*Performing the Functions and Duties of the  
Under Secretary of Commerce for Intellectual Property and  
Director of the United States Patent and Trademark Office*

**REQUEST FOR CERTIFICATE OF CORRECTION**

<b>First Inventor:</b> Sean D. Bradley	<b>Conf. No.:</b> 1150
<b>App. No.:</b> 17/169229	<b>Filed:</b> February 5, 2021
<b>Patent No.:</b> 11,061,532	<b>Issue Date:</b> July 13, 2021
<b>Title:</b> MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES	

Commissioner for Patents  
Office of Data Management  
**Attention:** Certificates of Correction Branch  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Commissioner:

Enclosed for filing is a Certificate of Correction in connection with the above-identified patent.

Some of the errors cited in the Certificate of Correction appear to have been incurred through the fault of the PTO (see 35 USC § 254, 37 CFR § 1.322, and MPEP § 1480). However, because this may not apply to each item in the Certificate of Correction, the \$160 fee under 37 CFR § 1.20(a) is submitted herewith. Please charge any additional fees to our Deposit Account No. 11-1410.

Respectfully submitted,  
KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 30, 2021

By: /Bryan Johnson/  
Bryan J. Johnson  
Registration No. 77,244  
Registered Practitioner  
(949) 760-0404

54096251

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

**PATENT NO.** : 11,061,532  
**APPLICATION NO.** : 17/169229  
**ISSUE DATE** : July 13, 2021  
**INVENTOR(S)** : Sean D. Bradley et al.

Page 1 of 1

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On Sheet 4 of 13, FIG. 4, Line 1, delete "403." and insert --403--.

In Column 1, Line 34, delete "Speakup<sup>TM</sup>" and insert --Speakup<sup>TM</sup>--.

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In Column 17, Line 50, delete "SIT" and insert --STT--.

54096225

### MAILING ADDRESS OF SENDER:

Bryan J. Johnson  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
2040 Main Street, 14<sup>th</sup> Floor  
Irvine, California 92614

DOCKET NO. AUDEY.003C14

PTO/SB/44 Equivalent

Electronic Patent Application Fee Transmittal				
<b>Application Number:</b>		17169229		
<b>Filing Date:</b>		05-Feb-2021		
<b>Title of Invention:</b>		MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		
<b>First Named Inventor/Applicant Name:</b>		Sean D. Bradley		
<b>Filer:</b>		Bryan Joseph Johnson/Christina Lombardo		
<b>Attorney Docket Number:</b>		AUDEY.003C14		
Filed as Large Entity				
<b>Filing Fees for Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
CERTIFICATE OF CORRECTION	1811	1	160	160



Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Electronic Acknowledgement Receipt	
<b>EFS ID:</b>	43640799
<b>Application Number:</b>	17169229
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	1150
<b>Title of Invention:</b>	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
<b>First Named Inventor/Applicant Name:</b>	Sean D. Bradley
<b>Customer Number:</b>	20995
<b>Filer:</b>	Bryan Joseph Johnson/Wendi Manzanares
<b>Filer Authorized By:</b>	Bryan Joseph Johnson
<b>Attorney Docket Number:</b>	AUDEY.003C14
<b>Receipt Date:</b>	30-AUG-2021
<b>Filing Date:</b>	05-FEB-2021
<b>Time Stamp:</b>	20:15:55
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$160
RAM confirmation Number	E20218TK16404379
Deposit Account	111410
Authorized User	Wendi Manzanares
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.16 (National application filing, search, and examination fees)</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p>	

<b>File Listing:</b>					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	Cert_of_CorrectionAUDEY003C14.pdf	34276	no	2
			487fb91d0ec344a203b4530ec354154a0ae0b07d		
<b>Warnings:</b>					
<b>Information:</b>					
2	Fee Worksheet (SB06)	fee-info.pdf	38184	no	2
			aec4a83415cf75b7887dcdec955b4f06d3dd8ab6		
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			72460		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  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.</p>					

AO 120 (Rev. 08/10)

<b>TO:</b> <b>Mail Stop 8</b> <b>Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas, Waco Division on the following

☐ Trademarks or ☒ Patents. ( ☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:21-cv-00726	DATE FILED 7/14/2021	U.S. DISTRICT COURT Western District of Texas, Waco Division
PLAINTIFF AudioEye, Inc.		DEPENDANT accessiBe Ltd.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 10,896,286	1/19/2021	AudioEye, Inc.
2 10,928,978	2/23/2021	AudioEye, Inc.
3 10,997,361	5/4/2021	AudioEye, Inc.
4 11,029,815	6/8/2021	AudioEye, Inc.
5 11,061,532	7/13/2021	AudioEye, Inc.

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	07/13/2021	11061532	AUDEY.003C14	1150

20995 7590 06/23/2021  
KNOBBE MARTENS OLSON & BEAR LLP  
2040 MAIN STREET  
FOURTEENTH FLOOR  
IRVINE, CA 92614

## ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)** (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Sean D. Bradley, Tucson, AZ;  
AudioEye, Inc., Tucson, AZ;  
Mark D. Baker, Marietta, GA;  
Jeffrey O. Jones, Mountain Park, GA;  
Kenny P. Hefner, Buchanan, GA;  
Adam Finkelstein, Alpharetta, GA;  
Douglas J. Gilormo, Cumming, GA;  
Taylor R. Bodnar, Tucson, AZ;  
David C. Pinckney, Roswell, GA;  
Charlie E. Blevins, Atlanta, GA;  
Trevor C. Jones, Kennesaw, GA;  
Helena Laymon, Duluth, GA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit [SelectUSA.gov](http://SelectUSA.gov).

IR103 (Rev. 10/09)



# UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
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Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY.003C14	1150
20995 7590 06/09/2021 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			EXAMINER ZUBERI, MOHAMMED H	
			ART UNIT 2177	PAPER NUMBER
			NOTIFICATION DATE 06/09/2021	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jayna.cartee@knobbe.com  
efiling@knobbe.com

<b>Response to Rule 312 Communication</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	17/169,229	
	<b>Examiner</b>	<b>Art Unit</b>

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

1. ☒ The amendment filed on 04 June 2021 under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.  
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

Trevon Couch  
Publishing Division



# UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office  
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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY.003C14	1150
7590 06/08/2021 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			EXAMINER ZUBERI, MOHAMMED H	
			ART UNIT	PAPER NUMBER
			2177	
			NOTIFICATION DATE	DELIVERY MODE
			06/08/2021	ELECTRONIC

## NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 06/03/2021 in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

- ☒ The IDS lacks a statement as specified in 37 CFR 1.97(e).
- ☐ The IDS lacks the fee set forth in 37 CFR 1.17(p).
- ☐ The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

/NH/

571-272-4200 or 1-888-786-0101

FOR

Application Assistance Unit  
Office of Data Management



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Inventor	:	Bradley, Sean D.
App. No.	:	17/169229
Filed	:	February 5, 2021
For	:	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
Art Unit	:	2177
Conf. No.	:	1150

**AMENDMENT IN COMPLIANCE WITH 37 CFR 1.121**  
**RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS**

**Mail Stop Issue Fee**

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

Dear Commissioner:

This paper is filed in response to the Notice to File Corrected Application Papers mailed May 26, 2021, in connection with the above-identified patent application:

**Amendments to the Specification** begin on page 2 of this paper.

**Remarks** begin on page 3 of this paper.

**Application No.:** 17/169229  
**Filing Date:** February 5, 2021

**AMENDMENTS TO THE SPECIFICATION**

**Please amend paragraph 138 as follows:**

**[00138]**      The method of claim 31, further comprises ~~comprising~~ audibilizing the answer to the user as the answer is entered into the field.

**Application No.:** 17/169229  
**Filing Date:** February 5, 2021

**REMARKS**

In response to the Notice to File Corrected Application Papers, Applicant submits the present Amendment to the Specification, as described above. No new matter has been added.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: June 4, 2021

By: /Bryan Johnson/  
Bryan Johnson  
Registration No. 77,244  
Attorney of Record  
(212)849-3000

35092929



UNITED STATES  
PATENT AND TRADEMARK OFFICE

P.O. Box 1450  
Alexandria, VA 22313 - 1450  
www.uspto.gov

## ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #  
**17/169,229**

RECEIPT DATE / TIME  
**06/04/2021 05:26:14 PM ET**

ATTORNEY DOCKET #  
**AUDEY.003C14**

### Title of Invention

MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES

### Application Information

APPLICATION TYPE Utility - Nonprovisional Application  
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 1150

FILED BY Kim Skoff

PATENT CENTER # 60208824

FILING DATE 02/05/2021

CUSTOMER # 20995

FIRST NAMED INVENTOR Sean D. Bradley

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Bryan Johnson

### Documents

**TOTAL DOCUMENTS: 4**

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Notice.pdf	3	Miscellaneous Incoming Letter	103 KB
Response to Notice.pdf	3	-	21 KB
Response to Notice-A.NA.pdf	(1-1) 1	Amendment after Notice of Allowance (Rule 312)	16 KB
Response to Notice-SPEC.pdf	(2-2) 1	Specification	15 KB
Response to Notice-REM.pdf	(3-3) 1	Applicant Arguments/Remarks Made in an Amendment	15 KB

## Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Notice.pdf	8F5DDC5BBBC8E6A52BDFDE77972960659284AF7BFCFA3AF3 CAEEF4C7BC01F29A8A8DB2B259EB4C820F43356201A87939A 707F689C580FB970CC2C395C2170168
Response to Notice.pdf	919EE340B3928F15D10D80A8B74EA2F2DD83727DC429CF933 3E75785764CD2538AF51354B8CEE9532523185B066ABED6FF CAB1B8E11F99939886ED23D523C614
Response to Notice-A.NA.pdf	02BFA597648EA708C4DEBC387863E4F19051BD74330CF0CC5 B6F1EB78606650143183D34398352B1A50887302BD3FE93D8E 227B9D71976DBDD72A95C170985BC
Response to Notice-SPEC.pdf	2B7305A49A56B40227212E0B811188B390AE414699D319A82B 3CE46DAC5EDF6F4923A0A86E97CB863D3381689CF16EC6AE E084E96036B6B1CB4BD65A9D589F3E
Response to Notice-REM.pdf	106B64D636A44A5FA315963EF6B1A7771AC3389D75A2B07218 954EE6402F6530CB4E03C60531CA46045E9CBA0AC4BC5F67B A5BB830EF8494C7812B0C30BF1177

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 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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY 003C14	1150
20995 7590 05/26/2021 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			EXAMINER ZUBERI, MOHAMMED H	
			ART UNIT 2177	PAPER NUMBER
			NOTIFICATION DATE 05/26/2021	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jayna.cartee@knobbe.com  
efiling@knobbe.com



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

Application No. : 17169229  
Applicant : Bradley  
Filing Date : 02/05/2021  
Date Mailed : 05/26/2021

## NOTICE TO FILE CORRECTED APPLICATION PAPERS

### *Notice of Allowance Mailed*

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

**Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.**

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

*A copy of this notice **MUST** be returned with the reply. Please address response to  
"Mail Stop Issue Fee, Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450".*

/Marty Willis/  
Publication Branch  
Office of Data Management  
(571) 272-4200

**Application No. 17169229**

**SPECIFICATION REFERS TO ITS OWN PAGE/PARAGRAPH NUMBER(S) AND/OR  
SPECIFICATION REFERS TO NONEXISTENT CLAIM(S)**

- ☐ The patent will be printed in numbered columns with intercolumnar line numbers and without paragraph numbers. Any reference(s) within the applicant-filed specification to its own page number(s) or paragraph number(s) will have no meaning in the printed patent.

In response to this notice, the applicant either should file an amendment to the specification that removes the reference(s) to the page number(s) or paragraph number(s) or should submit a letter stating that the patent specification should be printed with the reference(s) to the page number(s) or paragraph number(s).

See Page(s)/Paragraph(s) .

- ☒ The specification refers by number to one or more claims that are not present in the allowed application – that is, the claim number(s) mentioned in the specification are higher than the total number of allowed claims.

In response to this notice, the applicant either should file an amendment to the specification that removes the reference(s) to the nonexistent claim(s) or should submit a letter stating that the patent specification should be printed with the reference(s) to the nonexistent claim(s).

See Page(s)/Paragraph(s) Only 20 claims are allowed but "claim 31" is cited on pg. 43 in [0138].



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	17/169229
	Filing Date	February 05, 2021
	First Named Inventor	Bradley, Sean D.
	Art Unit	2177
	Examiner	Zuberi, Mohammed H.
SHEET 1 OF 2	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	9,865,261	01-01-2018	Goenka	
	2	2010/0205523	08-01-2010	Lehota	
	3	2013/0332815	12-01-2013	Gallo	
	4	2014/0063070	03-01-2014	Leventhal	
	5	2014/0380149	12-01-2014	Gallo	
	6	2015/0370815	12-01-2015	Lee	
	7	2020/0372205	11-26-2020	Bradley et al.	
	8	16/991329**	08-12-2020	Bradley et al.	
	9	16/991405**	08-12-2020	Bradley et al.	
	10	17/168923** (Our Ref. AUDEY.003C12) including its prosecution history, the cited references, and the Office Actions therein	02-05-2021	Bradley et al.	
	11	17/169265** (Our Ref. AUDEY.003C13) including its prosecution history, the cited references, and the Office Actions therein	02-05-2021	Bradley et al.	
	12	17/169229** (Our Ref. AUDEY.003C14) including its prosecution history, the cited references, and the Office Actions therein	02-05-2021	Bradley et al.	
	13	17/169346** (Our Ref. AUDEY.003P4C2) including its prosecution history, the cited references, and the Office Actions therein	02-05-2021	Bradley et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application No.	17/169229
	Filing Date	February 05, 2021
	First Named Inventor	Bradley, Sean D.
	Art Unit	2177
(Multiple sheets used when necessary)	Examiner	Zuberi, Mohammed H.
SHEET 2 OF 2	Attorney Docket No.	AUDEY.003C14

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	14	HERNANDEZ et al., "Towards Dynamic Representation of Rich Internet Applications through Web Service Invocation," 2009 Second International Conference on Advances in Human-Oriented and Personalized Mechanisms, Technologies, and Services, Porto, Portugal, 2009, pages 33-38	
	15	AMALFITANO et al., "An Interactive Approach for the Reverse Engineering of Rich Internet Application User Interfaces," 2010 Fifth International Conference on Internet and Web Applications and Services, Barcelona, Spain, 2010, pages 401-410	

35081400

Examiner Signature	Date Considered
<p><b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

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**INFORMATION DISCLOSURE STATEMENT**

Inventor :	Sean D. Bradley	Conf. No. :	1150
App. No. :	17/169229	Filed :	February 5, 2021
Examiner :	Zuberi, Mohammed H.	Art Unit :	2177
Title :	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

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

**References and Listing**

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

**No Disclaimers**

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

**Timing of Disclosure**

This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance, or other action that closes prosecution. Applicant reserves the right to challenge any and all of the priority dates of the references listed in the Information Disclosure Statement. To the extent that these references cannot be reviewed by the Office, then please place these references in the file in accordance with 37 CFR 1.97(i).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: June 3, 2021

By: /Bryan Johnson/

Bryan Johnson  
Registration No. 77,244  
Registered Practitioner  
(212) 849-3000

35081416



UNITED STATES  
PATENT AND TRADEMARK OFFICE

P.O. Box 1450  
Alexandria, VA 22313 - 1450  
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## ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #  
**17/169,229**

RECEIPT DATE / TIME  
**06/03/2021 05:52:40 PM ET**

ATTORNEY DOCKET #  
**AUDEY.003C14**

### Title of Invention

MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES

### Application Information

APPLICATION TYPE Utility - Nonprovisional Application  
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 1150

FILED BY Kim Skoff

PATENT CENTER # 60207738

FILING DATE 02/05/2021

CUSTOMER # 20995

FIRST NAMED INVENTOR Sean D. Bradley

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Bryan Johnson

### Documents

**TOTAL DOCUMENTS: 4**

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
IDS_Listing.pdf	2	Information Disclosure Statement (IDS) Form (SB08)	25 KB
Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
IDS_Transmittal.pdf	1	Transmittal Letter	26 KB
Amalfitano_An_Alternative_Approach_2010_Fifth_International_Conference.pdf	10	Non Patent Literature	973 KB
Hernandez_Towards_Dynamic_Representation_of_Rich_In	6	Non Patent Literature	612 KB

ternet\_App\_2009\_Second\_International\_Conf.pdf

## Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
IDS_Listing.pdf	F83DCAC7F7C23805FD006C940D50D244F182392CD80EF215CEE0F7A6E130B41F71DD78B6C07725B5888E11651A0AFAAA671B7AA1DC4B252FFA3E3D205530C893
IDS_Transmittal.pdf	B021843D41A4D245AD4E4D74A900FD8071CCE87382B0ECF49B2326DFD9ABF48D67C2036062DAFF1F25F0DBF925E0D22E1C66F638E169C71800789EE3CCDA8F41
Amalfitano_An_Alternative_Approach_2010_Fifth_International_Conference.pdf	8B22B0F72030DBC66275F2C6EAF2B2761C2CBB652DAF446DE255E1AB96D77E4B39101DFC4B2114760BDDEFF1F3EEF71CA89F8111A203B6A4AE1EE63FD92017C9
Hernandez_Towards_Dynamic_Representation_of_Rich_Internet_App_2009_Second_International_Conf.pdf	7069054327EC6461FAF66F262032FDCFC853F73402845DE35959371049195E11305CEA6B0C83442AF97BFE0CEEFF6169604511B179BBAA8DB61446D773540CA6B

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 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.



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/169,229	02/05/2021	Sean D. Bradley	AUDEY.003C14

**CONFIRMATION NO. 1150**

20995  
KNOBBE MARTENS OLSON & BEAR LLP  
2040 MAIN STREET  
FOURTEENTH FLOOR  
IRVINE, CA 92614

## PUBLICATION NOTICE



\*OC000000125915611\*

**Title:**MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES

**Publication No.**US-2021-0157473-A1

**Publication Date:**05/27/2021

## NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publicly available Searchable Databases via the Internet at [www.uspto.gov](http://www.uspto.gov). The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at [www.uspto.gov](http://www.uspto.gov) using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY 003C14	1150
20995 7590 05/26/2021 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			EXAMINER ZUBERI, MOHAMMED H	
			ART UNIT 2177	PAPER NUMBER
			NOTIFICATION DATE 05/26/2021	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jayna.cartee@knobbe.com  
efiling@knobbe.com



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

Application No. : 17169229  
Applicant : Bradley  
Filing Date : 02/05/2021  
Date Mailed : 05/26/2021

## NOTICE TO FILE CORRECTED APPLICATION PAPERS

### *Notice of Allowance Mailed*

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

**Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.**

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

*A copy of this notice **MUST** be returned with the reply. Please address response to  
"Mail Stop Issue Fee, Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450".*

/Marty Willis/  
Publication Branch  
Office of Data Management  
(571) 272-4200



**Application No. 17169229**

**SPECIFICATION REFERS TO ITS OWN PAGE/PARAGRAPH NUMBER(S) AND/OR  
SPECIFICATION REFERS TO NONEXISTENT CLAIM(S)**

- ☐ The patent will be printed in numbered columns with intercolumnar line numbers and without paragraph numbers. Any reference(s) within the applicant-filed specification to its own page number(s) or paragraph number(s) will have no meaning in the printed patent.

In response to this notice, the applicant either should file an amendment to the specification that removes the reference(s) to the page number(s) or paragraph number(s) or should submit a letter stating that the patent specification should be printed with the reference(s) to the page number(s) or paragraph number(s).

See Page(s)/Paragraph(s) .

- ☒ The specification refers by number to one or more claims that are not present in the allowed application – that is, the claim number(s) mentioned in the specification are higher than the total number of allowed claims.

In response to this notice, the applicant either should file an amendment to the specification that removes the reference(s) to the nonexistent claim(s) or should submit a letter stating that the patent specification should be printed with the reference(s) to the nonexistent claim(s).

See Page(s)/Paragraph(s) Only 20 claims are allowed but "claim 31" is cited on pg. 43 in [0138].



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY.003C14	1150
7590 05/25/2021 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			EXAMINER ZUBERI, MOHAMMED H	
			ART UNIT 2177	PAPER NUMBER
			NOTIFICATION DATE 05/25/2021	DELIVERY MODE ELECTRONIC

## NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 5/19/2021 in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

- ☐ The IDS lacks a statement as specified in 37 CFR 1.97(e).
- ☐ The IDS lacks the fee set forth in 37 CFR 1.17(p).
- ☒ The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

*N. Horne, for*  
571-272-4200 or 1-888-786-0101  
Application Assistance Unit  
Office of Data Management

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application No.	17/169229
	Filing Date	February 5, 2021
	First Named Inventor	Sean D. Bradley
	Art Unit	2177
(Multiple sheets used when necessary)	Examiner	Zuberi, Mohammed H.
SHEET 1 OF 2	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	
	1	8,613,039	12-17-2013	Chen		
	2	10,222,942	03-05-2019	Zeiler		
	3	10,394,579	08-27-2019	Nandakumar et al.		
	4	2002/0124025	09-05-2002	Janakiraman et al.		
	5	2002/0158903	10-31-2002	Janakiraman et al.		
	6	2004/0148568	07-29-2004	Springer		
	7	2010/0205523	08-12-2010	Lehota et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	8	Bigham, <i>Increasing Web Accessibility by Automatically Judging Alternative Text Quality</i> , 12th International Conference on Intelligent User Interfaces, IUI 2007, Honolulu, Hawaii, USA, pp. 349-352, alleged to be available at <a href="https://dl.acm.org/doi/10.1145/1216295.1216364">https://dl.acm.org/doi/10.1145/1216295.1216364</a>	
	9	CamFind - <i>The First Visual Search Engine Goes Social</i> , PR Newswire alleged to be available at <a href="https://www.prnewswire.com/news-releases/camfind---the-first-visual-search-engine-goes-social-300067412.html">https://www.prnewswire.com/news-releases/camfind---the-first-visual-search-engine-goes-social-300067412.html</a>	
	10	Cundiff, <i>Alt Text Bot</i> , DevPost alleged to be available at: <a href="https://devpost.com/software/alt-text-bot-hgzu">https://devpost.com/software/alt-text-bot-hgzu</a>	
	11	Declaration of Dr. James Fogarty in support of Petition for Inter Partes Review of U.S. Patent No. 10,444,934	
	12	Declaration of Scott Delman submitted in connection with the Petition for IPR review of U.S. Patent No. 10,444,934	
	13	Document Object Model (DOM) Level 1 Specification v1.0, W3C Recommendation ("W3C DOM")	
	14	Dove, <i>CamFind Launches CloudSight API for Multiplatform Visual Search Functionality</i> , The Next Web alleged to be available at <a href="https://thenextweb.com/creativity/2015/02/24/camfind-launches-cloudsight-api-for-multiplatform-visual-search-functionality/">https://thenextweb.com/creativity/2015/02/24/camfind-launches-cloudsight-api-for-multiplatform-visual-search-functionality/</a>	
	15	<i>History of the Web Content Accessibility Guidelines (WCAG)</i> , Bureau of Internet Accessibility alleged to be available at: <a href="https://www.boia.org/blog/history-of-the-web-content-accessibility-guidelines-wcag">https://www.boia.org/blog/history-of-the-web-content-accessibility-guidelines-wcag</a>	
	16	HTML Techniques for Web Content Accessibility Guidelines 1.0, W3C Note ("WCAG HTML Techniques v1.0")	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	17/169229
	Filing Date	February 5, 2021
	First Named Inventor	Sean D. Bradley
	Art Unit	2177
	Examiner	Zuberi, Mohammed H.
SHEET 2 OF 2	Attorney Docket No.	AUDEY.003C14

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	17	Janakiraman, MSV, <i>Google Cloud Vision API Delivers Sophisticated Image Recognition Service to Developers</i> , Forbes Magazine alleged to be available at: <a href="https://www.forbes.com/sites/janakirammsv/2015/12/03/google-cloud-vision-api-delivers-sophisticated-image-recognition-service-to-developers/?sh=4f7706bc6d22">https://www.forbes.com/sites/janakirammsv/2015/12/03/google-cloud-vision-api-delivers-sophisticated-image-recognition-service-to-developers/?sh=4f7706bc6d22</a>	
	18	Kar, <i>AlchemyAPI Release API based AI Image Processing AlchemyVision</i> , Silicon Angle alleged to be available at <a href="https://siliconangle.com/2014/05/20/alchemyapi-releases-api-based-ai-image-processing-alchemyvision/">https://siliconangle.com/2014/05/20/alchemyapi-releases-api-based-ai-image-processing-alchemyvision/</a>	
	19	Mobile Accessibility: <i>How WCAG 2.0 and Other W3C/WAI Guidelines Apply to Mobile</i> alleged to be available at: <a href="https://www.w3.org/TR/mobile-accessibility-mapping/">https://www.w3.org/TR/mobile-accessibility-mapping/</a>	
	20	Mohammad et al., <i>A Survey of Image Retrieval Techniques for Search Engine</i> , International Journal of Scientific & Engineering Research, Volume 6, Issue 7, pp. 1868-88	
	21	Novet. J., <i>How Stephen Wolfram's Image-Recognition Tool Performs Against 5 Alternatives</i> , VentureBeat alleged to be available at <a href="https://venturebeat.com/2015/05/16/how-stephen-wolframs-image-recognition-tool-performs-against-5-alternatives/">https://venturebeat.com/2015/05/16/how-stephen-wolframs-image-recognition-tool-performs-against-5-alternatives/</a>	
	22	Petition for <i>Inter Partes</i> Review of U.S. Patent No. 10,444,934 dated May 12, 2021 in 90 pages	
	23	Reinhard et al., <i>Toward Knowledge-Enhanced Viewing Using Encyclopedias And Model-Based Segmentation</i> , Proc. SPIE 7260, Medical Imaging 2009: Computer-Aided Diagnosis, 72601D; doi: 10.1117/12.811587	
	24	Techniques for Web Content Accessibility Guidelines 1.0, W3C Note ("WCAG Techniques v1.0")	
	25	Web Content Accessibility Guidelines (WCAG) v1.0, W3C (WCAG v1.0)	
	26	Web Content Accessibility Guidelines (WCAG) v2.0 ("WCAG 2.0")	
	27	Web Accessibility Evaluation Tools List alleged to be available at: <a href="https://www.w3.org/TR/mobile-accessibility-mapping/">https://www.w3.org/TR/mobile-accessibility-mapping/</a>	

34996455

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

---

**INFORMATION DISCLOSURE STATEMENT**

First Inventor	:	Sean D. Bradley
App. No.	:	17/169229
Filed	:	February 5, 2021
For	:	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
Examiner	:	Zuberi, Mohammed H.
Art Unit	:	2177
Conf. No.	:	1150

---

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P.O. Box 1450  
Alexandria, VA 22313-1450

**References and Listing**

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

**No Disclaimers**

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

**Timing of Disclosure**

This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance, or other action that closes prosecution. Applicant reserves the right to challenge any and all of the priority dates of the references listed in the Information Disclosure Statement. To the extent that these references cannot be reviewed by the Office, then please place these references in the file in accordance with 37 CFR 1.97(i).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: May 19, 2021

By: /Thomas Y. Yee/  
Thomas Y. Yee  
Registration No. 57,013  
Registered Practitioner  
(212) 849-3000

34996504

Electronic Acknowledgement Receipt	
EFS ID:	42760203
Application Number:	17169229
International Application Number:	
Confirmation Number:	1150
Title of Invention:	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
First Named Inventor/Applicant Name:	Sean D. Bradley
Customer Number:	20995
Filer:	Thomas Yee/Kim Skoff
Filer Authorized By:	Thomas Yee
Attorney Docket Number:	AUDEY.003C14
Receipt Date:	19-MAY-2021
Filing Date:	05-FEB-2021
Time Stamp:	11:49:11
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	Non Patent Literature	Bigham_Increasing_web_accessibility.pdf	1067816	no	4
			2b3749d4e8ed5c7d31fc7860c5216d11dfb b8b37		

### Warnings:

Information:					
2	Non Patent Literature	CamFind_first_visual_2015.pdf	1723355	no	5
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Warnings:					
Information:					
3	Non Patent Literature	Cundiff_Alt_Text_Bot.pdf	433382	no	6
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Warnings:					
Information:					
4	Non Patent Literature	Declaration_of_James_Fogarty_Part1.pdf	25865484	no	58
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Warnings:					
Information:					
5	Non Patent Literature	Declaration_of_James_Fogarty_Part2.pdf	25714863	no	58
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Information:					
6	Non Patent Literature	Declaration_of_James_Fogarty_Part3.pdf	19532464	no	42
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Information:					
7	Non Patent Literature	Declaration_of_Scott_Delmar.pdf	919145	no	2
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Warnings:					
Information:					
8	Non Patent Literature	Document_object_model_1998.pdf	1843850	no	169
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Warnings:					
Information:					

9	Non Patent Literature	Dove_2015.pdf	1857715	no	4
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Warnings:					
Information:					
10	Non Patent Literature	History_of_web_content_2019.pdf	4058322	no	4
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11	Non Patent Literature	HTML_techniques_2000.pdf	2042864	no	56
			b224672411ce741082d737f5e170274e94444736		
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Information:					
12	Non Patent Literature	Janakiraman_google_2015.pdf	1572621	no	4
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Information:					
13	Non Patent Literature	Kar_Alchemy_API_2014.pdf	542399	no	3
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Information:					
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Information:					
15	Non Patent Literature	Mohammed_Survey.pdf	1373038	no	21
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Warnings:					
Information:					



16	Non Patent Literature	Novet_2015.pdf	1524710	no	10
			f72c572c8e85990d9219c5c086ad2339f9428617		
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Information:					
17	Non Patent Literature	Petition_for_Inter_Partес_Review.pdf	855089	no	90
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Information:					
18	Non Patent Literature	Reinhard_Toward_Knowledge.pdf	2615852	no	10
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19	Non Patent Literature	Techniques_for_web_content_2000.pdf	864439	no	23
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20	Non Patent Literature	Web_content_accesibility_2008_Part1.pdf	24763003	no	14
			166b128fd1b41c07b5c0b0de6a627b15b565deaa		
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21	Non Patent Literature	Web_content_accesibility_2008_Part2.pdf	25400341	no	14
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22	Non Patent Literature	Web_content_accesibility_2008_Part3.pdf	1189079	no	1
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Warnings:					
Information:					

23	Non Patent Literature	Web_content_accessibility_1999.pdf	1263202	no	34
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Information:					
24	Non Patent Literature	Web_accessibility_evaluation_tools.pdf	1198704	no	23
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Warnings:					
Information:					
25	Information Disclosure Statement (IDS) Form (SB08)	IDS_Listing.pdf	41207	no	2
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Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
26	Transmittal Letter	IDS_Transmittal.pdf	18416	no	1
			ed5e3e664488f9268a2941c8800ac285322a4b3b		
Warnings:					
Information:					
Total Files Size (in bytes):			174137910		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b> 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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b> 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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b> 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.</p>					

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 7 OF 12	Attorney Docket No.	AUDEY.003C14

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	111	2005/0160065	07-21-2005	Seeman	
	112	2005/0195077	09-08-2005	McCulloch et al.	
	113	2006/0212466	09-21-2006	Hyder et al.	
	114	2007/0100628	05-03-2007	Bodin et al.	
	115	2008/0133500	06-05-2008	Edwards	
	116	2008/0168049	07-10-2008	Gao et al.	
	117	2008/0208593	08-28-2008	Ativanichayaphong et al.	
	118	2008/0235564	09-25-2008	Erol et al.	
	119	2010/0070872	03-18-2010	Trujillo	
	120	2010/0251217	09-01-2010	Miller	
	121	2010/0114578	05-06-2010	Yuen et al	
	122	2010/0166165	07-01-2010	Langseth et al.	
	123	2011/0154212	<del>0-23-2011</del>	Garpure et al. 06/2011	
	124	2011/0295623	12-01-2011	Behringer et al.	
	125	2011/0307855	12-15-2011	Scoda et al.	
	126	2012/0116872	05-10-2012	Hicken et al.	
	127	2012/0176509	07-12-2012	Aravamudan et al.	
	128	2012/0216243	08-01-2012	Gill	
	129	2012/0239405	09-20-2012	O'Connor et al.	
	130	2012/0240045	09-20-2012	Bradley et al.	
	131	2012/0254723	10-04-2012	Kasa et al.	
	132	2012/0322384	12-20-2012	Zerr et al.	
	133	2013/0073949	03-21-2013	Barrell	
	134	2013/0305139	11-14-2013	Scoda	
	135	2013/0104029	04-25-2013	Hendry et al.	
	136	2014/0047337	02-13-2014	Bradley et al.	
	137	2014/0149447	05-29-2014	Scoda	

Change(s) applied  
to document  
/S.D./  
5/6/2021

Examiner Signature <b>/MOHAMMED H ZUBERI/</b>	Date Considered <b>04/21/2021</b>
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

**ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.H.Z/**

**ACCESSIBE LTD EXHIBIT 1004**

**Page 39 of 229**

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 6 OF 12	Attorney Docket No.	AUDEY.003C14

## U.S. PATENT DOCUMENTS

Changes applied  
to document,  
/S.D./  
5/6/2021

Examiner Initials	Citation No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	87	10,896,286 (Our Ref. AUDEY.003P4), including its prosecution history, the cited references, and the Office Actions therein	<del>08-12-2020</del> 01/2021	Bradley et al.	
	88	2002/0003547	01-10-2002	Wang	
	89	2002/0007379	01-17-2002	Wang	
	90	2002/0010584	01-24-2002	Schultz et al.	
	91	2002/0010715	01-24-2002	Chinn et al.	
	92	2002/0023020	02-21-2002	Kenyon et al.	
	93	2002/0065658	05-30-2002	Kanevsky et al.	
	94	2002/0074396	06-20-2002	Rathus et al.	
	95	2002/0124020	09-05-2002	Janakiraman et al .	
	96	2002/0122053	09-05-2002	Dutta	
	97	2002/0194388	12-19-2002	Boloker et al.	
	98	2002/0198705	12-26-2002	Burnett	
	99	2003/0033434	02-13-2003	Kavacheri et al.	
	100	2003/0098803	05-29-2003	Gourgey et al.	
	101	2003/0115546	06-19-2003	Dubey et al.	
	102	2003/0158737	08-21-2003	Csicsatka	
	103	2004/0002808	01-01-2004	Hashimoto et al.	
	104	2004/0006478	01-08-2004	Alpdemir et al.	
	105	2004/0056882	03-25-2004	Foreman et al.	
	106	2004/0128136	07-01-2004	Irani	
	107	2004/0158429	08-01-2004	Bary	
	108	2004/0218451	11-04-2004	Said, et al.	
	109	2004/0254988	12-01-2004	Rodriguez	
	110	2005/0108338	05-19-2005	Simske et al.	

Examiner Signature <b>/MOHAMMED H ZUBERI/</b>	Date Considered <b>04/21/2021</b>
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.H.Z/

**ACCESSIBE LTD EXHIBIT 1004**

**Page 40 of 229**

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 4 OF 12	Attorney Docket No.	AUDEY.003C14

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	66	9,996,613	06-12-2018	Jadhav et al.	
	67	10,015,226	07-03-2018	Scoda et al.	
	68	10,037,318	07-31-2018	Liu	
	69	10,049,089	08-14-2018	Scoda et al.	
	70	10,116,726	10-30-2018	Scoda	
	71	10,120,847	11-06-2018	Scoda	
	72	10,198,414	02-05-2019	Scoda	
	73	10,237,334	03-19-2019	Alexander et al.	
	74	10,282,401	05-07-2019	Scoda	
	75	10,218,775	02-026-2019	Scoda	
	76	10,423,709 (Our Ref. AUDEY.002A), including its prosecution history, the cited references, and the Office Actions therein	09-24-2019	Bradley et al.	
Change(s) applied to document, /S.D./ 5/6/2021	<del>77</del>	10,425,501	<del>08-09-2016</del>	Nasson et al.	
	78	10,444,934 (Our Ref. AUDEY.003A), including its prosecution history, the cited references, and the Office Actions therein	10-15-2019	Bradley et al.	
	79	10,452,730	10-22-2019	Scoda	
	80	10,762,280 (Our Ref. AUDEY.002C1), including its prosecution history, the cited references, and the Office Actions therein	09-01-2020	Bradley et al.	

Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.H.Z/

ACCESSIBE LTD EXHIBIT 1004

Page 41 of 229

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 3 OF 12	Attorney Docket No.	AUDEY.003C14

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	39	8,589,484	11-19-2013	Scoda	
	40	8,650,474	02-11-2014	Scoda	
	41	8,868,638	10-21-2014	Scoda	
	42	8,855,423	10-07-2014	Boncyk et al.	
	43	8,694,319	04-08-2014	Bodin et al.	
	44	8,874,716	08-22-2000	Daiwa Seiko Inc. (Withdrawn)	
	45	8,983,935	03-17-2015	Scoda	
	46	8,984,164	03-17-2015	Scoda	
	47	8,903,978	12-02-2014	Zerr et al.	
	48	8,990,392	03-01-2015	Stamos	
	49	9,208,783	12-08-2015	Ativanichayaphong et al.	
	50	9,268,753	02-23-2016	Hendry et al.	
	51	9,275,023	03-01-2016	Scoda	
	52	9,311,281	04-12-2016	Scoda	
	53	9,319,244	04-19-2016	Taylor et al.	
	54	9,356,574	05-31-2016	Denninghoff	
	55	9,384,183	07-05-2016	Kasa et al.	
	56	9,473,592	10-18-2016	Scoda	
	57	9,547,633	01-17-2017	Scoda	
	58	9,727,660	08-08-2017	Barrell et al.	
	59	9,736,245	08-15-2017	Scoda	
	60	9,736,524	08-15-2017	Aravamudan et al.	
	61	9,846,572	12-19-2017	Scoda	
	62	9,846,686	12-19-2017	Scoda	
	63	9,875,671	01-23-2018	Gharpure et al.	
	64	9,876,776	01-23-2018	Scoda	
	65	9,971,636	05-15-2018	Scoda et al.	

Change(s) applied  
to document,  
/S.D./  
5/6/2021

Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.H.Z/

**ACCESSIBE LTD EXHIBIT 1004**

**Page 42 of 229**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Inventor	:	Sean D. Bradley
App. No.	:	17/169229
Filed	:	February 5, 2021
For	:	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
Examiner	:	Zuberi, Mohammed H.
Art Unit	:	2177
Conf. No.	:	1150

**COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE**

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

Dear Sir:

In response to the Statement of Reasons for Allowance in the Notice of Allowance dated April 27, 2021, the Applicant respectfully submits the following comments. Applicant acknowledges the Statement of Reasons for Allowance in the above-referenced patent application and agrees that the claimed subject matter is patentable. However, Applicant takes no position regarding the Reasons for Allowance presented by the Examiner and therefore respectfully traverses them. Therefore, the Examiner's Reasons for Allowance should not be attributed to Applicant as an indication of the basis for Applicant's belief that the claims are patentable. Additionally, Applicant respectfully disagrees with the Examiner's Statement of Reasons for Allowance to the extent it may suggest that a given claim requires limitations that are not explicitly recited therein. Also, to the extent that there is any implication that the patentability of the claims rests on the recitation of one or more features, Applicant respectfully disagrees with the Examiner's Statement because it is the combination of features that makes the claims patentable and not any particular feature or sub-combination of elements.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Dated: April 28, 2021

By: /Bryan Johnson/  
Bryan J. Johnson  
Registration No. 77,244  
Registered Practitioner  
(212) 849-3000

34871258





UNITED STATES  
PATENT AND TRADEMARK OFFICE

P.O. Box 1450  
Alexandria, VA 22313 - 1450  
www.uspto.gov

## ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #  
**17/169,229**

RECEIPT DATE / TIME  
**04/28/2021 06:32:46 PM ET**

ATTORNEY DOCKET #  
**AUDEY.003C14**

### Title of Invention

MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES

### Application Information

APPLICATION TYPE Utility - Nonprovisional Application  
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 1150

FILED BY Kim Skoff

PATENT CENTER # 60184822

FILING DATE 02/05/2021

CUSTOMER # 20995

FIRST NAMED INVENTOR Sean D. Bradley

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Bryan Johnson

### Documents

**TOTAL DOCUMENTS: 2**

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Issue Fee Transmittal.pdf	-	Issue Fee Payment (PTO-85B)	201 KB
Comments.pdf	2	Miscellaneous Incoming Letter	18 KB

### Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Issue Fee Transmittal.pdf	4FE3D6D9F316A97D8D6BBD3CCBFE7417AADA5F481EA04D84 6103B056CA614D34FC328665DB77F6BAE6B7774FB6AB65902 7B150C199947EC75C020C1CC7008741

Comments.pdf

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2BE8F7664DEE82A4803CBE84526DACD057EB84E3EF483E0B  
34F407F3270466795A4D424396F3A28

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 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.



**UNITED STATES  
PATENT AND TRADEMARK OFFICE**

P.O. Box 1450  
Alexandria, VA 22313 - 1450  
www.uspto.gov

## ELECTRONIC PAYMENT RECEIPT

APPLICATION #  
17/169,229

RECEIPT DATE / TIME  
04/28/2021 06:32:46 PM ET

ATTORNEY DOCKET #  
AUDEY.003C14

### Title of Invention

MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES

### Application Information

APPLICATION TYPE Utility - Nonprovisional Application  
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 1150

FILED BY Kim Skoff

PATENT CENTER # 60184822

AUTHORIZED BY Bryan Johnson

CUSTOMER # 20995

FILING DATE 02/05/2021

CORRESPONDENCE  
ADDRESS -

FIRST NAMED  
INVENTOR Sean D. Bradley

### Payment Information

PAYMENT METHOD  
CARD / 8210

PAYMENT TRANSACTION ID  
E20214RI33420867

PAYMENT AUTHORIZED BY  
Melanie Terrazas

PRE-AUTHORIZED ACCOUNT  
111410

PRE-AUTHORIZED CATEGORY  
37 CFR 1.16 (National application filing, search, and examination fees); 37  
CFR 1.17 (Patent application and reexamination processing fees)

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1501	UTILITY ISSUE FEE	1200.00	1	1200.00
TOTAL AMOUNT:				\$1,200.00

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 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.

# **PART B - FEE(S) TRANSMITTAL**

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20995 7590 04/27/2021  
KNOBBE MARTENS OLSON & BEAR LLP  
2040 MAIN STREET  
FOURTEENTH FLOOR  
IRVINE, CA 92614

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY.003C14	1150

TITLE OF INVENTION: MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	07/27/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
ZUBERI, MOHAMMED H	2177	715-747000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Knobbe Martens Olson & Bear LLP

2 \_\_\_\_\_

3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

AudioEye, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Tucson, Arizona

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 11-1410

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

**NOTE:** Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

**NOTE:** If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

**NOTE:** Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

**NOTE:** This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Bryan Johnson/

Date 2021-04-28

Typed or printed name Bryan Johnson

Registration No. 77,244



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

20995 7590 04/27/2021  
KNOBBE MARTENS OLSON & BEAR LLP  
2040 MAIN STREET  
FOURTEENTH FLOOR  
IRVINE, CA 92614

EXAMINER

ZUBERI, MOHAMMED H

ART UNIT

PAPER NUMBER

2177

DATE MAILED: 04/27/2021

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nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	07/27/2021

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at [www.uspto.gov/PatentMaintenanceFees](http://www.uspto.gov/PatentMaintenanceFees).**

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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY.003C14	1150

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nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	07/27/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
ZUBERI, MOHAMMED H	2177	715-747000

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1 \_\_\_\_\_

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(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies \_\_\_\_\_

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Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY.003C14	1150
20995 7590 04/27/2021 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			EXAMINER ZUBERI, MOHAMMED H	
			ART UNIT 2177	PAPER NUMBER

DATE MAILED: 04/27/2021

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.



## OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 1.14. This collection is estimated to take 30 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, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

### 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.

<b>Notice of Allowability</b>	<b>Application No.</b> 17/169,229	<b>Applicant(s)</b> Bradley et al.	
	<b>Examiner</b> MOHAMMED H ZUBERI	<b>Art Unit</b> 2177	<b>AIA (FITF) Status</b> Yes

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communication filed 2/5/2021.  
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on \_\_\_\_\_.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_\_; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 42-61. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto:PPHfeedback@uspto.gov).

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

**Certified copies:**  
a) ☐ All      b) ☐ Some      \*c) ☐ None of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**  
1. ☒ Notice of References Cited (PTO-892)  
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 2/5/2021.  
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material \_\_\_\_\_.  
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date. 4/20/2021.  
5. ☐ Examiner's Amendment/Comment  
6. ☒ Examiner's Statement of Reasons for Allowance  
7. ☐ Other \_\_\_\_\_.

/MOHAMMED H ZUBERI/ Primary Examiner, Art Unit 2177	
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**DETAILED ACTION**

Claims **42-61** are pending in the case. Claims **42 and 52** are independent claims. Claims 1-41 have been cancelled via preliminary amendment filed **3/24/2021**.

***Information Disclosure Statement***

The information disclosure statement (IDS) submitted on **2/5/2021**, is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

***Drawings***

The drawings filed on **2/5/2021** have been accepted by the Examiner.

### REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The prior art of record discusses aspects of the claimed invention, however the combination of cited prior art fails to teach the all of features claimed. The closest prior art of record discuss aspects of the features present in the claims, however they fail to individually, or in combination, teach each of the features present in the allowable claims.

**Blitzstein (USPUB 20150106686 A1)**, discusses generating content rules and additional content for a webpage, the content rules directed to providing accessibility content to visually impaired users. Additional fields, images, descriptions, text or other information may be added to existing webpage simply by creating rules for the inclusion of the additional content and storing the rules and the additional content to the rules database. Additional content may be derived based on standards and guidelines provided, and utilized in the analysis of a web page. A web page is provided to a client device, a determination is made as to whether there is a rule set and additional content available for the URL in a rules database, if a match is found then rule set is accessed which includes additional content to be injected into the webpage (0044-56).

**Hendry (USPUB 20130104029)** discusses automated addition of accessibility features to documents, wherein a first document is analyzed to identify a first set of one or more tags and responsive to identifying the first set of one or more tags, automatically producing a second document based in part on first set of one or more tags, where the second document includes one or more accessibility features that were not in the first document.

**Trujillo (USPUB 20100070872)** discusses adaptive techniques used to render dynamic web content for accessibility software applications, such as screen readers, additional content is rendered on the webpage to screen reader applications, and is placed at the position of the screen reader focus.

**Bradley (USPUB 20120240045)** discusses audio files representing files intended primarily for viewing being created and organized into hierarchies that mimic those of the original files as instantiated at the original websites so as to provide access to visually impaired users with access to and navigation of the audio files in a way that mimics the original website.

**Edwards (USPUB 20080133500)** discusses a website evaluation and recommendation tool which accesses a website, evaluates the website, and provides recommended changes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMMED H ZUBERI whose telephone number is (571)270-7761. The examiner can normally be reached on Monday-Thursday 10AM-8PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cesar Paula can be reached on 571-272-4128. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**/MOHAMMED H ZUBERI/  
Primary Examiner, Art Unit 2177**

<b><i>Examiner-Initiated Interview Summary</i></b>	<b>Application No.</b> 17/169,229	<b>Applicant(s)</b> Bradley et al.		
	<b>Examiner</b> MOHAMMED H ZUBERI	<b>Art Unit</b> 2177	<b>AIA (First Inventor to File) Status</b> Yes	<b>Page</b> 1 of 1

<b>All Participants</b> (applicant, applicants representative, PTO personnel)	<b>Title</b>	<b>Type</b>
MOHAMMED H ZUBERI	Primary Examiner	Telephonic
TOM YEE	Attorney of Record	

**Date of Interview:** 20 April 2021

**Issues Discussed:**

**Non-statutory Double Patenting**

Discussed a double patenting rejection that would be overcome with the filing of a Terminal Disclaimer. Agreement was reached.

/MOHAMMED H ZUBERI/ Primary Examiner, Art Unit 2177	
<p><b>Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicant's responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04</b></p> <p>Please further see: MPEP 713.04 Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b) 37 CFR § 1.2 Business to be transacted in writing</p>	

**Applicant recordation instructions:** It is not necessary for applicant to provide a separate record of the substance of interview.

**Examiner recordation instructions:** Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

<b>Notice of References Cited</b>	Application/Control No. 17/169,229		Applicant(s)/Patent Under Reexamination Bradley et al.	
	Examiner MOHAMMED H ZUBERI		Art Unit 2177	Page 1 of 3

#### U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-10739984-B1	08-2020	Apicella; Nicola	G06F3/038	1/1
*	B	US-10311751-B2	06-2019	Beraneek; Nicholas	G06F3/0236	1/1
*	C	US-10452758-B1	10-2019	Bhowmick; Diptendu	H04L67/02	1/1
*	D	US-9514238-B2	12-2016	Blitzstein; Jared	G06F16/9566	1/1
*	E	US-10444934-B2	10-2019	Bradley; Sean D.	G06F3/04817	1/1
*	F	US-10896286-B2	01-2021	Bradley; Sean D.	G06F16/951	1/1
*	G	US-10867120-B1	12-2020	Bradley; Sean D.	G06F40/14	1/1
*	H	US-10762280-B2	09-2020	Bradley; Sean D.	G06F40/226	1/1
*	I	US-8448084-B2	05-2013	Brichter; Loren	G06F3/0485	715/784
*	J	US-10141006-B1	11-2018	Burciu; Alexandru	G06F3/167	1/1
*	K	US-9146675-B2	09-2015	Chen; Li-Ju	G06F3/0485	1/1
*	L	US-9632800-B1	04-2017	Chorley; Mary Drechsler	G06Q50/22	1/1
*	M	US-10402159-B1	09-2019	Darrah; Lawrence Edward	G06F16/957	1/1

#### 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)
	U	
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	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  
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20210421



<b>Notice of References Cited</b>	Application/Control No. 17/169,229		Applicant(s)/Patent Under Reexamination Bradley et al.	
	Examiner MOHAMMED H ZUBERI		Art Unit 2177	Page 2 of 3

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*	A	US-9811602-B2	11-2017	Dewar; Amy H.	G06F16/986	1/1
*	B	US-10276148-B2	04-2019	Fleizach; Christopher B.	G10L13/0335	1/1
*	C	US-8572549-B2	10-2013	Ganesh; Jai	G06F11/3672	717/101
*	D	US-8260903-B2	09-2012	Ganesh; Jai	G06Q10/06	709/223
*	E	US-9875671-B2	01-2018	Gharpure; Chaitanya	G06F16/9535	1/1
*	F	US-8769169-B2	07-2014	Grieves; Jason A.	G06F16/957	710/52
*	G	US-10642468-B2	05-2020	Guido; Robin	G06F3/04842	1/1
*	H	US-9715557-B2	07-2017	Kim; Sang-Heun	G06F40/143	1/1
*	I	US-8438485-B2	05-2013	Kulis; Zachary R.	G06F16/64	715/727
*	J	US-10481752-B2	11-2019	Latheef; Sudhin Vellooparambil	H04L51/04	1/1
*	K	US-8255827-B2	08-2012	Malik; Manish	G06F16/9535	715/789
*	L	US-10761804-B2	09-2020	Miron; Amihai	G06F11/3438	1/1
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	Examiner MOHAMMED H ZUBERI		Art Unit 2177	Page 3 of 3

**U.S. PATENT DOCUMENTS**

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*	A	US-9767487-B2	09-2017	Schechter; Greg	G06Q30/0271	1/1
*	B	US-9489131-B2	11-2016	Seymour; Eric Taylor	G06F3/0485	1/1
*	C	US-9569795-B1	02-2017	Shin; Youngin	G06Q30/0201	1/1
*	D	US-9575624-B2	02-2017	Voorhees; Garald Lee	G09B21/006	1/1
	E					
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	S					
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**NON-PATENT DOCUMENTS**

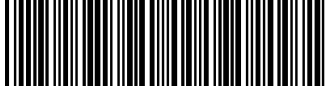
*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	W	
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office  
PTO-892 (Rev. 01-2001)

**Notice of References Cited**

Part of Paper No. 20210421

<b>Issue Classification</b> 	<b>Application/Control No.</b> 17/169,229	<b>Applicant(s)/Patent Under Reexamination</b> Bradley et al.
	<b>Examiner</b> MOHAMMED H ZUBERI	<b>Art Unit</b> 2177

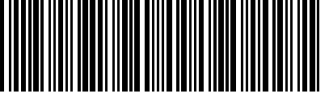
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G10L	/	15	/	22	I	2013-01-01
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G06F	/	40	/	117	I	2020-01-01
G06F	/	3	/	0482	I	2013-01-01
G10L	/	13	/	027	I	2013-01-01
G10L	/	15	/	26	I	2013-01-01
H04L	/	67	/	22	I	2013-01-01
G06F	/	3	/	167	I	2013-01-01
G06F	/	40	/	143	I	2020-01-01
H04L	/	67	/	02	A	2013-01-01
G10L	/	2015	/	221	A	2013-01-01
G10L	/	13	/	02	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
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NONE		<b>Total Claims Allowed:</b>	
(Assistant Examiner)	(Date)	20	
/MOHAMMED H ZUBERI/	21 April 2021	O.G. Print Claim(s)	O.G. Print Figure
Primary Examiner, Art Unit 2177	(Date)	1	13

U.S. Patent and Trademark Office

Part of Paper No.: 20210421

<b>Issue Classification</b> 	<b>Application/Control No.</b> 17/169,229	<b>Applicant(s)/Patent Under Reexamination</b> Bradley et al.
	<b>Examiner</b> MOHAMMED H ZUBERI	<b>Art Unit</b> 2177

<b>INTERNATIONAL CLASSIFICATION</b>				
<b>CLAIMED</b>				
G06F	/	17	/	00

<b>NON-CLAIMED</b>				
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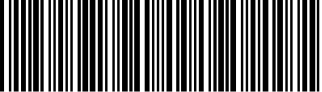
<b>US ORIGINAL CLASSIFICATION</b>	
<b>CLASS</b>	<b>SUBCLASS</b>

<b>CROSS REFERENCES(S)</b>						
<b>CLASS</b>	<b>SUBCLASS (ONE SUBCLASS PER BLOCK)</b>					

NONE		<b>Total Claims Allowed:</b>	
(Assistant Examiner)	(Date)	20	
/MOHAMMED H ZUBERI/ Primary Examiner, Art Unit 2177	21 April 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	13

U.S. Patent and Trademark Office

Part of Paper No.: 20210421


<b>Issue Classification</b> 	<b>Application/Control No.</b> 17/169,229	<b>Applicant(s)/Patent Under Reexamination</b> Bradley et al.
	<b>Examiner</b> MOHAMMED H ZUBERI	<b>Art Unit</b> 2177

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47															
<b>CLAIMS</b>															
<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>
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NONE  (Assistant Examiner) _____ (Date) _____		<b>Total Claims Allowed:</b> 20	
/MOHAMMED H ZUBERI/ Primary Examiner, Art Unit 2177 (Primary Examiner) _____ (Date) 21 April 2021		O.G. Print Claim(s) 1	O.G. Print Figure 13

U.S. Patent and Trademark Office

Part of Paper No.: 20210421

<b><i>Search Notes</i></b> 	<b>Application/Control No.</b> 17/169,229	<b>Applicant(s)/Patent Under Reexamination</b> Bradley et al.
	<b>Examiner</b> MOHAMMED H ZUBERI	<b>Art Unit</b> 2177


CPC - Searched*		
Symbol	Date	Examiner
G06F3/04817	04/21/2021	/MZ/
G06F40/117	04/21/2021	/MZ/
G06F40/14	04/21/2021	/MZ/
G06F3/0482	04/21/2021	/MZ/
G06F3/167	04/21/2021	/MZ/
G10L13/027	04/21/2021	/MZ/
G10L15/22	04/21/2021	/MZ/
G10L15/26	04/21/2021	/MZ/
H04L67/22	04/21/2021	/MZ/

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

/MOHAMMED H ZUBERI/ Primary Examiner, Art Unit 2177	
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<b><i>Search Notes</i></b> 	<b>Application/Control No.</b> 17/169,229	<b>Applicant(s)/Patent Under Reexamination</b> Bradley et al.
	<b>Examiner</b> MOHAMMED H ZUBERI	<b>Art Unit</b> 2177

Search Notes		
Search Notes	Date	Examiner
EAST	04/21/2021	/MZ/
Classification + Keyword search (EAST)	04/21/2021	/MZ/
IP.com	04/21/2021	/MZ/
PALM Inventor Search	04/21/2021	/MZ/

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	EAST	04/21/2021	/MZ/

/MOHAMMED H ZUBERI/ Primary Examiner, Art Unit 2177	
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## EAST Search History

### EAST Search History (Interference)

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PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 1 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,918,223	06-29-1999	Blum et al.	
	2	5,930,752	07-27-1999	Kawaguchi et al	
	3	5,991,781	11-23-1999	Nielsen	
	4	6,092,039	07-18-2000	Zingher	
	5	6,240,448	05-29-2001	Imielinski et al	
	6	6,606,374	08-12-2003	Rokoff et al.	
	7	6,665,642	12-16-2003	Kanevsky et al.	
	8	6,742,021	05-25-2004	Halverson et al.	
	9	6,751,544	06-15-2004	Hashimoto et al.	
	10	6,940,953	09-06-2005	Eberle et. Al	
	11	6,959,279	10-25-2005	Jackson et al.	
	12	6,934,684	08-23-2005	Alpdemir et al.	
	13	7,028,306	04-11-2006	Boloker et al.	
	14	7,106,220	09-12-2006	Gourgey et al.	
	15	7,124,366	10-17-2006	Foreman et al.	
	16	7,174,293	02-06-2007	Kenyon et al.	
	17	7,181,692	02-20-2007	Siegel	
	18	7,194,411	03-20-2007	Slotznick et al.	
	19	7,194,752	03-20-2007	Kenyon et al.	
	20	7,219,136	05-15-5007	Danner et al.	
	21	7,246,058	07-17-2007	Burnett	
	22	7,284,255	10-16-2007	Apel et al.	
	23	7,546,531	06-09-2009	Celik	
	24	7653544 (Our Ref. AUDEY.004A1) including its prosecution history, the cited references, and the Office Actions therein	01-26-2010	Bradley et al.	

Examiner Signature / <b>MOHAMMED H ZUBERI</b> /	Date Considered <b>04/21/2021</b>
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.H.Z/

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Page 69 of 229

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
SHEET 2 OF 12		Attorney Docket No. AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	25	7,702,674	04-20-2010	Hyder et al.	
	26	7,810,087	10-01-2010	O'Brien	
	27	7,966,184	06-21-2011	Bradley et al.	
	28	8046229 (Our Ref. AUDEY.004C1) including its prosecution history, the cited references, and the Office Actions therein	10-25-2011	Bradley et al.	
	29	8,055,713	11-08-2011	Simske et al.	
	30	8,090,800	01-03-2012	Yee	
	31	8,103,956	01-24-2012	Trujillo	
	32	8260616 (Our Ref. AUDEY.005A2), including its prosecution history, the cited references, and the Office Actions therein	09-04-2012	O'Connor et al.	
	33	8,296,150 (Our Ref. AUDEY.004A2), including its prosecution history, the cited references, and the Office Actions therein	10-23-2012	Bradley et al.	
	34	8,321,502	11-27-2012	Scoda	
	35	8,452,600	05-28-2013	Fleizach	
	36	8,516,362	08-20-2013	Scoda	
	37	8,527,862	09-03-2013	Scoda et al.	
	38	8,589,169 (Our Ref. AUDEY.004C2) including its prosecution history, the cited references, and the Office Actions therein	11-19-2013	Bradley et al.	

Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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Page 70 of 229

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
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	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 3 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
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	39	8,589,484	11-19-2013	Scoda	
	40	8,650,474	02-11-2014	Scoda	
	41	8,868,638	10-21-2014	Scoda	
	42	8,855,423	10-07-2014	Boncyk et al.	
	43	8,694,319	04-08-2014	Bodin et al.	
	44	8,874,716	08-22-2000	Daiwa Seiko Inc.	
	45	8,983,935	03-17-2015	Scoda	
	46	8,984,164	03-17-2015	Scoda	
	47	8,903,978	12-02-2014	Zerr et al.	
	48	8,990,392	03-01-2015	Stamos	
	49	9,208,783	12-08-2015	Ativanichayaphong et al.	
	50	9,268,753	02-23-2016	Hendry et al.	
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	53	9,319,244	04-19-2016	Taylor et al.	
	54	9,356,574	05-31-2016	Denninghoff	
	55	9,384,183	07-05-2016	Kasa et al.	
	56	9,473,592	10-18-2016	Scoda	
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	58	9,727,660	08-08-2017	Barrell et al.	
	59	9,736,245	08-15-2017	Scoda	
	60	9,736,524	08-15-2017	Aravamudan et al.	
	61	9,846,572	12-19-2017	Scoda	
	62	9,846,686	12-19-2017	Scoda	
	63	9,875,671	01-23-2018	Gharpure et al.	
	64	9,876,776	01-23-2018	Scoda	
	65	9,971,636	05-15-2018	Scoda et al.	

Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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Page 71 of 229

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
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	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 4 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	66	9,996,613	06-12-2018	Jadhav et al.	
	67	10,015,226	07-03-2018	Scoda et al.	
	68	10,037,318	07-31-2018	Liu	
	69	10,049,089	08-14-2018	Scoda et al.	
	70	10,116,726	10-30-2018	Scoda	
	71	10,120,847	11-06-2018	Scoda	
	72	10,198,414	02-05-2019	Scoda	
	73	10,237,334	03-19-2019	Alexander et al.	
	74	10,282,401	05-07-2019	Scoda	
	75	10,218,775	02-026-2019	Scoda	
	76	10,423,709 (Our Ref. AUDEY.002A), including its prosecution history, the cited references, and the Office Actions therein	09-24-2019	Bradley et al.	
	77	10,425,501	06-09-2016	Nasson et al.	
	78	10,444,934 (Our Ref. AUDEY.003A), including its prosecution history, the cited references, and the Office Actions therein	10-15-2019	Bradley et al.	
	79	10,452,730	10-22-2019	Scoda	
	80	10,762,280 (Our Ref. AUDEY.002C1), including its prosecution history, the cited references, and the Office Actions therein	09-01-2020	Bradley et al.	

Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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ACCESSIBE LTD EXHIBIT 1004

Page 72 of 229

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 5 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	81	10860173(Our Ref. AUDEY.003C10), including its prosecution history, the cited references, and the Office Actions therein	12-08-2020	Bradley et al.	
	82	10,809,877 (Our Ref. AUDEY.003C4), including its prosecution history, the cited references, and the Office Actions therein	10-20-2020	Bradley et al.	
	83	10,845,946 (Our Ref. AUDEY.003C3), including its prosecution history, the cited references, and the Office Actions therein	11-24-2020	Bradley et al.	
	84	10,845,947 (Our Ref. AUDEY.003C5), including its prosecution history, the cited references, and the Office Actions therein	11-24-2020	Bradley et al.	
	85	10,866,691 (Our Ref. AUDEY.003C7), including its prosecution history, the cited references, and the Office Actions therein	12-15-2020	Bradley et al.	
	86	10,867,120 (Our Ref. AUDEY.003P2), including its prosecution history, the cited references, and the Office Actions therein	12-15-2020	Bradley et al.	

Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
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ACCESSIBE LTD EXHIBIT 1004

Page 73 of 229

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 6 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	87	10,896,286 (Our Ref. AUDEY.003P4), including its prosecution history, the cited references, and the Office Actions therein	08-12-2020	Bradley et al.	
	88	2002/0003547	01-10-2002	Wang	
	89	2002/0007379	01-17-2002	Wang	
	90	2002/0010584	01-24-2002	Schultz et al.	
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	92	2002/0023020	02-21-2002	Kenyon et al.	
	93	2002/0065658	05-30-2002	Kanevsky et al.	
	94	2002/0074396	06-20-2002	Rathus et al.	
	95	2002/0124020	09-05-2002	Janakiraman et al .	
	96	2002/0122053	09-05-2002	Dutta	
	97	2002/0194388	12-19-2002	Boloker et al.	
	98	2002/0198705	12-26-2002	Burnett	
	99	2003/0033434	02-13-2003	Kavacheri et al.	
	100	2003/0098803	05-29-2003	Gourgey et al.	
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	102	2003/0158737	08-21-2003	Csicsatka	
	103	2004/0002808	01-01-2004	Hashimoto et al.	
	104	2004/0006478	01-08-2004	Alpdemir et al.	
	105	2004/0056882	03-25-2004	Foreman et al.	
	106	2004/0128136	07-01-2004	Irani	
	107	2004/0158429	08-01-2004	Bary	
	108	2004/0218451	11-04-2004	Said, et al.	
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Page 74 of 229

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 7 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	111	2005/0160065	07-21-2005	Seeman	
	112	2005/0195077	09-08-2005	McCulloch et al.	
	113	2006/0212466	09-21-2006	Hyder et al.	
	114	2007/0100628	05-03-2007	Bodin et al.	
	115	2008/0133500	06-05-2008	Edwards	
	116	2008/0168049	07-10-2008	Gao et al.	
	117	2008/0208593	08-28-2008	Ativanichayaphong et al.	
	118	2008/0235564	09-25-2008	Erol et al.	
	119	2010/0070872	03-18-2010	Trujillo	
	120	2010/0251217	09-01-2010	Miller	
	121	2010/0114578	05-06-2010	Yuen et al	
	122	2010/0166165	07-01-2010	Langseth et al.	
	123	2011/0154212	0-23-2011	Gharpure et al.	
	124	2011/0295623	12-01-2011	Behringer et al.	
	125	2011/0307855	12-15-2011	Scoda et al.	
	126	2012/0116872	05-10-2012	Hicken et al.	
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	128	2012/0216243	08-01-2012	Gill	
	129	2012/0239405	09-20-2012	O'Connor et al.	
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	132	2012/0322384	12-20-2012	Zerr et al.	
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	134	2013/0305139	11-14-2013	Scoda	
	135	2013/0104029	04-25-2013	Hendry et al.	
	136	2014/0047337	02-13-2014	Bradley et al.	
	137	2014/0149447	05-29-2014	Scoda	

Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
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Page 75 of 229

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
SHEET 8 OF 12		Attorney Docket No. AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	138	2014/0164352	06-12-2014	Denninghoff	
	139	2014/0195653	07-10-2014	Alexander et al.	
	140	2014/0365860	12-11-2014	Spielberg et al.	
	141	2015/0106686	04-16-2015	Blitzstein	
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	146	2016/0337426	11-17-2016	Shribman	
	147	2017/0111431	04-20-2017	Scoda et al.	
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	154	2018/0293504	10-01-2018	Meruva	
	155	2018/0239516	08-23-2018	Scoda	
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	157	2019/0075081	03-07-2019	Adam	
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	160	2020/0372205	11-26-2020	Bradley et al.	
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Page 76 of 229



PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 9 OF 12	Attorney Docket No.	AUDEY.003C14

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Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	162	16/991381**	08-12-2020	Bradley et al.	
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Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
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**Page 77 of 229**

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 10 OF 12	Attorney Docket No.	AUDEY.003C14

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
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Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
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Page 78 of 229

PTO/SB/08 Equivalent

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	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 11 OF 12	Attorney Docket No.	AUDEY.003C14

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
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	236	WO2016057092A1	04-14-2016	USABLENET INC.		
	237	WO 2017/161008	09-21-2017	AUDIOEYE, INC.		

Examiner Signature	/MOHAMMED H ZUBERI/	Date Considered	04/21/2021
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ACCESSIBE LTD EXHIBIT 1004

Page 79 of 229

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
<i>(Multiple sheets used when necessary)</i>	Examiner	Unassigned
SHEET 12 OF 12	Attorney Docket No.	AUDEY.003C14

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	238	Sensus Internet Browser, printed from www/sensus.dk/sibl0uk.htm on Jul. 23, 2002.	
	239	International Search Report and Written Opinion of PCT/US17/22542 dated June 20, 2017 in 10 pages	
	240	International Preliminary Report on Patentability dated January 25, 2019 for International Application No. PCT/US2017/022542 in 36 pages	
	241	European Search Report and Written Opinion of EP 17767449.6 dated October 15, 2019 in 10 pages	
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	243	Sato et al., "Accessibility Evaluation based on Machine Learning Technique", October 22-25, 2006, Portland, Oregon, USA, ACM, pages: 2 (Year: 2006)	
	244	SCHIAVONE et al., "An extensible environment for guideline-based accessibility evaluation of dynamic Web applications", Univ Access Inf Soc., January 2015, 22 pages	
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\*\*Reference is co-owned by Applicant and signature indicates consideration of publication and file history, including references cited and office actions issued therein. The Examiner has access to these materials through PTO computer systems. If additional copies are desired, please notify Applicant through its attorneys.

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## Bibliographic Data

Application No: 17/169,229

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /MOHAMMED H ZUBERI/

Examiner's Signature

Initials

Title:

MODULAR SYSTEMS AND METHODS FOR SELECTIVELY  
ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES

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FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/05/2021	715	2177	AUDEY.003C14
RULE			

### APPLICANTS

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### INVENTORS

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### CONTINUING DATA

This application is a CON of 17147323 01/12/2021

17147323 is a CON of 16430210 06/03/2019 PAT 10928978

16430210 is a CON of 15074818 03/18/2016 PAT 10444934

### FOREIGN APPLICATIONS

#### IF REQUIRED, FOREIGN LICENSE GRANTED\*\*

02/18/2021

### STATE OR COUNTRY

UNITED STATES

**ADDRESS**

KNOBBE MARTENS OLSON & BEAR LLP  
2040 MAIN STREET  
FOURTEENTH FLOOR  
IRVINE, CA 92614  
UNITED STATES

**FILING FEE RECEIVED**

\$6,160

<b>Doc Code: DIST.E.FILE</b> <b>Document Description: Electronic Terminal Disclaimer - Filed</b>		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce	
Electronic Petition Request	<b>TERMINAL DISCLAIMER TO OBTAIN A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT</b>		
Application Number	17169229		
Filing Date	05-Feb-2021		
First Named Inventor	Sean Bradley		
Attorney Docket Number	AUDEY.003C14		
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		
<input checked="" type="checkbox"/> Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action  <input checked="" type="checkbox"/> This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.			
Owner		Percent Interest	
AudioEye, Inc.		100%	
<p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>10845947</p> <p>as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p> <p>In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:</p> <ul style="list-style-type: none"> <li>- expires for failure to pay a maintenance fee;</li> <li>- is held unenforceable;</li> <li>- is found invalid by a court of competent jurisdiction;</li> <li>- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;</li> <li>- has all claims canceled by a reexamination certificate;</li> <li>- is reissued; or</li> <li>- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.</li> </ul> <p><input checked="" type="radio"/> Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.</p>			

<input type="radio"/> I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status:  <input type="radio"/> Small Entity  <input type="radio"/> Micro Entity  <input checked="" type="radio"/> Regular Undiscounted	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES  I certify, in accordance with 37 CFR 1.4(d)(4) that I am:  <input checked="" type="radio"/> An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application  Registration Number <u>57013</u>  <input type="radio"/> A sole inventor  <input type="radio"/> A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application  <input type="radio"/> A joint inventor; all of whom are signing this request	
Signature	/Thomas Yee/
Name	Thomas Yee

\*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).  
 Form PTO/SB/96 may be used for making this certification. See MPEP § 324.



Electronic Patent Application Fee Transmittal				
<b>Application Number:</b>		17169229		
<b>Filing Date:</b>		05-Feb-2021		
<b>Title of Invention:</b>		MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		
<b>First Named Inventor/Applicant Name:</b>		Sean D. Bradley		
<b>Filer:</b>		Thomas Yee		
<b>Attorney Docket Number:</b>		AUDEY.003C14		
Filed as Large Entity				
<b>Filing Fees for Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	170	170
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				170

Doc Code: DISQ.E.FILE  
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 17169229

Filing Date: 05-Feb-2021

Applicant/Patent under Reexamination: Bradley

Electronic Terminal Disclaimer filed on April 20, 2021

☒ APPROVED

**This patent is subject to a terminal disclaimer**

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
<b>EFS ID:</b>	42503363
<b>Application Number:</b>	17169229
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	1150
<b>Title of Invention:</b>	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
<b>First Named Inventor/Applicant Name:</b>	Sean D. Bradley
<b>Customer Number:</b>	20995
<b>Filer:</b>	Thomas Yee
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	AUDEY.003C14
<b>Receipt Date:</b>	20-APR-2021
<b>Filing Date:</b>	05-FEB-2021
<b>Time Stamp:</b>	22:25:47
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$170
RAM confirmation Number	E20214JM25432111
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

<b>File Listing:</b>					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33440	no	2
			5071b9750a477eae493dab8a5ad79dea4643fbb0		
<b>Warnings:</b>					
<b>Information:</b>					
2	Fee Worksheet (SB06)	fee-info.pdf	30378	no	2
			735d1d8ebb413f9b57203e45674d7ff204e95c12		
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			63818		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>          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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>          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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>          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.</p>					

AUDEY.003C14

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Inventor	:	Sean D. Bradley
App. No.	:	17/169229
Filed	:	February 5, 2021
For	:	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
Examiner	:	Unassigned
Art Unit	:	2177
Conf. No.	:	1150

**PRELIMINARY AMENDMENT**

**Mail Stop Amendment**

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

Dear Commissioner:

Please enter the following amendment prior to examination of this application.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2  
of this paper.

**Remarks/Arguments** begin on page 6 of this paper.

**Application No.:** 17/169229  
**Filing Date:** February 5, 2021

### **REMARKS**

Applicant submits this Preliminary Amendment prior to examination. Claims 1-41 were previously pending in this Application. Claims 1-41 have been cancelled. New Claims 42-61 have been added. Applicant reserves the right to pursue subject matter of the original claims and/or previously pending versions of the claims in this application and/or in continuing applications.

#### *No Disclaimers or Disavowals*

Although the present communication may include alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 24, 2021

By: /THOMAS Y. YEE/

Thomas Y. Yee  
Registration No. 57,013  
Registered Practitioner  
(212) 849-3000

34659523



UNITED STATES  
PATENT AND TRADEMARK OFFICE

P.O. Box 1450  
Alexandria, VA 22313 - 1450  
www.uspto.gov

## ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #  
**17/169,229**

RECEIPT DATE / TIME  
**03/24/2021 01:39:13 PM ET**

ATTORNEY DOCKET #  
**AUDEY.003C14**

### Title of Invention

MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES

### Application Information

APPLICATION TYPE Utility - Nonprovisional Application  
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 1150

FILED BY Kim Skoff

PATENT CENTER # 60164699

FILING DATE 02/05/2021

CUSTOMER # 20995

FIRST NAMED INVENTOR Sean D. Bradley

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Thomas Yee

### Documents

**TOTAL DOCUMENTS: 3**

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
Preliminary_amendment.pdf		6	-	38 KB
Preliminary_amendment-A.PE.pdf	(1-1)	1	Preliminary Amendment	17 KB
Preliminary_amendment-CLM.pdf	(2-5)	4	Claims	27 KB
Preliminary_amendment-REM.pdf	(6-6)	1	Applicant Arguments/Remarks Made in an Amendment	20 KB

### Digest



DOCUMENT	MESSAGE DIGEST(SHA-512)
Preliminary_amendment.pdf	0D17090A237640ED0AB9185648BA2694491EBDDDB56DB2181B E0586749721BEB406C78A151FF5E298FD7FCFAB3F9CE9DDF C3A522D655BF4D4FB2E846B4B80ED13
Preliminary_amendment- A.PE.pdf	5764437B17D166467656F35B625F2313A1185A532AD0465C11F C834227AC86863A1904AA6472859D132376B24E47DE2D22030 CF83BAF07DA126168F6AA9533C4
Preliminary_amendment- CLM.pdf	C0B9B9B24CA23471A492545553CE88A5B380C2CCC07858E07 2F9EEB729ABD2F5B45F1EA4A45132C34D19C405A60E1ECC2 BDB7E2899523351A3D2E179A3EE6AF0
Preliminary_amendment- REM.pdf	EF8A4ECC84C2FA9581D454F83447C2552F9A3DA3F3ED9E1C 809ED1962F18324150766D1762E8377FAECAB17B0006CCDFE D38A6557D200D64D6D489785A9FBCC8

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 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.

## **AMENDMENTS TO THE CLAIMS**

### **1-41 (Cancelled)**

42. (New) A computer-implemented method of programmatically assigning a descriptive attribute to an untagged element on a web page to enable an audible description of the untagged element, the web page having an associated document object model (DOM), the method comprising:

dynamically analyzing, by a computer system, code associated with the web page, the code comprising at least the DOM or HTML code;

detecting, by the computer system, one or more compliance issues relating to web accessibility standards in the code, wherein at least one of the one or more compliance issues comprises the untagged element lacking an adequate descriptive attribute;

applying, by the computer system, one or more pre-existing remediations to the one or more compliance issues, wherein the one or more pre-existing remediations is generated by a remote server system performing at least:

accessing the code associated with the web page;

receiving, by the remote server system, via a remediation interface input from a user, the input comprising a remediation action to manually remediate a non-programmatically-fixable compliance issue associated with the web page;

generating, by the remote server system, the one or more pre-existing remediations based on the input comprising the remediation action to manually remediate a non-programmatically-fixable compliance issue;

storing, by the remote server system, the one or more pre-existing remediations in an electronic data storage medium; and

assigning, by the computer system, a descriptive attribute to the untagged element in the code of the web page based on the one or more pre-existing remediations, the descriptive attribute assigned to the untagged element adapted to enable an assistive technology to speak the descriptive attribute to a user.

43. (New) The computer-implemented method of Claim 42, wherein the one or more pre-existing remediations are javascript.

44. (New) The computer-implemented method of Claim 42, wherein the untagged element is an input field.

45. (New) The computer-implemented method of Claim 42, wherein the untagged element is an image.

46. (New) The computer-implemented method of Claim 42, wherein the untagged element is a title element.

47. (New) The computer-implemented method of Claim 42, wherein the untagged element lacks the adequate descriptive attribute when one or more descriptive attributes of the untagged element are erroneous.

48. (New) The computer-implemented method of Claim 42, wherein the assigning comprises changing the DOM or HTML code associated with the web page.

49. (New) The computer-implemented method of Claim 42, wherein the descriptive attribute is an HTML label.

50. (New) The computer-implemented method of Claim 42, wherein the descriptive attribute is an alt-text label.

51. (New) The computer-implemented method of Claim 42, wherein the computer system comprises one or more computing systems.

52. (New) A non-transitory electronic storage medium with computer code stored thereon, the computer code configured to programmatically assign a descriptive attribute to an element on a web page to enable an audible description of the element, the web page having an associated document object model (DOM), and the computer code configured to perform, when executed by a computer processor, the steps of:

dynamically analyzing, by a computer system, code associated with the web page, the code comprising at least the DOM or HTML code;

detecting, by the computer system, one or more compliance issues relating to web accessibility standards in the code, wherein at least one of the one or more compliance issues comprises the element lacking an adequate descriptive attribute;

applying, by the computer system, one or more pre-existing remediations to the one or more compliance issues, wherein the one or more pre-existing remediations is generated by a remote server system performing at least:

accessing the code associated with the web page;

receiving, by the remote server system, via a remediation interface input from a user, the input comprising a remediation action to manually remediate a non-programmatically-fixable compliance issue associated with the web page;

generating, by the remote server system, the one or more pre-existing remediations based on the input comprising the remediation action to manually remediate a non-programmatically-fixable compliance issue;

storing, by the remote server system, the one or more pre-existing remediations in an electronic data storage medium; and

assigning, by the computer system, a descriptive attribute to the element in the code of the web page based on the one or more pre-existing remediations, the descriptive attribute assigned to the element adapted to enable an assistive technology to speak the descriptive attribute to a user.

53. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the one or more pre-existing remediations are javascript.

54. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the element is an input field.

55. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the element is an image.

56. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the element is a title element.

57. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the element lacks the adequate descriptive attribute when one or more descriptive attributes of the element are erroneous.

58. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the assigning comprises changing the DOM or HTML code associated with the web page.

59. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the descriptive attribute is an HTML label.

60. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the descriptive attribute is an alt-text label.

**Application No.: 17/169229**  
**Filing Date: February 5, 2021**

61. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 52, wherein the computer system comprises one or more computing systems.

<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875				Application or Docket Number 17/169,229		Filing Date 02/05/2021		<input type="checkbox"/> To be Mailed	
ENTITY: <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> MICRO									
<b>APPLICATION AS FILED - PART I</b>									
	(Column 1)	(Column 2)							
FOR	NUMBER FILED	NUMBER EXTRA			RATE (\$)			FEE (\$)	
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A			N/A				
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A			N/A				
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*			x \$100 =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*			x \$480 =				
<input type="checkbox"/> 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).								
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
<b>APPLICATION AS AMENDED - PART II</b>									
	(Column 1)		(Column 2)	(Column 3)					
AMENDMENT	03/24/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(j))	* 20	Minus	** 20	= 0		x \$100 =		0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x \$480 =		0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(j))	*	Minus	**	=		x \$0 =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x \$0 =		
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/SHARAIN E MORELAND/			
*** 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 number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. 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 1.14. This collection is estimated to take 12 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.*



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/169,229	02/05/2021	Sean D. Bradley	AUDEY.003C14	1150
20995 7590 03/17/2021 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			EXAMINER	
			ART UNIT	PAPER NUMBER
			2177	
			NOTIFICATION DATE	DELIVERY MODE
			03/17/2021	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

efiling@knobbe.com  
jayna.cartee@knobbe.com

<b><i>Decision Granting Request for Prioritized Examination (Track I)</i></b>	<b>Application No.</b> 17/169,229	<b>Applicant(s)</b> Bradley et al.	
	<b>Examiner</b> CHERYL P GIBSON BAYLOR	<b>Art Unit</b> OPET	<b>AIA (FITF) Status</b> Yes
<p>1. THE REQUEST FILED <u>05 February 2021</u> IS <b>GRANTED</b> .</p> <p>The above-identified application has met the requirements for prioritized examination</p> <p>A. <input checked="" type="checkbox"/> for an original nonprovisional application (Track I).</p> <p>B. <input type="checkbox"/> for an application undergoing continued examination (RCE).</p> <p>2. <b>The above-identified application will undergo prioritized examination.</b> The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:</p> <p>A. filing a <b><u>petition for extension of time</u></b> to extend the time period for filing a reply;</p> <p>B. filing an <b><u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u></b>, or a multiple dependent claim;</p> <p>C. filing a <b><u>request for continued examination</u></b> ;</p> <p>D. filing a notice of appeal;</p> <p>E. filing a request for suspension of action;</p> <p>F. mailing of a notice of allowance;</p> <p>G. mailing of a final Office action;</p> <p>H. completion of examination as defined in 37 CFR 41.102; or</p> <p>I. abandonment of the application.</p> <p>Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.</p>			
/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET			





# 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
17/169,229	02/05/2021		1820	AUDEY.003C14	20	2

CONFIRMATION NO. 1150

## FILING RECEIPT

20995  
KNOBBE MARTENS OLSON & BEAR LLP  
2040 MAIN STREET  
FOURTEENTH FLOOR  
IRVINE, CA 92614



0000000123485187

Date Mailed: 02/19/2021

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)

Sean D. Bradley, Tucson, AZ;  
Mark D. Baker, Marietta, GA;  
Jeffrey O. Jones, Mountain Park, GA;  
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Trevor C. Jones, Kennesaw, GA;  
Helena Laymon, Duluth, GA;

### Applicant(s)

AudioEye, Inc., Tucson, AZ;

**Power of Attorney:** The patent practitioners associated with Customer Number 20995

### Domestic Priority data as claimed by applicant

This application is a CON of 17/147,323 01/12/2021  
which is a CON of 16/430,210 06/03/2019 PAT 10928978  
which is a CON of 15/074,818 03/18/2016 PAT 10444934

**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:** 02/18/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/169,229**

**Projected Publication Date:** 05/27/2021

**Non-Publication Request:** No

**Early Publication Request:** No

**Title**

MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED  
ASSISTIVE TECHNOLOGIES

**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

page 2 of 4

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**

#### **GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### **NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

## **SelectUSA**

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875						Application or Docket Number 17/169,229				
<b>APPLICATION AS FILED - PART I</b>										
(Column 1)		(Column 2)		SMALL ENTITY		OR 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))	20	minus 20 = *			OR	x 100 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *				x 480 =	0.00			
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).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1820			
<b>APPLICATION AS AMENDED - PART II</b>										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR 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	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	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	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.</p>										

## SCORE Placeholder Sheet for IFW Content

Application Number: 17169229

Document Date: 02/05/2021

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

- Drawing

At the time of document entry (noted above):

- USPTO employees may access SCORE content via DAV or via the SCORE web page.
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Doc Code: ECOMM.AUTH/ECOMM.WTDW

Doc Description: Internet Communications Authorized/Internet Communications Authorization Withdrawn

PTO/SB/439 (11-15)

**AUTHORIZATION FOR INTERNET  
COMMUNICATIONS IN A PATENT  
APPLICATION OR REQUEST TO  
WITHDRAW AUTHORIZATION FOR  
INTERNET COMMUNICATIONS**

Application No.	Not Yet Assigned
Filing Date	Herewith
First Named Inventor	Bradley, Sean D.
Art Unit	Unassigned
Examiner Name	Unassigned
Practitioner Docket No.	AUDEY.003C14

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

**I. To authorize permission for Internet Communications.**

☒ Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned and practitioners in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via video conferencing, instant messaging, or electronic mail. I understand that a copy of these communications will be made of record in the application file. (MPEP 502.03)

**II. To withdraw authorization for Internet Communications.**

☐ The authorization given on \_\_\_\_\_, to the USPTO to communicate with the undersigned and any practitioner in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via Internet communications such as video conferencing, instant messaging, or electronic mail is hereby withdrawn. I understand that the withdrawal is effective when approved rather than when received.

I am the

- ☐ applicant.
- ☒ attorney or agent of record. Registration number 57,013
- ☐ attorney or agent acting under 37 CFR 1.34. Registration number \_\_\_\_\_

/THOMAS Y. YEE/  
Signature

2/5/2021  
Date

Thomas Y. Yee  
Typed or printed name

212-849-3077  
Telephone Number

**NOTE:** This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Juristic entities must be represented by a patent practitioner (see 37 CFR 1.31, which is applicable to any paper filed on or after September 16, 2012, that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below\*.

☒ \* Total of 1 forms are submitted.

## 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.



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 1 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,918,223	06-29-1999	Blum et al.	
	2	5,930,752	07-27-1999	Kawaguchi et al	
	3	5,991,781	11-23-1999	Nielsen	
	4	6,092,039	07-18-2000	Zingher	
	5	6,240,448	05-29-2001	Imielinski et al	
	6	6,606,374	08-12-2003	Rokoff et al.	
	7	6,665,642	12-16-2003	Kanevsky et al.	
	8	6,742,021	05-25-2004	Halverson et al.	
	9	6,751,544	06-15-2004	Hashimoto et al.	
	10	6,940,953	09-06-2005	Eberle et. Al	
	11	6,959,279	10-25-2005	Jackson et al.	
	12	6,934,684	08-23-2005	Alpdemir et al.	
	13	7,028,306	04-11-2006	Boloker et al.	
	14	7,106,220	09-12-2006	Gourgey et al.	
	15	7,124,366	10-17-2006	Foreman et al.	
	16	7,174,293	02-06-2007	Kenyon et al.	
	17	7,181,692	02-20-2007	Siegel	
	18	7,194,411	03-20-2007	Slotznick et al.	
	19	7,194,752	03-20-2007	Kenyon et al.	
	20	7,219,136	05-15-5007	Danner et al.	
	21	7,246,058	07-17-2007	Burnett	
	22	7,284,255	10-16-2007	Apel et al.	
	23	7,546,531	06-09-2009	Celik	
	24	7653544 (Our Ref. AUDEY.004A1) including its prosecution history, the cited references, and the Office Actions therein	01-26-2010	Bradley et al.	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 2 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	25	7,702,674	04-20-2010	Hyder et al.	
	26	7,810,087	10-01-2010	O'Brien	
	27	7,966,184	06-21-2011	Bradley et al.	
	28	8046229 (Our Ref. AUDEY.004C1) including its prosecution history, the cited references, and the Office Actions therein	10-25-2011	Bradley et al.	
	29	8,055,713	11-08-2011	Simske et al.	
	30	8,090,800	01-03-2012	Yee	
	31	8,103,956	01-24-2012	Trujillo	
	32	8260616 (Our Ref. AUDEY.005A2), including its prosecution history, the cited references, and the Office Actions therein	09-04-2012	O'Connor et al.	
	33	8,296,150 (Our Ref. AUDEY.004A2), including its prosecution history, the cited references, and the Office Actions therein	10-23-2012	Bradley et al.	
	34	8,321,502	11-27-2012	Scoda	
	35	8,452,600	05-28-2013	Fleizach	
	36	8,516,362	08-20-2013	Scoda	
	37	8,527,862	09-03-2013	Scoda et al.	
	38	8,589,169 (Our Ref. AUDEY.004C2) including its prosecution history, the cited references, and the Office Actions therein	11-19-2013	Bradley et al.	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 3 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	39	8,589,484	11-19-2013	Scoda	
	40	8,650,474	02-11-2014	Scoda	
	41	8,868,638	10-21-2014	Scoda	
	42	8,855,423	10-07-2014	Boncyk et al.	
	43	8,694,319	04-08-2014	Bodin et al.	
	44	8,874,716	08-22-2000	Daiwa Seiko Inc.	
	45	8,983,935	03-17-2015	Scoda	
	46	8,984,164	03-17-2015	Scoda	
	47	8,903,978	12-02-2014	Zerr et al.	
	48	8,990,392	03-01-2015	Stamos	
	49	9,208,783	12-08-2015	Ativanichayaphong et al.	
	50	9,268,753	02-23-2016	Hendry et al.	
	51	9,275,023	03-01-2016	Scoda	
	52	9,311,281	04-12-2016	Scoda	
	53	9,319,244	04-19-2016	Taylor et al.	
	54	9,356,574	05-31-2016	Denninghoff	
	55	9,384,183	07-05-2016	Kasa et al.	
	56	9,473,592	10-18-2016	Scoda	
	57	9,547,633	01-17-2017	Scoda	
	58	9,727,660	08-08-2017	Barrell et al.	
	59	9,736,245	08-15-2017	Scoda	
	60	9,736,524	08-15-2017	Aravamudan et al.	
	61	9,846,572	12-19-2017	Scoda	
	62	9,846,686	12-19-2017	Scoda	
	63	9,875,671	01-23-2018	Gharpure et al.	
	64	9,876,776	01-23-2018	Scoda	
	65	9,971,636	05-15-2018	Scoda et al.	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 4 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	66	9,996,613	06-12-2018	Jadhav et al.	
	67	10,015,226	07-03-2018	Scoda et al.	
	68	10,037,318	07-31-2018	Liu	
	69	10,049,089	08-14-2018	Scoda et al.	
	70	10,116,726	10-30-2018	Scoda	
	71	10,120,847	11-06-2018	Scoda	
	72	10,198,414	02-05-2019	Scoda	
	73	10,237,334	03-19-2019	Alexander et al.	
	74	10,282,401	05-07-2019	Scoda	
	75	10,218,775	02-026-2019	Scoda	
	76	10,423,709 (Our Ref. AUDEY.002A), including its prosecution history, the cited references, and the Office Actions therein	09-24-2019	Bradley et al.	
	77	10,425,501	06-09-2016	Nasson et al.	
	78	10,444,934 (Our Ref. AUDEY.003A), including its prosecution history, the cited references, and the Office Actions therein	10-15-2019	Bradley et al.	
	79	10,452,730	10-22-2019	Scoda	
	80	10,762,280 (Our Ref. AUDEY.002C1), including its prosecution history, the cited references, and the Office Actions therein	09-01-2020	Bradley et al.	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 5 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	81	10860173(Our Ref. AUDEY.003C10), including its prosecution history, the cited references, and the Office Actions therein	12-08-2020	Bradley et al.	
	82	10,809,877 (Our Ref. AUDEY.003C4), including its prosecution history, the cited references, and the Office Actions therein	10-20-2020	Bradley et al.	
	83	10,845,946 (Our Ref. AUDEY.003C3), including its prosecution history, the cited references, and the Office Actions therein	11-24-2020	Bradley et al.	
	84	10,845,947 (Our Ref. AUDEY.003C5), including its prosecution history, the cited references, and the Office Actions therein	11-24-2020	Bradley et al.	
	85	10,866,691 (Our Ref. AUDEY.003C7), including its prosecution history, the cited references, and the Office Actions therein	12-15-2020	Bradley et al.	
	86	10,867,120 (Our Ref. AUDEY.003P2), including its prosecution history, the cited references, and the Office Actions therein	12-15-2020	Bradley et al.	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 6 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	<b>87</b>	10,896,286 (Our Ref. AUDEY.003P4), including its prosecution history, the cited references, and the Office Actions therein	08-12-2020	Bradley et al.	
	<b>88</b>	2002/0003547	01-10-2002	Wang	
	<b>89</b>	2002/0007379	01-17-2002	Wang	
	<b>90</b>	2002/0010584	01-24-2002	Schultz et al.	
	<b>91</b>	2002/0010715	01-24-2002	Chinn et al.	
	<b>92</b>	2002/0023020	02-21-2002	Kenyon et al.	
	<b>93</b>	2002/0065658	05-30-2002	Kanevsky et al.	
	<b>94</b>	2002/0074396	06-20-2002	Rathus et al.	
	<b>95</b>	2002/0124020	09-05-2002	Janakiraman et al .	
	<b>96</b>	2002/0122053	09-05-2002	Dutta	
	<b>97</b>	2002/0194388	12-19-2002	Boloker et al.	
	<b>98</b>	2002/0198705	12-26-2002	Burnett	
	<b>99</b>	2003/0033434	02-13-2003	Kavacheri et al.	
	<b>100</b>	2003/0098803	05-29-2003	Gourgey et al.	
	<b>101</b>	2003/0115546	06-19-2003	Dubey et al.	
	<b>102</b>	2003/0158737	08-21-2003	Csicsatka	
	<b>103</b>	2004/0002808	01-01-2004	Hashimoto et al.	
	<b>104</b>	2004/0006478	01-08-2004	Alpdemir et al.	
	<b>105</b>	2004/0056882	03-25-2004	Foreman et al.	
	<b>106</b>	2004/0128136	07-01-2004	Irani	
	<b>107</b>	2004/0158429	08-01-2004	Bary	
	<b>108</b>	2004/0218451	11-04-2004	Said, et al.	
	<b>109</b>	2004/0254988	12-01-2004	Rodriguez	
	<b>110</b>	2005/0108338	05-19-2005	Simske et al.	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 7 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	111	2005/0160065	07-21-2005	Seeman	
	112	2005/0195077	09-08-2005	McCulloch et al.	
	113	2006/0212466	09-21-2006	Hyder et al.	
	114	2007/0100628	05-03-2007	Bodin et al.	
	115	2008/0133500	06-05-2008	Edwards	
	116	2008/0168049	07-10-2008	Gao et al.	
	117	2008/0208593	08-28-2008	Ativanichayaphong et al.	
	118	2008/0235564	09-25-2008	Erol et al.	
	119	2010/0070872	03-18-2010	Trujillo	
	120	2010/0251217	09-01-2010	Miller	
	121	2010/0114578	05-06-2010	Yuen et al	
	122	2010/0166165	07-01-2010	Langseth et al.	
	123	2011/0154212	0-23-2011	Gharpure et al.	
	124	2011/0295623	12-01-2011	Behringer et al.	
	125	2011/0307855	12-15-2011	Scoda et al.	
	126	2012/0116872	05-10-2012	Hicken et al.	
	127	2012/0176509	07-12-2012	Aravamudan et al.	
	128	2012/0216243	08-01-2012	Gill	
	129	2012/0239405	09-20-2012	O'Connor et al.	
	130	2012/0240045	09-20-2012	Bradley et al.	
	131	2012/0254723	10-04-2012	Kasa et al.	
	132	2012/0322384	12-20-2012	Zerr et al.	
	133	2013/0073949	03-21-2013	Barrell	
	134	2013/0305139	11-14-2013	Scoda	
	135	2013/0104029	04-25-2013	Hendry et al.	
	136	2014/0047337	02-13-2014	Bradley et al.	
	137	2014/0149447	05-29-2014	Scoda	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 8 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	138	2014/0164352	06-12-2014	Denninghoff	
	139	2014/0195653	07-10-2014	Alexander et al.	
	140	2014/0365860	12-11-2014	Spielberg et al.	
	141	2015/0106686	04-16-2015	Blitzstein	
	142	2015/0113410	04-23-2015	Bradley et al.	
	143	2015/0156084	06-01-2015	Kaminsky	
	144	2015/0319215	11-05-2015	Scoda	
	145	2016/0306784	10-01-2016	Bradley	
	146	2016/0337426	11-17-2016	Shribman	
	147	2017/0111431	04-20-2017	Scoda et al.	
	148	2017/0371975	12-28-2017	Chen et al.	
	149	2018/0191764	07-05-2018	Chawla et al.	
	150	2018/0336356	11-22-2018	Papaxenopoulos	
	151	2018/0075488	03-15-2018	Celik et al.	
	152	2018/0165258	06-01-2018	Scoda	
	153	2018/0267847	09-01-2018	Smith	
	154	2018/0293504	10-01-2018	Meruva	
	155	2018/0239516	08-23-2018	Scoda	
	156	2018/0349004	12-06-2018	Scoda et al.	
	157	2019/0075081	03-07-2019	Adam	
	158	2019/0340212	11-07-2019	Isager	
	159	2019/0354262 (Our Ref. AUDEY.003C1) including its prosecution history, the cited references, and the Office Actions therein	11-21-2019	Bradley et al.	
	160	2020/0372205	11-26-2020	Bradley et al.	
	161	16/991392**	08-12-2020	Bradley et al.	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 9 OF 12	Attorney Docket No.	AUDEY.003C14

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	162	16/991381**	08-12-2020	Bradley et al.	
	163	16/991434**	08-12-2020	Bradley et al.	
	164	16/991505**	08-12-2020	Bradley et al.	
	165	16/991578**	08-12-2020	Bradley et al.	
	166	17/119368**	12-11-2020	Bradley et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
	167	CA2716635C	11-01-2016	USABLENET INC.		
	168	CA2732540C	02-27-2018	USABLENET INC.		
	169	CA2773088A1	03-17-2011	USABLENET INC.		
	170	CA2800723A1	12-15-2011	USABLENET INC.		
	171	CA2800790A1	12-15-2011	USABLENET INC.		
	172	CA2807320A1	02-23-2012	USABLENET, INC.		
	173	CA2811207A1	03-22-2012	USABLENET, INC.		
	174	CA2816336A1	05-18-2012	USABLENET INC.		
	175	CA2816338A1	05-18-2012	USABLENET INC.		
	176	CA2821769A1	06-28-2012	USABLENET INC.		
	177	CA2824861A1	03-10-2014	USABLENET INC.		
	178	CA2834466A1	05-29-2014	USABLENET INC.		
	179	CA2839006C	08-01-2017	USABLENET INC.		
	180	CA2839013A1	01-03-2013	USABLENET INC.		
	181	CA2843938A1	09-13-2014	USABLENET INC.		
	182	CA2845279A1	09-13-2014	USABLENET INC.		
	183	CA2848175A1	10-03-2014	USABLENET INC.		
	184	CA2855420A1	01-09-2015	USABLENET INC.		
	185	CA2858590A1	02-28-2015	USABLENET INC.		

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 10 OF 12	Attorney Docket No.	AUDEY.003C14

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
	186	CA2861602A1	08-01-2013	USABLENET INC.		
	187	CA2868162A1	05-04-2015	USABLENET INC.		
	188	CA2944659A1	04-15-2017	USABLENET INC.		
	189	CA2947402A1	11-12-2015	USABLENET INC.		
	190	CA2951659A1	06-22-2017	USABLENET INC.		
	191	CA2958235A1	03-03-2016	USABLENET INC.		
	192	CA2963393A1	04-14-2016	USABLENET INC.		
	193	EP2363995B1	07-29-2015	USABLENET INC.		
	194	EP2476063A4	02-21-2018	USABLENET INC.		
	195	EP2580686A4	11-30-2016	USABLENET INC.		
	196	EP2580699A4	07-27-2016	USABLENET INC.		
	197	EP2606436A4	11-15-2017	USABLENET INC.		
	198	EP2616962A4	01-17-2018	USABLENET INC.		
	199	EP2638681B1	07-19-2017	USABLENET INC.		
	200	EP2638683B1	03-15-2017	USABLENET INC.		
	201	EP2656303A4	07-30-2014	USABLENET INC.		
	202	EP2724251B1	08-08-2018	USABLENET INC.		
	203	EP2724253A4	04-20-2016	USABLENET INC.		
	204	EP2732385A4	04-29-2015	USABLENET INC.		
	205	EP2738696A1	06-04-2014	USABLENET INC.		
	206	EP2778975A1	09-17-2014	USABLENET INC.		
	207	EP2778976B1	12-27-2017	USABLENET INC.		
	208	EP2787454A1	10-08-2014	USABLENET INC.		
	209	EP2807578A4	11-18-2015	USABLENET INC.		
	210	EP2827261A1	01-21-2015	USABLENET INC.		
	211	EP2851813A1	03-25-2015	USABLENET INC.		
	212	EP2869222A1	05-06-2015	USABLENET INC.		

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 11 OF 12	Attorney Docket No.	AUDEY.003C14

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
	213	EP3140733A4	12-13-2017	Usablenet Inc.		
	214	EP3156919A1	04-19-2017	USABLENET INC.		
	215	EP3185145A1	06-28-2017	USABLENET INC.		
	216	EP3195136A4	04-25-2018	USABLENET INC.		
	217	EP3204874A4	07-04-2018	USABLENET INC.		
	218	WO 2001/075678	10-11-2001	USABLENET, INC.		
	219	WO 2006/065877	06-22-2006	FREEDOM SCIENTIFIC INC		
	220	WO2009111251A1	09-11-2009	USABLENET INC.		
	221	WO2011031868A1	03-17-2011	USABLENET INC.		
	222	WO2011156739A2	12-15-2011	USABLENET INC.		
	223	WO2011156743A2	12-15-2011	USABLENET INC.		
	224	WO2012024380A3	06-14-2012	USABLENET, INC.		
	225	WO2012036833A9	12-20-2012	USABLENET, INC.		
	226	WO2012064856A3	10-04-2012	USABLENET INC.		
	227	WO2012064857A3	09-27-2012	USABLENET INC.		
	228	WO2012088326A9	09-20-2012	USABLENET INC.		
	229	WO2012178167A3	02-28-2013	USABLENET INC.		
	230	WO2013003455A3	03-14-2013	USABLENET INC.		
	231	WO2013112285A1	08-01-2013	USABLENET INC.		
	232	WO 2013/184273	12-12-2013	FREEDOM SCIENTIFIC INC		
	233	WO2014040080A1	03-13-2014	USABLENET INC.		
	234	WO2015171228A1	11-12-2015	USABLENET INC.		
	235	WO2016032602A1	03-03-2016	USABLENET INC.		
	236	WO2016057092A1	04-14-2016	USABLENET INC.		
	237	WO 2017/161008	09-21-2017	AUDIOEYE, INC.		

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. 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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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	Unassigned
	Filing Date	Herewith
	First Named Inventor	Bradley, Sean D.
	Art Unit	Unassigned
	Examiner	Unassigned
SHEET 12 OF 12	Attorney Docket No.	AUDEY.003C14

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	238	Sensus Internet Browser, printed from <a href="http://www.sensus.dk/sibl0uk.htm">www.sensus.dk/sibl0uk.htm</a> on Jul. 23, 2002.	
	239	International Search Report and Written Opinion of PCT/US17/22542 dated June 20, 2017 in 10 pages	
	240	International Preliminary Report on Patentability dated January 25, 2019 for International Application No. PCT/US2017/022542 in 36 pages	
	241	European Search Report and Written Opinion of EP 17767449.6 dated October 15, 2019 in 10 pages	
	242	International Search Report and Written Opinion of PCT/US2019/046361 dated December 5, 2019 in 17 pages	
	243	Sato et al., "Accessibility Evaluation based on Machine Learning Technique", October 22-25, 2006, Portland, Oregon, USA, ACM, pages: 2 (Year: 2006)	
	244	SCHIAVONE et al., "An extensible environment for guideline-based accessibility evaluation of dynamic Web applications", Univ Access Inf Soc., January 2015, 22 pages	
	245	Shadi et al., "Artificial Intelligence for Web Accessibility- Conformance Evaluation as a Way Forward?", April 23-25, 2018, Lyon, France, ACM, pages: 5 (Year: 2018)	
	246	BIGHAM et al., "WebInSight: Making Web Images Accessible", Proceedings of the 8th International ACM SIG ACCESS Conference on Computers and Accessibility, 2006, pages 181-188	
	247	BRUNET, et al., "Accessibility requirements for systems design to accommodate users with vision impairments", IBM Systems Journal, 2005, 44(3): 445-466	
	248	IACCARINO et al., "Personalizable Edge Services for Web Accessibility", Univ Access Inf Soc 6, 2007, pages 285-306 <a href="https://doi.org/10.1007/s10209-007-0091-y">https://doi.org/10.1007/s10209-007-0091-y</a>	
	249	MAEDA et al., "Web accessibility technology at the IBM Tokyo Research Laboratory", IBM Journal of Research and Development, Nov. 2004, 48(5/6): 735-749 <a href="http://dialog.proquest.com/professional/docview/220685504?accountid=157282">http://dialog.proquest.com/professional/docview/220685504?accountid=157282</a>	

\*\*Reference is co-owned by Applicant and signature indicates consideration of publication and file history, including references cited and office actions issued therein. The Examiner has access to these materials through PTO computer systems. If additional copies are desired, please notify Applicant through its attorneys.

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34372401

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

## TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	Herewith
Filing Date	Herewith
First Named Inventor	Sean D. Bradley
Title	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	AUDEY.003C14

### SIGNATURE of Applicant or Patent Practitioner

Signature	/THOMAS Y. YEE/	Date (Optional)	
Name	Thomas Y. Yee	Registration Number	57,013
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			
<b>NOTE:</b> This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
<input checked="" type="checkbox"/> *Total of <u>1</u> forms are submitted.			

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 3 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.

## POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number

Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

20995

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR



Firm or  
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

AudioEye, Inc.



Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

### SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

Name

Title

**NOTE:** Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.



Total of 1 forms are submitted.

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

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		
First Named Inventor/Applicant Name:		Sean D. Bradley		
Filer:		Thomas Yee/Kim Skoff		
Attorney Docket Number:		AUDEY.003C14		
Filed as Large Entity				
Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Basic Filing:</b>				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4200	4200
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				
<b>Miscellaneous:</b>				
<b>Total in USD (\$)</b>				<b>6160</b>



Electronic Acknowledgement Receipt	
<b>EFS ID:</b>	41853980
<b>Application Number:</b>	17169229
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	1150
<b>Title of Invention:</b>	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
<b>First Named Inventor/Applicant Name:</b>	Sean D. Bradley
<b>Customer Number:</b>	20995
<b>Filer:</b>	Thomas Yee/Aimee Kazan
<b>Filer Authorized By:</b>	Thomas Yee
<b>Attorney Docket Number:</b>	AUDEY.003C14
<b>Receipt Date:</b>	05-FEB-2021
<b>Filing Date:</b>	
<b>Time Stamp:</b>	18:47:09
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 6160
RAM confirmation Number	E202125147402894
Deposit Account	111410
Authorized User	Aimee Kazan
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.16 (National application filing, search, and examination fees)</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p>	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	Declaration.PDF	899231	no	11
			27cff846b31d39f64a4c66a473e79b3c213e20de		
Warnings:					
Information:					
2	Drawings-other than black and white line drawings	Drawings.PDF	81806	no	13
			48dc8c0dbfa335c922eb6e3ec6e1881b38fface		
Warnings:					
Information:					
3		IDS.pdf	120219	yes	14
			d0199d757d457ff4a3cdcca658663d69454560b6		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	14	
Warnings:					
Information:					
4	Internet Communications Authorized	Internet_Authorization.pdf	89075	no	2
			c93d290ccc3a7d29b1c9d473fea6248447ff00d6		
Warnings:					
Information:					
5		Preliminary_Amendment.pdf	37806	yes	6
			53749444ab96843fbf09c683450806190322e8be		

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Preliminary Amendment		1	1	
	Claims		2	5	
	Applicant Arguments/Remarks Made in an Amendment		6	6	
Warnings:					
Information:					
6	Miscellaneous Incoming Letter	Rescission.pdf	16026	no	1
			951c45b4c9aa5e1fc86a29cc637a1298c1445adb		
Warnings:					
Information:					
7	Specification	Specification.PDF	1711317	no	54
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Warnings:					
Information:					
8	TrackOne Request	Track1.pdf	128488	no	2
			c42d41d3e535c169e359835ae5c53675562871aa		
Warnings:					
Information:					
9	Application Data Sheet	ADS.pdf	1257253	no	12
			61e69549de9ab84c0f86c0f2d3770738bc210f1f		
Warnings:					
Information:					
10	Power of Attorney	POA.pdf	439362	no	2
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Warnings:					
Information:					

11	Fee Worksheet (SB06)	fee-info.pdf	39952	no	2
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<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			4820535		
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  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.</p>					

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

<b>Title of Invention</b>	<b>MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES</b>
-------------------------------	--

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 \_\_\_\_\_  
 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:

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: Sean D. Bradley Date (Optional): 3-17-16

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.

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)**

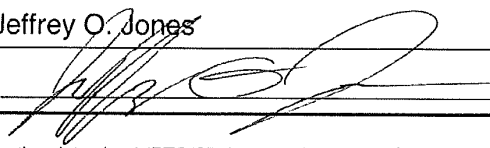
<b>Title of Invention</b>	<b>MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES</b>
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input checked="" type="checkbox"/> The attached application, or  <input type="checkbox"/> United States application or PCT international application number _____  filed on _____.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING:</b></p> <p>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.</p>	
<p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Mark D. Baker</u> Date (Optional): <u>03/17/2016</u></p> <p>Signature: </p>	
<p>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.</p>	

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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	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input checked="" type="checkbox"/> The attached application, or <input type="checkbox"/> United States application or PCT international application number _____ filed on _____.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING:</b></p> <p>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.</p>	
LEGAL NAME OF INVENTOR	
Inventor: Jeffrey O. Jones	Date (Optional): 3/17/16
Signature: 	
<p>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.</p>	

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

<b>Title of Invention</b>	<b>MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES</b>
-------------------------------	--

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 \_\_\_\_\_  
 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.

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**LEGAL NAME OF INVENTOR**Inventor: Kenny P. HefnerDate (Optional): 3/17/2016Signature: 

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

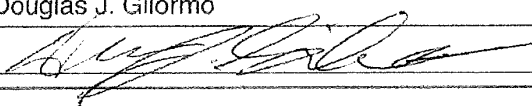
<b>Title of Invention</b>	<b>MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES</b>
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input checked="" type="checkbox"/> The attached application, or  <input type="checkbox"/> United States application or PCT international application number _____  filed on _____.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING:</b></p> <p>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.</p> <p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Adam Finkelstein</u> Date (Optional) : _____</p> <p>Signature: <u><i>Adam Finkelstein</i></u></p> <p>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.</p>	

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

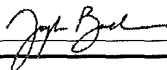
<b>Title of Invention</b>	<b>MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES</b>
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input checked="" type="checkbox"/> The attached application, or  <input type="checkbox"/> United States application or PCT international application number _____  filed on _____</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING:</b></p> <p>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.</p>	
<b>LEGAL NAME OF INVENTOR</b>	
Inventor: <u>Douglas J. Gilormo</u> Date (Optional): <u>2016-03-17</u> Signature: 	
<p>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.</p>	

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.

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

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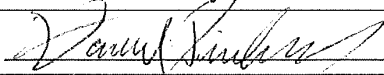
**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76)**

<b>Title of Invention</b>	<b>MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES</b>
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input checked="" type="checkbox"/> The attached application, or <input type="checkbox"/> United States application or PCT international application number _____ filed on _____.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING:</b></p> <p>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.</p> <p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Taylor R. Bodnar</u> Date (Optional): <u>03/17/2016</u></p> <p>Signature: <u></u></p> <p>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.</p>	

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.**

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

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

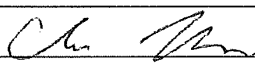
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input checked="" type="checkbox"/> The attached application, or <input type="checkbox"/> United States application or PCT international application number _____ filed on _____.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;"><b>WARNING:</b></p> <p>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.</p>	
LEGAL NAME OF INVENTOR	
Inventor: <u>David C. Pinckney</u> Date (Optional): <u>3/17/2016</u>	
Signature: <u></u>	
<p>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.</p>	

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

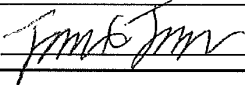
<b>Title of Invention</b>	<b>MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES</b>
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<p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Charlie E. Blevins</u> Date (Optional): <u>3/17/16</u></p> <p>Signature: <u></u></p>	
<p>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.</p>	

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<p><b>LEGAL NAME OF INVENTOR</b></p> <p>Inventor: <u>Trevor C. Jones</u> Date (Optional): <u>03/17/2016</u></p> <p>Signature: </p>	
<p>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.</p>	

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APPLICATION DATA SHEET (37 CFR 1.76)**

<b>Title of Invention</b>	<b>MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES</b>
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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 \_\_\_\_\_

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: Helena LaymonDate (Optional): 5/A/2016Signature: Helena Laymon

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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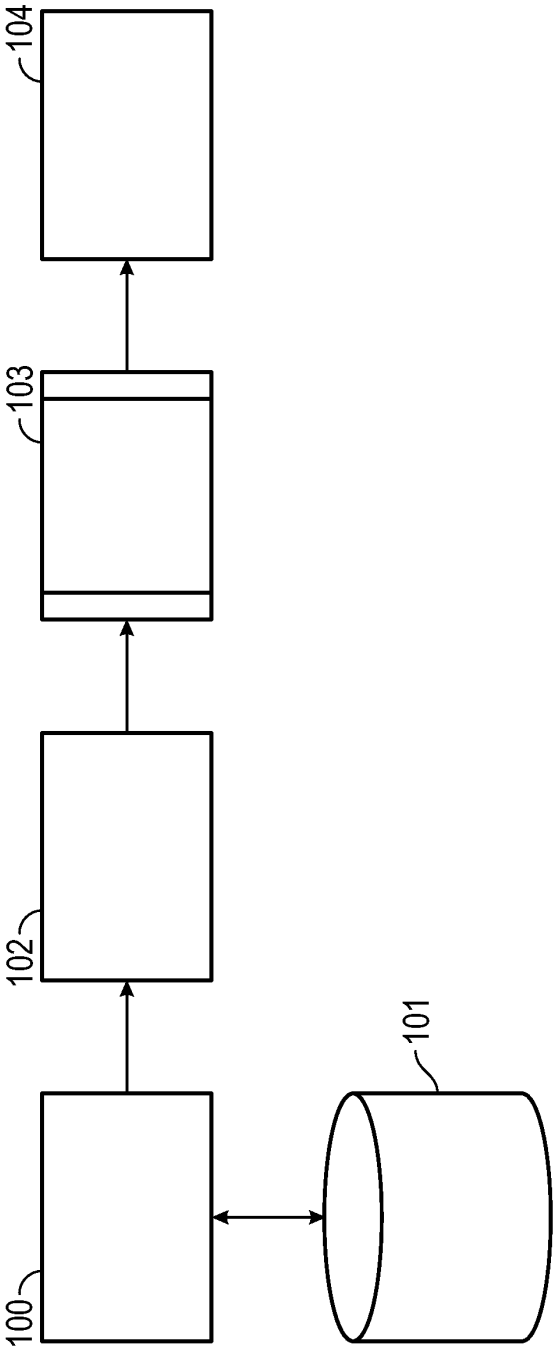


FIG. 1



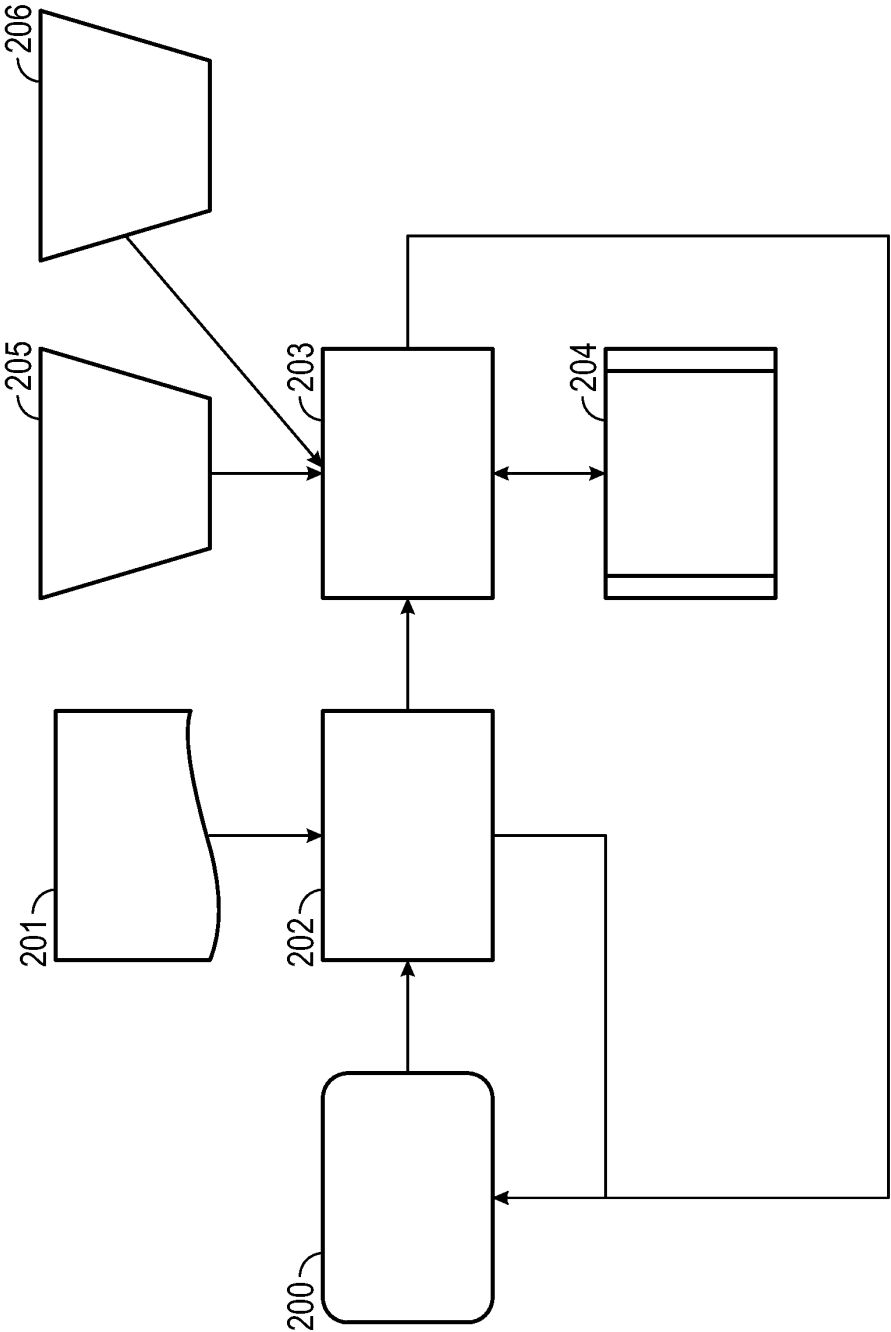


FIG. 2

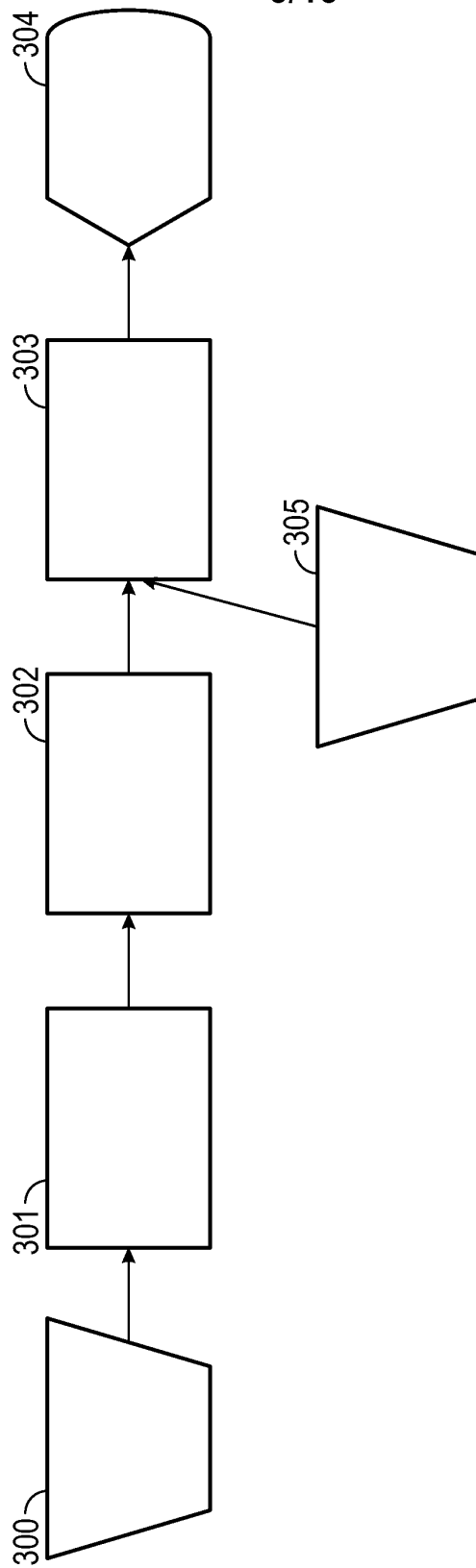


FIG. 3

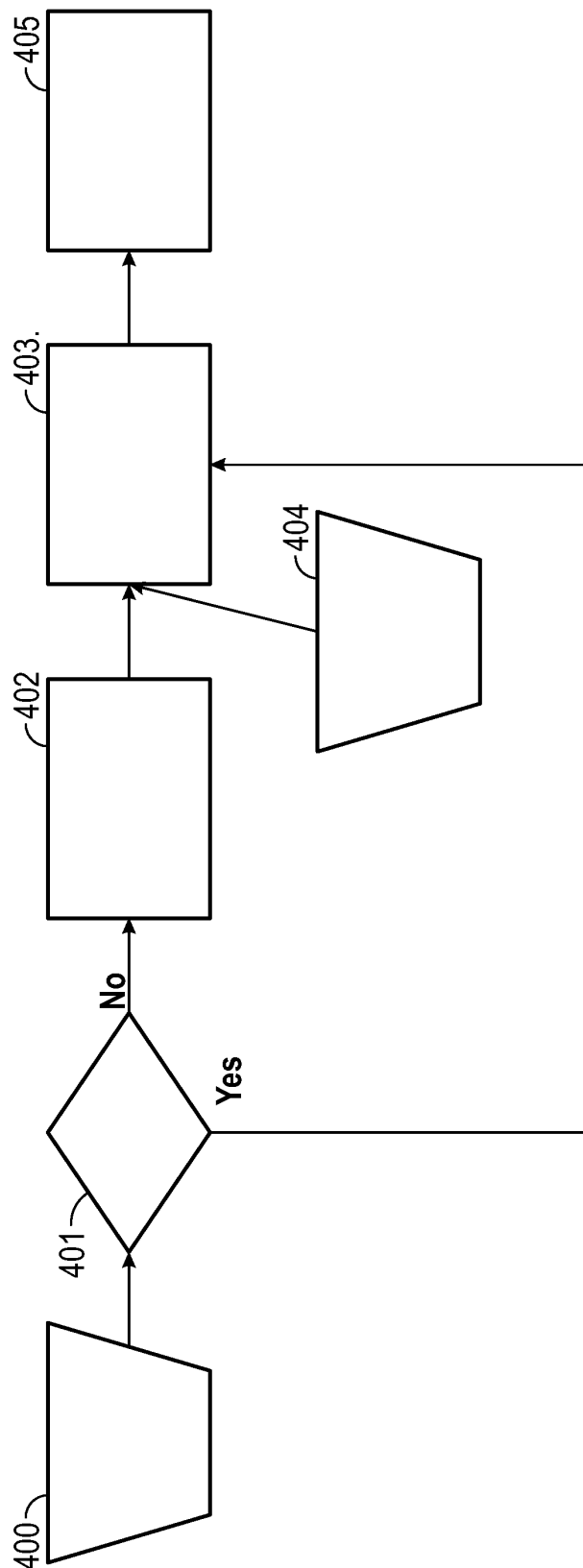
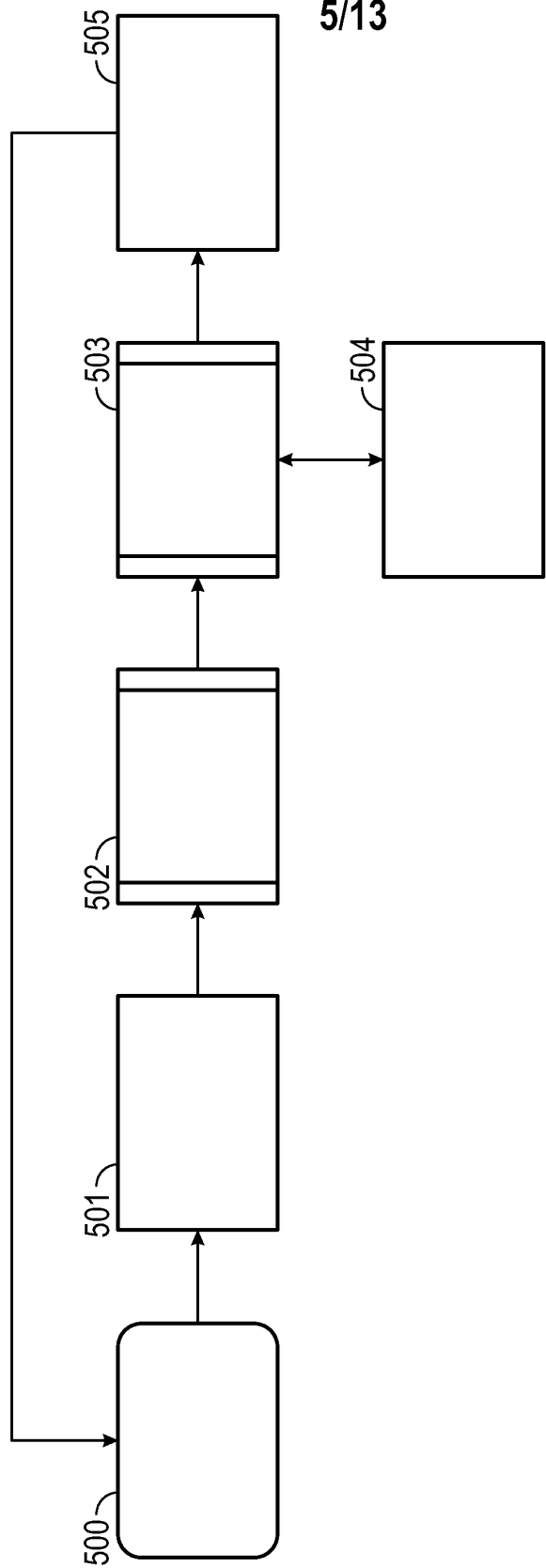


FIG. 4



5/13

FIG. 5

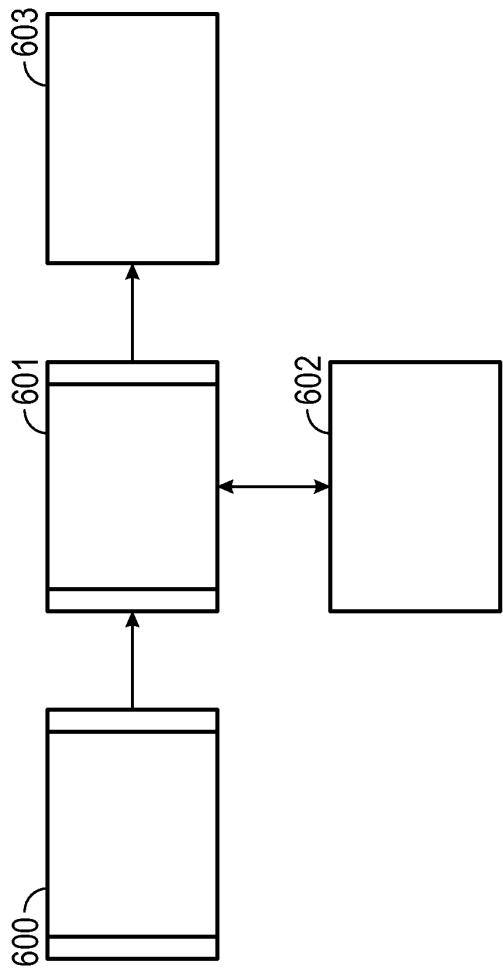


FIG. 6

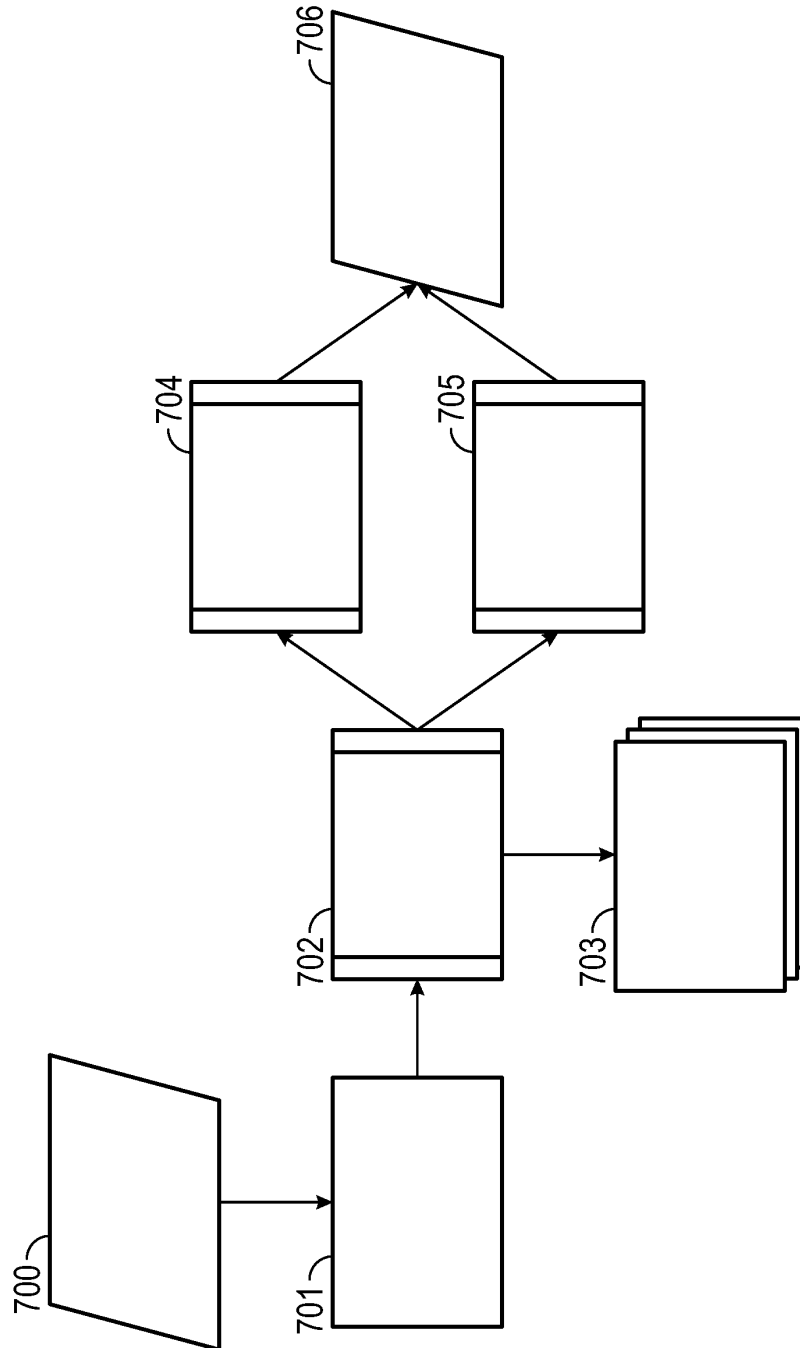


FIG. 7

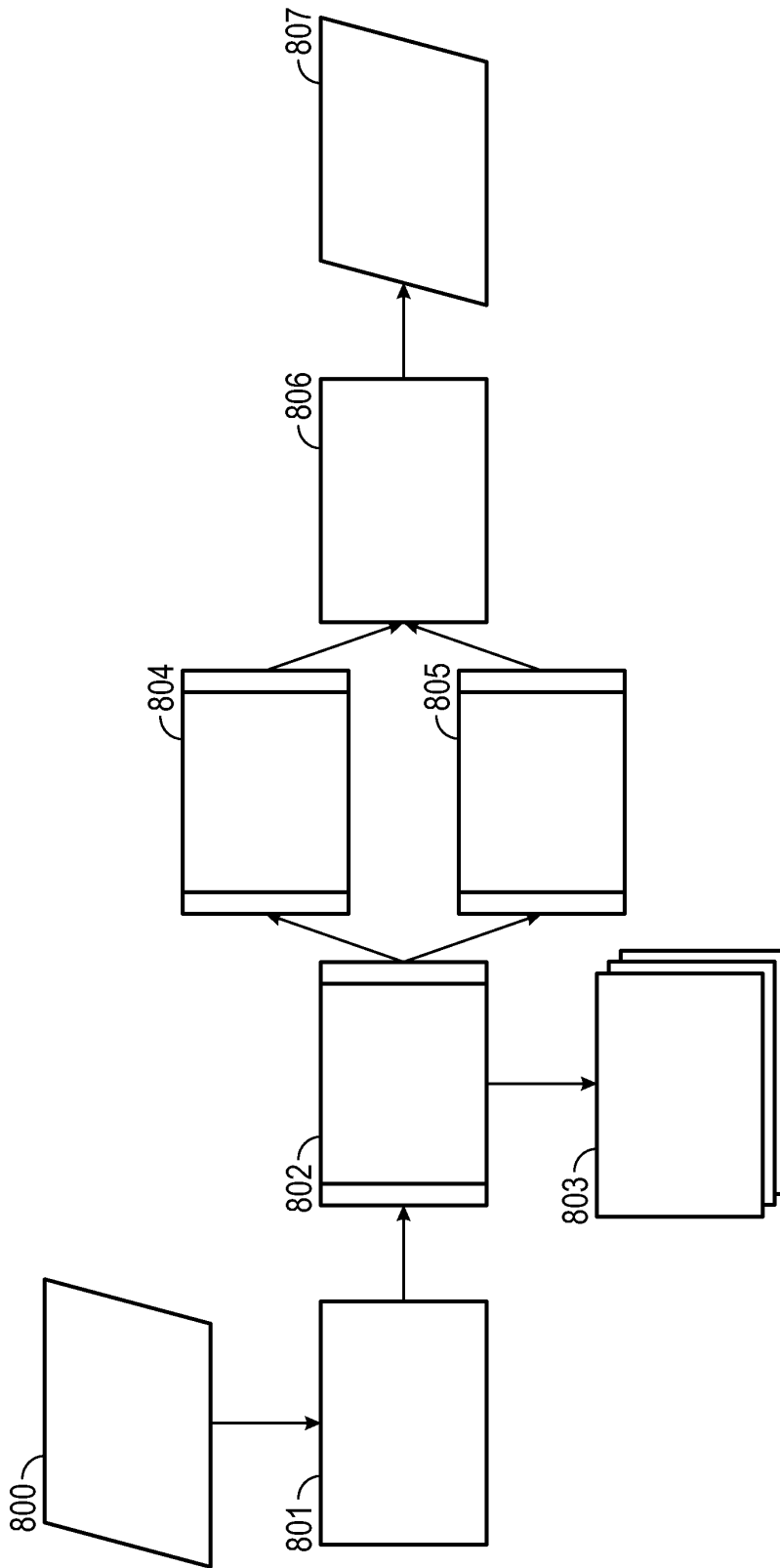


FIG. 8

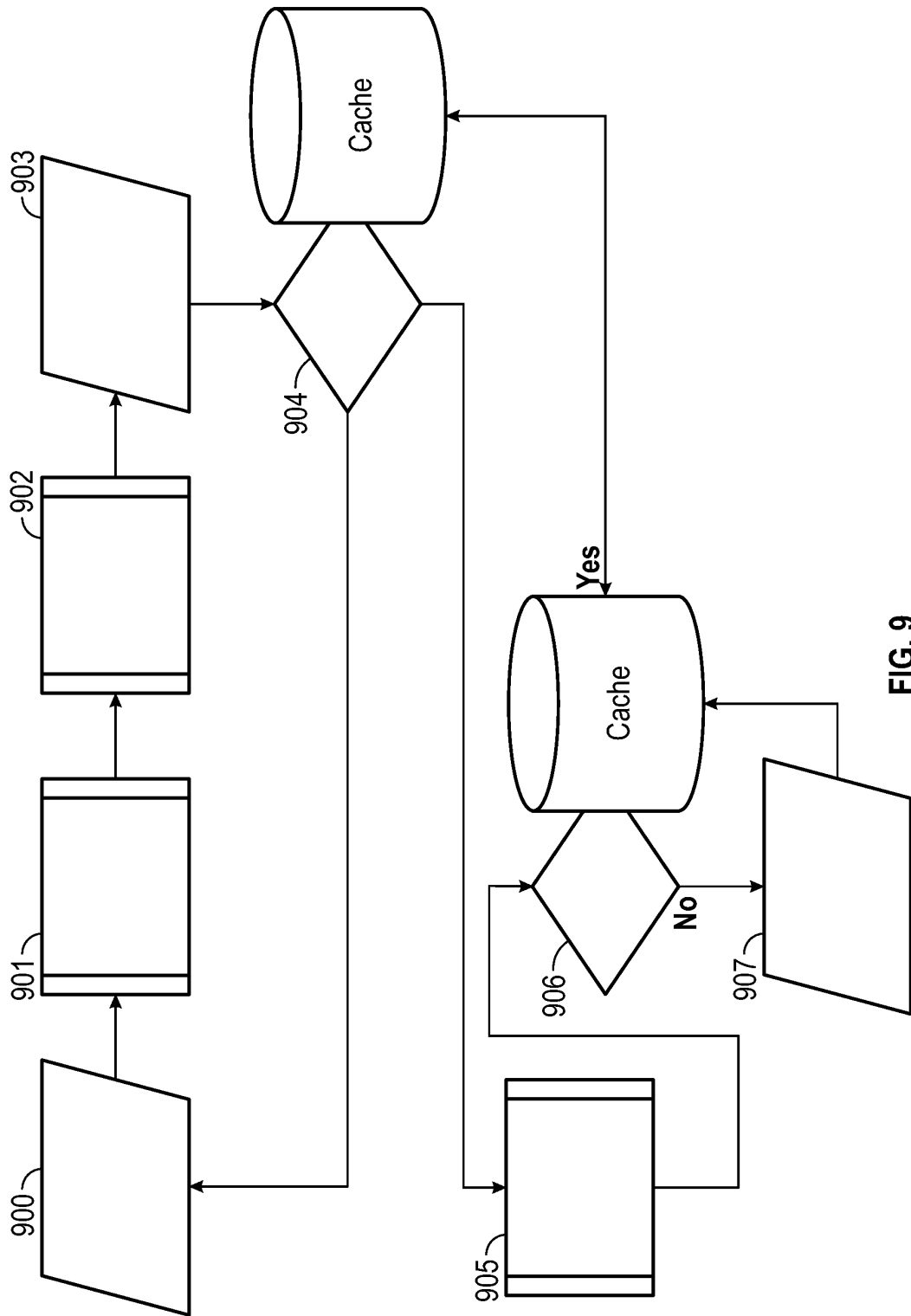


FIG. 9



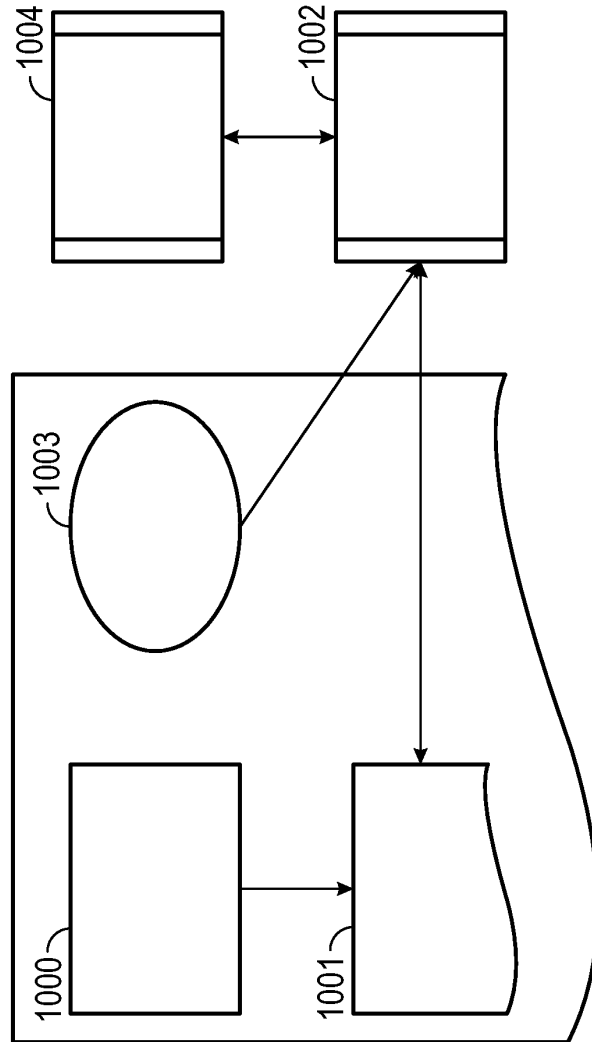


FIG. 10

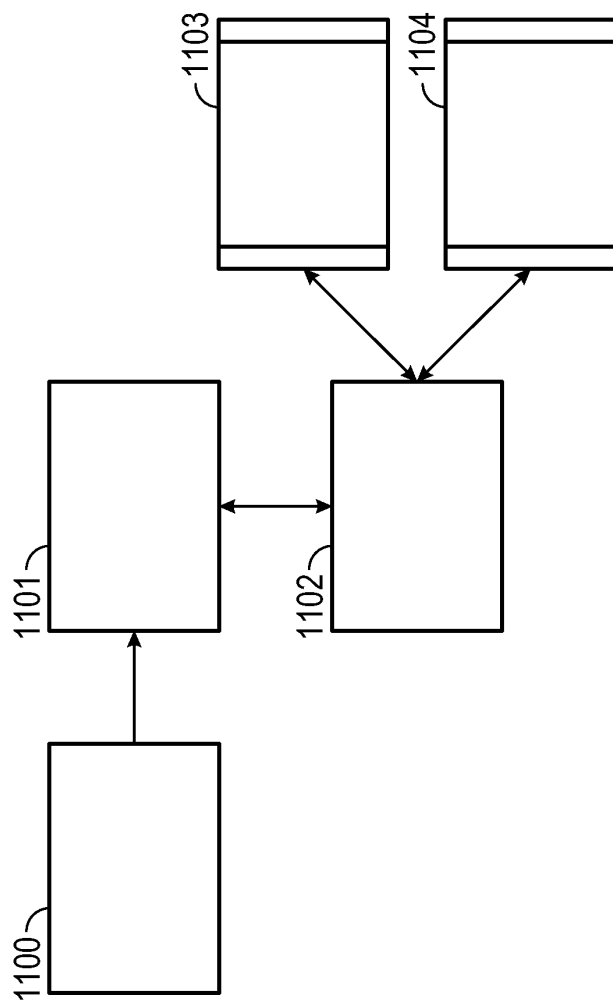


FIG. 11

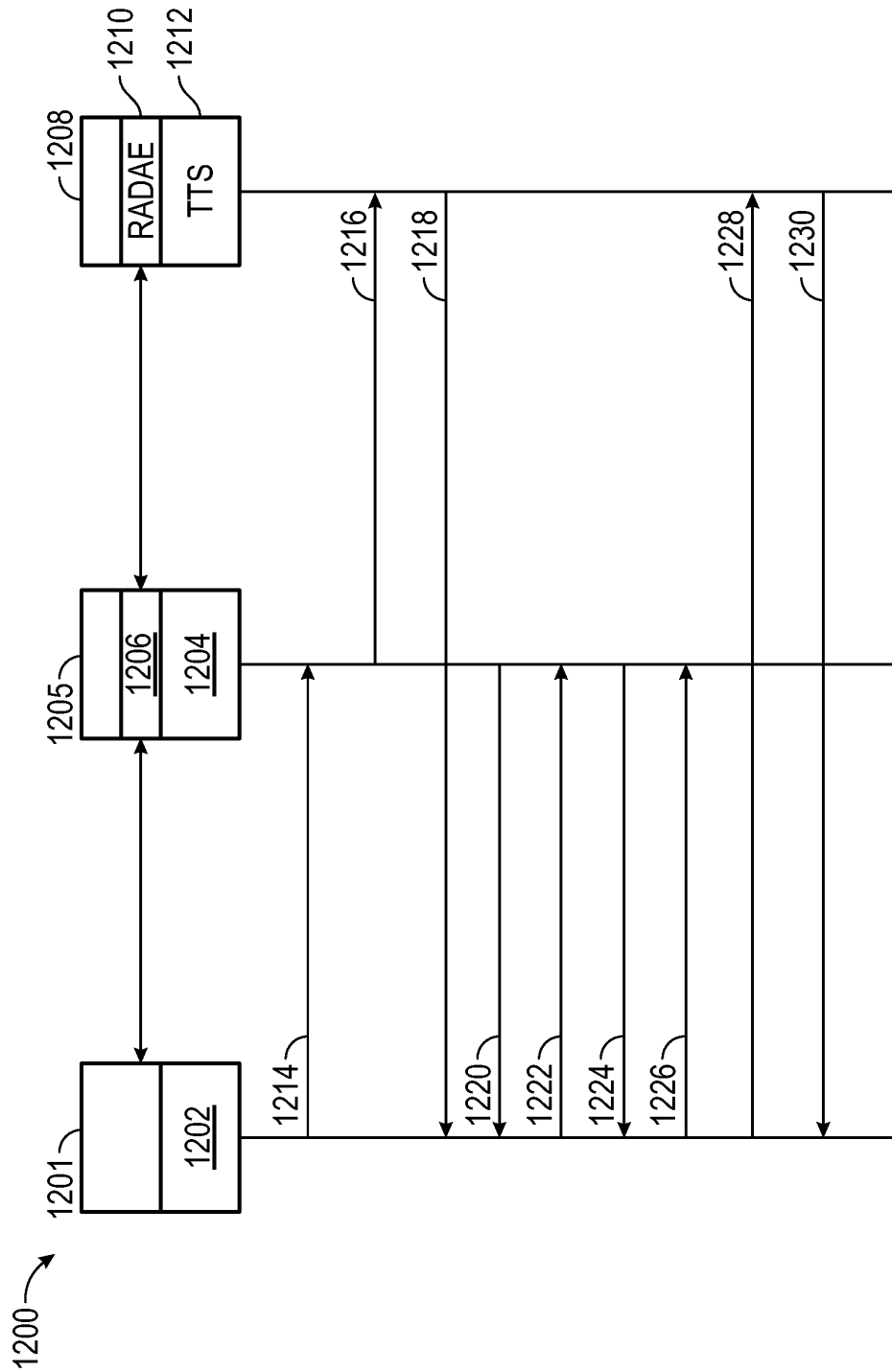


FIG. 12

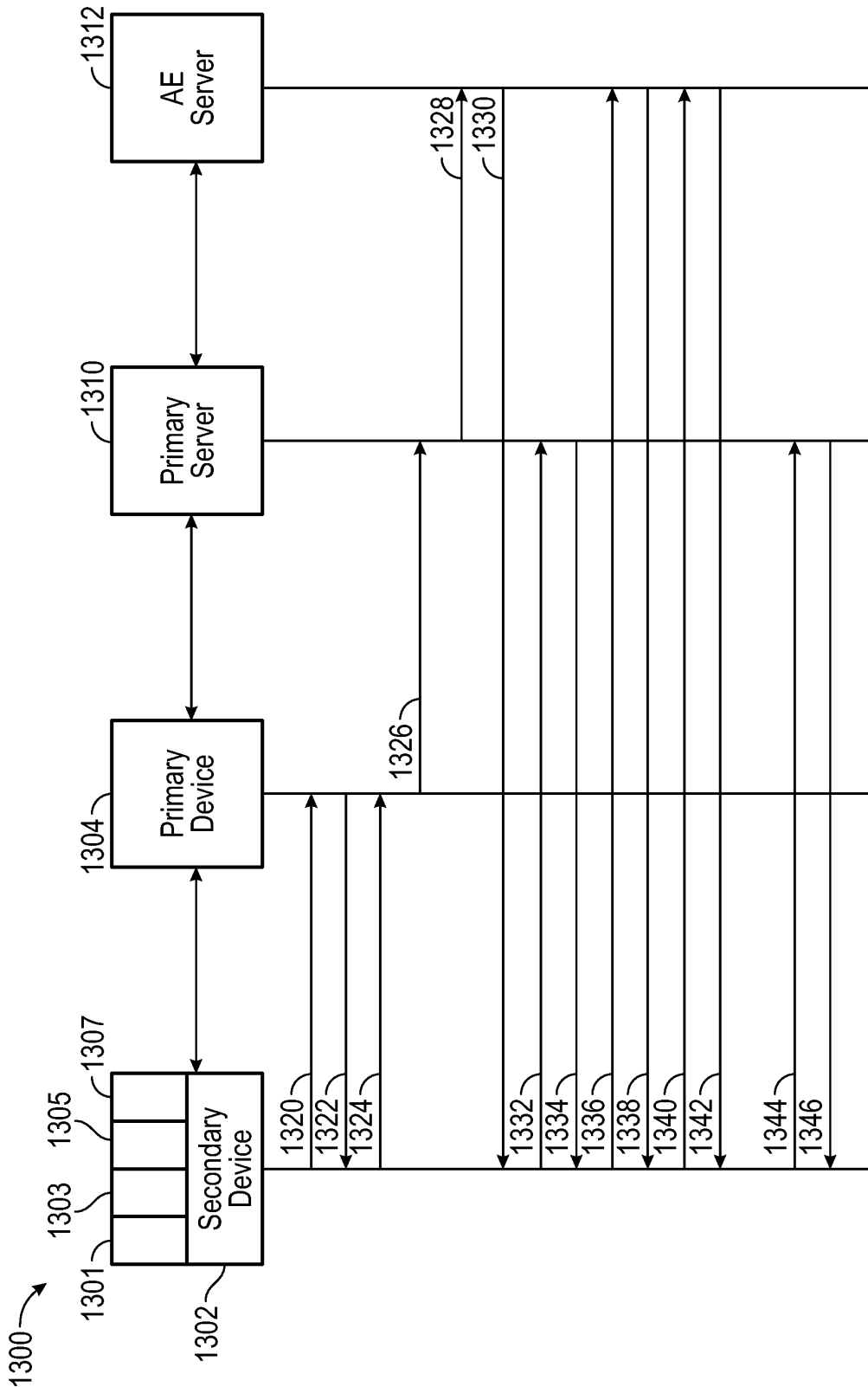


FIG. 13

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**INFORMATION DISCLOSURE STATEMENT**

First Inventor :	Sean D. Bradley
App. No. :	Unassigned
Filed :	Herewith
For :	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
Examiner :	Unassigned
Art Unit :	Unassigned
Conf. No. :	Unassigned

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

**References and Listing**

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. References numbered 1-86, 88-249 are of record in U.S. patent application No. 16/430210, filed June 3, 2019, which is relied upon for an earlier filing date under 35 USC 120. Accordingly, copies of references numbered 1-86, 88-249 are not submitted pursuant to 37 CFR 1.98(d).

**No Disclaimers**

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

**Timing of Disclosure**

This Information Disclosure Statement is being filed within three months of the filing date or date of national phase entry, with an RCE or before receipt of a First Office Action after an RCE, and no fee is believed to be required.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Docket No.: AUDEY.003C14  
App. No.: Unassigned

Page 2 of 2

Respectfully submitted,  
KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: February 5, 2021

By: /THOMAS Y. YEE/\_\_\_\_\_  
Thomas Y. Yee  
Registration No. 57,013  
Registered Practitioner  
(212) 849-3000

IDS

34372445

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION  
UNDER 37 CFR 1.102(e) (Page 1 of 1)**

First Named Inventor:	Sean D. Bradley	Nonprovisional Application Number (if known):	Unassigned
Title of Invention:	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

**APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.**

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

**I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.  
---OR---  
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

**II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature	/THOMAS Y. YEE/	Date	2/5/2021
Name (Print/Typed)	Thomas Y. Yee	Practitioner Registration Number	57,013
<b>Note:</b> This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.*			
<input checked="" type="checkbox"/> *Total of <u>1</u> forms are submitted.			

## 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.



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.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		
<p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

**Secrecy Order 37 CFR 5.2:**

☐ 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.)

**Inventor Information:**

Inventor	1				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Sean	D.	Bradley			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service						
City	Tucson	State/Province	AZ	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	6713 East Snyder Road					
Address 2						
City	Tucson	State/Province	AZ			
Postal Code	85750	Country	US			
Inventor	2				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Mark	D.	Baker			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service						
City	Marietta	State/Province	GA	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	1385 John Ward Road SW					
Address 2						
City	Marietta	State/Province	GA			
Postal Code	30064	Country	US			
Inventor	3				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Jeffrey	O.	Jones			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service						

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number		AUDEY.003C14	
		Application Number			
Title of Invention		MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES			

City	Mountain Park	State/Province	GA	Country of Residence	US
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**Mailing Address of Inventor:**

Address 1	181 West Lake Drive				
Address 2					
City	Mountain Park	State/Province	GA		
Postal Code	30075	Country i	US		
Inventor	4				<a href="#">Remove</a>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Kenny	P.	Hefner		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Buchanan	State/Province	GA	Country of Residence	US

  
**Mailing Address of Inventor:**

Address 1	220 Floyd Road				
Address 2					
City	Buchanan	State/Province	GA		
Postal Code	30113	Country i	US		
Inventor	5				<a href="#">Remove</a>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Adam		Finkelstein		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Alpharetta	State/Province	GA	Country of Residence	US

  
**Mailing Address of Inventor:**

Address 1	31 Devonshire Court				
Address 2					
City	Alpharetta	State/Province	GA		
Postal Code	30022	Country i	US		
Inventor	6				<a href="#">Remove</a>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Douglas	J.	Gilormo		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Cumming	State/Province	GA	Country of Residence	US

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number		AUDEY.003C14	
		Application Number			
Title of Invention		MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES			

**Mailing Address of Inventor:**

Address 1		4375 Azurite Street			
Address 2					
City	Cumming	State/Province	GA		
Postal Code	30040	Country i	US		
Inventor	7				<a href="#">Remove</a>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Taylor	R.	Bodnar		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Tucson	State/Province	AZ	Country of Residence i	US

**Mailing Address of Inventor:**

Address 1		100 W. River Road			
Address 2		Apt. 25			
City	Tucson	State/Province	AZ		
Postal Code	85704	Country i	US		
Inventor	8				<a href="#">Remove</a>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	David	C.	Pinckney		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Roswell	State/Province	GA	Country of Residence i	US

**Mailing Address of Inventor:**

Address 1		130 North Pond Court			
Address 2					
City	Roswell	State/Province	GA		
Postal Code	30076	Country i	US		
Inventor	9				<a href="#">Remove</a>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Charlie	E.	Blevins		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Atlanta	State/Province	GA	Country of Residence i	US

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

**Mailing Address of Inventor:**

Address 1	1804 Brighton Point		
Address 2			
City	Atlanta	State/Province	GA
Postal Code	30328	Country i	US
Inventor	10	<a href="#">Remove</a>	
Legal Name			
Prefix	Given Name	Middle Name	Family Name
	Trevor	C.	Jones
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service			
City	Kennesaw	State/Province	GA
		Country of Residence i	US

**Mailing Address of Inventor:**

Address 1	1494 Scarlet Court		
Address 2			
City	Kennesaw	State/Province	GA
Postal Code	30144	Country i	US
Inventor	11	<a href="#">Remove</a>	
Legal Name			
Prefix	Given Name	Middle Name	Family Name
	Helena		Laymon
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service			
City	Duluth	State/Province	GA
		Country of Residence i	US

**Mailing Address of Inventor:**

Address 1	3735 Scotts Mill Run		
Address 2			
City	Duluth	State/Province	GA
Postal Code	30096	Country i	US
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the <a href="#">Add</a> button.			

**Correspondence Information:**

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.	
Customer Number	20995
Email Address	efiling@knobbe.com <a href="#">Add Email</a> <a href="#">Remove Email</a>

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

**Application Information:**

Title of the Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		
Attorney Docket Number	AUDEY.003C14	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	13	Suggested Figure for Publication (if any)	

**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:	<input checked="" type="radio"/> Customer Number	US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	20995		

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

### 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	<a href="#">Remove</a>			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
	Continuation of	17/147323	2021-01-12		
Prior Application Status	Pending	<a href="#">Remove</a>			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
17/147323	Continuation of	16/430210	2019-06-03		
Prior Application Status	Patented	<a href="#">Remove</a>			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16/430210	Continuation of	15/074818	2016-03-18	10444934	2019-10-15
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the <b>Add</b> button.					<a href="#">Add</a>

### 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)<sup>i</sup> 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 <sup>i</sup>	Filing Date (YYYY-MM-DD)	Access Code <sup>j</sup> (if applicable)	<a href="#">Remove</a>
Additional Foreign Priority Data may be generated within this form by selecting the <b>Add</b> button.				<a href="#">Add</a>

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

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.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

<input type="checkbox"/> 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.
---

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

## 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.



<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

## 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.			
<b>Applicant</b>	1	<input type="button" value="Remove"/>	
<p>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.</p>			
		<input type="button" value="Clear"/>	
<input type="radio"/> 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:			
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>			
Name of the Deceased or Legally Incapacitated Inventor: <div style="border: 1px solid black; width: 400px; height: 20px;"></div>			
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	AudioEye, Inc.		
<b>Mailing Address Information For Applicant:</b>			
Address 1	5210 E Williams Circle		
Address 2	Suite 750		
City	Tucson	State/Province	AZ
Country	US	Postal Code	85711
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button. <input type="button" value="Add"/>			

## 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.

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.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

<b>Assignee</b>   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.				
				<a href="#">Remove</a>
If the Assignee or Non-Applicant Assignee is an Organization check here.				<input type="checkbox"/>
Prefix	Given Name	Middle Name	Family Name	Suffix
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Mailing Address Information For Assignee including Non-Applicant Assignee:</b>				
Address 1		<input type="text"/>		
Address 2		<input type="text"/>		
City	<input type="text"/>	State/Province	<input type="text"/>	
Country i	<input type="text"/>	Postal Code	<input type="text"/>	
Phone Number	<input type="text"/>	Fax Number	<input type="text"/>	
Email Address	<input type="text"/>			
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				<a href="#">Add</a>

**Signature:**[Remove](#)

**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.

<b>Signature</b>	/THOMAS YEE/		Date (YYYY-MM-DD)	2021-02-05
First Name	Thomas	Last Name	Yee	Registration Number
				57013
Additional Signature may be generated within this form by selecting the Add button.				<a href="#">Add</a>

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.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	AUDEY.003C14
		Application Number	
Title of Invention	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES		

This collection of information is required by 37 CFR 1.76. 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 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

## 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.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Inventor	:	Sean D. Bradley
App. No.	:	Unassigned
Filed	:	Herewith
For	:	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
Examiner	:	Unassigned
Art Unit	:	Unassigned
Conf. No.	:	Unassigned

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**PRELIMINARY AMENDMENT**

**Mail Stop Amendment**

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

Dear Commissioner:

Please enter the following amendment prior to examination of this application.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 6 of this paper.

**Application No.: Unassigned**  
**Filing Date: Herewith**

## **AMENDMENTS TO THE CLAIMS**

### **1-20 (Cancelled)**

21. (New) A computer-implemented method of programmatically assigning a descriptive attribute to an untagged element on a web page to enable an audible description of the untagged element, the web page having an associated document object model (DOM), the method comprising:

dynamically analyzing, by a computer system, code associated with the web page, the code comprising at least the DOM or HTML code;

detecting, by the computer system, one or more compliance issues relating to web accessibility standards in the code, wherein at least one of the one or more compliance issues comprises the untagged element lacking an adequate descriptive attribute;

applying, by the computer system, one or more pre-existing remediations to the one or more compliance issues, wherein the one or more pre-existing remediations is generated by a remote server system performing at least:

accessing the code associated with the web page;

receiving, by the remote server system, via a remediation interface input from a user, the input comprising a remediation action to manually remediate a non-programmatically-fixable compliance issue associated with the web page;

generating, by the remote server system, the one or more pre-existing remediations based on the input comprising the remediation action to manually remediate a non-programmatically-fixable compliance issue;

storing, by the remote server system, the one or more pre-existing remediations in an electronic data storage medium; and

assigning, by the computer system, a descriptive attribute to the untagged element in the code of the web page based on the one or more pre-existing remediations, the descriptive attribute assigned to the untagged element adapted to enable an assistive technology to speak the descriptive attribute to a user.

22. (New) The computer-implemented method of Claim 21, wherein the one or more pre-existing remediations are javascript.

23. (New) The computer-implemented method of Claim 21, wherein the untagged element is an input field.

**Application No.: Unassigned**  
**Filing Date: Herewith**

24. (New) The computer-implemented method of Claim 21, wherein the untagged element is an image.

25. (New) The computer-implemented method of Claim 21, wherein the untagged element is a title element.

26. (New) The computer-implemented method of Claim 21, wherein the untagged element lacks the adequate descriptive attribute when one or more descriptive attributes of the untagged element are erroneous.

27. (New) The computer-implemented method of Claim 21, wherein the assigning comprises changing the DOM or HTML code associated with the web page.

28. (New) The computer-implemented method of Claim 21, wherein the descriptive attribute is an HTML label.

29. (New) The computer-implemented method of Claim 21, wherein the descriptive attribute is an alt-text label.

30. (New) The computer-implemented method of Claim 21, wherein the computer system comprises one or more computing systems.

31. (New) A non-transitory electronic storage medium with computer code stored thereon, the computer code configured to programmatically assign a descriptive attribute to an element on a web page to enable an audible description of the element, the web page having an associated document object model (DOM), and the computer code configured to perform, when executed by a computer processor, the steps of:

dynamically analyzing, by a computer system, code associated with the web page, the code comprising at least the DOM or HTML code;

detecting, by the computer system, one or more compliance issues relating to web accessibility standards in the code, wherein at least one of the one or more compliance issues comprises the element lacking an adequate descriptive attribute;

applying, by the computer system, one or more pre-existing remediations to the one or more compliance issues, wherein the one or more pre-existing remediations is generated by a remote server system performing at least:

accessing the code associated with the web page;

**Application No.: Unassigned**  
**Filing Date: Herewith**

receiving, by the remote server system, via a remediation interface input from a user, the input comprising a remediation action to manually remediate a non-programmatically-fixable compliance issue associated with the web page;

generating, by the remote server system, the one or more pre-existing remediations based on the input comprising the remediation action to manually remediate a non-programmatically-fixable compliance issue;

storing, by the remote server system, the one or more pre-existing remediations in an electronic data storage medium; and

assigning, by the computer system, a descriptive attribute to the element in the code of the web page based on the one or more pre-existing remediations, the descriptive attribute assigned to the element adapted to enable an assistive technology to speak the descriptive attribute to a user.

32. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the one or more pre-existing remediations are javascript.

33. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the element is an input field.

34. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the element is an image.

35. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the element is a title element.

36. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the element lacks the adequate descriptive attribute when one or more descriptive attributes of the element are erroneous.

37. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the assigning comprises changing the DOM or HTML code associated with the web page.

38. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the descriptive attribute is an HTML label.

39. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the descriptive attribute is an alt-text label.



**Application No.: Unassigned**  
**Filing Date: Herewith**

40. (New) The non-transitory electronic storage medium with computer code stored thereon of Claim 31, wherein the computer system comprises one or more computing systems.

**Application No.: Unassigned**  
**Filing Date: Herewith**

### **REMARKS**

Applicants respectfully request amendment of the claims as set forth above, thereby cancelling Claims 1 – 20 without prejudice and disclaimer. Applicants reserve the right to pursue the canceled claims in this application or in later filed related or continuing applications.

#### *No Disclaimers or Disavowals*

Although the present communication may include alterations to the application or claims, or characterizations of claim scope or referenced art, Applicant is not conceding in this application that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: February 5, 2021

By: /THOMAS Y. YEE/\_\_\_\_\_  
Thomas Y. Yee  
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34368878

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**RESCISSION OF ANY PRIOR DISCLAIMERS AND REQUEST TO REVISIT ART**

Inventor	:	Sean D. Bradley
App. No.	:	Not Yet Assigned
Filed	:	Herewith
For	:	MODULAR SYSTEMS AND METHODS FOR SELECTIVELY ENABLING CLOUD-BASED ASSISTIVE TECHNOLOGIES
Examiner	:	Unassigned
Art Unit	:	Unassigned
Conf. No.	:	Unassigned

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

Dear Commissioner:

The claims of the present application are different and possibly broader in scope than the claims pursued in the parent application(s). To the extent any prior amendments or characterizations of the scope of any claim or referenced art could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant hereby rescinds and retracts such disclaimer. Accordingly, the references previously considered in the parent application(s) may need to be re-visited.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,  
Knobbe, Martens, Olson & Bear, LLP

Dated: February 5, 2021

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34372134

**MODULAR SYSTEMS AND METHODS FOR  
SELECTIVELY ENABLING  
CLOUD-BASED ASSISTIVE TECHNOLOGIES**

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TECHNICAL FIELD

**[0001]** The present invention relates, generally, to systems and methods for selectively enabling cloud-based assistive technologies and, more particularly, to techniques for remediating websites and other graphical user interfaces to enhance the user experience for people with diverse abilities, in particular aging populations and individuals who have vision, hearing, motor, and intellectual disabilities, including those who are color blind, dyslexic, learning to read, and looking to maintain focus, or multi-task.

BACKGROUND

[0002] Screen reader software applications, or simply “screen readers,” translate textual and graphical information displayed on a screen and re-present it to the user using synthesized speech, sound icons, and/or a refreshable Braille output device. Screen readers are a form of assistive technology (AT) potentially useful to the blind, visually impaired, color blind, low vision, dyslexic, illiterate or learning disabled, often in combination with other ATs such as screen magnifiers and tools for manipulating font type, font size, contrast, and the like.

[0003] Native screen readers include the Microsoft Narrator™ for Windows operating systems, Apple’s VoiceOver™ for Mac OS X and iOS, and Google’s TalkBack™ for Android operating systems. The console-based Oralux Linux ships with three console screen-reading environments: Emacspeak™, Yasn™, and Speakup™. Popular free and open source screen readers include the Orca™ for Unix-like systems and NonVisual Desktop Access (NVDA™) for Windows.

[0004] Other screen readers are packaged as separate commercial products such as JAWS™ (Job Access With Speech) from Freedom Scientific, Window-Eyes™ from GW Micro, Dolphin Supernova™ by Dolphin, System Access™ from Serotek, and ZoomText™ Magnifier/Reader from AiSquared.

[0005] The ReadSpeaker™ text-to-speech conversion tool available at ReadSpeaker.com speaks website text aloud, but does

## UTILITY PATENT APPLICATION

not allow the user to jump ahead, navigate thru, or otherwise interact with the site. Rather, the user experience is analogous to using a Kindle™ augmented with a screen reader, where the user is a passive listener. Brousealoud™ by texthelp.com and SiteCues by aiSquared allow the user to dynamically re-direct focus to the cursor while playing synthesized speech.

[0006] Presently known screen readers are limited, however, in that they do not have the ability to remediate sites which do not comply with industry recognized best practices, such as the Web Content Accessibility Guidelines (WCAG) 2.0, Accessible Rich Internet Applications (WAI-ARIA), Authoring Tool Accessibility Guidelines (ATAG), Section 508 Standards & Technical Requirements, and other existing and forthcoming national and international standards and guidelines such as those resources made available at <https://www.w3.org/standards/webdesign/accessibility>. In particular, the WCAG guidelines variously contemplate, *inter alia*, descriptive headings/labels (WCAG 2.4.6), proper form input labels (WCAG 1.1.1), appropriate link purposes (WCAG 2.4.4), and text alternatives for non-text content (WCAG 1.1.1).

[0007] Systems and methods are thus needed which overcome the limitations of prior art assistive technologies. Various features and characteristics will also become apparent from the subsequent detailed description and the appended claims, taken in conjunction with the accompanying drawings and this background section.

BRIEF SUMMARY

[0008] Various embodiments of the present invention relate to systems and methods for, *inter alia*: i) crawling and scanning websites to detect compliance issues relating to web accessibility best practices and standards (which may include but are not limited to WCAG); ii) providing a developer portal for manually fixing compliance issues, including access to libraries of preconfigured blocks of example remediation code; iii) programmatically fixing compliance issues and otherwise enhancing the user experience for people with diverse abilities, in particular aging populations and individuals who have vision, hearing, motor, and intellectual disabilities, including those who are color blind, dyslexic, learning to read, and looking to maintain focus, or multi-task; iv) remediating and enhancing websites and other user interfaces by injecting JavaScript (or similarly functioning code) at the website server, where the JavaScript is configured to manipulate the web page DOM to provide an enhanced, customizable user experience for individuals with disabilities; v) providing a modular suite of assistive technologies which may be independently or concurrently enabled, including a player module for converting text to audible speech, a reader module for manipulating font, contrast, and other visual attributes and for presenting a consistent, simplified and universally designed site and menu layout structure, a voice function to allow the user to interact with the content using voice

## UTILITY PATENT APPLICATION

commands, and a page elements menu module which allows a user to navigate through elements, including but not limited to headings, by dynamically inserting and extracting tab indices which function as page anchors; vi) using a secondary device to control a primary device in the context of assistive technologies; vii) selectively parsing a web page or other content to more efficiently perform text-to-speech conversion; viii) providing new or overriding existing alternative (alt) text, based on heuristics which may include known file paths and hyperlinks; ix) using artificial intelligence (AI) to provide alternative text for photographs, graphics, and videos and to provide audio descriptions of video content; x) periodically checking remediated code to determine if the remediation remains valid; xi) seamlessly integrating culturally appropriate voice fonts into text-to-speech (TTS) conversions based on contextual language tags; xii) using audio sprites to enhance TTS conversion for structured data; and xiii) persisting user interface preferences across diverse domains.

[0009] It should be noted that the various inventions described herein, while illustrated in the context of websites and stand-alone kiosks, are not so limited. Those skilled in the art will appreciate that the systems and methods described herein may contemplate any paradigm in which assistive technologies may be brought to bear to enhance the user experience for individuals with disabilities.

[0010] Moreover, while various embodiments are described as using AE JavaScript, it is understood that any approach which



## UTILITY PATENT APPLICATION

augments existing code to remediate compliance issues and integrate assistive technologies to enhance the user experience for individuals with disabilities is contemplated by the inventions described herein.

[0011] Various other embodiments, aspects, and features are described in greater detail below.

### BRIEF DESCRIPTION OF THE DRAWING FIGURES

[0012] Exemplary embodiments will hereinafter be described in conjunction with the following drawing figures, wherein like numerals denote like elements, and:

[0013] FIG. 1 is a schematic flow diagram of a web crawler process for scanning websites in accordance with various embodiments;

[0014] FIG. 2 is a schematic flow diagram of an exemplary process for real-time auto-detection and audio enablement (RADAE) of page content and element types in accordance with various embodiments;

[0015] FIG. 3 is a schematic flow diagram illustrating the operation of a page elements menu module in accordance with various embodiments;

[0016] FIG. 4 is a schematic flow diagram illustrating an exemplary process for inserting and deleting tab indices in accordance with various embodiments;

## UTILITY PATENT APPLICATION

[0017] FIG. 5 is a schematic flow diagram illustrating an exemplary remediation delivery process in accordance with various embodiments;

[0018] FIG. 6 is a schematic flow diagram illustrating an exemplary smart text lookup process in accordance with various embodiments;

[0019] FIG. 7 is a schematic flow diagram illustrating an exemplary smart image description process in accordance with various embodiments;

[0020] FIG. 8 is a schematic flow diagram illustrating an exemplary smart video description process in accordance with various embodiments;

[0021] FIG. 9 is a schematic flow diagram illustrating the operation of an exemplary TTS process with multi-layer caching in accordance with various embodiments;

[0022] FIG. 10 is a schematic flow diagram illustrating the operation of an exemplary voice module (e.g., AEVoice) in accordance with various embodiments;

[0023] FIG. 11 is a schematic flow diagram illustrating the operation of an exemplary language translation module employing selective voice font in accordance with various embodiments;

[0024] FIG. 12 is a combined schematic block and schematic flow sequence diagram illustrating an exemplary apparatus and method for rendering an AE JavaScript enhanced web page or other user interface in accordance with various embodiments; and

## UTILITY PATENT APPLICATION

[0025] FIG. 13 is a schematic block diagram and flow sequence diagram illustrating the use of a secondary device to control a primary device in accordance with various embodiments.

### DETAILED DESCRIPTION

[0026] The following detailed description of the invention is merely exemplary in nature and is not intended to limit the invention or the application and uses of the invention. Furthermore, there is no intention to be bound by any theory presented in the preceding background or the following detailed description.

[0027] Various embodiments of the present invention relate to systems and methods for bringing websites and other user interfaces into compliance with prevailing standards for accessibility by persons with disabilities. In various embodiments, this is accomplished by scanning the website and programmatically detecting issues in a robust and efficient manner, and injecting code into the HTML document object model (DOM) to facilitate both programmatically and manually remediating the issues, as described in greater detail below.

[0028] More particularly, web pages and other electronic documents accessible online (or otherwise accessible through a graphical user interface (GUI)) typically have an established reading order embodied in the DOM, including visual elements that are tagged with alternative text descriptions. The nodes of the

document are organized in a tree structure, called the DOM tree. When an HTML page is rendered, the browser downloads the HTML into local memory and automatically parses it before displaying the page.

[0029] The W3C Document Object Model (DOM), a W3C (World Wide Web Consortium) standard for accessing documents, is a platform and language-neutral interface that allows programs and scripts (such as JavaScript) to dynamically access and update the content, structure, and style of a document. The HTML DOM is a standard object model and programming interface for HTML, and defines the properties of all HTML elements and the methods to access the HTML elements. In other words, the HTML DOM is a standard for how to get, change, add, delete, or otherwise interact with HTML elements.

[0030] In the context of the present invention, objects in the DOM tree may be addressed and manipulated by an integrated JavaScript code base available from AudioEye, Inc. (AE) at [www.audioeye.com](http://www.audioeye.com), sometimes referred to herein as the AE JavaScript. The AE JavaScript creates client-side interactivity with the objects in the DOM tree.

[0031] When an end-user accesses a website enabled with the techniques described herein, a version of the AE JavaScript is one of the components that loads on that page. When loaded, the JavaScript injects appropriate compliance fixes into the page. Conventional screen readers (such as JAWS, NVDA, or Voice Over)

## UTILITY PATENT APPLICATION

read and process the page, leveraging various compliance remediation techniques applied to the page. Specifically, the AE JavaScript checks for specific non-conformance issues and, if detected, programmatically fixes them.

[0032] In various embodiments, the AE JavaScript enhances the user experience using a series of secure communication links with cloud-based web services, in conjunction with various browser techniques. For example, a real-time auto-detection and audio enablement (RADAE) engine detects page content and element types. Through cascading style sheet (CSS) selector identification and techniques similar to x-path, the AE JavaScript recognizes individual HTML entities based on their placement within the DOM and their tag or other identifier. The AE JavaScript reorganizes the DOM elements into a strategically organized layout and then applies rules for enabling accessibility. In an embodiment, only page markup is altered, not the underlying content. In this way, the original version of the website remains unaltered when viewed without assistive technologies.

[0033] As the user requests page content, real-time TTS (text-to-speech) audio is generated through a secure, encrypted link with cloud-based services. Corresponding audio may be played back to the user using native browser functionality (e.g., a standard HTML5 audio player).

[0034] In an embodiment, the AE JavaScript may be placed in the global include (such as the footer include – just before the

closing </body> tag). Once applied globally, a Call-to-Action icon may be appropriately displayed, for example in the bottom right hand corner of each page.

[0035] In a further embodiment, a website scan performed in accordance with the techniques described below provides publishers with access to compliance reports and remediation controls, allowing the publisher full control over their level of compliance without having to manipulate source code. This access may also include detailed analytics outlining the traffic details and user behaviors, including a log of communications associated with a Help Desk function to facilitate continuous site improvement.

[0036] In accordance with one aspect of the present invention, the system crawls (spiders) the website and gathers the pages to be analyzed in an initial evaluation phase. In this regard, various scanning parameters including maximum crawl time and level of recursion (sometimes referred to as page depth) may be configurable.

[0037] The system then pulls in each URL (page) and evaluates it for WCAG or similar compliance issues. For each identified compliance issue, the system either programmatically fixes the issue (also referred to herein as auto-remediation) or alerts a human to do so. For programmatic as well as manual fixes, the system may utilize one or more code blocks from one or more remediation libraries, for example in a dynamic link library (DLL),

## UTILITY PATENT APPLICATION

JavaScript object notation (JSON) format, database, or other structured storage mechanism.

[0038] The system suitably implements manual and programmatic remediations by first acquiring remediation code during the AE JavaScript loading process, and then applying appropriate remediation code to the rendered content. Remediation code may be acquired as part of the AE JavaScript's initial payload, from a specific URL, or from the AE hosting infrastructure. Remediations immediately manipulate the DOM, causing the corrections and enhancements to take effect at the time the content has finished loading and rendering. Keyboard users are able to use standard keys such as tab to navigate through the remediated page, regardless of whether or not a screen reader or other AT is being utilized, reaping the benefits of the applied DOM manipulations. For users that do not use a stand-alone or native screen reader, the AE JavaScript embodies a player function which may be configured to read the remediated page aloud, as described in greater detail below.

[0039] FIG. 1 is a schematic flow diagram of a crawler or "spider" process 100 capable of generating a list of URLs to be included as part of an initial compliance assessment (scan) of a website, in accordance with various embodiments. In particular, the crawler process 100 utilizes a configuration file to determine the depth of the scan (typically expressed in terms of page depth or levels of recursion), the maximum run time, and the starting URL. The

starting URL is then added as the first element to a page stack (memory) 101.

[0040] With continued reference to FIG. 1, when the AE JavaScript commences the initial scanning phase, the process 100 reaches out to a bridge 102 that spawns a headless browser session (i.e. PhantomJS) 103. Successive URLs are then retrieved and rendered by a link extraction process 104, which detects all links within the rendered DOM and adds unique URLs to the stack 101. The process 100 retrieves successive URLs from the stack and continues crawling until the site is fully cataloged, timeout is reached, or page depth has been exhausted.

[0041] After the crawler or “spider” process completes, the scanning process initiates. The scanning process ingests a set of pages, which may be manually configured, attained via the foregoing crawl/spider process or a variant thereof, or from previous scans. Once ingested, the scanning process iterates through each unique URL, loading the page in a headless browser, applying the AE JavaScript, executing a series of tests, and ultimately delivering the results of the scan back to another process, system, or storage medium.

[0042] Once the website is scanned and initial fixes implemented (through the inclusion of the AudioEye JavaScript), site developers may access a development portal and attend to manual fixes, as discussed in greater detail below. Concurrently, users may access



the remediated site and enjoy the resulting enhanced user experience even before manual remediation is complete.

[0043] More particularly and referring now to FIG. 2, the AE JavaScript may be configured to call a RADAЕ process 200 to initiate real-time auto-detection and audio enablement of page content. The process 200 loads a configuration file (e.g., JSON, XML) to identify the point at which content processing begins. Metadata 201 (e.g., JSON configuration metadata) surrounding the starting node 202 is passed back to the calling process. The process 200 may then request the next or previous item 203.

[0044] With continued reference to FIG. 2, a heuristics engine 204 determines which element should be presented back based on various factors including, *inter alia*: whether the node contains text; whether the node is visible; the relative position of the node on the DOM. Users may request the RADAЕ to move forward or backward through valid elements using the heuristics engine 204. Programmatic (e.g., AE JavaScript) 206 or user initiated 205 changes to the DOM cause the RADAЕ 200 to reevaluate the next or previous element contextually, using the heuristic engine 204.

[0045] Referring now to FIG. 12, a combined schematic block and schematic flow sequence diagram 1200 illustrates an exemplary apparatus and method for rendering a web page or other AE JavaScript enhanced user interface in accordance with various embodiments.

[0046] More particularly, the system includes a user device 1201 suitably equipped with a web browser 1202, a first server 1205 configured to host a website 1204 enhanced with an integrated AE JavaScript code base 1206, and a second server 1208 configured to host various processes and services accessible by the first server including a RADAЕ or analogously functional module 1210 and a TTS module 1212.

[0047] In accordance with various embodiments, the browser requests a web page (Task 1214) from the first server, whereupon the AE JavaScript retrieves the RADAЕ module (Task 1216) from the second server 1208 and returns the RADAЕ module to the user device 1201 for execution by the web browser 1202 (Task 1218). The first server also sends the HTML page and reorganized DOM to the browser (Task 1220). The browser then requests any additional resources (Task 1222), whereupon the AE JavaScript returns remediated page mark-up (Task 1224) and the remediated page is rendered.

[0048] With continued reference to FIG. 12, when the browser requests page content (Task 1226), such as a text-to-audio conversion, the AE JavaScript 1206 running in the local browser requests audio from the second server 120 (Task 1228), and the audio is passed directly back to the browser 1202 for playback to the user (Task 1230).

[0049] In an embodiment, the AE JavaScript facilitates a modular implementation of various ATs, including an audio player

## UTILITY PATENT APPLICATION

function, a screen reader tool suite (e.g., font, magnification, contrast), a voice command feature, and a page elements menu.

[0050] In accordance with another aspect of the invention, user preferences may be persisted across a plurality of domains enabled with the AE JavaScript. In particular, the AE JavaScript may be configured to place a cookie into the browser using an invisible iframe, so that when a user switches domains to another AE enabled site which also has an invisible iframe, the browser is informed that the previous AT preferences have been re-enabled for the new domain, thereby seamlessly enabling the AT functions and preferences (embedded in the browser cookie) across multiple domains without any additional user action. As a result, each time a user starts a new session on an AE JavaScript enabled site, the previous preferences are automatically invoked.

[0051] In accordance with a further aspect of the invention, the AE JavaScript may be configured to inject a branding icon (e.g., the AudioEye burst icon) into an enabled website (e.g., at the bottom right corner), suitably superimposing a timed toggle over the universal accessibility icon and using CSS and/or JavaScript to animate the image. A distinctive audible tone may also be played on the first or every visit to an enabled site as a further branding strategy. These are the visual and audio indicators to the user that the AE JavaScript is loaded and remediations have been applied. Hovering/Clicking on the burst reveals the AudioEye Ally+™ tool

bar, which may include controls for independently enabling the player, the reader, the help desk, and any other desired functions.

[0052] In the context of the present invention, the “call to action” refers to when and how the system toggles from standard site interaction without the AE JavaScript enabled, to site interaction with the AE JavaScript enabled. Low vision keyboard users may tab thru or use keyboard shortcuts to navigate from link to link, with or without a screen reader, until they get to the enabling icon. Mouse users can mouse click directly on the enabling icon to reveal the tool bar and/or initiate the player module. Alternatively, AE JavaScript enabled websites allow the user to press the space bar (or other predetermined key or key combination) to reveal the enabling icon; pressing the escape key terminates execution of any active AE tool. In a further embodiment, pressing an alternative key or key combination (e.g., Alt + Shift + Space Bar) opens the AT tool bar but suppresses the audible player. This is a consequence of the modular approach contemplated by the present invention, as described in greater detail below.

[0053] More particularly, the AE JavaScript suitably implements a modular approach to a suite of assistive technologies, including graphical controls, and audible player, voice (microphone) control, and a page elements menu module. Each module is independent yet stackable upon the other modules. Prior art screen readers, on the other hand, tie the graphic controls to the audio component;

that is, prior art systems highlight text as it is reads aloud, such that the only way to highlight text without also hearing it is to manually pause the audio component after enabling the visual component.

[0054] Once the AE JavaScript is enabled, the user may select the “Skip to main” option which allows keyboard users to drive focus to the main content within the web page, as suggested by WCAG best practices. Thereafter, the user may tab (or other trigger such as Ctrl R) to reveal the page elements menu which allows keyboard users to jump to content using any combination of at least the following page element menus: landmark navigation, page headings, hyperlinks, images, and the like. This can be done using the modular approach of the present invention either with the player (screen reader) function enabled, or silently for tab users who want to jump around the page. In contrast, prior art page element menus (or rotors) are only available if the audible screen reader is engaged.

[0055] FIG. 3 is a schematic flow diagram illustrating the operation of a page elements menu module 300 according to the present invention. In particular, the page items menu module 300 may be configured to parse the DOM 301 to identify elements which are focusable or are of a certain type (e.g., <p>), while filtering out elements that are unable to be spoken. The full element list may be passed to an element classifier 302 which classifies the elements based on the user actions that can be performed on them (e.g., elements which can be clicked on and followed such as a link,

elements which can be filled in such as a form field, text which can be read aloud, and the like). Markup is then generated 303 and passed on for display 304.

[0056] With continued reference to FIG. 3, the markup 303 visually differentiates between content that is currently visible within the viewport, and content that requires scrolling to reveal. In view of the foregoing distinction between visible and non-visible items, changes to the viewport preferably initiate the markup generation process 303 to update the Page Items Menu to reflect the currently visible elements 305.

[0057] When using the Page Elements Menu without engaging the audio player, when an element is selected the AE JavaScript dynamically inserts a tabindex element attribute to anchor the page at the selected object (footer, top of page, link, etc.). When the user thereafter focuses away from the selected element, the AE JavaScript dynamically extracts the tabindex ("anchor"). In this way, referred to herein as ad hoc page navigation, traditionally non-navigable items become navigable as a result of the insertion of temporary tags (when the Page Elements Menu is enabled) and subsequent deletion of the temporary tags when the Page Elements Menu is disabled. The tags may be inserted/extracted individually when each page element is selected using the Page Elements Menu; alternatively, the tags may be inserted/extracted or en masse when the Page Elements Menu is engaged/disengaged.

[0058] FIG. 4 is a schematic flow diagram illustrating an exemplary process of inserting and deleting tab indices. In particular, a user may select an item from a Page Elements Menu 400. The system inspects 401 the menu's target associated with the selection to determine if the user could use the tab key to advance through the content and land on their selection. If the selected item cannot be navigated to using the tab key, a process 402 injects some form of a tabbable markup (e.g., HREF/anchor/tabindex) into the selected item. A process 403 then sets the browser focus to the selected element. Once the user moves from or de-selects 404 the item, a subsequent process 405 removes any injected markup; otherwise, no changes to the DOM are made.

[0059] Various remediation techniques such as improving the DOM through attribute (e.g., alt text) tagging will now be described.

[0060] FIG. 5 is a schematic flow diagram illustrating an exemplary remediation delivery process. In particular, once the AE JavaScript loads 500, manual remediations present in the configuration are applied and executed 501. A process 502 then runs to scan the page to detect compliance issues. Using a heuristics engine 503, detected compliance issues are mapped to pre-existing remediation scripts 504. A process 505 then programmatically executes/applies each matched remediation. Data returned from this process may include issues that existed prior to remediation, issues resolved through individual scripts, and

the level of confidence that each remediation was successful in resolving the compliance issue.

[0061] With reference to FIG. 7, for images lacking an adequate alt text the system may be configured to programmatically send the image to an image recognition server to determine the nature of the image and insert a best fit alt text. By way of non-limiting example, the system may be configured to dynamically insert the phrase “president Obama” or “George Clooney” based on information returned from the image recognition server, in lieu of the missing or default alt text (e.g., “image”). The dynamically inserted text can then be spoken to the user, either using a native screen reader or the AE Player.

[0062] FIG. 7 is a schematic flow diagram illustrating an exemplary smart image description process. In particular, an image 700 is passed to a smart image description system 701. A process 702 then sends the image one or more internal and/or external image recognition systems 703, to obtain one or more interpretations of the image. Image descriptions may then be returned either through a heuristics engine 704 or a natural language engine 705 to generate a human readable, preferably grammatically correct version of the image description, which is then returned 706 to the calling process.

[0063] Referring now to FIG. 6, another auto-remediation feature of the present invention involves Smart Text Replacement. By way of non-limiting example, CNN, Fox News, Bank of America,



and other sites often share similar “Like us on Facebook” and “Follow us on Twitter” elements, which may include tracking pixels to count clicks. As a screen reader user encounters these elements, processing them can be cumbersome if they are not labeled and tagged properly. The AE JavaScript may be configured to identify common file paths with hyperlinks (e.g. a hyperlink to a Facebook “like us” landing page), and programmatically assign best practice descriptive alt text to the element based on the file path/hyperlink. In this way, when a screen reader or the AE player encounters the element, it is properly and consistently vocalized as “like us on Facebook” even if the element is not coded that way.

[0064] FIG. 6 is a schematic flow diagram illustrating an exemplary smart text lookup process 600. In particular, the process 600 may be configured to search the DOM for commonly occurring elements (e.g., Facebook Like Us, advertisements, App Store links) that do not have text descriptions or have ambiguous text descriptions. An element classification process 601 suitably employs a heuristic engine 602 to identify relevant attributes (e.g., HREF) to empower process 603 to apply text description tags to the un-tagged or improperly tagged element.

[0065] The foregoing techniques may be extended to facilitate the programmatic generation of audio description of a video file, for example using artificial intelligence (AI). In one embodiment, a video may be sent to a server which samples the frames and identifies respective images, and using AI techniques returns text

which describes the subject matter of the video file based on similarities and/or differences between/among respective (e.g., successive) frames. The text which is generated is analogous to subtitles displayed during a sporting event. Note that the AI derived description of the video is different from, and can be superimposed onto (or in synchronized conjunction with), the audio track which may accompany the video in the ordinary course.

[0066] FIG. 8 is a schematic flow diagram illustrating an exemplary smart audio description process. In particular, the calling process provides a video 800 to the smart audio description module 801. Each video frame (or a sampling thereof) is passed to a process 802 which sends the images to one or more internal and/or external image recognition systems 803, to thereby obtain a single or multiple interpretations of each image. Sequential differences 806 between successive images may be used to infer the subject matter of the video, and thus a high level description of the video. A heuristic engine 804 or natural language engine 805 generates a TTS convertible text description which is returned 807 to the calling process, along with metadata such as per frame time stamps for use in synchronizing the description with the video track.

[0067] Yet a further feature of the present invention involves auto-remediation of manually fillable form fields. By way of non-limiting example, in order for a screen reader (or the AE player) to determine that the form is requesting the user to enter the user's

## UTILITY PATENT APPLICATION

first name, the developer must code the form label (analogous to a picture's alt text) to indicate that the user is being prompted to enter his or her first name. If the field is not properly labeled, confusion may ensue.

[0068] In accordance with an embodiment, the AE JavaScript may be configured to programmatically inspect nearby text elements and infer and inject an appropriate label based on contextual cues such as the words "name," "first," and "last" as well as relative positions and types of attributes, i.e., a SPAN tag in front of an INPUT field.

[0069] As discussed above, the AE JavaScript may be used to refine the description of an image using a developer portal, whereupon the new alt text is saved and injected into the DOM via AE JavaScript when the page renders. In accordance with a further aspect of the invention, the system may be configured to periodically ping the page containing the remediated alt text to determine if the image is still there and, if not, extract or modify the remediation accordingly. If the image changes, the system may be configured to trigger a prompt to reevaluate the alt text for the new image, and either change or suppress the previously remediated text. The foregoing technique may be extended beyond images to periodically assess the validity of any remediation over time.

[0070] In an embodiment, a developer portal implements a live remediator function which is maintained at a different server from the website being remediated. The developer portal allows the page

being assessed to be launched and displayed within an iFrame available from the developer portal or, alternatively, within a separate browser tab or window outside of the developer portal. Generally analogous to the industry standard web accessibility evaluation (WAVE) tool available at <http://wave.webaim.org>, the developer portal of the present invention embodies a browser plug-in for assessing WCAG-type compliance of web pages, and displays issues detected during the evaluation phase discussed above.

[0071] In an alternative embodiment, the developer portal allows the developer to write the markup while simultaneously viewing the rendered remediating page in real time thru an iFrame from the same developer portal, without having to separately access the underlying website outside of the developer portal.

[0072] As discussed above, once the AE audio player is engaged, the AE JavaScript sends blocks of text from the underlying website server to a text-to-speech (TTS) module at a remote AE server, which returns an audio file to the website server or directly to the end user device in real-time (or near real-time). In this context, the audio player may comprise AE JavaScript code which instructs the native audio driver on the device to stream audio to the user. The logic for determining keyboard focus and, hence, to determine where to start the TTS, resides in the AE JavaScript.

[0073] In one embodiment, the AE JavaScript may be configured to send a predetermined block of words (e.g., 500 words) at a time or one paragraph, whichever is smaller. The system sends the next

paragraph when the audio player is nearly finished speaking the current paragraph. In addition, the system only sends text blocks (e.g., paragraphs) for TTS conversion which are proximate the cursor focus, as opposed to the entire page. This is in contrast to prior art systems which typically send the whole page when the screen reader is engaged.

[0074] FIG. 9 is a schematic flow diagram illustrating the operation of an exemplary TTS process with multi-layer caching. In particular, TTS requests 900 may originate from the audio player embedded in the AE JavaScript or from another calling function. Each TTS request first passes through a text normalization process 901 which removes white space and other noise. A hash may then be generated 902 based on the submitted text, language tag, and desired voice font. The normalized request may optionally be sent to a content delivery network (CDN) 903 that first checks a CDN cache 904; if not found, the request is sent to an asset server 905. The asset server performs its own cache check 906; if not found, a new audio file is requested from the TTS process/API/provider 907.

[0075] With continued reference to FIG. 9, those skilled in the art will appreciate that prior art CDN cache systems typically rely on full URL matches, so that if a user visits site1.com and makes a TTS request for the string "Hello," and thereafter makes the same request at site2.com, prior art CDN systems will create and hold two copies of the same TTS conversion audio file. In contrast, the present asset cache 906 only needs to maintain one copy, inasmuch

as it is based on, for example, the requested text block and voice font (and not the full URL). In this way, only a single request needs to be made to the TTS process for the same text, even across multiple domains.

[0076] Presently known voice applications include Apple's Siri™, Nuance's Dragon™, Windows' Cortana™, and Amazon's Alexa™ which simply drive a user to a web page in response to a voice request; that is, they convert speech to text, apply the text to a database or look-up table, and return a web page or search results for display and loading. The present system, on the other hand, operates inside the web page and interacts with the objects and elements in the page via the DOM to fill out forms, apply for a job, purchase products, and otherwise navigate within and interact with the website, kiosk, or non-web based environment. Moreover, as described in greater detail below, stacking the AEVoice function onto the AE audio player facilitates apparent bi-synchronous oral navigation and execution.

[0077] FIG. 10 is a schematic flow diagram illustrating the operation of an exemplary voice module, sometimes referred to herein as AEVoice, in accordance with the present invention. In particular, the AEVoice module 1000 may be embedded in the AE JavaScript at the website server. The AE JavaScript may be configured to load an iFrame 1001 which links the page to a secure AE URL at a remote server. This iFrame 1001 may be configured to open a WebSocket connection to an AEVoice server 1002. When

## UTILITY PATENT APPLICATION

active, voice data captured via the user's microphone 1003 is streamed to the AEVoice module 1002 via the WebSocket connection in blocks or chunks.

[0078] In one embodiment, voice data may be captured by automatic speech recognition (ASR) software native to the device and supported through the browser application in use, in which case, text is generated locally (from the user's device), thus bypassing the AEVoice WebSocket listener connection and allowing the user to interact with the elements of the web page (DOM) without relying on an ASR API connection with AudioEye.

[0079] Once silence is detected or other suitable metrics indicate the end of a voice chunk by the iFrame 1001, a complete audio file built from the streamed audio is sent to a speech-to-text or ASR API 1004. Text returned from the API 1004 is passed back to the iFrame 1001 for further processing and analysis. The iFrame code may present the user with their spoken text, perform actions or execute processes based on the voice command, or the like.

[0080] In accordance with a further aspect of the present invention, the AEVoice module and the AE audio player functions may be configured to allow users to engage bi-directionally with websites, speaking commands while listening to web content.

[0081] In one embodiment, users can manipulate a visual icon or keyboard shortcut to engage the AEVoice module and its listening capabilities. If the AE audio player is playing content when the user engages the microphone, the audio content may be paused. Normal

## UTILITY PATENT APPLICATION

AEVoice flow proceeds, with audio streamed to the AEVoice service and text returned only after the user stops speaking (or the icon/keyboard shortcut is pressed a second time). If a command is detected, it will be executed; if not, playback of the page content may resume.

[0082] In another embodiment, rather than engaging the visual icon or keyboard short cut as described above, the user may engage the voice function by pressing and holding the icon or shortcut, much like using a Push-to-Talk device.

[0083] In yet another alternative mode intended for users with headsets, the AEVoice software may be configured to always listen, regardless of whether the audio player is outputting audio. The AEVoice system may then make calibration decisions based on detected audio levels, to thereby ascertain when the user is speaking and only sending speech to the AEVoice module when it is determined that the user is speaking.

[0084] In accordance with a further aspect of the invention, the AE audio player may render seamless language transitions based on language tags encountered during web page or other document navigation. For example, when the AE player reading content aloud in English encounters a block of text accompanied by a different language tag (e.g., Spanish), the player may be configured to dynamically and programmatically read the tagged element in the appropriate language (Spanish in this example), and also employ a corresponding Spanish voice font. That is, the AE JavaScript sends



the text block to the TTS engine (at a remote server) along with the language tag, and returns an audio file in the appropriate language and voice font. This concept may be extended so that contextual Help is also spoken based on the then current language tag.

[0085] In this regard, those skilled in the art will appreciate that a voice font is a computer-generated voice that can be controlled by specifying parameters such as speed, pitch, and inflexion and made to pronounce text input. The concept is analogous to a text font in that the same input may be represented in several different ways based on the design of each font.

[0086] FIG. 11 is a schematic flow diagram illustrating the operation of an exemplary language translation module employing selective voice font. In particular, requests made from the AE audio player module 1100 to a CDN 1101 or assets system 1102 may include a language attribute. When present, the assets system 1102 may be configured to utilize an API 1103 to identify the source text language and, if the source and destination languages are different, utilize an API 1104 to translate from one language to another. The assets system 1102 may then select an appropriate voice font icon the destination language and in the appropriate gender (e.g., the user's gender) and return back translated audio.

[0087] In accordance with a further aspect of the present invention, the AE JavaScript may be configured to allow full navigation through the web page hierarchy using only voice commands.

## UTILITY PATENT APPLICATION

[0088] In this regard, presently known systems for using voice to control a computer are limited, and are not well suited for website and menu navigation. For example, Amazon's Echo™ is a hands free, voice controlled speaker which can connect to Alexa™ voice, the brains behind Echo. However, Echo has no keyboard, and no screen, making it difficult if not impossible for use with web page navigation. Although a user could potentially configure presently known voice command systems to order products, those systems do not lend themselves to interacting with a web page in real time to do so. In contrast, the AE JavaScript allows interaction using only the native capabilities of the browser, and using the inherent navigation of the existing web page content as it is currently laid out in the DOM. In this sense, any website configured with the AE JavaScript may be fully controlled and accessed in conjunction with common supported and native ASR software applications such as Siri on iOS.

[0089] By way of further illustration, presently known voice command systems can interact with a native application (such as the Direct TV application) to control the application (for example, changing the channel) in response to a voice command. In contrast, the present invention facilitates interacting with content in an existing *web page hierarchy* using only voice commands.

[0090] Specifically, when a web page enabled with AE JavaScript expects the user to enter text, the AE JavaScript injects code allowing voice to text conversion, so that when the user speaks, the

speech is converted to text in real-time and the corresponding text inserted into the text box or form field on the web page.

[0091] Those skilled in the art will appreciate that voice detection is typically a native browser function which must be enabled in the browser. By way of example, when a user visits a first website and enables voice, the AE JavaScript may be configured to drop a cookie into the browser using an invisible iFrame, so that when the user switches domains to another AE enabled which also has an invisible iframe, the browser is able to detect the presence of a prior authorization for the iFrame and re-enable voice controls for the current domain, with the result that the voice function remains seamlessly enabled across domains without any user action needed. This is because the AE JavaScript looks thru the iframe to find the “permission to use voice” which is embedded in the browser cookie. More generally, browser preferences (e.g., contrast, font size, magnification, reader visualization function enabled) may, thus, be persisted across AE JavaScript enabled domains by dropping cookies in this manner. As a result, each time a user starts an AE experience, the user may do so using the previous preferences.

[0092] In accordance with a further aspect of the present invention, processing efficiencies may be obtained by concatenating a plurality of audio bites into a single audio file, referred to herein as an audio sprite. By analogy, an image sprite is a collection of several images displayed from a single graphics file (e.g., jpeg),

using CSS to define which sub-images appear in which regions of the 2 dimensional space in which the jpeg is rendered. The analogous audio sprite is a small TTS file (e.g., an alphabet/numeric/common name.WAV file), sent from the AE server to the local machine to perform local TTS on text entered by the user into a field such as a form field, search box, or whenever entered text is read back to the user character-by-character. The audio sprite may employ CSS to define which numbers or letters are spoken at particular timed intervals as the audio is rendered (spoken).

[0093] The foregoing aspects of the present invention may be extended to contemplate a secondary device configured to control the primary device on which the website, menu, or other user interface is rendered. With regard to voice commands, the speech to text conversion may occur at the website server, at a remote server, within the primary device while leveraging local ASR resources that may or may not rely on their own remote resources, or on a secondary device such as a mobile device, personal digital assistant, or wearable device (e.g., Fitbit, jawbone, watch, key fob, lanyard, or the like). Device pairing may be accomplished in any desired manner, such as any of the techniques discussed in U.S. Patent 8,903,978 B2 entitled "Method and Apparatus for Pairing a Mobile Device to an Output Device" issued December 2, 2014, the entire contents of which are hereby incorporated herein by this reference.

## UTILITY PATENT APPLICATION

[0094] The secondary device can be configured to control a primary device (e.g., website, airport kiosk, drive up menu, hotel room remote control) which is enabled for voice commands as described above, but which may not have a microphone that is convenient for the user (or none at all). Moreover, many individuals prefer not to touch the primary screen, but are comfortable swiping and otherwise interacting with their own personal (secondary) device screen to control the primary screen.

[0095] By way of non-limiting example, presently known soda dispensing machines and other menu driven interfaces allow users to pair a secondary personal device to the soda machine, and thereby control the operation of the machine using the personal device. In an embodiment, this paradigm may be extended to allow the user to enter voice commands into the personal (secondary) device, and thereby control the primary device (e.g., soda machine, drive up or walk up menu or kiosk) using voice commands, touch screen interaction, gestures, and the like.

[0096] FIG. 13 is a schematic block diagram and flow sequence diagram illustrating the use of a secondary device to control a primary device according to various embodiments.

[0097] More particularly, the system includes a secondary device 1302 (e.g., a mobile telephone or wearable device) suitably equipped with input/output (IO) capability such as a microphone 1301, a touch screen 1305, a haptic module 1305, and/or a speaker 1307. The system further includes a primary device 1304 such as a

product dispensing machine, menu, information kiosk, computer, help desk, or the like, a primary device server 1310 configured to host the interface on the primary device which is suitably enhanced within an integrated AE JavaScript code base, and a second server 1312 configured to host various processes and services accessible by the first server including RADAЕ and/or TTS services.

[0098] In an embodiment, the secondary device requests pairing with the primary device (Task 1230), which confirms the paired arrangement (Task 1322). The user may then interact with the primary device, for example by requesting content (e.g., TTS) (Task 1324), whereupon the primary device passes the request to the primary server (Task 1326), which may be co-located with the primary device. The primary server then accesses an accelerator at the AE server (Task 1328). The AE server 1312 then returns the remediated content to the secondary device (Task 1330), either directly or via the primary device and/or the primary server.

[0099] With continued reference to FIG. 13, the user requests an object (Task 1332) such as a menu item, a form field, or the like, whereupon the primary server selects and returns the object to the secondary device (Task 1334). The user may request that voice commands be enabled (Task 1336), whereupon the AE server acknowledges that voice is enabled (Task 1338). The user speaks a voice command into the secondary device (Task 1440) triggering a speech-to-text conversion which may be processed at the secondary device, the primary device, or the AE server, and a converted text

## UTILITY PATENT APPLICATION

file returned to the primary and/or secondary device (Task 1342). The system then processes the voice command as text (Task 1344), and responds to the command (Task 1346) by taking the requested action (e.g., executing the voice command).

[00100] More generally, the principals and techniques discussed herein may be employed to allow an individual with a disability to effectively reach outside his or her personal circle, using a personal (secondary) device to control or otherwise interact with kiosks, menus, websites, remote controllers, televisions, vehicles, and virtually any other system employing assistive technologies.

[00101] By way of non-limiting example, presently known fast food, product, ticket, and cash (ATM) dispensing, and information kiosks are not well equipped to accommodate visually impaired, low vision, wheel chair bound, or other users who are unable, unwilling, or who simply choose not to interact directly with the primary device (a menu kiosk in this example). By stacking or otherwise integrating some form of the AE JavaScript on the operating system, server, or other control module associated with the primary device, and by pairing or linking the primary and secondary devices together, the user may interact with the kiosk using the personal device.

[00102] In particular, the AE JavaScript may be configured to enable the primary device to speak menu choices aloud to the user, whereupon the user may navigate or otherwise interact with the primary device by speaking into or swiping/touching a touch screen

on the secondary device. In a menu context, for example, the user may be instructed to tap (or speak) the top left quadrant of the screen to select sandwiches, the top right for fries, the bottom left for drinks, the bottom right for more options, and double tap anywhere to exit or return to the previous navigational level. By interacting with the secondary device in a way which mimics the primary device, the assistive technologies embodied in the secondary device may be manifested in the secondary device, effectively extending the reach of individuals with disabilities to all device platforms.

[00103] A method is thus provided for persisting a user preference associated with an assistive technology across multiple web domains. The method includes: installing remediation code on a first server hosting a first website and on a second server hosting a second website; establishing, using a browser operating on a user device, a first session with the first website; enabling an assistive technology during the first session; defining a user preference associated with the assistive technology during the first session; placing, by the remediation code, a cookie into the browser indicating the first user preference; establishing, using the browser operating on the user device, a second session with the second website; and using the cookie to persist the user preference to the second session.



## UTILITY PATENT APPLICATION

[00104] In an embodiment, placing the cookie into the browser comprises passing the cookie through an iframe, where the iframe may comprise an invisible iframe.

[00105] In an embodiment, persisting the user preference to the second session is controlled by the remediation code without any additional user action.

[00106] In an embodiment, the remediation code comprises JavaScript.

[00107] In an embodiment, the first server is remote from the second server.

[00108] In an embodiment, the assistive technology comprises one of: an audio player function; a screen reader tool suite; a voice command feature; and a page elements menu.

[00109] In an embodiment, the screen reader tool suite comprises font, magnification, and contrast controls.

[00110] In an embodiment, the user preference comprises maintaining the assistive technology in the enabled state.

[00111] In an embodiment, the method further includes embedding indicia of the user preference in the browser cookie.

[00112] Computer code stored in a non-transient medium is also provided for performing, when executed by a computer processor, the steps of: superimposing a timed toggle of a branding icon over a universal accessibility icon on a web page; and revealing, in response to a user command, an assistive technology tool bar

## UTILITY PATENT APPLICATION

including controls for independently enabling at least an audio player and a screen reader tool suite.

[00113] In an embodiment, the user command comprises one of hovering over and clicking on the branding icon.

[00114] In an embodiment, independently enabling comprises selecting one of: a first option to enable the audio player without enabling the screen reader tool suite; a second option to enable the screen reader tool suite without enabling the audio player; and a third option to simultaneously enable both the audio player and the screen reader tool suite.

[00115] In an embodiment, superimposing the timed toggle comprises using one of a cascading style sheet (CSS) and JavaScript to periodically animate the branding icon.

[00116] In an embodiment, the assistive technology tool bar further includes a control for independently enabling a help desk function.

[00117] In an embodiment, wherein the computer code comprises JavaScript.

[00118] A method of ad hoc page navigation through a website using a browser is also provided. The method includes: displaying a page element menu comprising a plurality of objects; in response to the selection of one of the objects by a user, dynamically inserting an anchor into the object; displaying the page corresponding to the selected object; and in response to the user focusing away from the selected object, dynamically extracting the anchor from the object.

## UTILITY PATENT APPLICATION

[00119] In an embodiment, the anchor comprises a tabindex element attribute.

[00120] In an embodiment, the plurality of objects comprises at least two of: page heading; hyperlink; image; footer; and top of page.

[00121] In an embodiment, displaying the page comprises setting the browser focus to the selected object.

[00122] A method is also provided for programmatically assigning descriptive alt text to an element on web page having an associated document object model (DOM). The method includes: inspecting the DOM for an improperly tagged element having an associated hyperlink; determining the file path associated with the hyperlink; and assigning an alt text description to the improperly tagged element based on the file path.

[00123] In an embodiment, the improperly tagged element comprises a user prompt to “Like Us on Facebook,” and the file path comprises a link to a Facebook Like Us landing page.

[00124] In an embodiment, the improperly tagged element comprises a user prompt to “Follow Us on Twitter,” and the file path comprises a link to a Twitter Follow Us landing page.

[00125] A method is also provided for programmatically assigning descriptive alt text to an image on web page, the web page having an associated document object model (DOM). The method includes: inspecting the DOM for an image lacking an adequate alt text; sending the image to a remote image recognition server to

## UTILITY PATENT APPLICATION

determine the nature of the image; assigning an alt text description to the image based on the determined image nature; and speaking the alt text description to a user using an assistive technology.

[00126] In an embodiment, the assistive technology comprises one of a native screen reader and an audio player embedded in JavaScript remediation code.

[00127] In an embodiment, the image recognition server comprises an image database and a recognition module for comparing the image to the contents of the image database.

[00128] In an embodiment, the nature of the image comprises one of: a landmark; a location; the name of an object; and the name of a person.

[00129] A method is also provided for programmatically generating an audio description of a video file appearing on web page enhanced with remediation code which includes an embedded audio player. The method includes: sending the video file to a remote image recognition server; sampling respective frames of the video file and identifying corresponding respective images; using artificial intelligence (AI) techniques to determine the subject matter of the video file based on differences between successive frames; returning a text-to-speech (TTS) convertible text file which describes the subject matter of the video; and speaking the text file to a user using the embedded audio player.

[00130] In an embodiment, the text file comprises metadata for use in synchronizing the text file with the video file.

[00131] In an embodiment, the metadata comprises respective timing data associated with each of a plurality of the respective frames.

[00132] A method is also provided for enhancing a web page hosted by a first server to render the page navigable by low vision users through voice commands. The method includes: in response to the keyboard selection of a text element by a user, the text element being of the type which prompts the user to enter an answer into a field on the web page, generating a text-to-speech (TTS) file corresponding to the text element; processing the TTS file to thereby audibilize the text element to the user; capturing a recording of the user speaking the answer; sending the recording to a second server; generating a speech-to-text (STT) file of the recording at the second server; and processing the STT file at the first server to thereby enter the answer into the field.

[00133] In an embodiment, the method further includes establishing a WebSocket connection between the first and second servers.

[00134] In an embodiment, the method further includes suspending audibilizing the text element to the user while the user is speaking the answer.

[00135] In an embodiment, the method further includes resuming audibilizing the text element to the user when the user is finished speaking the answer.

## UTILITY PATENT APPLICATION

[00136] In an embodiment, the answer comprises a voice command.

[00137] In an embodiment, the web page comprises a form and the field comprises one of a plurality of information fields required to fill out the form.

[00138] The method of claim 31, further comprising audibilizing the answer to the user as the answer is entered into the field.

[00139] In an embodiment, the method further includes using an audio sprite to facilitate audibilizing the answer to the user as the answer is entered into the field.

[00140] In an embodiment, the audio sprite comprises a CSS to define which characters are audibilized at particular timed intervals.

[00141] A method is also provided for controlling a primary device using a hand held device to allow low vision users to access the primary device using the hand held device. The method includes: pairing the hand held device with the primary device; displaying a menu of elements on the primary device; speaking a voice command into the hand held device; sending the voice command to a remote server to generate a STT file of the voice command; and processing the STT file by the primary device to execute the voice command.

[00142] As used herein, the word “exemplary” means “serving as an example, instance, or illustration.” Any implementation described herein as “exemplary” is not necessarily to be construed

## UTILITY PATENT APPLICATION

as preferred or advantageous over other implementations, nor is it intended to be construed as a model that must be literally duplicated.

[00143] While the foregoing detailed description will provide those skilled in the art with a convenient road map for implementing various embodiments of the invention, it should be appreciated that the particular embodiments described above are only examples, and are not intended to limit the scope, applicability, or configuration of the invention in any way. To the contrary, various changes may be made in the function and arrangement of elements described without departing from the scope of the invention.

CLAIMS

1. A method of persisting a user preference associated with an assistive technology across multiple web domains, comprising:

installing remediation code on a first server hosting a first website and on a second server hosting a second website;

establishing, using a browser operating on a user device, a first session with the first website;

enabling an assistive technology during the first session;

defining a user preference associated with the assistive technology during the first session;

placing, by the remediation code, a cookie into the browser indicating the first user preference;

establishing, using the browser operating on the user device, a second session with the second website; and

using the cookie to persist the user preference to the second session.

2. The method of claim 1, wherein placing the cookie into the browser comprises passing the cookie through an iframe.

3. The method of claim 2, wherein the iframe comprises an invisible iframe.



## UTILITY PATENT APPLICATION

4. The method of claim 1, wherein persisting the user preference to the second session is controlled by the remediation code without any additional user action.
5. The method of claim 1, wherein the remediation code comprises JavaScript.
6. The method of claim 1, wherein the first server is remote from the second server.
7. The method of claim 1, wherein the assistive technology comprises one of: an audio player function; a reader tool suite; a voice command feature; and a page elements menu.
8. The method of claim 7, wherein the reader tool suite comprises font, magnification, and contrast controls.
9. The method of claim 1, wherein the user preference comprises maintaining the assistive technology in the enabled state.
10. The method of claim 1, further comprising embedding indicia of the user preference in the browser cookie.
11. Computer code stored in a non-transient medium and configured to perform, when executed by a computer processor, the steps of:  
  
superimposing a timed toggle of a branding icon over a universal accessibility icon on a web page; and

## UTILITY PATENT APPLICATION

revealing, in response to a user command, an assistive technology tool bar including controls for independently enabling at least an audio player and a reader tool suite.

12. The computer code of claim 11, wherein the user command comprises one of hovering over and clicking on the branding icon.

13. The computer code of claim 11, wherein independently enabling comprises selecting one of: a first option to enable the audio player without enabling the reader tool suite; a second option to enable the reader tool suite without enabling the audio player; and a third option to simultaneously enable both the audio player and the reader tool suite.

14. The computer code of claim 11, wherein superimposing the timed toggle comprises using one of a cascading style sheet (CSS) and JavaScript to periodically animate the branding icon.

15. The computer code of claim 11, wherein the assistive technology tool bar further includes a control for independently enabling a help desk function.

16. The computer code of claim 11, wherein the computer code comprises JavaScript.

17. A method of ad hoc page navigation through a website using a browser, comprising:

displaying a page element menu comprising a plurality of objects;

## UTILITY PATENT APPLICATION

in response to the selection of one of the objects by a user,  
dynamically inserting an anchor into the object;

displaying the page corresponding to the selected object; and

in response to the user focusing away from the selected  
object, dynamically extracting the anchor from the object.

18. The method of claim 17, wherein the anchor comprises a  
tabindex element attribute.

19. The method of claim 17, wherein the plurality of objects  
comprise at least two of: page heading; hyperlink; image; footer;  
and top of page.

20. The method of claim 17, wherein displaying the page  
comprises setting the browser focus to the selected object.

21. A method of programmatically assigning descriptive alt text  
to an element on web page, the web page having an associated  
document object model (DOM), comprising:

inspecting the DOM for an improperly tagged element  
having an associated hyperlink;

determining the file path associated with the hyperlink; and

assigning an alt text description to the improperly tagged  
element based on the file path.

## UTILITY PATENT APPLICATION

22. The method of claim 21, wherein the improperly tagged element comprises a user prompt to “Like Us on Facebook,” and the file path comprises a link to a Facebook Like Us landing page.

23. The method of claim 21, wherein the improperly tagged element comprises a user prompt to “Follow Us on Twitter,” and the file path comprises a link to a Twitter Follow Us landing page.

24. A method of programmatically assigning descriptive alt text to an image on web page, the web page having an associated document object model (DOM), comprising:

inspecting the DOM for an image lacking an adequate alt text;

sending the image to a remote image recognition server to determine the nature of the image;

assigning an alt text description to the image based on the determined image nature; and

speaking the alt text description to a user using an assistive technology.

25. The method of claim 24, wherein the assistive technology comprises one of a native screen reader and an audio player embedded in JavaScript remediation code.

## UTILITY PATENT APPLICATION

26. The method of claim 24, wherein the image recognition server comprises an image database and a recognition module for comparing the image to the contents of the image database.

27. The method of claim 24, wherein the nature of the image comprises one of: a landmark; a location; the name of an object; and the name of a person.

28. A method of programmatically generating an audio description of a video file appearing on web page enhanced with remediation code which includes an embedded audio player, the method comprising:

    sending the video file to a remote image recognition server;

    sampling respective frames of the video file and identifying corresponding respective images;

    using artificial intelligence (AI) techniques to determine the subject matter of the video file based on differences between successive frames;

    returning a text-to-speech (TTS) convertible text file which describes the subject matter of the video; and

    speaking the text file to a user using the embedded audio player.

29. The method of claim 28, wherein the text file comprises metadata for use in synchronizing the text file with the video file.

## UTILITY PATENT APPLICATION

30. The method of claim 29, wherein the metadata comprises respective timing data associated with each of a plurality of the respective frames.

31. A method of enhancing a web page hosted by a first server to render the page navigable by users with diverse abilities through voice commands, comprising:

in response to the keyboard selection of a text element by a user, the text element being of the type which prompts the user to enter an answer into a field on the web page, generating a text-to-speech (TTS) file corresponding to the text element;

processing the TTS file to thereby verbalizing the text element to the user;

capturing a recording of the user speaking the answer;

sending the recording to a second server;

generating a speech-to-text (STT) file of the recording at the second server; and

processing the STT file at the first server to thereby enter the answer into the field.

32. The method of claim 31, further comprising establishing a WebSocket connection between the first and second servers.

## UTILITY PATENT APPLICATION

33. The method of claim 31, further comprising suspending verbalizing the text element to the user while the user is speaking the answer.

34. The method of claim 33, further comprising resuming verbalizing the text element to the user when the user is finished speaking the answer.

35. The method of claim 31, wherein the answer comprises a voice command.

36. The method of claim 31, wherein the web page comprises a form and the field comprises one of a plurality of information fields required to fill out the form.

37. The method of claim 31, further comprising verbalizing the answer to the user as the answer is entered into the field.

38. The method of claim 37, further comprising using an audio sprite to facilitate verbalizing the answer to the user as the answer is entered into the field.

39. The method of claim 38, wherein the audio sprite comprises a CSS to define which characters are verbalized at particular timed intervals.

40. A method of controlling a primary device, hosted by a remote server, using a hand held device to allow individuals with disabilities to interact with the primary device using the hand held device, the method comprising:

## UTILITY PATENT APPLICATION

pairing the hand held device with the primary device;

displaying a menu of elements on the primary device;

entering a command into the hand held device;

sending the command to the remote server;

returning an instruction based on the command from the remote server to the primary device; and

executing the instruction by the primary device.

41. The method of claim 40 wherein the command comprises a voice command, the method further comprising:

generating an STT file of the voice command at the remote server; and

processing the STT file by the primary device to execute the voice command.



## UTILITY PATENT APPLICATION

### ABSTRACT

Methods and systems for manual and programmatic remediation of websites. JavaScript code is accessed by a user device and optionally calls TTS, ASR, and RADAЕ modules from a remote server to thereby facilitate website navigation by people with diverse abilities.