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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/449,054	09/27/2021	Kazuhito KOISHIDA	402572-US02-CON	4117
196165	7590	03/18/2025	EXAMINER	
Alleman Hall & Tuttle LLP/Microsoft			VILLENNA, MARK	
900 SW 5th Avenue			ART UNIT	
Suite 2300			PAPER NUMBER	
Portland, OR 97204			2658	
			NOTIFICATION DATE	
			DELIVERY MODE	
			03/18/2025	
			ELECTRONIC	

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

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APPLICATION NO.	ISSUE DATE	PATENT NO.
17/449,054	18-Mar-2025	12253620

Alleman Hall & Tuttle LLP/Microsoft
900 SW 5th Avenue
Portland, OR 97204

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196165 7590 02/26/2025
Alleman Hall & Tuttle LLP/Microsoft
900 SW 5th Avenue
Suite 2300
Portland, OR 97204

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at <https://patentcenter.uspto.gov/>. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

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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 360 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 Center (<https://patentcenter.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 Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional inventors):

Kazuhito KOISHIDA, Redmond, WA;
Alexander A. POPOV, Kirkland, WA;
Uros BATRICEVIC, Redmond, WA;
Steven Nabil BATHICHE, Bellevue, WA;

APPLICANT(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional applicants):

Microsoft Technology Licensing, LLC, Redmond, WA;

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02/20/2025	02/21/2025	17449054

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20252JJ07226111	1820	RCE- 2ND AND SUBSEQUENT REQUEST	\$2,860.00	Visa



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02/20/2025	17449054	\$2,860.00

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I2025JJ07226111	1820	RCE- 2ND AND SUBSEQUENT REQUEST	\$2,860.00	Visa	*****6158

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STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Change(s) applied

to document,

Application Number	17449054
Filing Date	2021-09-27
First Named Inventor	Kazuhito Koishida
Art Unit	2658
Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

NCC

2/12/2025

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	16	20150301796	A1	2015-10	Erik Visser Et al	
	17	20160055240	A1	2016-02	Gokhan Tur Et al	
	18	20160080165	A1	2016-03	Farzad Ehsani Et al	
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	21	20160358092	A1	2016-12	Christopher Kurpinski Et al	
	22	20160370879	A1	2016-12	Manoj Sharma	
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	24	20170060521	A1	2017-03	Caitlin E. Cellier Et al	
	25	20170351749	A1	2017-12-07	Christopher Brian Quirk Et al	

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	5	20120274464	A1	2012-11	Jeffrey Michael Sweeney Et al	
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	9	20140282893	A1	2014-09	Micah Sheller Et al	
	10	20140288934	A1	2014-09	Michael R Kennewick Et al	
	11	20140365209	A1	2014-12	GUNNAR EVERMANN	
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	21	9214157	B2	2015-12-15	Srinivas Bangalore	
	22	9386359	B2	2016-07-05	B. Thomas Adler Et al	
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	1	20030135382	A1	2003-07	Richard Marejka Et al	
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	10	20130222226	A1	2013-08	Michiel Terlouw	
	11	20130342672	A1	2013-12	Timothy T. Gray Et al	
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	18	20140297284	A1	2014-10	Thomas R. GRUBER Et al	
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2/12/2025

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21	9477643	B2	2016-10-25	Rakesh Barve Et al	
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	2	20050108074	A1	2005-05	Peter E Bloechl Et al	
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23	20160364382	A1	2016-12	Ruhi Sarikaya	
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	23	20030046401	A1	2003-03	Kenneth H. Abbott	
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	2	20070263823	A1	2007-11	Teemu Jalava Et al	
	3	20090094555	A1	2009-04	Tomi Viitala	



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

PatentDocket@allemanhall.com
msdocket@microsoft.com
uspto+986068@dockettrak.com

Notice of Allowability	Application No. 17/449,054	Applicant(s) KOISHIDA et al.	
	Examiner MARK VILLENA	Art Unit 2658	AIA (FITF) Status 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 02/03/2025.
☐ 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 1-20. 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 or send an inquiry to 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 _____. 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	5. ☐ Examiner's Amendment/Comment 6. ☐ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
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/ MARK VILLENA/
Examiner, Art Unit 2658

Doc code: IDS

PTO/SB/08a (01-22)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		17449054	
	Filing Date		2021-09-27	
	First Named Inventor	Kazuhito KOISHIDA		
	Art Unit	2658		
	Examiner Name	MARK VILLENA		
	Attorney Docket Number	402572-US02-CON		

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	1	20140195247	A1	2014-07-10	PARKINSON CHRISTOPHER		
	2	20150011842	A1	2015-01-08	STEINBERG-SHAPIRA SHIRLEY		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17449054
Filing Date	2021-09-27
First Named Inventor	Kazuhito KOISHIDA
Art Unit	2658
Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Decision to grant a European patent pursuant to Article 97(1) received in European Application No. 19727161.2, (MS# 404308-EP01-PCT) mailed on January 16, 2025, 2 pages.	☐
	2	Hearing Notice Issued in Indian Patent Application No. 201947030165 (MS# 402572-IN-PCT), mailed on January 20, 2025, 3 Pages.	☐

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EXAMINER SIGNATURE

Examiner Signature	/MARK VILLENA/	Date Considered	02/08/2025
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17449054		
Filing Date	2021-09-27		
First Named Inventor	Kazuhito KOISHIDA		
Art Unit	2658		
Examiner Name	MARK VILLENA		
Attorney Docket Number	402572-US02-CON		

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☐ A certification statement is not submitted herewith.

FEE

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

COPIES

☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Lisa Tom/	Date (YYYY-MM-DD)	2025-02-03
Name/Print	Lisa Tom	Registration Number	52,291

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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.



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17449054

Effective Date

02/03/2025

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I202524C55165193	1806	SUBMISSION- INFORMATION DISCLOSURE STMT	\$280.00	Deposit Account

**PATENT TERM ADJUSTMENT
STATEMENT UNDER 37 CFR 1.704(d)**

Application Number	17/449,054
Filing Date	September 27, 2021
First Named Inventor	Kazuhito KOISHIDA
Art Unit	2658
Examiner Name	MARK VILLENA
Practitioner Docket No.	402572-US02-CON

APPLICANT HEREBY STATES THE FOLLOWING (please review 37 CFR 1.704(d) before filing this form):



Each item of information contained in the information disclosure statement was first cited in any communication from a patent office in a counterpart foreign or international application or from the Office, and this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the information disclosure statement.

AND/OR



Each item of information contained in the information disclosure statement is a communication that was issued by a patent office in a counterpart foreign or international application or by the Office, and this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the information disclosure statement.

INSTRUCTIONS:

- **This form will not satisfy the requirement of 37 CFR 1.97(e).** The present statement is filed under 37 CFR 1.704(d) and will not substitute for compliance with any of the requirements of 37 CFR 1.97 and 1.98. For an information disclosure statement to comply with 37 CFR 1.97(c) or (d), the information disclosure statement must be accompanied by a statement under 37 CFR 1.97(e) notwithstanding any statement filed under 37 CFR 1.704(d).
- The present form (PTO/SB/133) should be filed concurrently with the information disclosure statement to derive benefit under 37 CFR 1.704(d).

Signature	/Lisa Tom/	Date	2025-02-03
Typed or Printed Name	Lisa Tom	Practitioner Registration Number	52,291
Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below*.			
☐	*Total of _____ forms are submitted.		

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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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.



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GRANT LETTER

APPLICATION #	DECISION DATE	DECISION ON PETITION #	ATTORNEY DOCKET NUMBER
17/449,054	02/03/2025		402572-US02-CON

Title of Invention

MULTI-USER INTELLIGENT ASSISTANCE

In re Application of Kazuhito KOISHIDA

This is an electronic decision on the petition under , filed February 03, 2025 to withdraw the above-identified application from issue after payment of the issue fee.

The request is **GRANTED**.

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

The application is being referred to Technology Center AU for

Telephone inquired concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

Office of Petitions



UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/449,054

RECEIPT DATE / TIME
02/03/2025 02:52:47 PM Z ET

ATTORNEY DOCKET #
402572-US02-CON

Title of Invention

MULTI-USER INTELLIGENT ASSISTANCE

Application Information

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

PATENT # -

CONFIRMATION # 4117

FILED BY Lisa Tom

PATENT CENTER # 69026902

FILING DATE 09/27/2021

CUSTOMER # 196165

FIRST NAMED INVENTOR Kazuhito KOISHIDA

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 8

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-request.pdf	2	ePetition Request Form	29 KB
QPIDS.REQ_402572-US02-CON.pdf	2	Quick Path Information Disclosure Statement	147 KB
PTA.IDS_402572-US02-CON.pdf	2	Patent Term Adjustment Statement under 37 CFR 1.704(d) filed with an IDS	259 KB
IDSForm_402572-US02-CON.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1331 KB
IDS.SIZEFEE_402572-US02-CON.pdf	2	Assertion regarding Information Disclosure Statement (IDS) Size Fee (SB/08C)	225 KB
RCEX_402572-US02-	3	Request for Continued	1628 KB

Patent Owner Ex. 2105

Page 30 of 134

CON.pdf		Examination (RCE)	
1_NPL_EP_Decision_to_grant_97_1_197271612_16Jan2025.pdf	2	Non Patent Literature	1162 KB
2_NPL_INOA_201947030165_20Jan2025.pdf	3	Non Patent Literature	1489 KB

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DOCUMENT	MESSAGE DIGEST(SHA-512)
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1_NPL_EP_Decision_to_grant_97_1_197271612_16Jan2025.pdf	A3E1CF5F8A1AFA742DFA56614EC3E21EF1A433B32AE522683EFEED287F5EF69AED4DF95FDE6C5D18D2C5FBA6F7A2035499676CE1E40A096E4C8B335C80D73332
2_NPL_INOA_201947030165_20Jan2025.pdf	AD9CEF6DC0074540BC83D9A1487EAD299682D28C985ED6BDFED413CA7CA52DC9511032CAF6F876AF610BB8495DEA30F5097411488F447B2F3B4F0D79BD02E15E

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

Patent Owner Ex. 2105

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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		17449054
	Filing Date		2021-09-27
	First Named Inventor	Kazuhito KOISHIDA	
	Art Unit	2658	
	Examiner Name	MARK VILLENA	
	Attorney Docket Number	402572-US02-CON	

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	1	20140195247	A1	2014-07-10	PARKINSON CHRISTOPHER		
	2	20150011842	A1	2015-01-08	STEINBERG-SHAPIRA SHIRLEY		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17449054
Filing Date	2021-09-27
First Named Inventor	Kazuhito KOISHIDA
Art Unit	2658
Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Decision to grant a European patent pursuant to Article 97(1) received in European Application No. 19727161.2, (MS# 404308-EP01-PCT) mailed on January 16, 2025, 2 pages.	☐
	2	Hearing Notice Issued in Indian Patent Application No. 201947030165 (MS# 402572-IN-PCT), mailed on January 20, 2025, 3 Pages.	☐

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EXAMINER SIGNATURE

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

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17449054
Filing Date	2021-09-27
First Named Inventor	Kazuhito KOISHIDA
Art Unit	2658
Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

CERTIFICATION STATEMENT

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OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☐ A certification statement is not submitted herewith.

FEE

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

COPIES

☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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Signature	/Lisa Tom/	Date (YYYY-MM-DD)	2025-02-03
Name/Print	Lisa Tom	Registration Number	52,291

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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.**

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.

CERTIFICATION AND REQUEST FOR CONSIDERATION OF AN INFORMATION DISCLOSURE STATEMENT FILED AFTER PAYMENT OF THE ISSUE FEE UNDER THE QPIDS PROGRAM	
Non-Provisional Application Number: 17/449,054	Filing Date: September 27, 2021
First Named Inventor: Kazuhito KOISHIDA	Title of Invention: MULTI-USER INTELLIGENT ASSISTANCE
THE UNDERSIGNED HEREBY CERTIFIES AND REQUESTS THE FOLLOWING FOR THE ABOVE- IDENTIFIED APPLICATION. 1. Consideration is requested of the information disclosure statement (IDS) submitted herewith, which is being filed after payment of the issue fee. 2. Check one of the following boxes: ☒ Each item of information contained in the IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS. See 37 CFR 1.97(e)(1). ☐ No item of information contained in the IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the IDS. See 37 CFR 1.97(e)(2). ☐ See attached certification statement in compliance with 37 CFR 1.97(e). 3. The IDS size fee written assertion under 37 CFR 1.98 is submitted herewith as (i) part of the PTO/SB/08 – Patent Center IDS, or equivalent, or (ii) an additional IDS paper, such as the form PTO/SB/08c or equivalent. 4. If an IDS size fee is due, the Director is authorized to charge the IDS size fee under 37 CFR 1.17(v) in the amount of \$ _____ for the IDS submitted herewith to deposit account _____. (Do not complete if this information is being provided on the form PTO/SB/08c, or equivalent). <u>WARNING:</u> Failure to include the assertion and/or an authorization to charge to a deposit account the applicable IDS size fee will result in automatic entry of the RCE and the IDS will be placed in the file but not considered. 5. The Director is authorized to charge the IDS timing fee under 37 CFR 1.17(p) to deposit account <u>601577</u>. 6. A Petition to Withdraw from Issue After Payment of the Issue Fee (37 CFR 1.313(c)(2)), including the petition fee set forth in 37 CFR 1.17(h), is submitted herewith as a <u>Web-based ePetition</u>. <u>WARNING:</u> Failure to use the Web-based ePetition interface will result in automatic entry of the RCE. 7. A request for continued examination (RCE) under 37 CFR 1.114 and the RCE fee under 37 CFR 1.17(e) are submitted herewith. 8. The RCE for a compliant QPIDS will be treated as a “conditional” RCE. In the event the examiner determines that any item of information contained in the IDS necessitates the reopening of prosecution in the application, the undersigned understands that (i) the RCE will be processed and treated as an RCE under 37 CFR 1.114 and therefore (ii) the IDS fee under 37 CFR 1.17(p) will be returned in accordance with 37 CFR 1.97(b)(4). In the event that no item of information in the IDS necessitates reopening prosecution, the undersigned understands that the RCE will not be processed and the RCE fee under 37 CFR 1.17(e) will be returned. 9. This certification and request is being filed as a <u>Web-based ePetition</u> and is not accompanied by an amendment to the application. Inclusion of an amendment will result in automatic entry of the RCE.	
Signature /Lisa Tom/	Date 2025-02-03
Name (Print/Typed) Lisa Tom	Practitioner Registration Number 52,291 (If applicable)
<u>Note:</u> This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. The party signing this form must be a listed fee payer for the above-identified deposit account in the USPTO's online fee payment management tool. Submit multiple forms if more than one signature is required and complete below.*	
☐ *Total of _____ forms are submitted.	

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

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013), <https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf>.

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) 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)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

INFORMATION DISCLOSURE STATEMENT SIZE FEE – WRITTEN ASSERTION UNDER 37 CFR 1.98

Complete if Known

Application or Patent No.: 17/449,054	First Named Inventor: Kazuhito KOISHIDA	Art Unit: 2658
Filing Date: September 27, 2021	Attorney Docket Number: 402572-US02-CON	Examiner: MARK VILLENA

Please see 37 CFR 1.17(v) and attached Instructions for completing this form to make the appropriate selection of an assertion under 37 CFR 1.98. For the information disclosure statement (IDS) submitted herewith, the applicant or patent owner certifies the following with respect to the cumulative number of applicant-provided or patent-owner provided items of information submitted to date including those in the accompanying IDS (select only one):

- ☒ No IDS size fee is required under 37 CFR 1.17(v) at this time.
- ☐ The IDS is accompanied by the IDS size fee under 37 CFR 1.17(v)(1).
- ☐ The IDS is accompanied by the IDS size fee under 37 CFR 1.17(v)(2).
- ☐ The IDS is accompanied by the IDS size fee under 37 CFR 1.17(v)(3).

NOTE: This form must be accompanied by PTO/SB/08a and/or PTO/SB/08b or equivalent.

DEPOSIT ACCOUNT

The Director is authorized to charge the fee indicated above in the amount of \$ _____ for the IDS submitted herewith to deposit account _____.

SIGNATURE

This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications.

If applicant or patent owner is a juristic entity (e.g., an LLC or corporation), this form must be signed by a registered practitioner. See 37 CFR 1.31.

If applicant or patent owner is a person or persons, this form may be signed by either a registered practitioner, or the applicant or patentee. Note that if multiple people together are the applicant or patentee (e.g., there are joint inventors who together are the applicant), then a signature is required from each person who is an applicant or patentee. *Submit multiple forms if more than one signature is required, see below*.*

Signature /Lisa Tom/	Date 2025-02-03
Name (Print/Typed) Lisa Tom	Practitioner Registration Number (if applicable) 52,291

☐ * Total of _____ forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0070. Public burden for this form is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Office of the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. 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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Routine uses of the information in this record may include disclosure to:

- 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
- 2) a federal, state, local, or international agency, in response to its request;
- 3) a contractor of the USPTO having need for the information in order to perform a contract;
- 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
- 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
- 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
- 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
- 8) 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));
- 9) the Office of Personnel Management (OPM) for personnel research purposes; and
- 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.



P.O. Box 1450
Alexandria, VA 22313 - 1450
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PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)(2)

APPLICATION #
17449054

ATTORNEY DOCKET #
402572-US02-CON

FILING DATE
09/27/2021

Title of Invention

MULTI-USER INTELLIGENT ASSISTANCE

Application Information

CONFIRMATION # 4117

FILING DATE 09/27/2021

ART UNIT 2658

FIRST NAMED INVENTOR Kazuhito KOISHIDA

EXAMINER MARK VILLENA

An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary.

APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c).

A grantable petition requires the following items:

- (1) Petition fee; and
- (2) One of the following reasons: A grantable petition requires the following items: (a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable;
- (b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or
- (c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).

Reason for withdrawal

Consideration of a request for continued examination (Quick Path Information Disclosure Statement) - RCE request,

submission, and fee are attached

Applicant claims the following entity status
Regular Undiscounted

Signature

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:
An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application

Signature	Name	Registration #
/Lisa Tom/	Lisa Tom	52291



UNITED STATES
PATENT AND TRADEMARK OFFICE

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

ELECTRONIC PAYMENT RECEIPT

APPLICATION #
17/449,054

RECEIPT DATE / TIME
02/03/2025 02:52:47 PM Z ET

ATTORNEY DOCKET #
402572-US02-CON

Title of Invention

MULTI-USER INTELLIGENT ASSISTANCE

Application Information

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

PATENT # -

CONFIRMATION # 4117

FILED BY Lisa Tom

PATENT CENTER # 69026902

AUTHORIZED BY -

CUSTOMER # 196165

FILING DATE 09/27/2021

CORRESPONDENCE ADDRESS -

FIRST NAMED INVENTOR Kazuhito KOISHIDA

Payment Information

PAYMENT METHOD
CARD / 6158

PAYMENT TRANSACTION ID
E202523E53347005

PAYMENT AUTHORIZED BY
Lisa Tom

PRE-AUTHORIZED ACCOUNT
601577

PRE-AUTHORIZED CATEGORY
37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1464	PETITIONS REQUIRING THE PETITION FEE SET FORTH IN 37 CFR 1.17(H) (GROUP III)	150.00	1	150.00
1820	REQUEST FOR CONTINUED EXAMINATION (RCE)- 2ND AND SUBSEQUENT REQUEST (SEE 37 CFR 1.114)	2860.00	1	2860.00
TOTAL AMOUNT:				\$3,010.00

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.

Application No. 17/449,054

10,621,478	Albadawi et al.	April 14, 2020
10,467,510	Albadawi et al.	November 5, 2019
11,017,765	Solomon et al.	May 25, 2021
10,496,905	Solomon et al.	December 3, 2019
11,126,825	Herold et al.	September 21, 2021
10,460,215	Herold et al.	October 29, 2019
2018-0233140	Koishida et al.	August 16, 2018
10,984,782	Finkelstein et al.	April 20, 2021
10,628,714	Pradeep et al.	April 21, 2020
10,579,912	Holtmann	March 3, 2020
10,817,760	Pradeep et al.	October 27, 2020
10,824,921	Bathiche et al.	November 3, 2020
11,010,601	Bathiche et al.	May 18, 2021
11,100,384	Finkelstein et al.	August 24, 2021
10,765,954	Malyuk	September 8, 2020

Change(s) applied

to document,

/J.K.W./

6/10/2024

/MARK VILLENA/

11/30/2023

Application No. 17/449,054

Applicant submits that the attached IDS should be considered because:

☒ I. This IDS is being submitted pursuant to 37 CFR § 1.97(b).

This IDS is filed during one of the following time periods:

Within three months of the filing date of a national application other than a Continued Prosecution Application under 37 CFR § 1.53(d); Within three months of the date of entry of the national stage as set forth in 37 CFR § 1.491 in an international application; Before the mailing of a first Office Action on the merits; Before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 CFR § 1.114; or Within three months of the date of publication of the international registration under Hague Agreement Article 10(3) in an international design application.

☐ II. This IDS is being submitted pursuant to 37 CFR § 1.97(c).

This IDS is filed after the period specified in 37 CFR § 1.97(b), but before the mailing date of a final Office Action under 37 CFR § 1.113, a Notice of Allowance under 37 CFR § 1.311, or any other action that closes prosecution in the application. Furthermore, this IDS is accompanied by one of the following:

☐ A. The fee set forth in 37 CFR § 1.17(p); **or**☐ B. The statement specified in 37 CFR § 1.97(e), as indicated on the attached IDS.☐ III. This IDS is being submitted pursuant to 37 CFR § 1.97(d).

This IDS is filed after the period specified in 37 CFR § 1.97(c), but on or before the payment of the issue fee. Furthermore, this IDS is accompanied by both:

- The fee set forth in 37 CFR § 1.17(p); **and**
- The statement specified in 37 CFR § 1.97(e), as indicated on the attached IDS.

☐ IV. This IDS is being submitted after the payment of the issue fee, but before issuance of the patent in accordance with the Quick Path IDS program. Furthermore, this IDS is accompanied by:

- The fee set forth in 37 CFR § 1.17(p);
- The statement specified in 37 CFR § 1.97(e), as indicated on the attached IDS; **and**
- A conditional Request for Continued Examination.

Change(s) applied In addition to the reference(s) listed in the attached IDS, Applicant wishes to bring the to document, following application(s) and/or patent(s) to the Examiner's attention:

/J.K.W./
6/10/2024

Appl. / Publication / Patent No.	Filing / Publication / Issue Date
US 2018-0232645 Finkelstein et al.	August 16, 2018
10,957,311 Solomon et al.	March 23, 2021
10,467,509 Albadawi et al.	November 5, 2019
2018-0293221 Finkelstein et al.	October 11, 2018

Change(s) applied
to document, Application No. 17/449,054

/J.K.W./

7/15/2024

Publication Date	Publication No.	
08/16/2018	US-2018-0232662-A1	Solomon et al.
08/16/2018	US-2018-0232645-A1	Finkelstein et al.
08/16/2018	US-2018-0232902-A1	Albadawi et al.
10/11/2018	US-2018-0293221-A1	Finkelstein et al.
01/09/2020	US-2020-0012906-A1	Albadawi et al.
08/16/2018	US-2018-0232563-A1	Albadawi et al.
08/16/2018	US-2018-0233142-A1	Koishida et al.
04/02/2020	US-2020-0104653-A1	Solomon et al.
08/16/2018	US-2018-0233141-A1	Solomon et al.
02/06/2020	US-2020-0042839-A1	Herold et al.
08/16/2018	US-2018-0233132-A1	Herold et al.
08/16/2018	US-2018-0233140-A1	Koishida et al.
08/16/2018	US-2018-0233139-A1	Finkelstein et al.
08/16/2018	US-2018-0231653-A1	Pradeep et al.
08/16/2018	US-2018-0232201-A1	Holtmann
08/16/2018	US-2018-0232608-A1	Pradeep et al.
08/16/2018	US-2018-0233145-A1	Bathiche et al.
08/16/2018	US-2018-0232571-A1	Bathiche et al.
09/13/2018	US-2018-0260680-A1	/MARK VILLENA/ 07/11/2024
12/20/2018	US-2018-0361258-A1	

Finkelstein et al.

Malguk

PTA CERTIFICATION

☐ In accordance with 37 CFR § 1.704(d), a Patent Term Adjustment Statement (PTO/SB/133) is included with this submission.

By submitting this IDS, Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist. Further, Applicant makes no representation that any cited reference is, or is considered to be, material to patentability under 37 CFR § 1.56 or prior art under 35 U.S.C. §§ 101, 102, or 103. Notwithstanding the fact that the reference(s) being cited in this IDS are being made known to the



UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/449,054

RECEIPT DATE / TIME
01/16/2025 02:28:41 PM Z ET

ATTORNEY DOCKET #
402572-US02-CON

Title of Invention

MULTI-USER INTELLIGENT ASSISTANCE

Application Information

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

PATENT # -

CONFIRMATION # 4117

FILED BY Heidi Lauman

PATENT CENTER # 68774019

FILING DATE 09/27/2021

CUSTOMER # 196165

FIRST NAMED INVENTOR Kazuhito KOISHIDA

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Lisa Tom

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Issue fee transmittal 402572-US02-CON.pdf	1	Issue Fee Payment (PTO-85B)	139 KB
Comments 402572-US02-CON.pdf	2	Post Allowance Communication - Incoming	102 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Issue fee transmittal 402572-US02-CON.pdf	8E2F940617FACB522B521466B21CB0926958177CB8266EC767 D67CEE6CADC9C73BC0E5DA3AA5AE4E9AA1EC526E14551A1 0EF5F2B527540D778B56C184ACC4EC2
Comments 402572-US02-	12B5CB03BEBC35CCBD29EBF5B7C988A8723F1964920C5DD9

CON.pdf

91CFA835A6E5068CE91D714BD9BBB27F19148D4A61FA2CAC
5D1B950BB40331C43F99B1CACC4703D7

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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 # 17/449,054	RECEIPT DATE / TIME 01/16/2025 02:28:41 PM Z ET	ATTORNEY DOCKET # 402572-US02-CON
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Title of Invention

MULTI-USER INTELLIGENT ASSISTANCE

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4117	FILED BY	Heidi Lauman
PATENT CENTER #	68774019	AUTHORIZED BY	Lisa Tom
CUSTOMER #	196165	FILING DATE	09/27/2021
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Kazuhito KOISHIDA

Payment Information

PAYMENT METHOD CARD / 6158	PAYMENT TRANSACTION ID E20251FE29229694	PAYMENT AUTHORIZED BY Heidi Lauman
PRE-AUTHORIZED ACCOUNT 601577	PRE-AUTHORIZED CATEGORY 37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)	

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

Patent Owner Ex. 2105

Page 50 of 134

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.

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

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 the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

Heidi Lauman	(Typed or printed name)
/Heidi Lauman/	(Signature)
January 16, 2025	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/449,054	09/27/2021	Kazuhito KOISHIDA	402572-US02-CON	4117

TITLE OF INVENTION: MULTI-USER INTELLIGENT ASSISTANCE

APPL. 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	01/17/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
VILLENA, MARK	2658	704-251000

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/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 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. Alleman Hall & Tuttle 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

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

Microsoft Technology Licensing, LLC

Redmond, Washington

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)

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

☒ Electronic Payment via the USPTO patent electronic filing system ☐ 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. 601577

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 /Lisa Tom/

Date January 16, 2025

Typed or printed name Lisa Tom

Registration No. 52291

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors : Kazuhito Koishida et al.
Application No. : 17/449,054
Filed : September 27, 2021
Title : MULTI-USER INTELLIGENT ASSISTANCE

Examiner : Mark Villena
Group Art Unit : 2658
Confirmation No. : 4117
Docket No. : 402572-US02-CON

Commissioner for Patents
P.O. Box 1460
Alexandria, VA 22313-1450

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being transmitted via Patent Center or facsimile to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop: Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on:

January 16, 2025
Date

/Heidi Lauman/
Heidi Lauman

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Dear Commissioner:

Applicant acknowledges the allowance of claims 1-20 in the subject application by the Examiner with appreciation. The Applicant agrees with the Examiner's Statement of Reasons for Allowance to the extent that the claims of the present invention are patentable over the references in the record. The Applicant expressly traverses the Examiner's Statement of Reasons for Allowance to the extent that any comment is intended or has the effect of limiting a claim scope in any way.

The Applicant further points out that the reasons for allowance set forth by the Examiner are not the only reasons that the claims are allowable. Further reasons for allowance of the claims beyond those enumerated by the Examiner are described and set forth in Applicant's specification and drawings. In addition, structures and methods that perform substantially the

same function in substantially the same way to achieve substantially the same results are included within the scope of the claims.

Finally, as the Examiner's reasons for allowance are not exhaustive, such reasons for allowance do not establish an estoppel against the Applicant seeking and obtaining allowance of additional, broader claims in a continuation application, which the Applicant reserves the right to file.

Please contact the undersigned if there are any questions in regard to this submission. Further, please charge any cost incurred in the filing of this submission, along with any other costs, to Deposit Account No. 601577.

Respectfully submitted,

ALLEMAN HALL & TUTTLE LLP

Date: January 10, 2025

By: /Lisa Tom/

Lisa Tom

Registration No. 52291

Customer No. 196165

Attorney/Agent for Applicant/Assignee

900 SW 5th Ave., Suite 2300

Portland, Oregon 97204

Direct Telephone: (503) 595-7312



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

196165 7590 10/17/2024
Alleman Hall & Tuttle LLP/Microsoft
900 SW 5th Avenue
Suite 2300
Portland, OR 97204

EXAMINER	
VILLENNA, MARK	
ART UNIT	PAPER NUMBER
2658	

DATE MAILED: 10/17/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/449,054	09/27/2021	Kazuhito KOISHIDA	402572-US02-CON	4117

TITLE OF INVENTION: MULTI-USER INTELLIGENT ASSISTANCE

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	01/17/2025

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 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted 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. 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.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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Commissioner for Patents
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Alexandria, Virginia 22313-1450

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Certificate of Mailing or Transmission

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/449,054	09/27/2021	Kazuhito KOISHIDA	402572-US02-CON	4117

TITLE OF INVENTION: MULTI-USER INTELLIGENT ASSISTANCE

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	01/17/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
VILLENA, MARK	2658	704-251000

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/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 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 _____

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

(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)

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

☐ Electronic Payment via the USPTO patent electronic filing system ☐ 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. _____

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☐ Applicant asserting small entity status. See 37 CFR 1.27

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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 _____

Date _____

Typed or printed name _____

Registration No. _____



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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/449,054	09/27/2021	Kazuhito KOISHIDA	402572-US02-CON	4117
196165	7590	10/17/2024	EXAMINER	
Alleman Hall & Tuttle LLP/Microsoft 900 SW 5th Avenue Suite 2300 Portland, OR 97204			VILLENNA, MARK	
			ART UNIT	PAPER NUMBER
			2658	

DATE MAILED: 10/17/2024

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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).

<https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf>

Routine uses of the information in this record may include disclosure to:

- 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
- 2) a federal, state, local, or international agency, in response to its request;
- 3) a contractor of the USPTO having need for the information in order to perform a contract;
- 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
- 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
- 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
- 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
- 8) 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));
- 9) the Office of Personnel Management (OPM) for personnel research purposes; and
- 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 17/449,054	Applicant(s) KOISHIDA et al.	
	Examiner MARK VILLENA	Art Unit 2658	AIA (FITF) Status 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 09/10/2024.
☐ 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 1-20. 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 or send an inquiry to 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)	5. ☐ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/MARK VILLENA/ Examiner, Art Unit 2658	
---	--

Allowability Notice

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 09/10/2024 has been entered.

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted on 09/10/2024 were filed after the mailing date of the Allowability Notice on 06/10/2024. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

3. **Claims 1-20** are allowed.
4. The following is an examiner's statement of reasons for allowance:

Regarding the independent claims, the closest prior art found was Gopalan et al. (20170076720 A1), which teaches:

recognize another intelligent assistant computer (par. 0029; *'In some instances, to select a voice-enabled device, the arbitration module 214 may perform initial processing to identify voice-enabled devices that may potentially be selected (e.g., identify voice-enabled devices to arbitrate between).'*' *'For example, if multiple voice-enabled devices are located within a home, the arbitration module 214 may perform initial processing to identify a sub-set of the multiple devices that may potentially be best for interacting with a user.'*);

record speech spoken by a first user (par. 0025; *'In some instances, the voice-enabled devices 104 may continuously listen to speech to detect wake-words.'*);

determine a self-selection score for the first user based on the speech spoken by the first user (par. 0035; *'For instance, voice-enabled devices may be ranked based on audio signal metric values received from the voice-enabled devices. A voice-enabled device that ranks at the top of the list (or toward the top of the ranking) may be selected to handle audio input.'*);

receive a remote-selection score for the first user from the other intelligent assistant computer (par. 0035; *'For instance, voice-enabled devices may be ranked based on audio signal metric values received from the voice-enabled devices. A voice-enabled device that ranks at the top of the list (or toward the top of the ranking) may be selected to handle audio input.'*);

if the self-selection score is greater than the remote-selection score (par. 0035; *'For instance, voice-enabled devices may be ranked based on audio signal metric values received from the voice-enabled devices. A voice-enabled device that ranks at*

the top of the list (or toward the top of the ranking) may be selected to handle audio input.');

if the self-selection score is less than the remote-selection score, do not respond to the first user (*par. 0035; 'For instance, voice-enabled devices may be ranked based on audio signal metric values received from the voice-enabled devices. A voice-enabled device that ranks at the top of the list (or toward the top of the ranking) may be selected to handle audio input.'*).

However, Gopalan does not expressly teach:

if the self-selection score is greater than the remote-selection score, respond to the first user, **determine a disengagement metric of the first user based on recorded speech spoken by the first user, and block subsequent responses to all other users until the disengagement metric of the first user exceeds a blocking threshold** (emphasis added); and

stop blocking subsequent responses to another user responsive to a new self-selection score for the first user being less than a new remote-selection score for the first user.

While there are prior art that teach **determine a disengagement metric of the first user based on recorded speech spoken by the first user** (e.g., Larson et al., US 20140278444 A1; 'For this reason, the device stays speech output SO5, as indicated by arrow 408, until the user has finished speaking, and then outputs speech output SO5.'), the Examiner deems the prior art of record, whether taken alone or in combination, fails to teach, inter alia, blocking subsequent responses to all other users until the disengagement metric of the first user exceeds a blocking threshold in

combination with the other claimed features. Therefore, the claims as a whole would be allowable.

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

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARK VILLENA whose telephone number is (571)270-3191. The examiner can normally be reached 10 am - 6pm EST Monday through Friday.

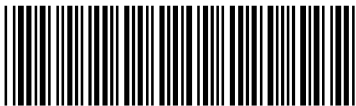
Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MARK . VILLENA
Examiner
Art Unit 2658

/MARK VILLENA/
Examiner, Art Unit 2658

Search Notes 	Application/Control No. 17/449,054	Applicant(s)/Patent Under Reexamination KOISHIDA et al.
	Examiner MARK VILLENA	Art Unit 2658

CPC - Searched*		
Symbol	Date	Examiner
G10L15/22, G10L15/30, G10L2015/223, G10L15/32	12/01/2023	M.V.

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.

Search Notes		
Search Notes	Date	Examiner
Prior Art, CPC, and Inventors Searches in PE2E	12/01/2023	M.V.
Updated PE2E Search and Interference Search	05/24/2024	M.V.
Updated PE2E Search and Interference Search	10/05/2024	M.V.

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
G10L	15/22, 15/26, 15/08, 25/51	05/24/2024	M.V.

/MARK VILLENA/ Examiner, Art Unit 2658	
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Issue Classification 	Application/Control No. 17/449,054	Applicant(s)/Patent Under Reexamination KOISHIDA et al.
	Examiner MARK VILLENA	Art Unit 2658

CPC						
Symbol					Type	Version
G01S	/	5	/	28	F	2013-01-01
G06T	/	7	/	70	I	2017-01-01
G06F	/	3	/	167	I	2013-01-01
G10L	/	15	/	1815	I	2013-01-01
G06N	/	20	/	00	I	2019-01-01
G06T	/	7	/	292	I	2017-01-01
H04W	/	4	/	33	I	2018-02-01
H04W	/	4	/	029	I	2018-02-01
A61B	/	5	/	1113	I	2013-01-01
A61B	/	5	/	117	I	2013-01-01
A61B	/	5	/	7475	I	2013-01-01
G06F	/	1	/	3206	I	2013-01-01
G06F	/	1	/	3231	I	2013-01-01
G06F	/	1	/	324	I	2013-01-01
G06F	/	3	/	011	I	2013-01-01
G06F	/	3	/	0304	I	2013-01-01
G06F	/	21	/	32	I	2013-01-01
G10L	/	17	/	04	I	2013-01-01
G10L	/	17	/	08	I	2013-01-01
H04L	/	51	/	02	I	2013-01-01
H04L	/	67	/	12	I	2013-01-01
H04N	/	7	/	188	I	2013-01-01
H04N	/	21	/	42203	I	2013-01-01
H04N	/	21	/	44218	I	2013-01-01
G07C	/	9	/	28	I	2020-01-01
G06F	/	40	/	35	I	2020-01-01
G06F	/	40	/	211	I	2020-01-01
G06V	/	40	/	167	I	2022-01-01
G06V	/	10	/	94	I	2022-01-01
G06V	/	20	/	40	I	2022-01-01
G06V	/	20	/	52	I	2022-01-01

Use images from artifact folder? ☒ Yes ☐ No			
NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/MARK VILLENA/ Examiner, Art Unit 2658	05 October 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	Patent Owner Ex. 2105	Patent Owner Ex. 2105

Issue Classification 	Application/Control No. 17/449,054	Applicant(s)/Patent Under Reexamination KOISHIDA et al.
	Examiner MARK VILLENA	Art Unit 2658

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G06V	/	40	/	10	I	2022-01-01
G06V	/	40	/	23	I	2022-01-01
G06V	/	40	/	166	I	2022-01-01
G06V	/	40	/	172	I	2022-01-01
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H04N	/	21	/	44224	I	2020-08-01
H04L	/	67	/	535	I	2022-05-01
G06F	/	18	/	28	I	2023-01-01
G06F	/	18	/	29	I	2023-01-01
G06F	/	18	/	41	I	2023-01-01
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G06T	/	7	/	248	I	2017-01-01
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G10L	/	15	/	1822	I	2013-01-01
G06N	/	5	/	025	I	2013-01-01
G06N	/	5	/	047	I	2013-01-01

Use images from artifact folder? ☒ Yes ☐ No			
NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/MARK VILLENA/ Examiner, Art Unit 2658	05 October 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	Patent Owner Ex. 2105	Patent Owner Ex. 2105

Issue Classification 	Application/Control No. 17/449,054	Applicant(s)/Patent Under Reexamination KOISHIDA et al.
	Examiner MARK VILLENA	Art Unit 2658

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G08B	/	13	/	1427	I	2013-01-01
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G06F	/	3	/	0488	A	2013-01-01
G06F	/	16	/	70	A	2019-01-01
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G06F	/	2203	/	0381	A	2013-01-01
G06F	/	2221	/	2111	A	2013-01-01
G06T	/	2207	/	10016	A	2013-01-01
G06T	/	2207	/	10024	A	2013-01-01
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G06T	/	2207	/	30232	A	2013-01-01

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(Primary Examiner)	(Date)	Patent Owner Ex. 2105	Patent Owner Ex. 2105

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	Examiner MARK VILLENA	Art Unit 2658

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G10L	/	17	/	00	A	2013-01-01
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G07C	/	9	/	32	A	2020-01-01
Y02D	/	10	/	00	A	2018-01-01
G06V	/	2201	/	05	A	2022-01-01
G06N	/	3	/	044	A	2023-01-01
H04N	/	23	/	90	A	2023-01-01
G06T	/	2207	/	30204	A	2013-01-01
G10L	/	2015	/	223	A	2013-01-01
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G10L	/	2015	/	0635	A	2013-01-01
G10L	/	2015	/	225	A	2013-01-01
G10L	/	2015	/	088	A	2013-01-01
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CPC Combination Sets				
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NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/MARK VILLENA/ Examiner, Art Unit 2658	05 October 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	Patent Owner Ex. 2105	Patent Owner Ex. 2105

Issue Classification 	Application/Control No. 17/449,054	Applicant(s)/Patent Under Reexamination KOISHIDA et al.
	Examiner MARK VILLENA	Art Unit 2658

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G10L	/	15	/ 22
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

Use images from artifact folder? ☒ Yes ☐ No			
NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/MARK VILLENA/ Examiner, Art Unit 2658	05 October 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	Patent Owner Ex. 2105	1

Issue Classification 	Application/Control No. 17/449,054	Applicant(s)/Patent Under Reexamination KOISHIDA et al.
	Examiner MARK VILLENA	Art Unit 2658

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19										
	2		11		20										
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	9		18												

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NONE	Total Claims Allowed: 20
(Assistant Examiner)	(Date)
/MARK VILLENA/ Examiner, Art Unit 2658	05 October 2024
(Primary Examiner)	(Date)
Patent Owner Ex. 2105	

Bibliographic Data

Application No: 17/449,054

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /MARK VILLENA/

Examiner's Signature

Initials

Title: MULTI-USER INTELLIGENT ASSISTANCE

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/27/2021	704	2658	402572-US02-CON
RULE			

APPLICANTS

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Uros BATRICEVIC, Redmond, WA, UNITED STATES

Steven Nabil BATHICHE, Bellevue, WA, UNITED STATES

CONTINUING DATA

This application is a CON of 15657822 07/24/2017 PAT 11194998

15657822 has PRO of 62482165 04/05/2017

15657822 has PRO of 62459020 02/14/2017

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

10/06/2021

STATE OR COUNTRY

UNITED STATES

ADDRESS

Alleman Hall & Tuttle LLP/Microsoft

900 SW 5th Avenue

Suite 2300

Portland, OR 97204

UNITED STATES

FILING FEE RECEIVED

\$1,820

Doc code: IDS

PTO/SB/08a (01-22)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		17449054
	Filing Date		2021-09-27
	First Named Inventor	Kazuhito Koishida	
	Art Unit	2658	
	Examiner Name	MARK VILLENA	
	Attorney Docket Number	402572-US02-CON	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	2	6148280	A	2000-11-14	James F Kramer	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Attorney Docket Number	402572-US02-CON

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Attorney Docket Number	402572-US02-CON

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	1	20070192910	A1	2007-08-16	Clara Vu Et al	
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Art Unit		2658
Examiner Name	MARK VILLENA	
Attorney Docket Number		402572-US02-CON

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First Named Inventor	Kazuhito Koishida	
Art Unit		2658
Examiner Name	MARK VILLENA	
Attorney Docket Number		402572-US02-CON

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	1	0109755	WO	A2	2001-02-08	MICROSOFT CORP		☐
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Application Number		17449054
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First Named Inventor	Kazuhito Koishida	
Art Unit		2658
Examiner Name	MARK VILLENA	
Attorney Docket Number		402572-US02-CON

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	4	LIANG, et al., "Semantic Object Parsing with Graph LSTM", In Journal of Computing Research Repository, 2016, 16 Pages.	☐
	5	MADDEN, et al., "TAG: a Tiny AGgregation Service for Ad-Hoc Sensor Networks", In Proceedings 5th Symposium on Operating System Design and Implementation, 2002, pp. 131-146.	☐
	6	MARATHE, et al., "What drives customization? control or identity?", In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, May 2011, pp. 781-790.	☐

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17449054
Filing Date	2021-09-27
First Named Inventor	Kazuhito Koishida
Art Unit	2658
Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

7	MESNIL, et al., "Using Recurrent Neural Networks for Slot Filling in Spoken Language Understanding," In Journal of IEEE/ACM Transactions on Audio, Speech, and Language Processing, Vol. 23, No. 3, 2013, pp. 530-539.	☐
8	MINOTTO, et al., "Simultaneous-Speaker Voice Activity Detection and Localization Using Mid-Fusion of SVM and HMMs," In Proceedings of IEEE Transactions on Multimedia, June 2014, Vol. 16, No. 4, pp. 1032-1044.	☐
9	MRAZOVAC, et al., "Smart Audio/Video Playback Control Based on Presence Detection and User Localization in Home Environment," In Proceedings of the Second Eastern European Regional Conference on the Engineering of Computer Based Systems, January 2011, pp. 44-53.	☐
10	Notice of Allowance Issued in US Patent Application No. 15/657,031 (MS# 402579-US01), mailed on March 18, 2019, 7 Pages.	☐
11	Notice of Allowance Issued in US Patent Application No. 15/657,031 (MS#402579-US01), mailed on June 26, 2019, 8 pages.	☐
12	Notice of Allowance Issued in US Patent Application No. 15/980,631, (MS# 404308-US01-CIP) mailed on March 31, 2021, 6 Pages.	☐
13	Notice of Allowance Issued in US Patent Application No. 16/700,308 (MS#402579-US02-CON), mailed on February 3, 2021, 8 Pages.	☐
14	Notice of Allowance Mailed December 11, 2019, in US Application No. 15/682,407 (MS# 402769-US01), 11 Pages.	☐
15	Notice of Allowance Mailed October 02, 2019, in US Patent Application No. 15/682,425 (MS# 402775-US01), 8 pages.	☐
16	Notice of allowance mailed on December 03, 2020, in US Application No. 15/640,251, (MS# 402584-US01), 11 Pages.	☐
17	Notice of allowance mailed on January 17, 2019, in US Application No. 15/636,559 (MS# 402553-US01), 10 pages.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

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Filing Date	2021-09-27
First Named Inventor	Kazuhito Koishida
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Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

18	Notice of Allowance mailed on January 27, 2021, in US Application No. 15/936,076 (MS# 403899-US01-CIP), 10 pages.	☐
19	Notice of allowance mailed on June 01, 2021, in US Application No. 16/599,426, (MS# 402580-US02-CON), 7 Pages.	☐
20	Notice of Allowance mailed on September 18, 2020, in US Application No. 15/936,076 (MS# 403899-US01-CIP), 10 pages.	☐
21	Office Action Issued in European Patent Application No. 22153942.2 (MS# 402572-EP02-DIV) mailed on July 18, 2022, 2 pages.	☐
22	VERGER, et al., "Samsung's New Digital Assistant, Bixby, Tries to Push Past Voice Recognition Toward true AI," The Galaxy S8 smartphone Can See, Listen, and Learn, Retrieved From: http://www.popsi.com/bixby-samsung-assistant-galaxy-s8-phones , 29 March 2017, 3 Pages.	☐
23	YIN, et al., "Object Localization and Tracking Based on Multiple Sensor Fusion in Intelligent Home," In Proceedings of the 26th Chinese Control and Decision Conference, 2014, pp. 5266-5270.	☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/MARK VILLENA/	Date Considered	10/05/2024
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
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Art Unit	2658
Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☐ A certification statement is not submitted herewith.

FEE

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

COPIES

☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Christopher S Tuttle/	Date (YYYY-MM-DD)	2024-09-10
Name/Print	Christopher S. Tuttle	Registration Number	41357

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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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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.

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L138	188	L60 AND (select\$5 choos\$5) near3 (assistant device) WITH (user person voice speech verbal utterance) near2 (activity engag\$7 disengag\$6)	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2024/10/05 12:34 PM
L139	242	L60 AND (select\$5 choos\$5) near3 (assistant device) WITH (user person voice speech verbal utterance) near2 (activity engag\$7 disengag\$6 active)	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2024/10/05 12:34 PM
L140	135	L60 AND (select\$5 choos\$5) near3 (assistant device) WITH (user person voice speech verbal utterance) near2 (activity engag\$7 disengag\$6 active)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L141	47	L60 AND (select\$5 choos\$5) near3 (assistant device) WITH (respond\$4 response perform function task action command) WITH (user person voice speech verbal utterance) near2 (activity engag\$7 disengag\$6 active)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L142	47	L60 AND (select\$5 choos\$5) near3	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM

L143	4	(assistant device) WITH (respond\$4 response perform function task action command) WITH (user person voice speech verbal utterance) near2 (activity engag\$7 disengag\$6 active) ((US-20170083285-A1 OR US-20170076720- A1 OR US- 20140172953-A1 OR US-20180144748- A1).did. AND PGPB.dbnm.)	(US-PGPUB)	OR	ON	ON	2024/10/05 12:34 PM
L144	135	L60 AND (select\$5 choos\$5) near3 (assistant device) WITH (user person voice speech verbal utterance) near2 (activity engag\$7 disengag\$6 active)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L145	4	((US-20170083285-A1 OR US-20170076720- A1 OR US- 20140172953-A1 OR US-20180144748- A1).did. AND PGPB.dbnm.)	(US-PGPUB)	OR	ON	ON	2024/10/05 12:34 PM
L146	2	L66 AND (ignor\$5 disabl\$5 block blocked blocking) WITH (utterance voice user speech person people)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L147	2	L66 AND (ignor\$5 reject\$5 deny\$4 mute muted blocked blocking)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L148	2	L66 AND (ignor\$5 reject\$5 deny\$4 mute muted blocked blocking)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L149	3622574	L66 nd (ignor\$5 reject\$5 deny\$4 mute muted blocked blocking)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L150	9263	@ad<"20170214" AND (smart intelligent voice digital virtual) adj2 (assistants) AND (g10L).cpcl.	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT,	OR	OFF	ON	2024/10/05 12:34 PM

			JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)				
L151	4664	@ad<"20170214" AND (smart intelligent voice digital virtual) adj2 (assistants) AND (g10L).cpcl.	(US-PGPUB; USPAT)	OR	OFF	ON	2024/10/05 12:34 PM
L152	860	@ad<"20170214" AND (smart intelligent voice digital virtual) adj2 (assistants) AND (g10L).cpcl. AND (score scor\$4 rank\$5 likelihood probability) WITH (assistant device)	(US-PGPUB; USPAT)	OR	OFF	ON	2024/10/05 12:34 PM
L153	76	L75 AND (score scor\$4 rank\$5 likelihood probability) WITH (assistant device) AND (blocking blocked disabl\$4 stop stopping) near5 (respond\$4 response action task command)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L154	86	L75 AND (score scor\$4 rank\$5 likelihood probability) WITH (assistant device) AND (blocking blocked disabl\$4 stop stopping) near5 (output\$4 respond\$4 response action task command)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L155	1	((US-20170076720-A1).did. AND PGPB.dbnm.)	(US-PGPUB)	OR	ON	ON	2024/10/05 12:34 PM
L156	1	L78 AND (active engag\$6 disengag\$6 speaking)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L157	1	L78 AND (finish\$4 done stop\$4 end)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L158	1628	@ad<"20170214" AND (active activity engagement engag\$5 disengag\$6 focus\$4) near5 (voice speech utterance audio spoken verbal vocal) SAME ignor\$5	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2024/10/05 12:34 PM

L159	588	@ad<"20170214" AND (active activity engagement engag\$5 disengag\$6 focus\$4) near5 (voice speech utterance audio spoken verbal vocal) SAME ignor\$5 AND g10l.cpcl.	MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT) (US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2024/10/05 12:34 PM
L160	19	@ad<"20170214" AND (active activity engagement engag\$5 disengag\$6 focus\$4) near5 (voice speech utterance audio spoken verbal vocal) SAME (disabl\$4 blocking) near5 response AND g10l.cpcl.	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2024/10/05 12:34 PM
L161	4484	@ad<"20170214" AND (active activity engagement engag\$5 disengag\$6 focus\$4 inactive) near5 (voice speech utterance audio spoken verbal vocal) SAME response AND g10l.cpcl.	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2024/10/05 12:34 PM
L162	44	@ad<"20170214" AND (active activity engagement engag\$5 disengag\$6 focus\$4	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD,	OR	ON	ON	2024/10/05 12:34 PM

		inactive) near5 (voice speech utterance audio spoken verbal vocal) WITH (disabl\$4 blocking) near5 (response output\$4) AND g10l.cpcl.	DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)				
L163	18	@ad<"20170214" AND (active activity engagement engag\$5 disengag\$6 focus\$4 inactive) near5 (voice speech utterance audio spoken verbal vocal) WITH (disabl\$4 blocking) near5 (response output\$4) AND g10l.cpcl.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L164	3176	@ad<"20170214" AND (active activity engagement engag\$5 disengag\$6 focus\$4 inactive) near5 (voice speech utterance audio spoken verbal vocal) WITH user AND g10l.cpcl.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L165	5151	@ad<"20170214" AND (active activity engaged disengag\$6 talking speaking inactive) near5 (voice speech utterance audio spoken verbal vocal) WITH user AND g10l.cpcl.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L166	3845	@ad<"20170214" AND (active activity engaged disengag\$6 talking speaking inactive) near5 (voice speech utterance audio spoken verbal vocal) near5 user AND g10l.cpcl.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L167	136	@ad<"20170214" AND (finished end done) Near2 (talking speaking) near5 (voice speech utterance audio spoken verbal vocal) near5 user AND g10l.cpcl.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L168	95	@ad<"20170214" AND	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05

		(finished end done) Near2 (talking speaking) near5 (voice speech utterance audio spoken verbal vocal) near5 user AND g10l.cpcl. AND (listen\$4)					12:34 PM
L169	7	@ad<"20170214" AND (finished end done) Near2 (talking speaking) near5 (voice speech utterance audio spoken verbal vocal) near5 user AND g10l.cpcl. AND (listen\$4)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L170	14	("20160063692" "20130 073293" "20140244267 " "20130141587" "2015 0314454" "2009001883 5" "20130304476" "201 40249817" "201600777 94" "10565989" "89833 83" "9098467" "201503 40040" "8155968").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L171	5	L129 AND ((speech voice utterance) AND (select\$5 choos\$5 chosen) near5 (computer device))	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L172	0	L129 AND ((speech voice utterance) AND (select\$5 choos\$5 chosen) near5 (computer device) SAME (scor\$5 probability rank\$5 weight\$5))	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L173	0	L129 AND ((speech voice utterance) AND (select\$5 choos\$5 chosen self-selection) near5 (computer device) SAME (scor\$5 probability rank\$5 weight\$5))	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L174	0	L129 AND ((speech voice utterance) AND (select\$5 choos\$5 chosen self-selection) near5 (terminal smart computer device) SAME (scor\$5 probability rank\$5	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM

L175	0	weight\$5)) L129 AND ((speech voice utterance) AND (select\$5 choos\$5 chosen self-selection) near5 (terminal smart computer device) same4 (scor\$5 probability rank\$5 weight\$5))	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L176	0	L129 AND ((speech voice utterance) AND (select\$5 choos\$5 chosen self-selection) near5 (assistant terminal smart computer device) same4 (scor\$5 probability rank\$5 weight\$5))	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:34 PM
L177	3635489	(G01S5/28 or A61B5/0205 or A61B5/0507 or A61B5/1113 or A61B5/117 or A61B5/7475 or G01S5/18 or G01S13/726 or G06F1/3206 or G06F1/3231 or G06F1/324 or G06F3/011 or G06F3/017 or G06F3/0304 or G06F3/0482 or G06F3/04842 or G06F3/167 or G06F18/251 or G06F18/28 or G06F18/29 or G06F18/41 or G06F21/32 or G06F21/35 or G06F40/211 or G06F40/35 or G06N5/025 or G06N5/047 or G06N20/00 or G06T7/248 or G06T7/292 or G06T7/60 or G06T7/70 or G06T7/74 or G06V10/94 or G06V20/40 or G06V20/52 or G06V20/653 or G06V30/274 or	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/10/05 12:34 PM

		G06V40/10 or G06V40/103 or G06V40/166 or G06V40/167 or G06V40/172 or G06V40/173 or G06V40/23 or G06V40/25 or G07C9/28 or G08B13/1427 or G10L15/02 or G10L15/063 or G10L15/08 or G10L15/18 or G10L15/1815 or G10L15/1822 or G10L15/19 or G10L15/22 or G10L15/24 or G10L15/26 or G10L15/28 or G10L15/32 or G10L17/04 or G10L17/08 or G10L25/51 or H04L51/02 or H04L63/102 or H04L67/12 or H04L67/535 or H04N7/181 or H04N7/188 or H04N21/231 or H04N21/42203 or H04N21/44218 or H04N21/44224 or H04N23/11 or H04N23/611 or H04R1/406 or H04R3/005 or H04W4/029 or H04W4/33 or A61B5/05 or A61B5/1118 or G01S5/16 or G01S11/14 or G01S13/38 or G01S13/867 or G01S13/888 or G06F3/0488 or G06F16/70 or G06F2203/0381 or G06F2221/2111 or G06N3/044 or G06T2207/10016 or G06T2207/10024 or G06T2207/20101 or G06T2207/30196 or G06T2207/30201 or G06T2207/30204 or					
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		G06T2207/30232 or G06V2201/05 or G07C9/32 or G08B29/186 or G10L17/00 or G10L2015/0635 or G10L2015/088 or G10L2015/223 or G10L2015/225 or G10L2015/228 or H04N23/90 or Y02D10/00 or G06F1/329 or G06F2221/2117 or G06F21/00 or G10L17/22 or G10L15/00 or G10L17/06 or H04N21/44222).cpc.					
L178	18	N5 AND (G01S5/28 OR A61B5/0205 OR A61B5/0507 OR A61B5/1113 OR A61B5/117 OR A61B5/7475 OR G01S5/18 OR G01S13/726 OR G06F1/3206 OR G06F1/3231 OR G06F1/324 OR G06F3/011 OR G06F3/017 OR G06F3/0304 OR G06F3/0482 OR G06F3/04842 OR G06F3/167 OR G06F18/251 OR G06F18/28 OR G06F18/29 OR G06F18/41 OR G06F21/32 OR G06F21/35 OR G06F40/211 OR G06F40/35 OR G06N5/025 OR G06N5/047 OR G06N20/00 OR G06T7/248 OR G06T7/292 OR G06T7/60 OR G06T7/70 OR G06T7/74 OR G06V10/94 OR G06V20/40 OR G06V20/52 OR G06V20/653 OR G06V30/274 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/10/05 12:34 PM

		G06V40/10 OR G06V40/103 OR G06V40/166 OR G06V40/167 OR G06V40/172 OR G06V40/173 OR G06V40/23 OR G06V40/25 OR G07C9/28 OR G08B13/1427 OR G10L15/02 OR G10L15/063 OR G10L15/08 OR G10L15/18 OR G10L15/1815 OR G10L15/1822 OR G10L15/19 OR G10L15/22 OR G10L15/24 OR G10L15/26 OR G10L15/28 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L25/51 OR H04L51/02 OR H04L63/102 OR H04L67/12 OR H04L67/535 OR H04N7/181 OR H04N7/188 OR H04N21/231 OR H04N21/42203 OR H04N21/44218 OR H04N21/44224 OR H04N23/11 OR H04N23/611 OR H04R1/406 OR H04R3/005 OR H04W4/029 OR H04W4/33 OR A61B5/05 OR A61B5/1118 OR G01S5/16 OR G01S11/14 OR G01S13/38 OR G01S13/867 OR G01S13/888 OR G06F3/0488 OR G06F16/70 OR G06F2203/0381 OR G06F2221/2111 OR G06N3/044 OR G06T2207/10016 OR G06T2207/10024 OR G06T2207/20101 OR G06T2207/30196 OR G06T2207/30201 OR					
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		G06T2207/30204 OR G06T2207/30232 OR G06V2201/05 OR G07C9/32 OR G08B29/186 OR G10L17/00 OR G10L2015/0635 OR G10L2015/088 OR G10L2015/223 OR G10L2015/225 OR G10L2015/228 OR H04N23/90 OR Y02D10/00 OR G06F1/329 OR G06F2221/2117 OR G06F21/00 OR G10L17/22 OR G10L15/00 OR G10L17/06 OR H04N21/44222).cpc.					
L179	209	("10255269" "10496905 "20030033152" "2003 0046401" "2003013538 2" "20030154398" "200 30157968" "200302332 30" "20050108074" "20 050182619" "20060143 216" "20060235688" "2 0060270385" "2007004 7708" "20070133437" " 20070192910" "200702 63823" "20080004881" " "20080091406" "20080 270131" "20080319733 "20090022368" "2009 0094555" "2009011792 2" "20090177990" "201 00121973" "201101128 37" "20110159884" "20 110314477" "20120245 925" "20120274464" "2 0120323933" "2013003 6367" "20130144616" " 20130222226" "201302 50035" "20130342672" " "20130346511" "20140 070945" "20140074472 "20140075349" "2014 0129661" "2014013961 6" "20140222430" "201 40236594" "201402583 24" "20140267034" "20 140278413" "20140282 003" "20140282703" "2 0140282893" "2014028 8934" "20140297284" " 20140297802" "201403	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM

		10001 "20140325402" "20140365209 "20140 372344 "20140379296 "20150019210 "2015 0058017 "2015006644 7 "20150088518 "201 50088814 "201500950 30 "20150143406 "20 150154002 "20150154 291 "20150189100 "2 0150199965 "2015020 0892 "20150228276 "2 0150254061 "201502 61293 "20150281162" "20150301796 "20160 034424 "20160055240 "20160080165 "2016 0154787 "2016015479 2 "20160155442 "201 60170710 "201601897 17 "20160189733 "20 160216117 "20160217 128 "20160259419 "2 0160292536 "2016030 7413 "20160320838 "2 0160321617 "201603 30042 "20160345406" "20160351196 "20160 358092 "20160364382 "20160370879 "2016 0373269 "2016037917 2 "20170000392 "201 70004828 "201700483 43 "20170060521 "20 170061316 "20170351 749 "20190236416 "5 644735 "5784568 "57 94189 "6148280 "616 3699 "6502082 "6535 876 "6567778 "65878 51 "6711543 "701684 9 "7027985 "7111980" "7120865 "7181500 "7 7209895 "7263663 "7 454331 "7474889 "74 83899 "7603427 "764 7228 "7697922 "7844 666 "7920678 "79623 60 "8000768 "801500 6 "8099287 "8175530" "8219406 "8223932 "8 8250157 "8358599 "8 380514 "8391455 "83 95653 "8515765 "854 2276 "8542675 "8543 407 "8626511 "86394 01 "8676581 "868845 3 "8707201 "8731902"					
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		"8731929" "8799000" " 8825510" "8836643" "8 849670" "8954318" "89 65765" "9015049" "908 3816" "9148625" "9154 730" "9160730" "91611 72" "9165566" "917925 6" "9190075" "9202466" "9214157" "9245036" " 9299350" "9311915" "9 317113" "9330658" "93 73322" "9386359" "939 1986" "9400902" "9401 147" "9405427" "94123 63" "9437206" "944922 9" "9461972" "9465833" "9477643" "9495957" " 9521364" "9548050" "9 552350" "9565284" "95 85563" "20160063692" " "20130073293" "20140 244267" "20130141587 " "20150314454" "2009 0018835" "2013030447 6" "20140249817" "201 60077794" "10565989" " "8983383" "9098467" "2 0150340040" "8155968 ").PN.					
L180	7	@ad<"20170214" AND (smart intelligent voice digital virtual) adj2 (assistants) AND (g10L).cpcl. AND (score scor\$4 rank\$5 likelihood probability) WITH (assistant device) AND L179	(US-PGPUB; USPAT)	OR	OFF	ON	2024/10/05 12:35 PM
L181	963	@ad<"20170214" AND (second two plurality multiple many) near5 (smart intelligent voice digital virtual) adj2 (assistant) AND (g10L).cpcl.	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2024/10/05 11:16 PM
L182	3	@ad<"20170214" AND (second two plurality multiple many) near5 (smart intelligent voice	(US-PGPUB; USPAT; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD,	OR	ON	ON	2024/10/05 11:19 PM

		digital virtual) adj2 (assistant) SAME (rank\$5 score probability) WITH (select\$5 choos\$5 chosen) AND (g10L).cpcl.	DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)				
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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N12	0	@ad<"20170214" AND (((intelligent smart near5 (device assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (engage engagement disengage disengagement interest focus) near5 (level amount metric meter value parameter likelihood probability) AND (block blocking ignor\$5 stop\$5) near6 (output\$5 prompt\$3 response)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/24 04:02 PM
N13	1038	@ad<"20170214" AND (((intelligent smart near5 (assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N14	7	@ad<"20170214" AND (((intelligent smart near5 (assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (self-selection select\$5 choos\$5 chosen) near5 (score probability rank ranking weight\$5)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N15	21	@ad<"20170214" AND (((intelligent smart near5 (assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (self-selection select\$5	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM

N16	116	choos\$5 chosen) SAME (score probability rank ranking weight\$5)).clm. @ad<"20170214" AND (((intelligent smart near5 (device assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (self-selection select\$5 choos\$5 chosen) SAME (score probability rank ranking weight\$5)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N17	64	@ad<"20170214" AND (((intelligent smart near5 (device assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (self-selection select\$5 choos\$5 chosen) SAME (score probability rank ranking weight\$5) SAME (device assistant VAD)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N18	17	N5 AND (G01S5/28 OR A61B5/0205 OR A61B5/0507 OR A61B5/1113 OR A61B5/117 OR A61B5/7475 OR G01S5/18 OR G01S13/726 OR G06F1/3206 OR G06F1/3231 OR G06F1/324 OR G06F3/011 OR G06F3/017 OR G06F3/0304 OR G06F3/0482 OR G06F3/04842 OR G06F3/167 OR G06F18/251 OR G06F18/28 OR G06F18/29 OR G06F18/41 OR G06F21/32 OR G06F21/35 OR G06F40/211 OR G06F40/35 OR G06N5/025 OR G06N5/047 OR G06N20/00 OR G06T7/248 OR G06T7/292 OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM

		G06T7/60 OR G06T7/70 OR G06T7/74 OR G06V10/94 OR G06V20/40 OR G06V20/52 OR G06V20/653 OR G06V30/274 OR G06V40/10 OR G06V40/103 OR G06V40/166 OR G06V40/167 OR G06V40/172 OR G06V40/173 OR G06V40/23 OR G06V40/25 OR G07C9/28 OR G08B13/1427 OR G10L15/02 OR G10L15/063 OR G10L15/08 OR G10L15/18 OR G10L15/1815 OR G10L15/1822 OR G10L15/19 OR G10L15/22 OR G10L15/24 OR G10L15/26 OR G10L15/28 OR G10L15/32 OR G10L17/04 OR G10L17/08 OR G10L25/51 OR H04L51/02 OR H04L63/102 OR H04L67/12 OR H04L67/535 OR H04N7/181 OR H04N7/188 OR H04N21/231 OR H04N21/42203 OR H04N21/44218 OR H04N21/44224 OR H04N23/11 OR H04N23/611 OR H04R1/406 OR H04R3/005 OR H04W4/029 OR H04W4/33 OR A61B5/05 OR A61B5/1118 OR G01S5/16 OR G01S11/14 OR G01S13/38 OR G01S13/867 OR G01S13/888 OR G06F3/0488 OR G06F16/70 OR					
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		G06F2203/0381 OR G06F2221/2111 OR G06N3/044 OR G06T2207/10016 OR G06T2207/10024 OR G06T2207/20101 OR G06T2207/30196 OR G06T2207/30201 OR G06T2207/30204 OR G06T2207/30232 OR G06V2201/05 OR G07C9/32 OR G08B29/186 OR G10L17/00 OR G10L2015/0635 OR G10L2015/088 OR G10L2015/223 OR G10L2015/225 OR G10L2015/228 OR H04N23/90 OR Y02D10/00 OR G06F1/329 OR G06F2221/2117 OR G06F21/00 OR G10L17/22 OR G10L15/00 OR G10L17/06 OR H04N21/44222).cpc.					
N19	66	@ad<"20170214" AND (((intelligent smart near5 (device assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (self- selection select\$5 choos\$5 chosen target) SAME (score probability rank ranking weight\$5) SAME (device assistant VAD)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N20	3	N7 AND ((G10L15/22 OR G10L15/26).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N21	3	N7 AND ((G10L15/22 OR G10L15/26 OR G10L15/08 OR G10L25/51).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N22	22	@ad<"20170214" AND (((intelligent smart near5 (device assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (engage engagement disengage disengagement interest	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM

N23	0	focus) near5 (level amount metric meter value parameter likelihood probability)).clm. @ad<"20170214" AND (((intelligent smart near5 (device assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (engage engagement disengage disengagement interest focus) near5 (level amount metric meter value parameter likelihood probability) AND (block blocking ignor\$5) near6 (response)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N24	0	@ad<"20170214" AND (((intelligent smart near5 (device assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (engage engagement disengage disengagement interest focus) near5 (level amount metric meter value parameter likelihood probability) AND (block blocking ignor\$5 stop\$5) near6 (output\$5 prompt\$3 response)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:35 PM
N25	209	("10255269" "10496905" "20030033152" "20030046401" "20030135382" "20030154398" "20030157968" "20030233230" "20050108074" "20050182619" "20060143216" "20060235688" "20060270385" "20070047708" "20070133437" "20070192910" "20070263823" "20080004881" "20080091406" "20080270131" "20080319733" "20090022368" "20090094555" "20090117922" "20090177990" "20100121973" "20110112837" "20110159884" "20	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:40 PM

		110314477 "20120245 925 "20120274464 "2 0120323933 "2013003 6367 "20130144616 "2 20130222226 "201302 50035 "20130342672" "20130346511 "20140 070945 "20140074472 "20140075349 "2014 0129661 "2014013961 6 "20140222430 "201 40236594 "201402583 24 "20140267034 "20 140278413 "20140282 003 "20140282703 "2 0140282893 "2014028 8934 "20140297284 "2 20140297802 "201403 10001 "20140325402" "20140365209 "20140 372344 "20140379296 "20150019210 "2015 0058017 "2015006644 7 "20150088518 "201 50088814 "201500950 30 "20150143406 "20 150154002 "20150154 291 "20150189100 "2 0150199965 "2015020 0892 "20150228276 "2 20150254061 "201502 61293 "20150281162" "20150301796 "20160 034424 "20160055240 "20160080165 "2016 0154787 "2016015479 2 "20160155442 "201 60170710 "201601897 17 "20160189733 "20 160216117 "20160217 128 "20160259419 "2 0160292536 "2016030 7413 "20160320838 "2 20160321617 "201603 30042 "20160345406" "20160351196 "20160 358092 "20160364382 "20160370879 "2016 0373269 "2016037917 2 "20170000392 "201 70004828 "201700483 43 "20170060521 "20 170061316 "20170351 749 "20190236416 "5 644735 "5784568 "57 94189 "6148280 "616 3699 "6502082 "6535 876 "6567778 "65878				
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N26	0	51 "6711543 "701684 9 "7027985 "7111980" "7120865 "7181500 "7 209895 "7263663 "7 454331 "7474889 "74 83899 "7603427 "764 7228 "7697922 "7844 666 "7920678 "79623 60 "8000768 "801500 6 "8099287 "8175530" "8219406 "8223932 "8 8250157 "8358599 "8 380514 "8391455 "83 95653 "8515765 "854 2276 "8542675 "8543 407 "8626511 "86394 01 "8676581 "868845 3 "8707201 "8731902" "8731929 "8799000 "8 8825510 "8836643 "8 849670 "8954318 "89 65765 "9015049 "908 3816 "9148625 "9154 730 "9160730 "91611 72 "9165566 "917925 6 "9190075 "9202466" "9214157 "9245036 "9 9299350 "9311915 "9 317113 "9330658 "93 73322 "9386359 "939 1986 "9400902 "9401 147 "9405427 "94123 63 "9437206 "944922 9 "9461972 "9465833" "9477643 "9495957 "9 9521364 "9548050 "9 552350 "9565284 "95 85563 "20160063692" "20130073293 "20140 244267 "20130141587 "20150314454 "2009 0018835 "2013030447 6 "20140249817 "201 60077794 "10565989" "8983383 "9098467 "2 0150340040 "8155968 ").PN. N25 AND (((intelligent smart) near5 (device assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (engage engagement disengage disengagement interest focus) near5 (level amount metric meter	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:40 PM
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N27	0	value parameter likelihood probability)).clm. N25 AND (((intelligent smart digital virtual voice) near5 (assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (engage engagement disengage disengagement interest focus) near5 (level amount metric meter value parameter likelihood probability)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:41 PM
N28	0	N25 AND (((intelligent smart digital virtual voice) near5 (bot assistant)) VAD) AND (voice speech utterance audio spoken verbal vocal) AND (engage engagement disengage disengagement interest focus) near5 (level amount metric meter value parameter likelihood probability)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:41 PM
N29	18	N25 AND (((intelligent smart digital virtual voice) near5 (bot assistant)) VAD)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:42 PM
N30	0	N25 AND (((intelligent smart digital virtual voice) near5 (bot assistant)) VAD) AND (block\$5 ignor\$5 deny\$5 unauthoriz\$5)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/05 12:42 PM

Doc code: IDS

PTO/SB/08a (01-22)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		17449054
	Filing Date		2021-09-27
	First Named Inventor	Kazuhito Koishida	
	Art Unit	2658	
	Examiner Name	MARK VILLENA	
	Attorney Docket Number	402572-US02-CON	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7111980	B2	2006-09-26	Ioannis Pavlidis Et al	
	2	7181500	B2	2007-02-20	James H Jen Et al	
	3	7962360	B2	2011-06-14	Robert Mechaley Et al	
	4	8015006	B2	2011-09-06	Robert A. Kennewick	
	5	8358599	B2	2013-01-22	Shmuel Shaffer Et al	
	6	8395653	B2	2013-03-12	Jinwei Feng Et al	
	7	8707201	B1	2014-04-22	HRISHIKESH ARADHYE Et al	
	8	8731902	B2	2014-05-20	Beth Beld Et al	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17449054
Filing Date	2021-09-27
First Named Inventor	Kazuhito Koishida
Art Unit	2658
Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

9	8849670	B2	2014-09-30	Philippe Di Cristo Et al	
10	9148625	B2	2015-09-29	Aaron Kleinsteinber Et al	
11	9154730	B2	2015-10-06	Bowon Lee Et al	
12	9299350	B1	2016-03-29	Michael David Dumont Et al	
13	9330658	B2	2016-05-03	David Bezar	
14	9373322	B2	2016-06-21	Jacques-olivier Goussard	
15	9437206	B2	2016-09-06	Dachuan Yu Et al	
16	9449229	B1	2016-09-20	Jason N. Laska Et al	
17	9552350	B2	2017-01-24	TANYA MILLER Et al	
18	9565284	B2	2017-02-07	lil Cheatham Et al	
19	20080004881	A1		David Attwater Et al	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17449054
Filing Date	2021-09-27
First Named Inventor	Kazuhito Koishida
Art Unit	2658
Examiner Name	MARK VILLENA
Attorney Docket Number	402572-US02-CON

	20	20150200892	A1		VINOD RAMACHANDRAN	
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	1	20030154398	A1		Eric Thomas Eaton Et al	
	2	20030233230	A1		Egbert Ammicht Et al	
	3	20050182619	A1		Misty Azara Et al	
	4	20060235688	A1		James E Bicego Et al	
	5	20070047708	A1		Marc A Boillot Et al	
	6	20070133437	A1		Michael S. Wengrovitz Et al	
	7	20080091406	A1	2008-04-17	Larry Baldwin Et al	
	8	20080319733	A1		Gregory Pulz Et al	

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	9	20130036367	A1		Stephen Deroos Et al	
	10	20130222226	A1		Michiel Terlouw	
	11	20130342672	A1		Timothy T. Gray Et al	
	12	20140074472	A1		Chih-hung Lin Et al	
	13	20140075349	A1		Il-kook Yun Et al	
	14	20140222430	A1		Ashwin P. Rao	
	15	20140258324	A1		David Andrew Mauro Et al	
	16	20140267034	A1		Darrell L. KRULCE Et al	
	17	20140278413	A1		Donald W. PITSCHEL Et al	
	18	20140297284	A1		Thomas R. GRUBER Et al	
	19	20140310001	A1	2014-10-20	Edgar T. Kalns Et al	

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20	20140325402	A1	Jong-woo Jung Et al
21	20150019210	A1	Srinivas Bangalore Et al
22	20150154002	A1	Eugene Weinstein Et al
23	20150199965	A1	Bruce Leak Et al
24	20160189733	A1	Brant Jameson Vasileff Et al
25	20160259419	A1	Dibyendu Chatterjee

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- ☒ See attached certification statement.
- ☐ A certification statement is not submitted herewith.

FEE

- ☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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- ☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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Signature	/Christopher S Tuttle/	Date (YYYY-MM-DD)	2024-09-10
Name/Print	Christopher S. Tuttle	Registration Number	41357

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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.
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	Filing Date		2021-09-27
	First Named Inventor	Kazuhito Koishida	
	Art Unit	2658	
	Examiner Name	MARK VILLENA	
	Attorney Docket Number	402572-US02-CON	

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	2	6502082	B1	2002-12-31	KENTARO TOYAMA Et al		
	3	6567778	B1	2003-05-20	Eric I Chao Chang Et al		
	4	6587851	B1	2003-07-01	Patricia Ditcharo Et al		
	5	7027985	B2	2006-04-11	Heribert Wutte		
	6	7120865	B1	2006-10-10	Eric Horvitz Et al		
	7	7209895	B2	2007-04-24	Brian Kundtz Et al		
	8	7603427	B1	2009-10-13	Eric J Horvitz Et al		

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9	7920678	B2	2011-04-05	Robert S Cooper Et al	
10	8175530	B2	2012-05-08	John Richard Kane Et al	
11	8219406	B2	2012-07-10	Dong Yu Et al	
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13	8515765	B2	2013-08-20	Larry Baldwin Et al	
14	8542276	B2	2013-09-24	Chung-hsien Huang Et al	
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17	8676581	B2	2014-03-18	Jason Flaks Et al	
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20	9202466	B2	2015-12-01	Martin Heckmann	
21	9214157	B2	2015-12-15	Srinivas Bangalore	
22	9386359	B2	2016-07-05	B. Thomas Adler Et al	
23	9400902	B2	2016-07-26	Bernd Schoner Et al	
24	9412363	B2	2016-08-09	DILEK HAKKANI-TUR Et al	
25	9585563	B2	2017-03-07	Michael Robert Mensinger Et al	

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	1	20030135382	A1		Richard Marejka Et al	
	2	20030157968	A1		Robert Boman Et al	
	3	20060270385	A1		Robert P Morris	

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4	20110159884	A1		Neeraj Chawla	
5	20120274464	A1		Jeffrey Michael Sweeney Et al	
6	20130144616	A1	2013-06-06	BANGALORE	
7	20140070945	A1		Swapnil Dave Et al	
8	20140129661	A1		Somas Thyagaraja	
9	20140282893	A1		Micah Sheller Et al	
10	20140288934	A1		Michael R Kennewick Et al	
11	20140365209	A1		GUNNAR EVERMANN	
12	20150088814	A1		Antoine Carl Van Der Laan Et al	
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14	20150261293	A1		VAIBHAV THUKRAL Et al	

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	15	20150281162	A1		Jianqiang Shen Et al	
	16	20150301796	A1		Erik Visser Et al	
	17	20160055240	A1		Gokhan Tur Et al	
	18	20160080165	A1		Farzad Ehsani Et al	
	19	20160216117	A9		Amrit Bandyopadhyay Et al	
	20	20160217128	A1		Daniel Baum Et al	
	21	20160358092	A1		Christopher Kurpinski Et al	
	22	20160370879	A1		Manoj Sharma	
	23	20170004828	A1		Juwan Lee Et al	
	24	20170060521	A1		Caitlin E. Cellier Et al	
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Name/Print	Christopher S. Tuttle	Registration Number	41357

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