Electronic Patent Application Fee Transmittal

Application Number:	13795933
Filing Date:	12-Mar-2013
Title of Invention:	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND
First Named Inventor/Applicant Name:	William F. Ganong
Filer:	Rachel Ann Smith/Kristine Grand
Attorney Docket Number:	CERN0105PUSA (12-0291-US-

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
PET. REVIVE ABANDON APP, DELAY PYMT-RESP	1453	1	2100	2100
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Extension - 3 months with $0 paid	1253	1	1480	1480
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	2000	2000
		Total in USD ($)		**5580**

Electronic Acknowledgement Receipt

EFS ID:	42665343
Application Number:	13795933
International Application Number:	
Confirmation Number:	2321
Title of Invention:	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND
First Named Inventor/Applicant Name:	William F. Ganong
Customer Number:	179598
Filer:	Rachel Ann Smith/Kristine Grand
Filer Authorized By:	Rachel Ann Smith
Attorney Docket Number:	CERN0105PUSA (12-0291-US-
Receipt Date:	07-MAY-2021
Filing Date:	12-MAR-2013
Time Stamp:	14:24:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$5580
RAM confirmation Number	E202157E25060902
Deposit Account	023978
Authorized User	Kristine Grand

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the Office of Petitions	PETITION_TO_REVIVE_CERN0105PUS_120291USORG2.PDF	424455 e528336523c1c4e619781a492775c44b990dff51	no	4
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	RCE_CERN0105PUS_120291USORG2.PDF	1395170 adfd344343524487355012 4b02bd975056eb06c3	no	3
Warnings:					
Information:					
3		RCE_AMENDMENT_CERN0105PUS_120291USORG2.PDF	535729 73da26dc969e262af3ad5f2debd3554bd5c01f4e	yes	10

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment Submitted/Entered with Filing of CPA/RCE	1	1
Claims	2	6
Applicant Arguments/Remarks Made in an Amendment	7	10

Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	34320 045a9f9618650c807c705b5ec1608658cb932dbf	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2389674		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William F. GANONG III

Serial No.: 13/795,933

Filed: March 12, 2013

For: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

Group Art Unit: 2644

Examiner: Huy C. Ho

Attorney Docket No.: CERN0105PUS

AMENDMENT FILED WITH RCE UNDER 37 C.F.R. § 1.114 AND PETITION FOR EXTENSION OF TIME UNDER 37 C.F.R. § 1.136(a)

Mail Stop Amendment
Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

Applicant hereby petitions for a three month extension of time to respond to the Office Action mailed June 5, 2020 and the Advisory Action mailed December 2, 2020, thereby extending the time period within which to respond to December 5, 2020. A Petition for Revival is being filed concurrently herewith. Please amend the above-identified application as follows:

Doc Code: PET.OP
Document Description: Petition for Review by the Office of Petitions

PTO/SB/64 (12-20)
Approved for use through 02/28/2021. 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 displays a valid OMB control number.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)

Page 1 of 3

Docket Number (Optional)

CERN0105PUS (12-0291-US-ORG2)

First named inventor: William F. Ganong III

Application No.: 13/795,933 Art Unit: 2644

Filed: March 12, 2013 Examiner: Huy C. Ho

Title: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.

NOTE: A grantable petition requires the following items:

(1) Petition fee;
(2) Reply and/or issue fee;
(3) Terminal disclaimer with disclaimer fee – required for all utility and plant applications filed before June 8, 1995, and for all design applications; and
(4) Statement that the entire delay was unintentional.

1. **Petition fee**

☐ Small entity fee $ _____ (37 CFR 1.17(m)). Applicant asserts small entity status. See 37 CFR 1.27.

☐ Micro entity fee $ _____ (37 CFR 1.17(m)). Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☑ Undiscounted fee $ 2100 (37 CFR 1.17(m)).

2. **Reply and/or fee**

A The reply and/or fee to the above-noted Office notice or action in the form of AMENDMENT FILED WITH RCE UNDER 37 CFR 1.114 (identify the type of reply):

☐ has been filed previously on _____.

☑ is enclosed herewith.

B The issue fee and publication fee (if applicable) of $ _____

☐ has been paid previously on _____.

☐ is enclosed herewith.

This collection of information is required by 37 CFR 1.137(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. 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: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/SB/64 (12-20)
Approved for use through 02/28/2021. 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 displays a valid OMB control number.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)

3. **Terminal disclaimer with disclaimer fee**

☐ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.

☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of $ _____) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(a) was unintentional.

Petitioner is reminded that a delay resulting from a deliberately chosen course of action on the part of the applicant does not become an "unintentional" delay within the meaning of 37CFR 1.137 because:

- the applicant does not consider the claims to be patentable over the references relied upon in an outstanding Office action;
- the applicant does not consider the allowed or patentable claims to be of sufficient breadth or scope to justify the financial expense of obtaining a patent;
- the applicant does not consider any patent to be of sufficient value to justify the financial expense of obtaining the patent; or
- the applicant remains interested in eventually obtaining a patent, but simply seeks to defer patent fees and patent prosecution expenses.

Petitioner is further reminded that an intentional delay resulting from a deliberate course of action chosen by the applicant is not affected by:

- the correctness of the applicant's (or applicant's representative's) decision to abandon the application or not to seek or persist in seeking revival of the application;
- the correctness or propriety of a rejection, or other objection, requirement, or decision by the Office; or
- the discovery of new information or evidence, or other change in circumstances subsequent to the abandonment or decision not to seek or persist in seeking revival.

NOTE: Where the petition under 37 CFR 1.137(a) is filed more than two years after the date the application became abandoned, the United States Patent and Trademark Office requires an additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional. This requirement is in addition to the requirement to provide a statement that the entire delay was unintentional. See *Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay*, 85 FR 12222 (March 2, 2020). See MPEP 711.03(c)(II)(C)-(F) for additional guidance on the information required to establish that the entire delay was unintentional.

☐ Because this petition under 37 CFR 1.137(a) is being filed more than two years after the date the application became abandoned, additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional is enclosed herewith.

Doc Code: PET.OP
Document Description: Petition for Review by the Office of Petitions

PTO/SB/64 (12-20)
Approved for use through 02/28/2021. 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 displays a valid OMB control number.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

/Rachel A. Smith/	2020-05-07
Signature	Date
Rachel A. Smith	66,437
Typed or Printed Name	Registration Number, if applicable
1000 Town Center, #2200	(248) 358-4400
Address	Telephone Number
Southfield, MI 48075	
Address	

Enclosures:

- [x] Petition fee under 37 CFR 1.17(m)
- [x] Reply and/or fee
- [ ] Terminal Disclaimer Form
- [ ] Additional sheet(s) containing statements establishing unintentional delay
- [ ] Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- [x] Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- [ ] Transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

2020-05-07	/Rachel A. Smith/
Date	Signature
	Rachel A. Smith
	Typed or printed name of person signing certificate

Privacy Act Statement

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

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

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

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 NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/795,933	03/12/2013	William F. Ganong III	N0484.71090US01

CONFIRMATION NO. 2321

POWER OF ATTORNEY NOTICE

91337
Nuance Communications, Inc.
c/o Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210-2206

OC000000125439336

Date Mailed: 05/10/2021

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/04/2021.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/rnegga/

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
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/795,933	03/12/2013	William F. Ganong III	CERN0105PUSA (12-0291-US-

CONFIRMATION NO. 2321

179598
Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075

POA ACCEPTANCE LETTER

OC000000125439349

Date Mailed: 05/10/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/04/2021.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/rnegga/

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
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/795,933	03/12/2013	William F. Ganong III	CERN0105PUSA (12-0291-US-	2321

179598 7590 06/30/2021

Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075

EXAMINER	
HO, HUY C	

ART UNIT	PAPER NUMBER
2644	

NOTIFICATION DATE	DELIVERY MODE
06/30/2021	ELECTRONIC

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

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

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

docketing@brookskushman.com

UNITED STATES PATENT AND TRADEMARK OFFICE

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

In re Application of	:	
Ganong et al.	:	
Application No. 13/795,933	:	
Filed: March 12, 2013	:	DECISION ON PETITION
Attorney Docket NO. CERN0105USA (12-0291-US-	:	
For: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND	:	

This is a decision on the petition under the unintentional provisions of 37 CFR 1.137(a), filed May 7, 2021, to revive the above-identified application.

The petition is **GRANTED**.

The application became abandoned for failure to timely file a reply within the meaning of 37 CFR 1.113 to the final Office action of June 5, 2020. The proposed reply required for consideration of a petition to revive must be a Notice of Appeal (and appeal fee required by 37 CFR 41.20(b)(2)), an amendment that prima facie places the application in condition for allowance, a Request for Continued Examination (RCE) and submission (37 CFR 1.114), or the filing of a continuing application under 37 CFR 1.53(b). See MPEP 711.03(c)(II)(A)(2). Since the amendment submitted October 28, 2020, did not prima facie place the application in condition for allowance, the reply required must be a Notice of Appeal (and appeal fee), RCE, or the filing of a continuing application under 37 CFR 1.53(b).

The petition satisfies the requirements of 37 CFR 1.137(a) in that petitioner has supplied (1) the reply in the form of a Request for Continued Examination (RCE) and fee of $2,000, and the submission required by 37 CFR 1.114; (2) the petition fee of $2,100; and (3) a proper statement of unintentional delay.

It is not apparent whether the person signing the statement of unintentional delay was in a position to have firsthand or direct knowledge of the facts and circumstances of the delay at issue. Nevertheless, such statement is being treated as having been made as the result of a reasonable inquiry into the facts and circumstances of such delay. See 37 CFR 11.18 and Changes to Representation of Others Before the United States Patent and Trademark Office;

Final Rule Notice, 73 Fed. Reg. 47650 (August 14, 2008), 1334 Off. Gaz. Pat. Office 338 (September 9, 2008). In the event that such an inquiry has not been made, petitioner must make such an inquiry. If such inquiry results in the discovery that it is not correct that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 CFR 1.137 was unintentional, petitioner must notify the Office.

This application is being referred to Technology Center Art Unit 2644 for processing of the RCE and for appropriate action by the Examiner in the normal course of business on the amendment submitted in accordance with 37 CFR 1.114.

Telephone inquiries concerning this decision should be directed to the undersigned at (571) 272-1642. All other inquiries concerning the examination or status of this application should be directed to the Technology Center at their customer service line at (571) 272-2600.

/APRIL M WISE/
Paralegal Specialist, Office of Petitions

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/795,933	Filing Date 03/12/2013	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $62 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $250 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	07/07/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/MONICA D FRANCIS/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/795,933	Filing Date 03/12/2013	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $62 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $250 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	07/07/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ALLYSON PURNELL/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

CPC - Searched*		
Symbol	Date	Examiner
H04W52/0251; H04M1/72519; G10L15/02; H04W52/0261; H04W40/005; G10L15/30; G10L15/22; H04W52/0254; Y02D70/00; H04M2250/74; G10L2015/226; G10L2015/223; H04W88/02; Y02D70/164; Y02D70/142; Y02D70/144	9/25/2014	HH

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
455	563	9/25/2014	HH

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

/HUY C HO/ Primary Examiner.Art Unit 2644	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

Search Notes		
Search Notes	**Date**	**Examiner**
EAST Database Search	9/25/2014	HH
Inventor Search	9/25/2014	HH
Search update	4/12/2015	HH
Search update	7/24/2015	HH
Search update	12/27/2015	HH
Search update	6/12/2016	HH
Search update	11/18/2016	HH
Search update	9/13/2017	HH
Search update	4/11/2018	HH
Search update	10/30/2019	HH
Search update	05/18/2020	HH
Search update	07/17/2021	HH

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
455	79	9/25/2014	HH
379	88.01, 88.02	9/25/2014	HH

/HUY C HO/ Primary Examiner.Art Unit 2644	

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/795,933	03/12/2013	William F. Ganong III	CERN0105PUSA (12-0291-US-	2321

179598 7590 07/22/2021

Brooks Kushman / Cerence
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Southfield, MI 48075

EXAMINER	
HO, HUY C	

ART UNIT	PAPER NUMBER
2644	

NOTIFICATION DATE	DELIVERY MODE
07/22/2021	ELECTRONIC

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

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

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

docketing@brookskushman.com

Office Action Summary	Application No. 13/795,933	Applicant(s) Ganong et al.	
	Examiner HUY C HO	Art Unit 2644	AIA (FITF) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 07 May 2021.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-2 and 4-20 is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☑ Claim(s) 1-2 and 4-20 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 12 March 2013 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date ____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Continued Examination Under 37 CFR 1.114

2. 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 final rejection. 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, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on **05/07/2021** has been entered.

Response to Arguments

3. Applicant's arguments filed **05/07/2021** have been fully considered but they are not persuasive because:

With respect to the arguments that none of the references teach or suggest the limitations, i.e., "in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input, the processing employing at least one

contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device, the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode."

The examiner respectfully disagrees because the references teaches:

"in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input (***Freeman,*** *Figure 4, Steps 404, 406, 408, 410, Col. 6 Lines 15-47*), the processing employing at least one contextual cue (***LeBeau,*** *Figures 1B and 1C, pp [42]-[46]: a mobile device 142 takes into consideration of current context such as device' location, device's statuses docking/charging case, etc., and determining input audio that includes commands or requests from the user*), the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was

*received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device (**LeBeau**, Figures 1B and 1C, pp [42]-[46]: a mobile device 142 takes into consideration of current context such as device' location, device's statuses docking/charging case, etc., and determining input audio that includes commands or requests from the user), the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode (**Freeman**, Figure 5, Steps 504, 506, 508, 510, Col. 6 Lines 53-67, Col. 7 Lines 1-15).*

Therefore, Freeman in view of LeBeau, teach and suggest the argued limitations above.

Claim Rejections - 35 USC § 103

4. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

5. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. This application currently names joint inventors. In considering patentability of the claims under pre-AIA 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of pre-AIA 35 U.S.C. 103(c) and potential pre-AIA 35 U.S.C. 102(e), (f) or (g) prior art under pre-AIA 35 U.S.C. 103(a).

8. Claims 1, 2 and 4-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Freeman et al. (U.S. Publication No. 8,977,255) and further in view of LeBeau et al. (U.S. Publication. No. 2012/0034904).

Regarding claim 1, (Currently Amendment) Freeman teaches a method of monitoring an acoustic environment of a mobile device for voice commands when the mobile device is operating in the idle mode (*Freeman, the Abstract*), the method comprising:

receiving acoustic input from the environment of the mobile device while the mobile device is operating in the idle mode (*Freeman, Figures 4 and 5, Col. 6 Lines 15-67, Col. 7 Lines 1-15)*; and

in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input (*Freeman, Figure 4, Steps 404, 406, 408, 410, Col. 6 Lines 15-47*), the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode (*Freeman, Figure 5, Steps 504, 506, 508, 510, Col. 6 Lines 53-67, Col. 7 Lines 1-15*).

Freeman does not teach "the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and

comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device".

LeBeau teaches "the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device" (*LeBeau, Figures 1B and 1C, pp [42]-[46]: a mobile device 142 takes into consideration of current context such as device' location, device's statuses docking/charging case, etc., and determining input audio that includes commands or requests from the user*).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify Freeman by incorporating the teachings of LeBeau, method and system for automatically monitoring ambient sounds for voice commands based on context hints to provide appropriate performances for a mobile computing device thus providing a high

advancement for monitoring audio inputs from environment surrounding a mobile computing device besides the conventional monitoring manners such as user's manual special key inputs to cause proper operations for the mobile computing device and therefore, equipping the mobile computing device with the best capability to obtain the most sufficient surrounding information from the environment in order to respond with the most effective and appropriate manner.

Regarding claim 19, (Currently Amendment) Freeman teaches at least one non-transitory computer readable medium encoded with instructions that, when executed in a mobile device configured to receive an acoustic input, causes the mobile device to perform a method of monitoring an acoustic environment (*Freeman, the Abstract, Figures 4 and 5, Col. 6 Lines 22-67, Col. 7 Lines 1-10*), the method comprising:

in response to the mobile device receiving acoustic input from the environment while operating in an idle mode, determining whether the received acoustic input includes a voice command by processing the received acoustic input, the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode (*Freeman, Figure 4, Steps 404, 406, 408, 410, Col. 6 Lines*

15-47; (Freeman, Figure 5, Steps 504, 506, 508, 510, Col. 6 Lines 53-67, Col. 7 Lines 1-15).

Freeman does not teach "the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device" (*LeBeau, Figures 1B and 1C, pp [42]-[46]: a mobile device 142 takes into consideration of current context such as device' location, device's statuses docking/charging case, etc., and determining input audio that includes commands or requests from the user*).

LeBeau teaches "the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device" (*LeBeau, Figures 1B and 1C, pp [42]-[46]: a mobile device 142*

takes into consideration of current context such as device' location, device's statuses docking/charging case, etc., and determining input audio that includes commands or requests from the user).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify Freeman by incorporating the teachings of LeBeau, method and system for automatically monitoring ambient sounds for voice commands based on context hints to provide appropriate performances for a mobile computing device thus providing a high advancement for monitoring audio inputs from environment surrounding a mobile computing device besides the conventional monitoring manners such as user's manual special key inputs to cause proper operations for the mobile computing device and therefore, equipping the mobile computing device with the best capability to obtain the most sufficient surrounding information from the environment in order to respond with the most effective and appropriate manner.

Regarding claim 20, (Currently Amendment) Freeman teaches a mobile device (*Freeman, the Abstract*), comprising:

at least one processor configured to:

in response to the mobile device receiving acoustic input from the environment while operating in an idle mode determine whether the received acoustic input includes a voice command by

processing the received acoustic input (*Freeman, Figure 4, Steps 404, 406, 408, 410, Col. 6 Lines 15-47; Freeman, Figure 5, Steps 504, 506, 508, 510, Col. 6 Lines 53-67, Col. 7 Lines 1-15*), the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode (*Freeman, Figure 4, Steps 404, 406, 408, 410, Col. 6 Lines 15-47;* (*Freeman, Figure 5, Steps 504, 506, 508, 510, Col. 6 Lines 53-67, Col. 7 Lines 1-15*).

Freeman does not teach "the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the received acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device".

LeBeau teaches "the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the received acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the

mobile device and/or a power source of the mobile device" (*LeBeau, Figures 1B and 1C, pp [42]-[46]: a mobile device 142 takes into consideration of current context such as device' location, device's statuses docking/charging case, etc., and determining input audio that includes commands or requests from the user*).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify Freeman by incorporating the teachings of LeBeau, method and system for automatically monitoring ambient sounds for voice commands based on context hints to provide appropriate performances for a mobile computing device thus providing a high advancement for monitoring audio inputs from environment surrounding a mobile computing device besides the conventional monitoring manners such as user's manual special key inputs to cause proper operations for the mobile computing device and therefore, equipping the mobile computing device with the best capability to obtain the most sufficient surrounding information from the environment in order to respond with the most effective and appropriate manner.

Regarding claim 2, (Previously Presented) Freeman, as modified by LeBeau, teaches the method of claim 1, further comprising transitioning the mobile device from the idle mode to an active mode in response to detecting that the acoustic input

includes a voice command (*Freeman, Figure 5, Col. 6 Lines 48-67, Col. 7 Lines 1-30*).

Regarding claim 4, (Currently Amended) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the at least one contextual cue includes the time the acoustic input was received, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on the time the acoustic input was received (*LeBeau, Figure 1B, pp [41]-[43]*).

Regarding claim 5, (Previously Presented) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the at least one contextual cue includes recent activity on the mobile device, and the method comprises evaluation of at least one of the plurality of processing stages based on at least one of how recently the user activated the mobile device, how recently the user issued a voice command and how recently the user performed at least one action on the mobile device (*LeBeau, pp [82]-[83]*).

Regarding claim 6, (Previously Presented) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the at least one contextual cue includes an occurrence of an event on the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on whether the acoustic input is received proximate in

time with the occurrence of the event (*LeBeau, Figure 1B, pp [41]-[43]; Figures 3A, 3B and 3C, pp [82]-[83], [85]-[87]).*

Regarding claim 7, (Previously Presented) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the at least one contextual cue includes motion of the mobile device received as an input from an accelerometer of the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on an assessment of whether the user moved the mobile device proximate in time with receiving the acoustic input based, at least in part, on the input from the accelerometer (*LeBeau, pp [21]-[22]).*

Regarding claim 8, (Previously Presented) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the at least one contextual cue includes the location of the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on determining whether the mobile device is located in at least one of a vehicle, a home or a place of work of the user of the mobile device (*LeBeau, Figure 1B, pp [41]-[43]; Figures 3A, 3B and 3C, pp [82]-[83], [85]-[87]).*

Regarding claim 9, (Currently Amended) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the at least one contextual cue includes the power source of the mobile device, and the method comprises influencing evaluation of at

least one of the plurality of processing stages based on at least one of determining whether the mobile device is being powered using a battery or wall power, and a state of the battery if the mobile device is being powered using the battery (*LeBeau, Figure 1B, pp [41]-[43]; Figures 3A, 3B and 3C, pp [82]-[83], [85]-[87]).*

Regarding claim 10, (Previously Presented) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the at least one contextual cue includes the sample of the acoustic environment obtained by the mobile device by storing acoustic input previously received by the mobile device and determined not to include a voice command, and the method comprises subtracting the sample of the acoustic environment from the acoustic input (*LeBeau, Figure 1B, pp [41]-[43]).*

Regarding claim 11, (Original) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein a sequence of performing the plurality of processing stages is determined, at least in part, by the at least one contextual cue (*Freeman, Figures 4 and 5, Col. 6 Lines 22-67, Col. 7 Lines 1-10; and LeBeau Figures 3A, 3B and 3C, pp [82]-[83], [85]-[87]).*

Regarding claim 12, (Original) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the mobile device includes a primary processor and a secondary processor, and wherein at least one first processing stage of the plurality

of processing stages is performed by the secondary processor prior to engaging the primary processor to process the acoustic input (*LeBeau, Figure 5, pp [127], [133]).*

Regarding claim 13, (Original) Freeman, as modified by LeBeau, teaches the method of claim 12, wherein at least one second processing stage of the plurality of processing stages is performed by the primary processor only after the at least one first processing stage is performed and neither concludes that the acoustic input includes a voice command nor concludes that the acoustic input is the result of spurious acoustic activity (*Freeman, Figures 4, 5 and 6, Col. 6 Lines 15-67, Col. 7 Lines 1-45; LeBeau Figures 3A, 3B and 3C, pp [82]-[83], [85]-[87]).*

Regarding claim 14, (Previously presented) Freeman, as modified by LeBeau, teaches the method of claim 12, wherein performing the at least one first processing stage includes performing at least one voice activity detection processing stage including performing at least one of spectral analysis on the acoustic input to evaluate whether a spectrum of the acoustic input is indicative of voice activity, periodicity analysis to evaluate whether signal periodicity of the acoustic input is indicative of voice activity, and phone loop analysis to evaluate whether the acoustic input includes speech (*Freeman, Figures 4, 5 and 6, Col. 6 Lines 15-67, Col. 7 Lines 1-45; and LeBeau, pp [36], [44], [58]).*

Regarding claim 15, (Original) Freeman, as modified by LeBeau, teaches the method of claim 12, wherein performing the at least one first processing stage comprises performing limited vocabulary automatic speech recognition on the acoustic input to detect whether the acoustic input includes an explicit voice trigger (*Freeman, Figures 4 and 5, Col. 6 Lines 22-67, Col. 7 Lines 1-10)*.

Regarding claim 16, (Original) Freeman, as modified by LeBeau, teaches the method of claim 12, wherein performing the at least one second processing stage comprises performing at least one speech processing stage including at least one of automatic speech recognition on the acoustic input and at least one natural language processing stage to understand the meaning of the voice command (*Freeman, Figures 4 and 5, Col. 6 Lines 22-67, Col. 7 Lines 1-10)*.

Regarding claim 17, (Currently Amended) Freeman, as modified by LeBeau, teaches the method of claim 1, wherein the mobile device is capable of connecting to at least one server via a network, and the method comprises transmitting at least a portion of the acoustic input to the at least one server via the network for processing by the at least one server (*LeBeau, pp [26], [39], [47])*.

Regarding claim 18, (Previously Presented) Freeman, as modified by LeBeau, teaches the method of claim 1, comprising

performing one or more default actions when a specific task could not be ascertained from the acoustic input (*LeBeau, pp [23]-[24], [43], [53], [64]*).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY C HO whose telephone number is (571)270-1108. The examiner can normally be reached on M-F 8AM-5PM.

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, KATHY WANG-HURST can be reached on (571)270-5371. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HUY C HO/
Primary Examiner, Art Unit 2644

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	10/29/2019	10/29/2019	10/29/2019	10/29/2019	10/29/2019	10/29/2019	05/18/2020	07/17/2021	
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Bibliographic Data

Application No: 13/795,933

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: Examiner's Signature | Initials

Title: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
03/12/2013 **RULE**	455	2644	CERN0105PUSA (12-0291-US-

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Vladimir Sejnoha, Lexington, MA, UNITED STATES

Glen Wilson, Maynard, MA, UNITED STATES

CONTINUING DATA

FOREIGN APPLICATIONS

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S13	162	S12 and (GPS location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 20:38
S14	18	S13 and (acceleration accelerometer)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2014/09/29 20:39

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S36	1	detect$3 with (voice near3 command) with (cue hint) with (motion move) with (device apparatus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/24 17:09
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S38	1	detect$3 with ((speech voice) near3 command) with (cue hint) with (motion move) with (device apparatus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/24 17:13

S39	25	detect$3 same ((speech voice) near3 command) same (cue hint) same (motion move) same (device apparatus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/24 17:14
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S45	322	S43 and (acoustic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/14 16:19
S46	194	S45 and (sensor)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2015/11/14 16:19

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S60	4	S59 and (device near5 (moving motion))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/06/13 00:05
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S67	2,890	S66 and ((acoustic sound noise) near4 (environment input surround$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2017/04/10 21:26

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S73	142	S68 and ((trigger$3 indicat$3 sign$2) near8 (activit$3 location time day motion event) near8 (device phone telephone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/10 21:48
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S79	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2017/04/19 12:59
S80	24,710	(379/88.01-88.02 |G10L15/20 |G10L15/22 |G10L15/24 |G10L15/25 |G10L2015/223 |G10L2015/226 |H04M2250/74).cds,cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2017/04/19 13:26

			JPO; DERWENT; IBM_TDB			
S81	18,782	S80 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/19 13:26
S82	2,893	S81 and ((acoustic sound noise) near4 (environment input surround$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/19 13:26
S83	643	S82 and (voice near3 command)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/19 13:26
S84	161	S83 and ((low$2 saving) near6 (power battery energy mode state))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 13:26
S85	69	S84 and (device near4 (movement sens$3 event activit$3 time night day hour))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 13:28
S86	33	S85 and (gestur$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 13:40
S87	3	"9646610"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/09/13 20:06

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S88	2	"20150340042"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:15
S89	23	"9112984"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:19
S90	182,473	(379/88.01-88.02 |G10L15/20 |G10L15/22 |G10L15/24 |G10L15/25 |G10L2015/223 |G10L2015/226 |H04M2250/74 |H04W52/0251 |H04W52/0254 |H04W52/0261 |H04W88/02 |Y02B60/50).cds,cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:37
S91	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2017/09/13 20:39
S92	140,674	S90 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:39
S93	10,645	S92 and ((voice audio acoustic sound) near3 (input recogniz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:41
S94	1,247	S93 and ((voice speech) near5 (command) near6 (recogniz$5 determin$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:42

S95	15	S94 and ((low power) near5 (saving save) near5 (mode status state stage))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:42
S96	0	S94 and ((low idle idling inactive) near6 (power energy battery) near6 (saving save))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:43
S97	110	S94 and ((low idle idling inactive) near6 (power energy battery))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:44
S98	0	S97 and ((hint cue) same (motion date time activity location) same (event trigger$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:45
S99	0	S97 and ((hint cue) same (event trigger$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:45
S100	3	S97 and (hint cue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:46
S101	54	S97 and ((motion date time activity location) same (event trigger$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:46

S102	2	"20030216909"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/08 11:45
S103	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2018/03/08 12:03
S104	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2018/04/11 18:36
S105	2	"20030216909"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 19:35
S106	3	"20150340042"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 19:38
S107	31	"9112984"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 19:39
S108	36,513	((speech voice audio) near6 (order command trigger) near6 (recogniz$5 recognition realliz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 21:03
S109	27,698	((speech voice audio) near4 (order command trigger) near4 (recogniz$5 recognition realliz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 21:04

S110	71	((speech voice audio) near4 (order command trigger) near4 (recogniz$5 recognition realliz$5)) same ((idl$3 low$power$2) near4 (mode state))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 21:05
S111	46	S110 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/11 21:06
S112	15	S111 and ((time location environment event) near4 (factor value parameter cue hint context))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/11 21:07
S113	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2018/04/12 09:47
S114	120,858	(H04W52/0251 |H04M1/72519 |G10L15/02 |H04W52/0261 |H04W40/005 |G10L15/30 |G10L15/22 |H04W52/0254 |H04M2250/74 |G10L2015/226 |G10L2015/223 |H04W88/02).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 09:56
S115	201,998	(H04W52/0251 |H04M1/72519 |G10L15/02 |H04W52/0261 |H04W40/005 |G10L15/30 |G10L15/22 |H04W52/0254 |Y02D70/00 |H04M2250/74 |G10L2015/226 |G10L2015/223 |H04W88/02 |Y02D70/164 |Y02D70/142 |Y02D70/144).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 09:56
S116	204,975	(379/88.01-88.02 |H04W52/0251 |H04M1/72519 |G10L15/02 |H04W52/0261 |H04W40/005 |G10L15/30 |G10L15/22 |H04W52/0254 |Y02D70/00 |H04M2250/74 |G10L2015/226 |G10L2015/223 |H04W88/02 |Y02D70/164 |Y02D70/142 |Y02D70/144).ccls,cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 09:56

S117	6,349	S116 and ((speech voice audio) near6 (order command trigger) near6 (recogniz$5 recognition realliz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/12 10:01
S118	5,190	S117 and ((speech voice audio) near4 (order command trigger) near4 (recogniz$5 recognition realliz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/12 10:02
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S120	683	S119 and ((time location environment event) near4 (factor value parameter cue hint context))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 10:02
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S124	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2020/02/10 10:54
S125	2	("20140274203").PN.	US-PGPUB; USPAT;	OR	ON	2020/05/15 19:39

			USOCR; DERWENT			
S126	170	"6006175"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:04
S127	73	"6859776"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:05
S128	11	"9087520"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:06
S129	24	"9558749"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:09
S130	59	"9747899"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:10
S131	15	"10332525"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:36
S132	3	"20120281885"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2020/05/15 23:37

			DERWENT; IBM_TDB			
S133	6	"20140039888"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:38
S134	3	"20140163978"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:43
S135	6	"20150006176"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:48
S136	5	"20150053779"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:57
S137	5	"20160073999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:58
S138	6	"20160078869"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:59
S139	3	"20190073999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2020/05/16 00:01

			DERWENT; IBM_TDB			
S140	2	"20190287526"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:01
S141	2	"20190311715"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:02
S142	2	"20190355365"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:02
S143	4	"20080118080"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:05
S144	36	"20090055178"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:06
S145	4	"20120197637"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:06
S146	3	"20120310646"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2020/05/16 00:07

			DERWENT; IBM_TDB			
S147	5	"20150106085"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:08
S148	5	"20160039356"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:10
S149	10	"20170116983"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:11
S150	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2020/05/19 16:02
S151	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2020/05/30 13:07

7/8/2021 8:42:32 AM
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/795,933	03/12/2013	William F. Ganong III	CERN0103PUS 120291USORG2	2321

179598 7590 10/08/2021

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1000 Town Center
22nd Floor
Southfield, MI 48075

EXAMINER	
HO, HUY C	

ART UNIT	PAPER NUMBER
2644	

NOTIFICATION DATE	DELIVERY MODE
10/08/2021	ELECTRONIC

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

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

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

docketing@brookskushman.com

Applicant-Initiated Interview Summary	**Application No.** 13/795,933	**Applicant(s)** Ganong et al.		
	Examiner HUY C HO	**Art Unit** 2644	**AIA (First Inventor to File) Status** No	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
HUY C HO	Primary Examiner	Telephonic
FANQI MENG	Attorney	

Date of Interview: 05 October 2021

Issues Discussed:

35 U.S.C. 103

Discussed argued claimed limitations, i.e., in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input , the processing employing at least one contextual cue" over Freeman and LeBeau. LeBeau teaches " determine whether to monitor for audio signals based on mobile device context (LeBeau, Figure 1B, pp [43]), which appear to be different than the claimed limitations above. Further validation and search are required based on the filing of the next response.

/HUY C HO/ Primary Examiner, Art Unit 2644	

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

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/795,933	Filing Date 03/12/2013	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $62 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $250 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	10/21/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 18	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/KAREN L VESTAL/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William F. GANONG

Group Art Unit: 2644

Examiner: Huy C. Ho

Serial No.: 13/795,933

Filed: March 12, 2013

For: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

Attorney Docket No.: CERN 0103 PUS

RESPONSE UNDER 37 C.F.R. § 1.111

Mail Stop Amendment
Commissioner for Patents
U.S. Patent and Trademark Office
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Alexandria, VA 22313-1450

Commissioner:

The following is in response to the Office Action mailed July 22, 2021:

Electronic Acknowledgement Receipt

EFS ID:	44086117
Application Number:	13795933
International Application Number:	
Confirmation Number:	2321
Title of Invention:	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND
First Named Inventor/Applicant Name:	William F. Ganong
Customer Number:	179598
Filer:	Fanqi Meng/Amy Tanner
Filer Authorized By:	Fanqi Meng
Attorney Docket Number:	CERN0103PUS 120291USORG2
Receipt Date:	21-OCT-2021
Filing Date:	12-MAR-2013
Time Stamp:	11:38:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		CERN0103PUS_NFOAResponse.pdf	180790 33177f4e6d2b023ed8900287a7f5400f4cbb3feef	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	10

Warnings:	
Information:	
Total Files Size (in bytes):	180790

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Remarks

Applicant requests reconsideration of this application in view of the above amendments to the claims and the following remarks. Claims 1–2, and 4–20 were pending in this application, all of which now stand rejected. For at least the following reasons, the pending claims are in condition for allowance.

Interview Summary

Applicant thanks the Examiner for taking the time to interview with Applicant's representative on October 5, 2021. Both the Examiner and Applicant found the interview mutually beneficial. (See Interview Summary dated October 8, 2021).

Claim Rejections – 35 USC § 103

Claims 1, 2 and 4–20 stand rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent No. 8,977,255 to Freeman et al. (hereinafter "*Freeman*") and further in view of U.S. Publication No. 2012/0034904 to LeBeau et al. (hereinafter "*LeBeau*"). Applicant respectfully traverses these rejections.

Claim 1 recites:

> in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input, the processing employing at least one contextual cue

Applicant respectfully submits that neither Freeman nor LeBeau teaches or suggests at least the above feature recited in claim 1. During the aforementioned interview, the Examiner agreed with applicant that Freeman does not disclose at least the above feature (See Interview Summary, page 1). In furtherance of this discussion, LeBeau Figure 1B is presented below:

Petitioner Exhibit 1004, Page 1392 of 1518

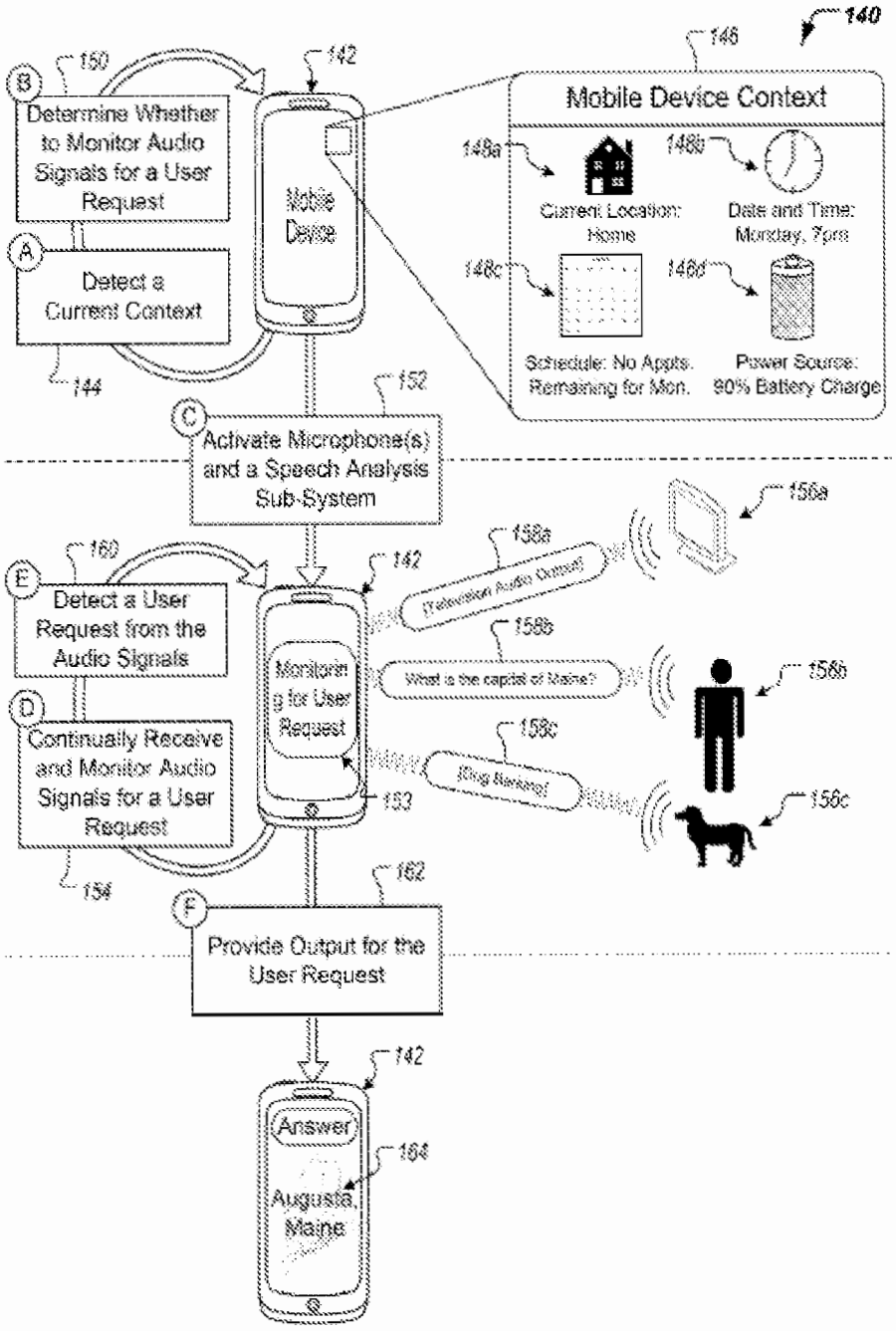


FIG. 1B

LeBeau recites "[a]t step B, the mobile computing device 142 determines whether to monitor audio signals for a user request based on the current context 146 of the device 142 and its user (150)." (LeBeau, paragraph [0043].) "In response to determining to monitor audio signals, at step C the mobile computing device can activate microphone(s) and a speech analysis subsystem that are available to the mobile computing device (152)." (LeBeau, paragraph [0044].)

Thus, LeBeau discloses a mobile device that determines whether to activate a microphone based on the "current context of the device." The "current context" in LeBeau uses a "current context" to determine whether to even begin receiving ambient noise (LeBeau, paragraph [0055]), and is not used to "determin[e] whether the received acoustic input includes a voice command." LeBeau is concerned with when to monitor for "user request" and when to activate the microphone. (Id.) Again, Lebeau fails to use "at least one contextual cue" to "determin[e] whether the received acoustic input includes a voice command," within the context of the claims.

Furthermore, claim 1 further recites that "the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode." Again, the modes in LeBeau cannot teach or suggest at least this recitation at least because LeBeau fails to process any stages in an idle mode. Freeman also fails to teach or suggest this recitation. Again, LeBeau does not teach or suggest "processing the received acoustic input, the processing employing at least one contextual cue" as recited in claim 1. Therefore, claim 1 is in condition for allowance.

Independent claims 19 and 20 differ from claim 1 in scope. However, at least for the similar reasons, claims 19 and 20 are also in condition for allowance.

The dependent claims are patentable over the cited references at least by virtue of their dependence on a patentable independent claim. However, each of the dependent claims further recite patentable subject matter.

Conclusion

Applicant has made a genuine effort to respond to each of the Examiner's objections and rejections in advancing the prosecution of this case. Applicant believes that all formal and substantive requirements for patentability have been met and that this case is in condition for allowance, which action is respectfully requested. If any additional issues need to be resolved, the Examiner is invited to contact the undersigned at Examiner's earliest convenience.

Petitioner Exhibit 1004, Page 1394 of 1518

Please charge any fees or credit any overpayments as a result of the filing of this paper to our Deposit Account No. 02-3978.

Respectfully submitted,

William F. GANONG

By: /Fanqi Meng/
Fanqi Meng
Limited Recognition No.: L0647
Attorney for Applicant

Date: October 21, 2021

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Petitioner Exhibit 1004, Page 1395 of 1518

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A method of monitoring an acoustic environment of a mobile device for voice commands when the mobile device is operating in a low power mode, the method comprising:

receiving acoustic input from the environment of the mobile device while the mobile device is operating in idle mode; and

in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input, the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device, the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode.

2. (Previously Presented) The method of claim 1, further comprising transitioning the mobile device from the idle mode to an active mode in response to detecting that the acoustic input includes a voice command.

3. (Canceled).

4. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes the time the acoustic input was received, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on the time the acoustic input was received.

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5. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes recent activity on the mobile device, the method further comprising evaluation of at least one of the plurality of processing stages based on at least one of how recently the user activated the mobile device, how recently the user issued a voice command and how recently the user performed at least one action on the mobile device.

6. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes an occurrence of an event on the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on whether the acoustic input is received proximate in time with the occurrence of the event.

7. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes motion of the mobile device received as an input from an accelerometer of the mobile device, the method comprises influencing evaluation of at least one of the plurality of processing stages based on an assessment of whether the user moved the mobile device proximate in time with receiving the acoustic input based, at least in part, on the input from the accelerometer.

8. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes the location of the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on determining whether the mobile device is located in at least one of a vehicle, a home or a place of work of the user of the mobile device.

9. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes the power source of the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on at least one of determining whether the mobile device is being powered using a battery or wall power, and a state of the battery if the mobile device is being powered using the battery.

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10. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes the sample of the acoustic environment obtained by the mobile device by storing acoustic input previously received by the mobile device and determined not to include a voice command, and the method comprises subtracting the sample of the acoustic environment from the acoustic input.

11. (Original) The method of claim 1, wherein a sequence of performing the plurality of processing stages is determined, at least in part, by the at least one contextual cue.

12. (Original) The method of claim 1, wherein the mobile device includes a primary processor and a secondary processor, and wherein at least one first processing stage of the plurality of processing stages is performed by the secondary processor prior to engaging the primary processor to process the acoustic input.

13. (Original) The method of claim 12, wherein at least one second processing stage of the plurality of processing stages is performed by the primary processor only after the at least one first processing stage is performed and neither concludes that the acoustic input includes a voice command nor concludes that the acoustic input is the result of spurious acoustic activity.

14. (Previously Presented) The method of claim 12, wherein performing the at least one first processing stage includes performing at least one voice activity detection processing stage including performing at least one of spectral analysis on the acoustic input to evaluate whether a spectrum of the acoustic input is indicative of voice activity, periodicity analysis to evaluate whether signal periodicity of the acoustic input is indicative of voice activity, and phone loop analysis to evaluate whether the acoustic input includes speech.

15. (Original) The method of claim 12, wherein performing the at least one first processing stage comprises performing limited vocabulary automatic speech recognition on the acoustic input to detect whether the acoustic input includes an explicit voice trigger.

Petitioner Exhibit 1004, Page 1398 of 1518

16. (Original) The method of claim 12, wherein performing the at least one second processing stage comprises performing at least one speech processing stage including at least one of automatic speech recognition on the acoustic input and at least one natural language processing stage to understand the meaning of the voice command.

17. (Previously Presented) The method of claim 1, wherein the mobile device is capable of connecting to at least one server via a network, and the method comprises transmitting at least a portion of the acoustic input to the at least one server via the network for processing by the at least one server.

18. (Previously Presented) The method of claim 1, comprising performing one or more default actions when a specific task could not be ascertained from the acoustic input.

19. (Currently Amended) At least one computer readable medium encoded with instructions that, when executed in a mobile device configured to receive an acoustic input, causes the mobile device to perform a method of monitoring an acoustic environment, the method comprising:

in response to the mobile device receiving acoustic input from the environment while operating in an idle mode, determining whether the received acoustic input includes a voice command by processing the received acoustic input, the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device, the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode.

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20. (Previously Presented) A mobile device comprising:

at least one processor configured to:

in response to the mobile device receiving acoustic input from the environment while operating in an idle mode, determine whether the received acoustic input includes a voice command by processing the received acoustic input, the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the received acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device, the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode.

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	10/29/2019	10/29/2019	10/29/2019	10/29/2019	10/29/2019	10/29/2019	05/18/2020	07/17/2021	12/23/2021
	1	✓	✓	✓	✓	✓	✓	✓	✓	✓
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓
	3	✓	✓	✓	✓	-	-	-	-	-
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓	✓	✓	✓	✓	✓
	6	✓	✓	✓	✓	✓	✓	✓	✓	✓
	7	✓	✓	✓	✓	✓	✓	✓	✓	✓
	8	✓	✓	✓	✓	✓	✓	✓	✓	✓
	9	✓	✓	✓	✓	✓	✓	✓	✓	✓
	10	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12	✓	✓	✓	✓	✓	✓	✓	✓	✓
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	14	✓	✓	✓	✓	✓	✓	✓	✓	✓
	15	✓	✓	✓	✓	✓	✓	✓	✓	✓
	16	✓	✓	✓	✓	✓	✓	✓	✓	✓
	17	✓	✓	✓	✓	✓	✓	✓	✓	✓
	18	✓	✓	✓	✓	✓	✓	✓	✓	✓
	19	✓	✓	✓	✓	✓	✓	✓	✓	✓
	20	✓	✓	✓	✓	✓	✓	✓	✓	✓

Bibliographic Data

Application No: 13/795,933

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: Examiner's Signature | Initials

Title: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
03/12/2013 **RULE**	455	2644	CERN0105PUSA (12-0291-US-

APPLICANTS

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Paul Adrian Van Mulbregt, Wayland, MA, UNITED STATES

Vladimir Sejnoha, Lexington, MA, UNITED STATES

Glen Wilson, Maynard, MA, UNITED STATES

CONTINUING DATA

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

04/02/2013

STATE OR COUNTRY

UNITED STATES

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FILING FEE RECEIVED

$1,740

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/795,933	03/12/2013	William F. Ganong III	CERN0103PUS 120291USORG2	2321

179598 7590 12/29/2021

Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075

EXAMINER
HO, HUY C

ART UNIT	PAPER NUMBER
2644	

NOTIFICATION DATE	DELIVERY MODE
12/29/2021	ELECTRONIC

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

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

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

docketing@brookskushman.com

Office Action Summary	Application No. 13/795,933	Applicant(s) Ganong et al.	
	Examiner HUY C HO	Art Unit 2644	AIA (FITF) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 21 October 2021.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a)☑ This action is **FINAL.** 2b) ☐ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-2 and 4-20 is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☑ Claim(s) 1-2 and 4-20 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 12 March 2013 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date ____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Response to Arguments

2. Applicant's arguments, filed on **10/21/2021** have been fully considered and are persuasive. The rejection of claims **1, 2 and 4-20** under 35 USC 103 as being unpatentable over Freeman (Patent No. US 8,977,255) and further in view of LeBeau (U.S. Publication No. 2012/0034904), has been withdrawn.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been

obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used.

Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or

PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

4. Claim **1** is rejected on the ground of nonstatutory double patenting as being unpatentable over claims **1 and 13** of U.S. Patent No. **9,361,885.** Although the claims at issue are not identical, they are not patentably distinct from each other because claims 1 and 13 of the patent read upon claim 1 of the current application as shown in the following comparison.

Current Application	**Patent No. 9,361,885**
1. (Previously Presented) A method of monitoring an acoustic environment of a mobile device for voice commands when the mobile device is operating in a low power mode, the method comprising:	**1.** A method of monitoring an acoustic environment of a mobile device for voice commands when the mobile device is operating in an idle mode, the mobile device having a first processor and a second processor, the method comprising:

receiving acoustic input from the environment of the mobile device while the mobile device is operating in idle mode; and	receiving acoustic input while the mobile device is operating in the idle mode;
in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input, the processing employing at least one **contextual cue**, the at least one **contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the**	performing at least one first processing stage on the acoustic input using the first processor, prior to engaging the second processor to process the acoustic input, to evaluate whether the acoustic input includes a voice command; performing at least one second processing stage on the acoustic input using the second processor to evaluate whether the acoustic input includes a voice command if further processing is needed to determine whether the

mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device, the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode.	acoustic input includes a voice command; wherein performing the at least one first processing stage or the at least one second processing stage includes, while the mobile device is operating in the idle mode, transmitting at least a portion of the acoustic input to at least one server via a network for processing by the at least one server at least to evaluate whether the acoustic input includes a voice command; and initiating responding to the voice command when either the at least one first processing stage or the at least one second processing stage determines that the

	acoustic input includes a voice command. **13. The method of claim 1, wherein performing the at least one second processing stage comprises evaluating at least one contextual cue selected from a group consisting of:** **time of day, motion of the mobile device, location of the mobile device, an occurrence of an event on the mobile device, recent activity on the mobile device and state of a battery powering the mobile device.**

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim **19** is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claim(s) does/do not fall within at least one of the four categories of patent eligible subject matter because claiming **"computer readable medium"**, wherein the medium does not necessarily exclude **a transitory medium**, which does not fall within at least one of the four categories of patent eligible subject matter, i.e., process, machine, manufacture or composition of matter.

Correction is required.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY C HO whose telephone number is (571)270-1108. The examiner can normally be reached M-F 8AM-5PM.

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, KATHY WANG-HURST can be reached on (571)270-5371. 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.

/HUY C HO/
Primary Examiner, Art Unit 2644

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

CPC - Searched*		
Symbol	Date	Examiner
H04W52/0251; H04M1/72519; G10L15/02; H04W52/0261; H04W40/005; G10L15/30; G10L15/22; H04W52/0254; Y02D70/00; H04M2250/74; G10L2015/226; G10L2015/223; H04W88/02; Y02D70/164; Y02D70/142; Y02D70/144	9/25/2014	HH

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
455	563	9/25/2014	HH

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

/HUY C HO/ Primary Examiner.Art Unit 2644	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

Search Notes		
Search Notes	**Date**	**Examiner**
EAST Database Search	9/25/2014	HH
Inventor Search	9/25/2014	HH
Search update	4/12/2015	HH
Search update	7/24/2015	HH
Search update	12/27/2015	HH
Search update	6/12/2016	HH
Search update	11/18/2016	HH
Search update	9/13/2017	HH
Search update	4/11/2018	HH
Search update	10/30/2019	HH
Search update	05/18/2020	HH
Search update	07/17/2021	HH
Search update	12/23/2021	HH

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
455	79	9/25/2014	HH
379	88.01, 88.02	9/25/2014	HH

/HUY C HO/ Primary Examiner.Art Unit 2644	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S10	5	"20030040339"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 19:50
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S12	239	S11 and (voice near3 command)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 20:37
S13	162	S12 and (GPS location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 20:38
S14	18	S13 and (acceleration accelerometer)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2014/09/29 20:39

			JPO; DERWENT; IBM_TDB			
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S16	4	S15 and (vehicle vehicular automobile car)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 20:40
S17	10,166	379/88.01-88.2.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 21:23
S18	1,003	S17 and (voice near3 command)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 21:23
S19	367	S18 and (voice near3 recogniz$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 21:24
S20	7	S19 and (acceleration accelerometer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 21:24
S21	253	S19 and (GPS location)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/09/29 21:24

			DERWENT; IBM_TDB			
S22	6	S15 and (vehicle vehicular automobile car home office)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 21:25
S23	211	S21 and (vehicle vehicular automobile car home office)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 21:25
S24	211	S23 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 21:25
S25	13	S24 and (low$2 near3 (power energy))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 21:26
S26	2	"20130289994"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 23:54
S27	2	2013/0080171	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/29 23:54
S28	55	((William) near2 (Ganong)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/29 23:55

S29	5	((Paul) near2 ("Van Mulbregt")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/29 23:55
S30	31	((Vladimir) near2 (Sejnoha)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/29 23:55
S31	25	((Glen) near2 (Wilson)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/29 23:55
S32	2	"US 20140274203"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2015/04/12 23:29
S33	2	"US 20140274203"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2015/07/23 09:19
S34	3	"20070129949"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/23 09:21
S35	2	"US 20140274203"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2015/07/24 17:00
S36	1	detect$3 with (voice near3 command) with (cue hint) with (motion move) with (device apparatus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/24 17:09
S37	1	S36 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/24 17:10
S38	1	detect$3 with ((speech voice) near3 command) with (cue hint) with (motion move) with (device apparatus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/24 17:13

S39	25	detect$3 same ((speech voice) near3 command) same (cue hint) same (motion move) same (device apparatus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/07/24 17:14
S40	21	S39 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/07/24 17:14
S41	2	"US 20140274203"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2015/10/05 14:08
S42	1,571	(voice near3 command) and ((idl$3 inactive) near3 (mode state))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/14 16:18
S43	1,440	S42 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/14 16:18
S44	0	S43 and (accoustic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/14 16:19
S45	322	S43 and (acoustic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/14 16:19
S46	194	S45 and (sensor)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2015/11/14 16:19

			JPO; DERWENT; IBM_TDB			
S47	278	(voice near3 command) same (idl$3 inactive power$saving low$power) same (mode status state mood)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/24 00:42
S48	237	S47 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/24 00:42
S49	113	S48 and ((mobile cellular) near5 (device equipment phone telephone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/24 00:43
S50	3	S49 and (hint cue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/24 00:43
S51	22	S49 and (acoustic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/24 00:44
S52	2	"US 20140274203"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2015/12/20 22:35
S53	119	("6397186" | "6411926" | "6449496" | "8285545" | "20110054899" | "6070140" | "7567827" | "8181046" | "8190420" | "20100124896" | "20130080171" | "20140012586" | "5428707" | "5774859" | "5983186" | "6965786" | "20140278435" | "20130080167" | "20140012573" |	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/12/20 22:38

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S54	2	"US 20140274203"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/06/12 23:25
S55	4	"8977255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/12 23:42
S56	3,459	379/88.01-88.03.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/13 00:03
S57	3,267	S56 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/13 00:03
S58	614	S57 and (voice near3 recogniz$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/13 00:03
S59	220	S58 and (voice near3 command)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/06/13 00:03

S60	4	S59 and (device near5 (moving motion))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/06/13 00:05
S61	6	"8977255"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/05 23:44
S62	14	"9112984"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/05 23:59
S63	2	"US 20140274203"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/11/05 23:59
S64	6	"9361885"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/11/06 00:00
S65	24,643	(379/88.01-88.02 |G10L15/20 |G10L15/22 |G10L15/24 |G10L15/25 |G10L2015/223 |G10L2015/226 |H04M2250/74).ccls,cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/10 21:15
S66	18,768	S65 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/10 21:22
S67	2,890	S66 and ((acoustic sound noise) near4 (environment input surround$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2017/04/10 21:26

			JPO; DERWENT; IBM_TDB			
S68	641	S67 and (voice near3 command)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/10 21:27
S69	818	S67 and ((voice speech) near3 command)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/10 21:27
S70	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2017/04/10 21:28
S71	10	S68 and (non$acoustic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/10 21:37
S72	10	S68 and ((cue hint) near6 (command))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/10 21:47
S73	142	S68 and ((trigger$3 indicat$3 sign$2) near8 (activit$3 location time day motion event) near8 (device phone telephone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/10 21:48
S74	117	S68 and ((trigger$3 indicat$3 sign$2) near6 (activit$3 location time day motion event) near6 (device phone telephone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/10 21:49

S75	6	S74 and ((low$2 saving) near6 (power battery energy) near6 (mode status state))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/10 21:50
S76	25	S74 and ((low$2 saving idl$3 sleep$3 in$active) near6 (mode status state))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/10 21:53
S77	967	("20010047264" | "20020002461" | "20020010584" | "20020031262" | "20020032564" | "20020035474" | "20020042707" | "20020046025" | "20020059066" | "20020059068" | "20020067308" | "20020069063" | "20020077817" | "20020091511" | "20020099552" | "20020103641" | "20020116171" | "20020116185" | "20020116189" | "20020128827" | "20020133347" | "20020135565" | "20020138265" | "20020143551" | "20020154160" | "20020164000" | "20020184189" | "20020198714" | "20030078766" | "20030088414" | "20030097210" | "20030099335" | "20030120494" | "20030135740" | "20030167335" | "20030190074" | "20030212961" | "20030233230" | "20030234824" | "20040054535" | "20040054690" | "20040085162" | "20040106432" | "20040135701" | "20040145607" | "20040162741" | "20040176958" | "20040186714" | "20040193420" | "20040199387" | "20040220798" | "20040236778" | "20050002507" | "20050015772" | "20050027385" | "20050033582" | "20050045373" | "20050049880" | "20050055403" | "20050058438" | "20050071332" | "20050080625" | "20050086059" | "20050091118" | "20050100214" | "20050102614" | "20050108001" | "20050108074" | "20050114124" | "20050114140" | "20050119897" | "20050125235" | "20050132301" | "20050143972" | "20050152602" | "20050165607" |	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/10 22:13

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S78	43	("8977255" | "9112984" | "9361885" | "20070129949" | "20120329389" | "7574361" | "20100124896" | "20030040339" | "20100289994" | "20140274211" | "20140278435" | "8548176" | "20100185448" | "20110054899" | "20130080167" | "20130080171" | "20130289994" | "20130339028" | "20140012573" | "20140012586" | "5428707" | "5774859" | "5802305" | "5983186" | "6070140" | "6092043" | "6397186" | "6408396" | "6411926" | "6449496" | "6594630" | "6756700" | "6941265" | "6965786" | "7114090" | "7567827" | "7720683" | "7774204" | "8056070" | "8181046" | "8190420" | "8285545" | "8666751").PN.	US-PGPUB; USPAT	OR	OFF	2017/04/19 12:58
S79	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2017/04/19 12:59
S80	24,710	(379/88.01-88.02 |G10L15/20 |G10L15/22 |G10L15/24 |G10L15/25 |G10L2015/223 |G10L2015/226 |H04M2250/74).cds,cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2017/04/19 13:26

			JPO; DERWENT; IBM_TDB			
S81	18,782	S80 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/19 13:26
S82	2,893	S81 and ((acoustic sound noise) near4 (environment input surround$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/19 13:26
S83	643	S82 and (voice near3 command)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/19 13:26
S84	161	S83 and ((low$2 saving) near6 (power battery energy mode state))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 13:26
S85	69	S84 and (device near4 (movement sens$3 event activit$3 time night day hour))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 13:28
S86	33	S85 and (gestur$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/19 13:40
S87	3	"9646610"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/09/13 20:06

			DERWENT; IBM_TDB			
S88	2	"20150340042"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:15
S89	23	"9112984"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:19
S90	182,473	(379/88.01-88.02 |G10L15/20 |G10L15/22 |G10L15/24 |G10L15/25 |G10L2015/223 |G10L2015/226 |H04M2250/74 |H04W52/0251 |H04W52/0254 |H04W52/0261 |H04W88/02 |Y02B60/50).cds,cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:37
S91	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2017/09/13 20:39
S92	140,674	S90 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:39
S93	10,645	S92 and ((voice audio acoustic sound) near3 (input recogniz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:41
S94	1,247	S93 and ((voice speech) near5 (command) near6 (recogniz$5 determin$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:42

S95	15	S94 and ((low power) near5 (saving save) near5 (mode status state stage))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:42
S96	0	S94 and ((low idle idling inactive) near6 (power energy battery) near6 (saving save))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:43
S97	110	S94 and ((low idle idling inactive) near6 (power energy battery))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:44
S98	0	S97 and ((hint cue) same (motion date time activity location) same (event trigger$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:45
S99	0	S97 and ((hint cue) same (event trigger$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:45
S100	3	S97 and (hint cue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:46
S101	54	S97 and ((motion date time activity location) same (event trigger$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/09/13 20:46

S102	2	"20030216909"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/03/08 11:45
S103	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2018/03/08 12:03
S104	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2018/04/11 18:36
S105	2	"20030216909"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 19:35
S106	3	"20150340042"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 19:38
S107	31	"9112984"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 19:39
S108	36,513	((speech voice audio) near6 (order command trigger) near6 (recogniz$5 recognition realliz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 21:03
S109	27,698	((speech voice audio) near4 (order command trigger) near4 (recogniz$5 recognition realliz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 21:04

S110	71	((speech voice audio) near4 (order command trigger) near4 (recogniz$5 recognition realliz$5)) same ((idl$3 low$power$2) near4 (mode state))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/11 21:05
S111	46	S110 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/11 21:06
S112	15	S111 and ((time location environment event) near4 (factor value parameter cue hint context))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/11 21:07
S113	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2018/04/12 09:47
S114	120,858	(H04W52/0251 |H04M1/72519 |G10L15/02 |H04W52/0261 |H04W40/005 |G10L15/30 |G10L15/22 |H04W52/0254 |H04M2250/74 |G10L2015/226 |G10L2015/223 |H04W88/02).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 09:56
S115	201,998	(H04W52/0251 |H04M1/72519 |G10L15/02 |H04W52/0261 |H04W40/005 |G10L15/30 |G10L15/22 |H04W52/0254 |Y02D70/00 |H04M2250/74 |G10L2015/226 |G10L2015/223 |H04W88/02 |Y02D70/164 |Y02D70/142 |Y02D70/144).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 09:56
S116	204,975	(379/88.01-88.02 |H04W52/0251 |H04M1/72519 |G10L15/02 |H04W52/0261 |H04W40/005 |G10L15/30 |G10L15/22 |H04W52/0254 |Y02D70/00 |H04M2250/74 |G10L2015/226 |G10L2015/223 |H04W88/02 |Y02D70/164 |Y02D70/142 |Y02D70/144).ccls,cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 09:56

S117	6,349	S116 and ((speech voice audio) near6 (order command trigger) near6 (recogniz$5 recognition realliz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/12 10:01
S118	5,190	S117 and ((speech voice audio) near4 (order command trigger) near4 (recogniz$5 recognition realliz$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/12 10:02
S119	3,583	S118 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 10:02
S120	683	S119 and ((time location environment event) near4 (factor value parameter cue hint context))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/04/12 10:02
S121	38	S120 and ((idl$3 low$power$2) near4 (mode state))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/04/12 10:03
S122	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2019/10/30 16:11
S123	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2019/10/30 22:00
S124	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2020/02/10 10:54
S125	2	("20140274203").PN.	US-PGPUB; USPAT;	OR	ON	2020/05/15 19:39

			USOCR; DERWENT			
S126	170	"6006175"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:04
S127	73	"6859776"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:05
S128	11	"9087520"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:06
S129	24	"9558749"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:09
S130	59	"9747899"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:10
S131	15	"10332525"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:36
S132	3	"20120281885"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2020/05/15 23:37

			DERWENT; IBM_TDB			
S133	6	"20140039888"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:38
S134	3	"20140163978"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:43
S135	6	"20150006176"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:48
S136	5	"20150053779"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:57
S137	5	"20160073999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:58
S138	6	"20160078869"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/15 23:59
S139	3	"20190073999"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2020/05/16 00:01

			DERWENT; IBM_TDB			
S140	2	"20190287526"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:01
S141	2	"20190311715"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:02
S142	2	"20190355365"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:02
S143	4	"20080118080"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:05
S144	36	"20090055178"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:06
S145	4	"20120197637"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:06
S146	3	"20120310646"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2020/05/16 00:07

			DERWENT; IBM_TDB			
S147	5	"20150106085"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:08
S148	5	"20160039356"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:10
S149	10	"20170116983"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/05/16 00:11
S150	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2020/05/19 16:02
S151	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2020/05/30 13:07
S152	3,335	(monitor$3 validat$3 check$3) same (acoustic audio noise sound voice) same (ambient surround$3) same (room environment) same (context$5 motion calendar meeting schedule activit$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2021/12/10 21:55
S153	241	(monitor$3 validat$3 check$3) same (acoustic audio noise sound voice) same (ambient surround$3) same (room environment) same (context$5 motion calendar meeting schedule activit$3) same (idl$3 in$active power$saving)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2021/12/10 21:55
S154	174	S153 and (@ad<"20130312" @rlad<"20130312")	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2021/12/10 21:56

			JPO; DERWENT; IBM_TDB			
S155	2	("20140274203").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2021/12/10 22:14
S156	43	("20030040339" | "20070129949" | "20100009719" | "20100124896" | "20100185448" | "20100289994" | "20110054899" | "20120329389" | "20130080167" | "20130080171" | "20130289994" | "20130339028" | "20140012573" | "20140012586" | "20140274203" | "20140274211" | "5428707" | "5774859" | "5802305" | "5983186" | "6070140" | "6092043" | "6397186" | "6408396" | "6411926" | "6449496" | "6594630" | "6756700" | "6941265" | "6965786" | "7114090" | "7567827" | "7574361" | "7720683" | "7774204" | "8056070" | "8181046" | "8190420" | "8285545" | "8548176" | "8620389" | "8666751" | "8977255").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/10 22:24
S157	36	("20020105575" | "20060111916" | "20080146289" | "20090315827" | "20100205667" | "20110216093" | "20120007713" | "20120157114" | "20120259638" | "20120300061" | "20130013316" | "6754373" | "8451314" | "8635066").PN. OR ("9526127").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/10 23:01
S158	12	"11087750"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2021/12/10 23:06
S159	82	"9940936"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2021/12/10 23:09
S160	82	"9940936"	US-PGPUB; USPAT; USOCR;	OR	ON	2021/12/13 16:00

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S161	162	"9112984"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2021/12/13 16:01

12/23/2021 6:03:42 PM
C:\Users\hho3\Documents\EAST_OLD2\Workspaces\13795933.wsp

Remarks

Applicant requests reconsideration of this application in view of the above amendments to the claims and the following remarks. Claims 1–2, and 4-18 and 20 were pending in this application, all of which now stand rejected. For at least the following reasons, the pending claims are in condition for allowance.

Double Patenting

Claim 1 is rejected on the ground of non-statutory obviousness-type double patenting over claims 1 and 13 of U.S. Patent No. 9,361,885. In an effort to further prosecution, a terminal disclaimer is concurrently filed with this response, and the double patenting rejection should be withdrawn.

Claim Rejections – 35 U.S.C. § 101

Claim 19 is rejected under 35 U.S.C. § 101 because the claimed invention is directed to non-statutory subject matter. Without acquiescing to the rejections, Applicant cancels claim 19 to further prosecution.

Allowable Subject Matter

Applicant thanks the Examiner for withdrawing the § 103 rejections for claims 1, 2 and 4-20. Applicant believes all pending claims are in condition for allowance.

Conclusion

Applicant has made a genuine effort to respond to each of the Examiner's objections and rejections in advancing the prosecution of this case. Applicant believes that all formal and substantive requirements for patentability have been met and that this case is in condition for allowance, which action is respectfully requested. If any additional issues need to be resolved, the Examiner is invited to contact the undersigned at Examiner's earliest convenience.

Petitioner Exhibit 1004, Page 1446 of 1518

Please charge any fees or credit any overpayments as a result of the filing of this paper to our Deposit Account No. 02-3978.

Respectfully submitted,

William F. GANONG

By: /Rachel A. Smith/
Rachel A. Smith
Reg. No. 66,437
Attorney for Applicant

Date: March 3, 2022

BROOKS KUSHMAN P.C.
1000 Town Center, 22nd Floor
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Phone: 248-358-4400
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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A method of monitoring an acoustic environment of a mobile device for voice commands when the mobile device is operating in a low power mode, the method comprising:

receiving acoustic input from the environment of the mobile device while the mobile device is operating in idle mode; and

in response to receiving the acoustic input, determining whether the received acoustic input includes a voice command by processing the received acoustic input, the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device, the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode.

2. (Previously Presented) The method of claim 1, further comprising transitioning the mobile device from the idle mode to an active mode in response to detecting that the acoustic input includes a voice command.

3. (Canceled).

4. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes the time the acoustic input was received, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on the time the acoustic input was received.

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5. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes recent activity on the mobile device, the method further comprising evaluation of at least one of the plurality of processing stages based on at least one of how recently the user activated the mobile device, how recently the user issued a voice command and how recently the user performed at least one action on the mobile device.

6. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes an occurrence of an event on the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on whether the acoustic input is received proximate in time with the occurrence of the event.

7. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes motion of the mobile device received as an input from an accelerometer of the mobile device, the method comprises influencing evaluation of at least one of the plurality of processing stages based on an assessment of whether the user moved the mobile device proximate in time with receiving the acoustic input based, at least in part, on the input from the accelerometer.

8. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes the location of the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on determining whether the mobile device is located in at least one of a vehicle, a home or a place of work of the user of the mobile device.

9. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes the power source of the mobile device, and the method comprises influencing evaluation of at least one of the plurality of processing stages based on at least one of determining whether the mobile device is being powered using a battery or wall power, and a state of the battery if the mobile device is being powered using the battery.

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10. (Previously Presented) The method of claim 1, wherein the at least one contextual cue includes the sample of the acoustic environment obtained by the mobile device by storing acoustic input previously received by the mobile device and determined not to include a voice command, and the method comprises subtracting the sample of the acoustic environment from the acoustic input.

11. (Original) The method of claim 1, wherein a sequence of performing the plurality of processing stages is determined, at least in part, by the at least one contextual cue.

12. (Original) The method of claim 1, wherein the mobile device includes a primary processor and a secondary processor, and wherein at least one first processing stage of the plurality of processing stages is performed by the secondary processor prior to engaging the primary processor to process the acoustic input.

13. (Original) The method of claim 12, wherein at least one second processing stage of the plurality of processing stages is performed by the primary processor only after the at least one first processing stage is performed and neither concludes that the acoustic input includes a voice command nor concludes that the acoustic input is the result of spurious acoustic activity.

14. (Previously Presented) The method of claim 12, wherein performing the at least one first processing stage includes performing at least one voice activity detection processing stage including performing at least one of spectral analysis on the acoustic input to evaluate whether a spectrum of the acoustic input is indicative of voice activity, periodicity analysis to evaluate whether signal periodicity of the acoustic input is indicative of voice activity, and phone loop analysis to evaluate whether the acoustic input includes speech.

15. (Original) The method of claim 12, wherein performing the at least one first processing stage comprises performing limited vocabulary automatic speech recognition on the acoustic input to detect whether the acoustic input includes an explicit voice trigger.

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16. (Original) The method of claim 12, wherein performing the at least one second processing stage comprises performing at least one speech processing stage including at least one of automatic speech recognition on the acoustic input and at least one natural language processing stage to understand the meaning of the voice command.

17. (Previously Presented) The method of claim 1, wherein the mobile device is capable of connecting to at least one server via a network, and the method comprises transmitting at least a portion of the acoustic input to the at least one server via the network for processing by the at least one server.

18. (Previously Presented) The method of claim 1, comprising performing one or more default actions when a specific task could not be ascertained from the acoustic input.

19. (Cancelled)

20. (Previously Presented) A mobile device comprising:

at least one processor configured to:

in response to the mobile device receiving acoustic input from the environment while operating in an idle mode, determine whether the received acoustic input includes a voice command by processing the received acoustic input, the processing employing at least one contextual cue, the at least one contextual cue comprising information other than content of the received acoustic input and comprising a time the acoustic input was received, motion of the mobile device, location of the mobile device, occurrence of an event on the mobile device, recent activity on the mobile device, a stored sample of the acoustic environment of the mobile device and/or a power source of the mobile device, the processing of the received acoustic input comprising a plurality of processing stages, at least one of the processing stages being performed while the mobile device is operating in the idle mode.

Petitioner Exhibit 1004, Page 1451 of 1518

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William F. GANONG

Group Art Unit: 2644

Examiner: HO, HUY C.

Serial No.: 13/795,933

Filed: March 12, 2013

For: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

Attorney Docket No.: CERN0103PUS

AMENDMENT UNDER 37 C.F.R. § 1.116

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Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

In response to the Final Office Action mailed December 29, 2021, please amend the above-identified application as follows:

Electronic Acknowledgement Receipt

EFS ID:	45138220
Application Number:	13795933
International Application Number:	
Confirmation Number:	2321
Title of Invention:	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND
First Named Inventor/Applicant Name:	William F. Ganong
Customer Number:	179598
Filer:	Rachel Ann Smith/Kristine Grand
Filer Authorized By:	Rachel Ann Smith
Attorney Docket Number:	CERN0103PUS 120291USORG2
Receipt Date:	03-MAR-2022
Filing Date:	12-MAR-2013
Time Stamp:	16:05:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		AMENDMENT_CERN0103PUS.PDF	521781 45804151aa0cd7c70c0d7b42378a3d846b5acff8	yes	7

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	7

Warnings:	
Information:	
Total Files Size (in bytes):	521781

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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 a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Patent Application Fee Transmittal

Application Number:	13795933
Filing Date:	12-Mar-2013
Title of Invention:	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND
First Named Inventor/Applicant Name:	William F. Ganong
Filer:	Rachel Ann Smith/Kristine Grand
Attorney Docket Number:	CERN0103PUS 120291USORG2

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

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

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	13795933
Filing Date	12-Mar-2013
First Named Inventor	William Ganong
Attorney Docket Number	CERN0103PUS 120291USORG2
Title of Invention	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
CERENCE OPERATING COMPANY	100%

The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

9361885

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○	I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

○ Small Entity

○ Micro Entity

◉ Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 66437

○ A sole inventor

○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

○ A joint inventor; all of whom are signing this request

Signature	/Rachel A. Smith/
Name	Rachel A. Smith

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

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

Application No.: 13795933

Filing Date: 12-Mar-2013

Applicant/Patent under Reexamination: Ganong

Electronic Terminal Disclaimer filed on March 3, 2022

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

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

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	45138135
Application Number:	13795933
International Application Number:	
Confirmation Number:	2321
Title of Invention:	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND
First Named Inventor/Applicant Name:	William F. Ganong
Customer Number:	179598
Filer:	Rachel Ann Smith/Kristine Grand
Filer Authorized By:	Rachel Ann Smith
Attorney Docket Number:	CERN0103PUS 120291USORG2
Receipt Date:	03-MAR-2022
Filing Date:	12-MAR-2013
Time Stamp:	16:03:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$170
RAM confirmation Number	E202233G03462957
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	41307 c07ce052a05bf57cc60ef7ac4ee26d65fe382 3e2	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37902 c70c14e81ca5f0e79a9c9ac3afa914ea38944 128	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	79209		

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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 a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/795,933	Filing Date 03/12/2013	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $62 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $250 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	03/03/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 18	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/KIMBERLY N PANNELL/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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179598 7590 03/16/2022

Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075

EXAMINER
HO, HUY C

ART UNIT	PAPER NUMBER
2644	

DATE MAILED: 03/16/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/795,933	03/12/2013	William F. Ganong III	CERN0103PUS 120291USORG2	2321

TITLE OF INVENTION: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

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	06/16/2022

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. 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.

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

179598 7590 03/16/2022

Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075

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

Certificate of Mailing or Transmission

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

(Typed or printed name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/795,933	03/12/2013	William F. Ganong III	CERN0103PUS 120291USORG2	2321

TITLE OF INVENTION: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

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	06/16/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
HO, HUY C	2644	455-556100

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) ❑ Advance Order - # of Copies _____

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

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

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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 _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Petitioner Exhibit 1004, Page 1464 of 1518

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.
13/795,933	03/12/2013	William F. Ganong III	CERN0103PUS 120291USORG2	2321

EXAMINER	
HO, HUY C	

ART UNIT	PAPER NUMBER
2644	

179598 7590 03/16/2022

Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075

DATE MAILED: 03/16/2022

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 13/795,933	Applicant(s) Ganong et al.	
	Examiner HUY C HO	Art Unit 2644	AIA (FITF) Status No

-- 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 03/03/2022.
   ☐ 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 1-2,4-18 and 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 _____.

/HUY C HO/
Primary Examiner, Art Unit 2644

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Response to Arguments

2. Applicant's arguments, filed on **03/03/2022** with respect to the submission of a Terminal Disclaimer to overcome the double patenting rejection and the cancelation of claim 19 which was under the 35 USC 101 rejection in the Final Rejection dated 12/29/2021, have been fully considered and are persuasive. The rejection of claims **1, 2, 4-18 and 20** has been withdrawn.

Terminal Disclaimer

3. The terminal disclaimer filed on **03/03/2022** disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of **patent No. 9361885** has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

4. Claims **1, 2, 4-18 and 20** are allowed.

5. The following is an examiner's statement of reasons for allowance:

The arguments made in the Applicant Arguments/Remarks filed on **03/03/2022,** have been fully considered and are persuasive. The Terminal Disclaimer filed on **03/03/2022** overcomes the double patenting rejection of claims **1, 2, 4-18 and 20.**

Further search has been updated. However, no reference is found alone or in any combination with the prior art of record to provide the teachings, suggestions or disclosures of the unique limitations and features recited from the independent claims **1 and 20** (and thus the corresponding dependent claims **2 and 4-18**) as filed on **03/03/2022.**

Therefore, claims **1, 2, 4-18 and 20** are deemed allowed.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY C HO

whose telephone number is (571)270-1108. The examiner can normally be reached M-F 8AM-5PM.

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, KATHY WANG-HURST can be reached on (571)270-5371. 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.

/HUY C HO/
Primary Examiner, Art Unit 2644

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	84	("20100185448"|"20110054899"|"20130080167"|"20130080171"|"20130289994"|"20130339028"|"20140012573"|"20140012586"|"5428707"|"5774859"|"5802305"|"5983186"|"6070140"|"6092043"|"6397186"|"6408396"|"6411926"|"6449496"|"6594630"|"6756700"|"6941265"|"6965786"|"7114090"|"7567827"|"7720683"|"7774204"|"8056070"|"8181046"|"8190420"|"8285545"|"8666751").PN.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/11 03:08 PM
L2	1	"US 20140274203"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2014/09/25 01:39 PM
L3	6	"8094838"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/25 01:54 PM
L4	6	"8094838"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/25 01:54 PM
L5	6	"8094838"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/25 02:38 PM
L6	36	(jacoby near2 keith).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/25 02:39 PM
L7	3	"US 20080172221"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2014/09/25 02:39 PM
L8	3	"20140012573"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 05:24 PM
L9	5	"20030040339"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 07:50 PM
L10	5	"20030040339"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 07:50 PM
L11	903	455/563.ccls.	(US-PGPUB; USPAT;	OR	OFF	OFF	2014/09/29

Petitioner Exhibit 1004, Page 1472 of 1518

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:36 PM
L12	239	L11 and (voice near3 command)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 08:37 PM
L13	162	L12 and (GPS location)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 08:38 PM
L14	18	L13 and (acceleration accelerometer)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 08:39 PM
L15	14	L14 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 08:39 PM
L16	4	L15 and (vehicle vehicular automobile car)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 08:40 PM
L17	10166	379/88.01-88.2.ccls.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 09:23 PM
L18	1003	L17 and (voice near3 command)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 09:23 PM
L19	367	L18 and (voice near3 recogniz$5)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 09:24 PM
L20	7	L19 and (acceleration accelerometer)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 09:24 PM
L21	253	L19 and (GPS location)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 09:24 PM
L22	6	L15 and (vehicle vehicular automobile car home office)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 09:25 PM
L23	211	L21 and (vehicle vehicular automobile car home office)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 09:25 PM
L24	211	L23 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2014/09/29 09:25 PM

			IBM_TDB)				
L25	13	L24 and (low$2 near3 (power energy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 09:26 PM
L26	2	"20130289994"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 11:54 PM
L27	2	2013/0080171	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2014/09/29 11:54 PM
L28	55	((William) near2 (Ganong)).INV.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/29 11:55 PM
L29	5	((Paul) near2 ("Van Mulbregt")).INV.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/29 11:55 PM
L30	31	((Vladimir) near2 (Sejnoha)).INV.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/29 11:55 PM
L31	25	((Glen) near2 (Wilson)).INV.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/29 11:55 PM
L32	2	"US 20140274203"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2015/04/12 11:29 PM
L33	2	"US 20140274203"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2015/07/23 09:19 AM
L34	3	"20070129949"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/07/23 09:21 AM
L35	2	"US 20140274203"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2015/07/24 05:00 PM
L36	1	detect$3 with (voice near3 command) with (cue hint) with (motion move) with (device apparatus)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/07/24 05:09 PM
L37	1	L36 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/07/24 05:10 PM
L38	1	detect$3 with ((speech voice) near3 command) with (cue hint) with (motion move) with (device apparatus)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/07/24 05:13 PM
L39	25	detect$3 same ((speech voice) near3 command) same (cue hint) same (motion move) same (device apparatus)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2015/07/24 05:14 PM
L40	21	L39 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2015/07/24 05:14 PM

			IBM_TDB)				
L41	2	"US 20140274203"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2015/10/05 02:08 PM
L42	1571	(voice near3 command) and ((idl$3 inactive) near3 (mode state))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/14 04:18 PM
L43	1440	L42 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/14 04:18 PM
L44	0	L43 and (accoustic)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/14 04:19 PM
L45	322	L43 and (acoustic)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/14 04:19 PM
L46	194	L45 and (sensor)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/14 04:19 PM
L47	278	(voice near3 command) same (idl$3 inactive power$saving low$power) same (mode status state mood)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/24 12:42 AM
L48	237	L47 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/24 12:42 AM
L49	113	L48 and ((mobile cellular) near5 (device equipment phone telephone))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/24 12:43 AM
L50	3	L49 and (hint cue)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/24 12:43 AM
L51	22	L49 and (acoustic)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/11/24 12:44 AM
L52	2	"US 20140274203"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2015/12/20 10:35 PM
L53	119	("6397186"|"6411926"|"6449496"|"8285545"|"20110054899"|"6070140"|"7567827"|"8181046"|"8190420"|"20100124896"|"20130080171"|"20140012586"|"5428707"|	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2015/12/20 10:38 PM

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		5774859"|"5983186"|"6965786"|"20140278435"|"20130080167"|"20140012573"|"6594630"|"20030040339"|"20100289994"|"20130339028"|"6408396"|"7114090"|"7774204"|"20100185448"|"20130289994"|"7720683"|"8666751"|"20140274211"|"20070129949"|"7574361"|"6092043"|"6756700"|"6941265"|"8056070"|"8620389"|"5802305"|"20100009719"|"8548176"|"20120329389").PN.					
L54	2	"US 20140274203"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2016/06/12 11:25 PM
L55	4	"8977255"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/12 11:42 PM
L56	3459	379/88.01-88.03.ccls.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/13 12:03 AM
L57	3267	L56 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/13 12:03 AM
L58	614	L57 and (voice near3 recogniz$5)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/13 12:03 AM
L59	220	L58 and (voice near3 command)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/06/13 12:03 AM
L60	4	L59 and (device near5 (moving motion))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/06/13 12:05 AM
L61	6	"8977255"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/11/05 11:44 PM
L62	14	"9112984"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2016/11/05 11:59 PM
L63	2	"US 20140274203"	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2016/11/05 11:59 PM
L64	6	"9361885"	(US-PGPUB; USPAT;	OR	OFF	OFF	2016/11/06

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:00 AM
L65	24643	(379/88.01-88.02|G10L15/20|G10L15/22|G10L15/24|G10L15/25|G10L2015/223|G10L2015/226|H04M2250/74).ccls,cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/10 09:15 PM
L66	18768	L65 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/10 09:22 PM
L67	2890	L66 and ((acoustic sound noise) near4 (environment input surround$3))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/10 09:26 PM
L68	641	L67 and (voice near3 command)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/10 09:27 PM
L69	818	L67 and ((voice speech) near3 command)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/10 09:27 PM
L70	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2017/04/10 09:28 PM
L71	10	L68 and (non$acoustic)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/10 09:37 PM
L72	10	L68 and ((cue hint) near6 (command))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/10 09:47 PM
L73	142	L68 and ((trigger$3 indicat$3 sign$2) near8 (activit$3 location time day motion event) near8 (device phone telephone))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/04/10 09:48 PM
L74	117	L68 and ((trigger$3 indicat$3 sign$2) near6 (activit$3 location time day motion event) near6 (device phone telephone))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/04/10 09:49 PM
L75	6	L74 and ((low$2 saving) near6 (power battery energy) near6 (mode status state))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/04/10 09:50 PM
L76	25	L74 and ((low$2 saving idl$3 sleep$3 in$active) near6 (mode status	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2017/04/10 09:53 PM

		state))	IBM_TDB)				
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Petitioner Exhibit 1004, Page 1487 of 1518

		| "7528713" | "7529671" | "7529676" | "7539656" | "7543232" | "7546382" | "7548895" | "7552055" | "7555431" | "7558730" | "7571106" | "7577522" | "7580551" | "7580576" | "7599918" | "7603381" | "7620549" | "7624007" | "7634409" | "7636657" | "7640160" | "7647225" | "7649454" | "7657424" | "7664638" | "7672841" | "7676026" | "7684985" | "7684990" | "7693715" | "7693719" | "7693720" | "7698131" | "7702500" | "7702508" | "7707027" | "7707032" | "7707267" | "7711565" | "7711672" | "7716056" | "7720674" | "7720683" | "7721301" | "7725307" | "7725318" | "7725320" | "7725321" | "7729904" | "7729916" | "7734461" | "7747616" | "7752152" | "7756868" | "7774204" | "7783486" | "7801729" | "7809570" | "7809610" | "7818176" | "7818291" | "7822608" | "7823123" | "7826945" | "7831426" | "7840400" | "7840447").PN. OR ("7853574" | "7853664" | "7873519" | "7873654" | "7881936" | "7885844" | "7890652" | "7912702" | "7917367" | "7917497" | "7920678" | "7925525" | "7930168" | "7930197" | "7949529" | "7949534" | "7974844" | "7974972" | "7983915" | "7983917" | "7983997" | "7986431" | "7987151" | "7996228" | "7999669" | "8000453" | "8005664" | "8005679" | "8015006" | "8024195" | "8032383" | "8036901" | "8041570" | "8041611" | "8050500" | "8055708" | "8065155" | "8065156" | "8069046" | "8069422" | "8073681" | "8078473" | "8082153" | "8095364" | "8099289" | "8107401" | "8112275" | "8112280"				

		|"8117037" |"8122353" |"8131557" |"8138912" |"8140335" |"8165886" |"8166019" |"8188856" |"8190359" |"8195467" |"8204238" |"8205788" |"8219407" |"8285551" |"8285553" |"8290777" |"8290778" |"8290781" |"8296146" |"8296153" |"8296383" |"8301456" |"8311834" |"8370158" |"8371503" |"8374871" |"8447612" | "8498857" |"RE34562").PN. OR ("8977255").URPN.					
L78	43	("8977255"|"9112984"|"9361885"|"20070129949"|"20120329389"|"7574361"|"20100124896"|"20030040339"|"20100289994"|"20140274211"|"20140278435"|"8548176"|"20100185448"|"20110054899"|"20130080167"|"20130080171"|"20130289994"|"20130339028"|"20140012573"|"20140012586"|"5428707"|"5774859"|"5802305"|"5983186"|"6070140"|"6092043"|"6397186"|"6408396"|"6411926"|"6449496"|"6594630"|"6756700"|"6941265"|"6965786"|"7114090"|"7567827"|"7720683"|"7774204"|"8056070"|"8181046"|"8190420"|"8285545"|"8666751").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2017/04/19 12:58 PM
L79	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2017/04/19 12:59 PM
L80	24710	(379/88.01-88.02|G10L15/20|G10L15/22|G10L15/24|G10L15/25|G10L2015/223|G10L2015/226|H04M2250/74).ccls,cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/19 01:26 PM
L81	18782	L80 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/19 01:26 PM
L82	2893	L81 and ((acoustic sound noise) near4 (environment input surround$3))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/19 01:26 PM

L83	643	L82 and (voice near3 command)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/04/19 01:26 PM
L84	161	L83 and ((low$2 saving) near6 (power battery energy mode state))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/04/19 01:26 PM
L85	69	L84 and (device near4 (movement sens$3 event activit$3 time night day hour))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/04/19 01:28 PM
L86	33	L85 and (gestur$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/04/19 01:40 PM
L87	3	"9646610"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:06 PM
L88	2	"20150340042"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:15 PM
L89	23	"9112984"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:19 PM
L90	182473	(379/88.01-88.02|G10L15/20|G10L15/22|G10L15/24|G10L15/25|G10L2015/223|G10L2015/226|H04M2250/74|H04W52/0251|H04W52/0254|H04W52/0261|H04W88/02|Y02B60/50).ccls,cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:37 PM
L91	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	OFF	OFF	2017/09/13 08:39 PM
L92	140674	L90 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:39 PM
L93	10645	L92 and ((voice audio acoustic sound) near3 (input recogniz$5))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:41 PM
L94	1247	L93 and ((voice speech) near5 (command) near6 (recogniz$5 determin$5))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:42 PM
L95	15	L94 and ((low power) near5 (saving save) near5 (mode status	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2017/09/13 08:42 PM

		state stage))	IBM_TDB)				
L96	0	L94 and ((low idle idling inactive) near6 (power energy battery) near6 (saving save))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:43 PM
L97	110	L94 and ((low idle idling inactive) near6 (power energy battery))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:44 PM
L98	0	L97 and ((hint cue) same (motion date time activity location) same (event trigger$3))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:45 PM
L99	0	L97 and ((hint cue) same (event trigger$3))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:45 PM
L100	3	L97 and (hint cue)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:46 PM
L101	54	L97 and ((motion date time activity location) same (event trigger$3))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2017/09/13 08:46 PM
L102	2	"20030216909"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/08 11:45 AM
L103	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2018/03/08 12:03 PM
L104	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2018/04/11 06:36 PM
L105	2	"20030216909"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/04/11 07:35 PM
L106	3	"20150340042"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/04/11 07:38 PM
L107	31	"9112984"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/04/11 07:39 PM
L108	36513	((speech voice audio) near6 (order command trigger) near6 (recogniz$5 recognition realliz$5))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/04/11 09:03 PM
L109	27698	((speech voice audio) near4 (order command trigger) near4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2018/04/11 09:04 PM

		(recogniz$5 recognition realliz$5))	IBM_TDB)				
L110	71	((speech voice audio) near4 (order command trigger) near4 (recogniz$5 recognition realliz$5)) same ((idl$3 low$power$2) near4 (mode state))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/04/11 09:05 PM
L111	46	L110 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2018/04/11 09:06 PM
L112	15	L111 and ((time location environment event) near4 (factor value parameter cue hint context))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2018/04/11 09:07 PM
L113	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2018/04/12 09:47 AM
L114	120858	(H04W52/0251|H04M1/72519|G10L15/02|H04W52/0261|H04W40/005|G10L15/30|G10L15/22|H04W52/0254|H04M2250/74|G10L2015/226|G10L2015/223|H04W88/02).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2018/04/12 09:56 AM
L115	201998	(H04W52/0251|H04M1/72519|G10L15/02|H04W52/0261|H04W40/005|G10L15/30|G10L15/22|H04W52/0254|Y02D70/00|H04M2250/74|G10L2015/226|G10L2015/223|H04W88/02|Y02D70/164|Y02D70/142|Y02D70/144).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2018/04/12 09:56 AM
L116	204975	(379/88.01-88.02|H04W52/0251|H04M1/72519|G10L15/02|H04W52/0261|H04W40/005|G10L15/30|G10L15/22|H04W52/0254|Y02D70/00|H04M2250/74|G10L2015/226|G10L2015/223|H04W88/02|Y02D70/164|Y02D70/142|Y02D70/144).ccls,cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2018/04/12 09:56 AM
L117	6349	L116 and ((speech voice audio) near6 (order command trigger) near6 (recogniz$5 recognition realliz$5))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/04/12 10:01 AM

L118	5190	L117 and ((speech voice audio) near4 (order command trigger) near4 (recogniz$5 recognition realliz$5))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/04/12 10:02 AM
L119	3583	L118 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2018/04/12 10:02 AM
L120	683	L119 and ((time location environment event) near4 (factor value parameter cue hint context))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2018/04/12 10:02 AM
L121	38	L120 and ((idl$3 low$power$2) near4 (mode state))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/04/12 10:03 AM
L122	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2019/10/30 04:11 PM
L123	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2019/10/30 10:00 PM
L124	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2020/02/10 10:54 AM
L125	2	("20140274203").PN.	(US-PGPUB; USPAT; USOCR; DERWENT)	OR	ON	ON	2020/05/15 07:39 PM
L126	170	"6006175"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:04 PM
L127	73	"6859776"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:05 PM
L128	11	"9087520"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:06 PM
L129	24	"9558749"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:09 PM
L130	59	"9747899"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:10 PM
L131	15	"10332525"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:36 PM
L132	3	"20120281885"	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2020/05/15 11:37 PM

			JPO; DERWENT; IBM_TDB)				
L133	6	"20140039888"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:38 PM
L134	3	"20140163978"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:43 PM
L135	6	"20150006176"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:48 PM
L136	5	"20150053779"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:57 PM
L137	5	"20160073999"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:58 PM
L138	6	"20160078869"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/15 11:59 PM
L139	3	"20190073999"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/16 12:01 AM
L140	2	"20190287526"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/16 12:01 AM
L141	2	"20190311715"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/16 12:02 AM
L142	2	"20190355365"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/16 12:02 AM
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L144	36	"20090055178"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/16 12:06 AM
L145	4	"20120197637"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/16 12:06 AM

L146	3	"20120310646"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/16 12:07 AM
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L148	5	"20160039356"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/05/16 12:10 AM
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L154	174	L153 and (@ad<"20130312" @rlad<"20130312")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2021/12/10 09:56 PM
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L162	10838	(voice audio speech) SAME (command order$3 key$word)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2022/03/05 03:25 PM

		SAME (surround$3 around) SAME (environment surround$3) SAME (low$2 conserv$5) SAME (power battery)	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)				
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L164	86	163 AND ((hint cue implication impl$4 indicat$3) SAME (motion date time activity location) SAME (event trigger$3))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/03/05 03:29 PM
L165	4	164 AND ((idle low$power) near6 (mode state))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/03/05 03:30 PM
L166	221	163 AND (motion date time activity location)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/03/05 03:31 PM
L167	123	163 AND ((motion date time activity location) WITH (trigger$3 sign indicat$3 cue hint clue))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/03/05 03:31 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William F. GANONG

Serial No.: 13/795,933

Filed: March 12, 2013

For: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

Group Art Unit: 2644

Examiner: HO, HUY C.

Attorney Docket No.: CERN0103PUS

AMENDMENT UNDER 37 C.F.R. § 1.116

Mail Stop AF
Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

In response to the Final Office Action mailed December 29, 2021, please amend the above-identified application as follows:

Bibliographic Data

Application No: 13/795,933

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: _____ Examiner's Signature _____ Initials

Title: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
03/12/2013 **RULE**	455	2644	CERN0103PUS 120291USORG2

APPLICANTS

Nuance Communications, Inc., Burlington, MA,

INVENTORS

William F. Ganong III, Brookline, MA, UNITED STATES

Paul Adrian Van Mulbregt, Wayland, MA, UNITED STATES

Vladimir Sejnoha, Lexington, MA, UNITED STATES

Glen Wilson, Maynard, MA, UNITED STATES

CONTINUING DATA

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

04/02/2013

STATE OR COUNTRY

UNITED STATES

ADDRESS

Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075
UNITED STATES

FILING FEE RECEIVED

$1,740

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

CPC - Searched*		
Symbol	Date	Examiner
H04W52/0251; H04M1/72519; G10L15/02; H04W52/0261; H04W40/005; G10L15/30; G10L15/22; H04W52/0254; Y02D70/00; H04M2250/74; G10L2015/226; G10L2015/223; H04W88/02; Y02D70/164; Y02D70/142; Y02D70/144	9/25/2014	HH

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
455	563	9/25/2014	HH

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

/HUY C HO/ Primary Examiner.Art Unit 2644	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

Search Notes		
Search Notes	**Date**	**Examiner**
EAST Database Search	9/25/2014	HH
Inventor Search	9/25/2014	HH
Search update	4/12/2015	HH
Search update	7/24/2015	HH
Search update	12/27/2015	HH
Search update	6/12/2016	HH
Search update	11/18/2016	HH
Search update	9/13/2017	HH
Search update	4/11/2018	HH
Search update	10/30/2019	HH
Search update	05/18/2020	HH
Search update	07/17/2021	HH
Search update	12/23/2021	HH
Search update	03/05/2022	HH

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
455	79	9/25/2014	HH
379	88.01, 88.02	9/25/2014	HH

/HUY C HO/ Primary Examiner.Art Unit 2644	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	**Art Unit**
	HUY C HO	2644

CPC							
Symbol						**Type**	**Version**
G10L	/	15	/	22		F	2013-01-01
H04W	/	52	/	0251		I	2013-01-01
H04W	/	52	/	0254		I	2013-01-01
H04M	/	1	/	724		I	2021-01-01
G10L	/	15	/	02		I	2013-01-01
G10L	/	15	/	30		I	2013-01-01
H04W	/	40	/	005		I	2013-01-01
H04W	/	52	/	0261		I	2013-01-01
H04M	/	2250	/	74		A	2013-01-01
Y02D	/	30	/	70		A	2020-08-01
G10L	/	2015	/	223		A	2013-01-01
G10L	/	2015	/	226		A	2013-01-01
H04W	/	88	/	02		A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 18	
/HUY C HO/ Primary Examiner, Art Unit 2644 (Primary Examiner)	05 March 2022 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 8B

U.S. Patent and Trademark Office — Part of Paper No.: 20220305

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	**Art Unit**
	HUY C HO	2644

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04B	/	1	/	38

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
455	563

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
455	79					
379	88.01	88.02				

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/HUY C HO/ Primary Examiner, Art Unit 2644	05 March 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	8B

U.S. Patent and Trademark Office — Part of Paper No.: 20220305

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13/795,933	Ganong et al.
	Examiner	Art Unit
	HUY C HO	2644

☐ 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	1	9	10		19										
2	2	10	11	18	20										
	3	11	12												
3	4	12	13												
4	5	13	14												
5	6	14	15												
6	7	15	16												
7	8	16	17												
8	9	17	18												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/HUY C HO/ Primary Examiner, Art Unit 2644	05 March 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	8B

U.S. Patent and Trademark Office

Part of Paper No.: 20220305

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRPART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/795,933	03/12/2013	2644	1740	CERN0103PUS 120291USORG2	20	3

CONFIRMATION NO. 2321

CORRECTED FILING RECEIPT

179598
Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075

OC000000132515251

Date Mailed: 03/17/2022

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

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

Inventor(s)

William F. Ganong III, Brookline, MA;
Paul Adrian Van Mulbregt, Wayland, MA;
Vladimir Sejnoha, Lexington, MA;
Glen Edward Wilson, Maynard, MA;

Applicant(s)

Nuance Communications, Inc., Burlington, MA;

Assignment For Published Patent Application

Nuance Communications, Inc., Burlington, MA

Power of Attorney: The patent practitioners associated with Customer Number 179598

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

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

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

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

If Required, Foreign Filing License Granted: 04/02/2013
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/795,933**
Projected Publication Date: Not Applicable
Non-Publication Request: No
Early Publication Request: No
Title

METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

Preliminary Class

455

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

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

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

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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Petitioner Exhibit 1004, Page 1508 of 1518

FORM PTO-1449/A and B (modified PTO/SB/08)	APPLICATION NO.: 13/795,933	ATTY. DOCKET NO.: N0484.71090US01
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: March 12, 2013	CONFIRMATION NO.: 2321
	FIRST NAMED INVENTOR: William F. Ganong	
Sheet 1 of 1	GROUP ART UNIT: 2644	EXAMINER: Huy C. Ho

U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document Number	U.S. Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		9,646,610	B2	Macho	05-09-2017
		2015-0340042	A1	Sejnoha et al.	11-26-2015
		2016-0358605	A1	Ganong et al.	12-08-2016

FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document Office/ Country	Foreign Patent Document Number	Foreign Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)

OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR § 1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR § 1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR § 1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. § 120.]

EXAMINER: /HUY C HO/	DATE CONSIDERED: 03/19/2022

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

5463454.1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.C.H/

FORM PTO-1449/A and B (modified PTO/SB/08)	APPLICATION NO.: 13/795,933	ATTY. DOCKET NO.: N0484.71090US01
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: March 12, 2016	CONFIRMATION NO.: 2321
	FIRST NAMED INVENTOR: William F. Ganong	
Sheet 1 of 1	GROUP ART UNIT: 2644	EXAMINER: Huy C. Ho

U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document Number	U.S. Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		8,977,255		Freeman et al.	03-10-2015
		9,112,984	B2	Sejnoha et al.	08-18-2015
		9,361,885		Ganong, III et al.	06-07-2016

FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document Office/ Country	Foreign Patent Document Number	Foreign Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)

OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR § 1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR § 1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR § 1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. § 120.]

EXAMINER:	DATE CONSIDERED:
/HUY C HO/	03/19/2022

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

4835632.1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.C.H/

FORM PTO-1449/A and B (modified PTO/SB/08)	APPLICATION NO.: 13/795,933	ATTY. DOCKET NO.: N0484.71090US01
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: March 12, 2013	CONFIRMATION NO.: 2321
	FIRST NAMED INVENTOR: William F. Ganong	
Sheet 1 of 1	GROUP ART UNIT: 2644	EXAMINER: Huy C. Ho

U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document Number	U.S. Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		2003-0216909	A1	Davis et al.	11-20-2003

FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document Office/ Country	Foreign Patent Document Number	Foreign Patent Document Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		CN	105009204	A	Amazon Tech Inc.	10-28-2015	Y-abstract only
		EP	2932500	B1	Amazon Tech Inc.	02-15-2017	

OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		Chinese Office Action and Translation thereof for Chinese Application No. 201480013903.1 dated July 28, 2017 (N0484.71090CN00).	Y

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EXAMINER:	DATE CONSIDERED:
/HUY C HO/	03/19/2022

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

5675612.1

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Electronic Patent Application Fee Transmittal

Application Number:	13795933
Filing Date:	12-Mar-2013
Title of Invention:	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND
First Named Inventor/Applicant Name:	William F. Ganong
Filer:	Fanqi Meng/Amy Tanner
Attorney Docket Number:	CERN0103PUS 120291USORG2

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1200**

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

179598 7590 03/16/2022
Brooks Kushman / Cerence
1000 Town Center
22nd Floor
Southfield, MI 48075

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.

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

Amy Tanner	(Typed or printed name)
/Amy Tanner/	(Signature)
June 15, 2022	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/795,933	03/12/2013	William F. Ganong III	CERN0103PUS 120291USORG2	2321

TITLE OF INVENTION: METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND

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	06/16/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
HO, HUY C	2644	455-556100

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 Brooks Kushman P.C.
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)
CERENCE OPERATING COMPANY	Burlington, MA

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

4a. Fees submitted: ☑ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

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

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

☑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 02-3978

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 /Fanqi Meng/ Date June 15, 2022

Typed or printed name Fanqi Meng Registration No. L0647

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Petitioner Exhibit 1004, Page 1514 of 1518

Electronic Acknowledgement Receipt

EFS ID:	45962552
Application Number:	13795933
International Application Number:	
Confirmation Number:	2321
Title of Invention:	METHODS AND APPARATUS FOR DETECTING A VOICE COMMAND
First Named Inventor/Applicant Name:	William F. Ganong
Customer Number:	179598
Filer:	Fanqi Meng/Amy Tanner
Filer Authorized By:	Fanqi Meng
Attorney Docket Number:	CERN0103PUS 120291USORG2
Receipt Date:	15-JUN-2022
Filing Date:	12-MAR-2013
Time Stamp:	14:20:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1200
RAM confirmation Number	E20226EE21083971
Deposit Account	
Authorized User	
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	issue_fee_CERN0103PUS.PDF	201363 2644bfdbdb6493dff3f5e518e9b30507568a1a33	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37642 3930fe5c28f87f1f4cc2f2d4aea6d96102f31b4d	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	239005		

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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