UNITED STATES
PATENT AND TRADEMARK OFFICE

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Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
14/467,641	**12/14/2023 03:33:49 PM Z ET**	**N0484.71162US04**

Title of Invention

MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	9495957
CONFIRMATION #	8640	FILED BY	David Gerasimow
PATENT CENTER #	63619235	FILING DATE	08/25/2014
CUSTOMER #	174899	FIRST NAMED INVENTOR	CHRIS WEIDER
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
sb0047 - 9495957.pdf	2	Maintenance Fee Address Change	293 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
sb0047 - 9495957.pdf	F45E0235931AA65B74AC2BC9E0378E208B5F8ACDEA5BB75733F7110DC83D6F614E779B8FFEA93EE382D5B46EF16200F0DC8B2BA864E256DE865FAF5F86B5A0C2

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Doc Code: MFEE.C.AD
Document Description: Maintenance Fee Address Change

PTO/SB/47 (11-21)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. Department of Commerce
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"FEE ADDRESS" INDICATION FORM

Address to:
Mail Stop Maintenance Fee
Director of the United States
Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

-OR-

Fax to: 571-273-6500

INSTRUCTIONS: The issue fee must have been paid for application(s) listed on this form. In addition, only an address represented by a Customer Number can be established as the fee address for maintenance fee purposes (hereafter, fee address). A fee address should be established when correspondence related to maintenance fees should be mailed to a different address than the correspondence address for the application.
When to check the first box below: If you have a Customer Number to represent the fee address.
When to check the second box below: If you have no Customer Number representing the desired fee address, in which case a completed Request for Customer Number (PTO/SB/125) must be attached to this form. For more information on Customer Numbers, see section 403 of the Manual of Patent Examining Procedure (MPEP).

For the following listed application(s), please recognize as the "Fee Address" under the provisions of 37 CFR 1.363 the address associated with:

☑ Customer Number 174899

OR

☐ The attached Request for Customer Number (PTO/SB/125) form.

PATENT NUMBER (if known)	APPLICATION NUMBER
9495957	14/467,641

Completed by (check one):

☐ Applicant/Inventor — /David A. Gerasimow/ (Signature)

☑ Attorney or agent of record — 57,512 (Reg. No.) — David A. Gerasimow (Typed or printed name)

☐ Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) (Form PTO/SB/96) is enclosed or was filed on _____ (Date)

(312) 919-4254 (Requester's telephone number)

12/11/2023 (Date)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. If the assignee is a juristic entity, this form must be signed by a patent practitioner (attorney or agent) of record. Submit multiple forms if more than one signature is required (see below*).

☐ *Total of _____ PTO/SB/47 forms are submitted

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0016. Public burden for this form is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects this information under authority of 5 CFR 1.290. The information in this system of records is used to manage all records of applicant including name, citizenship, residence, post office address and other information with respect to inventors and their legal representatives pertaining to the applicant's activities in connection with the invention for which a patent is sought. This information is protected from disclosure to third parties in accordance with the Privacy Act.

However, routine uses of this information may include disclosure to the following: to law enforcement and investigation in the event that the system of records indicates a violation or potential violation of law; to a Federal, state, local, or international agency, in response to its request; to an agency, organization, or individual for the purpose of performing audit or oversight operations as authorized by law; to non-federal personnel under contract to the agency; to a court for adjudication and litigation; to the Department of Justice for Freedom of Information Act (FOIA) assistance; to members of congress working on behalf of an individual; to the Office of Personnel Management (OPM) for personnel research purposes; to National Archives and Records Administration for inspection of records; and to the Office of Management and Budget (OMB)for legislative coordination and clearance. Failure to provide any part of the requested information may result in an inability to process requests for access and information. The applicable Privacy Act System of Records Notice for this information is COMMERCE/PAT-TM-7 Patent Application Files, available at Federal Register / Vol. 78, No. 61 / Friday, March 29, 2013 /Notices 19243. https://www.govinfo.gov/content/pkg/FR-2013-03-29pdf/2013-07341.pdf

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
14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04

CONFIRMATION NO. 8640

174899
The Law Offices of David A. Gerasimow, P.C.
211 W. Wacker Dr.
Ste. 1717
Chicago, IL 60606

POA ACCEPTANCE LETTER

OC000000063806162

Date Mailed: 10/27/2023

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/03/2023.

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**.

/pflewis/

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 5 of 383

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04

CONFIRMATION NO. 8640

91337
Nuance Communications, Inc.
One Wayside Road
Burlington, MA 01803

POWER OF ATTORNEY NOTICE

OC000000063805989

Date Mailed: 10/27/2023

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/03/2023.

- 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**.

/pflewis/

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 6 of 383

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14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04

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211 W. Wacker Dr.
Ste. 1717
Chicago, IL 60606

POA ACCEPTANCE LETTER

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/pflewis/

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 7 of 383

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/pflewis/

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 8 of 383

PTO/AIA/81A (02-15)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT - POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Patent Number	9495957
Issue Date	11/15/16
First Named Inventor	Weider, Chris
Title	Mobile systems and methods of supporting natural language
Attorney Docket No.	9032-0028

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the Customer Number identified in the box at right as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: 174899

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified patent to:

☒ The address associated with the above-identified Customer Number.

OR

☐ The address associated with the Customer Number identified in the box at right:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the:

☐ Applicant.

OR

☒ Patent owner.

Statement under 37 CFR 3.73(c) (Form PTO/AIA/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Patent Owner

Signature	/Jeff Ronaldi/	Date	10/03/2023
Name	Jeff Ronaldi	Telephone	(571) 334-1112
Title and Company	Manager, Dialect, LLC		

NOTE: Signatures of all the applicants or patent owners of the entire interest or their representative(s) are required. If more than one signature is required, submit multiple forms, check the box below, and identify the total number of forms submitted in the blank below.

☐ A total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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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.

PTO/AIA/96 (08-12)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Dialect, LLC

Application No./Patent No.: 9495957 Filed/Issue Date: 11/15/16

Titled: Mobile systems and methods of supporting natural language human-machine interactions

Dialect, LLC, a limited liability company

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Weider, Chris et al. To: VoiceBox Technologies, Inc.

   The document was recorded in the United States Patent and Trademark Office at Reel 033602, Frame 0162, or for which a copy thereof is attached.

2. From: VoiceBox Technologies, Inc. To: VoiceBox Technologies Corporation

   The document was recorded in the United States Patent and Trademark Office at Reel 033602, Frame 0329, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 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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PTO/AIA/96 (08-12)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

3. From: VoiceBox Technologies Corporation To: Nuance Communications, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 038896, Frame 0430, or for which a copy thereof is attached.

4. From: Nuance Communications, Inc. To: Voice Inventions, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 056185, Frame 0742, or for which a copy thereof is attached.

5. From: Voice Inventions, LLC To: Dialect, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 060820, Frame 0857, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☑ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Jeff Ronaldi/	10/03/2023
Signature	Date
Jeff Ronaldi	Manager, Dialect, LLC
Printed or Typed Name	Title or Registration 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.

Electronic Acknowledgement Receipt	
EFS ID:	48675288
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	174889
Filer:	David Alexander Gerasimow
Filer Authorized By:	
Attorney Docket Number:	N0484.71162US04
Receipt Date:	03-OCT-2023
Filing Date:	25-AUG-2014
Time Stamp:	16:22:58
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	Power of Attorney	9495957.pdf	212033 db4be523a11ea70d4437b531d8f05895be480cc8	no	2
Warnings:					

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	9495957-aia0096.pdf	207870 f89e77a4b9cd254da77236baa376dcd3e88c01c1	no	3
Warnings:					
Information:					
			Total Files Size (in bytes):	419903	

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.

PTO/AIA/81A (02-15)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT - POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Patent Number	9495957
Issue Date	11/15/16
First Named Inventor	Weider, Chris
Title	Mobile systems and methods of supporting natural language
Attorney Docket No.	9032-0028

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the Customer Number identified in the box at right as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: 174889

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified patent to:

☒ The address associated with the above-identified Customer Number.

OR

☐ The address associated with the Customer Number identified in the box at right:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the:

☐ Applicant.

OR

☒ Patent owner.

Statement under 37 CFR 3.73(c) (Form PTO/AIA/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Patent Owner

Signature	/Jeff Ronaldi/	Date	02/27/2023
Name	Jeff Ronaldi	Telephone	(571) 334-1112
Title and Company	Manager, Dialect, LLC		

NOTE: Signatures of all the applicants or patent owners of the entire interest or their representative(s) are required. If more than one signature is required, submit multiple forms, check the box below, and identify the total number of forms submitted in the blank below.

☐ A total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Dialect, LLC

Application No./Patent No.: 9495957 Filed/Issue Date: 11/15/16

Titled: Mobile systems and methods of supporting natural language human-machine interactions

Dialect, LLC, a limited liability company

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Weider, Chris et al. To: VoiceBox Technologies, Inc.

   The document was recorded in the United States Patent and Trademark Office at
   Reel 033602, Frame 0162, or for which a copy thereof is attached.

2. From: VoiceBox Technologies, Inc. To: VoiceBox Technologies Corporation

   The document was recorded in the United States Patent and Trademark Office at
   Reel 033602, Frame 0329, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 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/AIA/96 (08-12)
Approved for use through 01/31/2013. 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.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: VoiceBox Technologies Corporation To: Nuance Communications, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 038896, Frame 0430, or for which a copy thereof is attached.

4. From: Nuance Communications, Inc. To: Voice Inventions, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 056185, Frame 0742, or for which a copy thereof is attached.

5. From: Voice Inventions, LLC To: Dialect, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 060820, Frame 0857, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☑ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Jeff Ronaldi/	02/27/2023
Signature	Date
Jeff Ronaldi	Manager, Dialect, LLC
Printed or Typed Name	Title or Registration 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.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	47602666
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	91337
Filer:	David Alexander Gerasimow
Filer Authorized By:	
Attorney Docket Number:	N0484.71162US04
Receipt Date:	28-FEB-2023
Filing Date:	25-AUG-2014
Time Stamp:	11:58:10
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	Power of Attorney	9495957.pdf	206840 9474a86d20711a8ea1a510d3d5f85928b489fc24	no	2

Warnings:

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	9495957-aia0096.pdf	203232 8eea791686c9aa39fc51c4ff4112e21852 5f0848	no	3
Warnings:					
Information:					
			Total Files Size (in bytes):	410072	

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

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6700444

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NUANCE COMMUNICATIONS, INC.	01/01/2021

RECEIVING PARTY DATA

Name:	VOICE INVENTIONS, LLC
Street Address:	2 EXECUTIVE DRIVE
Internal Address:	STE. 270
City:	FORT LEE
State/Country:	NEW JERSEY
Postal Code:	07024

PROPERTY NUMBERS Total: 29

Property Type	Number
Patent Number:	7398209
Patent Number:	7502738
Patent Number:	7809570
Patent Number:	8015006
Patent Number:	8112275
Patent Number:	8140327
Patent Number:	8155962
Patent Number:	8731929
Patent Number:	9734825
Patent Number:	7693720
Patent Number:	9031845
Patent Number:	7640160
Patent Number:	7917367
Patent Number:	8326634
Patent Number:	8849670
Patent Number:	9263039
Patent Number:	7620549
Patent Number:	8332224
Patent Number:	8620659

Property Type	Number
Patent Number:	9626959
Patent Number:	7949529
Patent Number:	8195468
Patent Number:	8447607
Patent Number:	8849652
Patent Number:	9495957
Patent Number:	7634409
Patent Number:	7983917
Patent Number:	8069046
Patent Number:	8150694

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email:	eddie.weiss@voiceinventions.com
Correspondent Name:	EDWARD WEISS
Address Line 1:	2 EXECUTIVE DRIVE
Address Line 2:	STE. 270
Address Line 4:	FORT LEE, NEW JERSEY 07024

NAME OF SUBMITTER:	EDWARD WEISS
SIGNATURE:	/Edward Weiss/
DATE SIGNED:	05/10/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

source=2020-12-24 - Assignment Nuance to Voice Inventions#page1.tif
source=2020-12-24 - Assignment Nuance to Voice Inventions#page2.tif
source=2020-12-24 - Assignment Nuance to Voice Inventions#page3.tif
source=2020-12-24 - Assignment Nuance to Voice Inventions#page4.tif

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT (the "Assignment Agreement") between Nuance Communications, Inc., a Delaware corporation, with an address at One Wayside Road, Burlington, MA 01803 ("Assignor"), and Voice Inventions, LLC, a Texas Limited Liability Company, with an address at 2 Executive Drive, Suite 270, Fort Lee, NJ 07024 ("Assignee").

RECITALS

WHEREAS the parties have entered into a certain Patent Purchase and Licensing Agreement (the "Purchase Agreement"), with an effective date of January 1, 2021;

WHEREAS Assignor possesses all legal rights, title, and interests in and to the patents listed in Exhibit A (the "Assigned Patent Portfolio") to this Assignment Agreement;

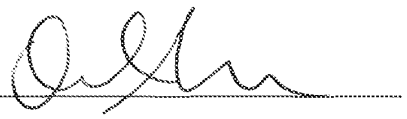
WHEREAS the parties desire to effectuate the assignment and transfer of the Assigned Patent Portfolio to Assignee such that Assignee shall acquire, and thus hereby acquires, all of Assignor's worldwide rights, title, and interests in and to the Assigned Patent Portfolio; and

WHEREAS the parties further desire that the assignment of the Assigned Patent Portfolio be undertaken in a such a manner as to allow Assignee to make such assignment a matter of record in the appropriate domestic and international patent offices;

NOW THEREFORE, for good and valuable consideration, the receipt of which by Assignor is hereby acknowledged, Assignor hereby sells, assigns, and transfers to Assignee, and Assignee hereby purchases and accepts from Assignor, all of Assignor's worldwide rights, title and interest, in and to the Assigned Patent Portfolio, including any and all of Assignor's rights to sue for past damages, subject to the terms and conditions of the Purchase Agreement.

IN WITNESS WHEREOF, intending to be legally bound, Assignor has caused this Assignment Agreement to by executed by its duly authorized representative and made effective, as of January 1, 2021.

Nuance Communications, Inc.
Assignor

By 

Name: David Greenbaum
Title: VP, Litigation & IP

Exhibit A

Assigned Patent Portfolio

	COUNTRY	TITLE	APPLICATION NUMBER	DATE FILED	PATENT NUMBER
1	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	10/452,147	Jun 3, 2003	7,398,209
2	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	11/747,547	May 11, 2007	7,502,738
3	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	12/168,554	Jul 7, 2008	7,809,570
4	US	SYSTEMS AND METHODS FOR PROCESSING NATURAL LANGUAGE SPEECH UTTERANCES WITH CONTEXT-SPECIFIC DOMAIN AGENTS	12/130,397	May 30, 2008	8,015,006
5	US	SYSTEM AND METHOD FOR USER-SPECIFIC SPEECH RECOGNITION	12/765,733	Apr 22, 2010	8,112,275
6	US	SYSTEM AND METHOD FOR FILTERING AND ELIMINATING NOISE FROM NATURAL LANGUAGE UTTERANCES TO IMPROVE SPEECH RECOGNITION AND PARSING	12/765,753	Apr 22, 2010	8,140,327
7	US	METHOD AND SYSTEM FOR ASYNCHRONOUSLY PROCESSING NATURAL LANGUAGE UTTERANCES	12/838,982	Jul 19, 2010	8,155,962
8	US	AGENT ARCHITECTURE FOR DETERMINING MEANINGS OF NATURAL LANGUAGE UTTERANCES	12/365,516	Feb 4, 2009	8,731,929
9	US	SYSTEM AND METHOD FOR PROCESSING NATURAL LANGUAGE UTTERANCES	14/278,627	May 15, 2014	9,734,825
10	US	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCES	10/618,633	Jul 15, 2003	7,693,720
11	US	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	12/705,311	Feb 12, 2010	9,031,845

Microsoft - Exhibit 1002
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Page 26 of 383

12	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	11/197,504	Aug 5, 2005	7,640,160
13	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	12/617,506	Nov 12, 2009	7,917,367
14	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	13/019,834	Feb 2, 2011	8,326,634
15	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	13/690,895	Nov 30, 2012	8,849,670
16	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	14/500,723	Sep 29, 2014	9,263,039

17	US	SYSTEM AND METHOD OF SUPPORTING ADAPTIVE MISRECOGNITION IN CONVERSATIONAL SPEECH	11/200,164	Aug 10, 2005	7,620,549
18	US	SYSTEM AND METHOD OF SUPPORTING ADAPTIVE MISRECOGNITION IN CONVERSATIONAL SPEECH	12/571,795	Oct 1, 2009	8,332,224
19	US	SYSTEM AND METHOD OF SUPPORTING ADAPTIVE MISRECOGNITION IN CONVERSATIONAL SPEECH	13/022,370	Feb 7, 2011	8,620,659
20	US	SYSTEM AND METHOD OF SUPPORTING ADAPTIVE MISRECOGNITION IN CONVERSATIONAL SPEECH	14/143,903	Dec 30, 2013	9,626,959

21	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	11/212,693	Aug 29, 2005	7,949,529
22	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	13/084,197	Apr 11, 2011	8,195,468
23	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	13/488,299	Jun 4, 2012	8,447,607
24	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	13/898,045	May 20, 2013	8,849,652

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 27 of 383

25	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	14/467,641	Aug 25, 2014	9,495,957

26	US	DYNAMIC SPEECH SHARPENING	11/513,269	Aug 31, 2006	7,634,409
27	US	DYNAMIC SPEECH SHARPENING	12/608,544	Oct 29, 2009	7,983,917
28	US	DYNAMIC SPEECH SHARPENING	12/608,572	Oct 29, 2009	8,069,046
29	US	SYSTEM AND METHOD FOR PROVIDING AN ACOUSTIC GRAMMAR TO DYNAMICALLY SHARPEN SPEECH INTERPRETATION	13/150,977	Jun 1, 2011	8,150,694

30	CN	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	2006800362006	Aug 4, 2006	ZL200680036200.6
31	CN	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	2015102059396	Aug 4, 2006	ZL201510205939.6
32	CN	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	200680038560	Aug 29, 2006	200680038560

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 28 of 383

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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/467,641	11/15/2016	9495957	N0484.71162US04	8640

91337 7590 10/26/2016

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

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

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

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

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

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

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

CHRIS WEIDER, EVERETT, WA;
Nuance Communications, Inc., Burlington, MA;
RICHARD KENNEWICK, WOODINVILLE, WA;
MIKE KENNEWICK, BELLEVUE, WA;
PHILIPPE DI CRISTO, BELLEVUE, WA;
ROBERT A. KENNEWICK, SEATTLE, WA;
SAMUEL MENAKER, BELLEVUE, WA;
LYNN ELISE ARMSTRONG, WOODINVILLE, WA;

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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)

91337
WOLF, GREENFIELD & SACKS, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2206

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/467,641	08/25/2014	Chris Weider	N0484.71162US04	8640

TITLE OF INVENTION: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960.00			$960.00	10/13/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
E. L. Yen	2658	

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- [ ] Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- [ ] "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 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 Wolf, Greenfield & Sacks, 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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Nuance Communications, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Burlington, Massachusetts

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

4a. The following fee(s) are submitted:
- [X] Issue Fee
- [ ] Publication Fee (No small entity discount permitted)
- [ ] Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- [ ] A check is enclosed.
- [X] Payment by credit card. ~~Form PTO-2038 is attached.~~
- [X] The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 23/2825 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- [ ] Applicant certifying micro entity status. See 37 CFR 1.29 — 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.
- [ ] Applicant asserting small entity status. See 37 CFR 1.27 — 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.
- [X] Applicant changing to regular undiscounted fee 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 10/16/16

Typed or printed name Daniel T. Wehner, Ph.D. Registration No. 63,480

Application No. (if known): 14/467,641 Attorney Docket No.: N0484.71162US04

Certificate of Electronic Filing Under 37 C.F.R. § 1.8

I hereby certify that this correspondence is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4):

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on 10/6/16
Date

Nicole Dicks
Signature

NICOLE DICKS
Typed or printed name of person signing Certificate

Registration Number, if applicable

617-646-8000
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Issue Fee Transmittal (1 page)

4867908.1

Electronic Patent Application Fee Transmittal

Application Number:	14467641
Filing Date:	25-Aug-2014
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Filer:	Daniel T. Wehner/Nicole Dicks
Attorney Docket Number:	N0484.71162US04

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	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**960**

Electronic Acknowledgement Receipt	
EFS ID:	27136917
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	91337
Filer:	Daniel T. Wehner/Nicole Dicks
Filer Authorized By:	Daniel T. Wehner
Attorney Docket Number:	N0484.71162US04
Receipt Date:	06-OCT-2016
Filing Date:	25-AUG-2014
Time Stamp:	11:52:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$960
RAM confirmation Number	100616INTEFSW11582000
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	Miscellaneous Incoming Letter	N048471162US04-TRN-DTW.pdf	62233 4579d350b12eacd6753f18aefaefca18039c7f29	no	1
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	N048471162US04-ISSFEE-DTW.pdf	126172 477f557629d1fb2e79b6f625bf05fa358e5a8cb9	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30632 ecc0a0270804ef517d0715bbe6030ce0f706b9fb	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	219037		

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)			
		Application Number	14/467,641-Conf. #8640
		Filing Date	August 25, 2014
		First Named Inventor	Chris Weider
		Art Unit	2658
		Examiner Name	E. L. Yen
Total Number of Pages in This Submission		Attorney Docket Number	N0484.71162US04

ENCLOSURES (*Check all that apply*)

☐ Fee Transmittal Form	☐ Drawing(s)	☐ After Allowance Communication to TC
☐ Fee Attached	☐ Licensing-related Papers	☐ Appeal Communication to Board of Appeals and Interferences
☐ Amendment/Reply	☐ Petition	☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
☐ After Final	☐ Petition to Convert to a Provisional Application	☐ Proprietary Information
☐ Affidavits/declaration(s)	☐ Power of Attorney, Revocation Change of Correspondence Address	☐ Status Letter
☐ Extension of Time Request	☐ Terminal Disclaimer	☒ Other Enclosure(s) (please Identify below):
☐ Express Abandonment Request	☐ Request for Refund	Part B - Fee Transmittal
☐ Information Disclosure Statement	☐ CD, Number of CD(s) ____	
☐ Certified Copy of Priority Document(s)	☐ Landscape Table on CD	
☐ Reply to Missing Parts/ Incomplete Application	Remarks	
☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature			
Printed name	Daniel T. Wehner, Ph.D.		
Date	10/6/16	Reg. No.	63,480

Certificate of Electronic Filing Under 37 CFR 1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: 10/6/16 Signature: Nicole Dicks (NICOLE DICKS)

4867907.1

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

91337 7590 07/13/2016

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

EXAMINER	
YEN, ERIC L	
ART UNIT	PAPER NUMBER
2658	

DATE MAILED: 07/13/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04	8640

TITLE OF INVENTION: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	10/13/2016

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 02/11)

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 37 of 383

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
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or Fax (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)

91337 7590 07/13/2016
Nuance Communications, Inc.
c/o Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210-2206

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04	8640

TITLE OF INVENTION: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	10/13/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
YEN, ERIC L	2658	704-257000

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

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

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 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, 1 _____

(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. 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 has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

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

❑ A check is enclosed.

❑ Payment by credit card. Form PTO-2038 is attached.

❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

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.

❑ Applicant asserting small entity status. See 37 CFR 1.27

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.

❑ Applicant changing to regular undiscounted fee 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 (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 38 of 383

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.
14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04	8640

91337 7590 07/13/2016

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

EXAMINER	
YEN, ERIC L	

ART UNIT	PAPER NUMBER
2658	

DATE MAILED: 07/13/2016

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.

PTOL-85 (Rev. 02/11)

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 39 of 383

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 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, 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. 14/467,641	Applicant(s) WEIDER ET AL.	
	Examiner ERIC YEN	Art Unit 2658	AIA (First Inventor to File) 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 *Amendment filed 6/13/16*.
   ☐ 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, 5-7, 14-16*. 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 _____.

/ERIC YEN/
Primary Examiner, Art Unit 2658

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	Art Unit
	ERIC YEN	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L 15/18, 15/1815, 15/1822, 15/183, 15/197, 15/20, 15/2, 2015/223, 2015/228, 15/24	11/5/15	EY
G10L 15/18, 15/1815, 15/1822, 15/183, 15/197, 15/20, 15/2, 2015/223, 2015/228, 15/24	6/20/16	EY

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Search (attached)	11/5/15	EY

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G10L	15/18, 15/1815, 15/1822, 15/183, 15/197, 15/20, 15/2, 2015/223, 2015/228, 15/24	6/20/16	EY

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	**Art Unit**
	ERIC YEN	2658

CPC						
Symbol					**Type**	**Version**
G10L		15	/	1815	F	2013-01-01
G06F		17	/	30864	I	2013-01-01
G10L		15	/	22	I	2013-01-01
H04M		2250	/	74	A	2013-01-01
G10L		21	/	06	I	2013-01-01
G10L		2015	/	223	A	2013-01-01
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CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	8	
/ERIC YEN/ Primary Examiner.Art Unit 2658	6/20/16	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7

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Page 43 of 383

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	**Art Unit**
	ERIC YEN	2658

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
		G 1 0 L 15 / 18 (2013.01.01)	
CROSS REFERENCE(S)		G 1 0 L 15 / 22 (2006.01.01)	
		G 1 0 L 21 / 06 (2013.01.01)	
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)	G 0 7 F 17 / 30 (2006.01.01)	

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 8
/ERIC YEN/ Primary Examiner.Art Unit 2658 (Primary Examiner)	6/20/16 (Date)	O.G. Print Claim(s) 1
		O.G. Print Figure 7

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Microsoft v. Dialect - IPR2025-00659
Page 44 of 383

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	**Art Unit**
	ERIC YEN	2658

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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1														
2	2														
3	5														
4	6														
5	7														
6	14														
7	15														
8	16														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	8	
/ERIC YEN/ Primary Examiner.Art Unit 2658	6/20/16	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7

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OK TO ENTER: /E.Y/

06/20/2016

Docket No.: N0484.71162US04
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Chris Weider
Application No.:	14/467,641
Confirmation No.:	8640
Filed:	August 25, 2014
For:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
Examiner:	E. L. Yen
Art Unit:	2658

Certificate of Electronic Filing Under 37 CFR 1.8
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).
Dated: 6/13/16 Signature: Eileen Mackenzie)

AMENDMENT AFTER FINAL ACTION UNDER 37 C.F.R. § 1.116

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

Dear Sir:

INTRODUCTORY COMMENTS

In response to the Final Office Action dated March 14, 2016, please amend the above-identified U.S. patent application as follows:

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

Remarks/Arguments begin on page 5 of this paper.

Microsoft - Exhibit 1002
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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
14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04

CONFIRMATION NO. 8640

POA ACCEPTANCE LETTER

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

OC000000084078508

Date Mailed: 07/01/2016

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/22/2016.

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**.

/nhassani/

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Microsoft v. Dialect - IPR2025-00659
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PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

[X] Practitioners associated with the Customer Number: 91337

OR

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

Name	Registration Number	Name	Registration Number

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

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

[X] The address associated with Customer Number: 91337

OR

[ ] Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address:

Nuance Communications, Inc.
One Wayside Road
Burlington, Massachusetts 01803

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

SIGNATURE of Assignee of Record

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

Signature	[signature]	Date	11/8/2012
Name	Leanne J. Fitzgerald, Esq.	Telephone	781 565-4792
Title	Associate General Counsel		

2887608.1

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. 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.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Nuance Communications, Inc.

Application No./Patent No.: 14/467,641 Filed/Issue Date: August 25, 2014

Titled: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Nuance Communications, Inc. (Name of Assignee) , a Corporation (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. [X] The assignee of the entire right, title, and interest.

2. [ ] An assignee of less than the entire right, title, and interest (check applicable box):

   [ ] (The extent (by percentage) of its ownership interest is _____ %). Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   [ ] There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. [ ] The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. [ ] The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2, or 3 above (not option 4) is evidence by either (choose **one** of options A or B below):

A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

   1. From: Chris Weider To: VoiceBox Technologies, Inc.
      The document was recorded in the United States Patent and Trademark Office at
      Reel 033602, Frame 0162, or for which a copy thereof is attached.

   2. From: Richard Kennewick To: VoiceBox Technologies, Inc.
      The document was recorded in the United States Patent and Trademark Office at
      Reel 033602, Frame 0162, or for which a copy thereof is attached.

Microsoft - Exhibit 1002
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PTO/AIA/96 (08-12)
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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.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: Michael R. Sr. Kennewick To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 033602 , Frame 0162 , or for which a copy thereof is attached.

4. From: Philippe Di Cristo To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 033602 , Frame 0162 , or for which a copy thereof is attached.

5. From: Robert A. Kennewick To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 033602 , Frame 0162 , or for which a copy thereof is attached.

6. From: Samual Menaker To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 033602 , Frame 0162 , or for which a copy thereof is attached.

[X] Additional documents in the chain of title are listed on a supplemental sheet(s).

[X] As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature — Date: June 22, 2016

Richard F. Giunta
Printed or Typed Name — Title or Registration Number

Certificate of Electronic Filing Under 37 CFR 1.8
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: June 22, 2016 Signature: (Jeanne W. Chub)

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PTO/AIA/96 (08-12)
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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.

STATEMENT UNDER 37 CFR 3.73(c) - Supplemental Sheet

Continuation of chain of title from the inventor(s) to the current assignee.

7. From: Lynn Elise Armstrong To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 033602 , Frame 0162 , or for which a copy thereof is attached.

8. From: VoiceBox Technologies, Inc. To: VoiceBox Technologies Corporation
The document was recorded in the United States Patent and Trademark Office at
Reel 033602 , Frame 0329 , or for which a copy thereof is attached.

9. From: VoiceBox Technologies Corporation To: Nuance Communications, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 038896 , Frame 0430 , or for which a copy thereof is attached.

10. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

11. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

12. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

13. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
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14. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

15. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

Electronic Acknowledgement Receipt	
EFS ID:	26140777
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	91337
Filer:	Richard F. Giunta/Jeanne Chub
Filer Authorized By:	Richard F. Giunta
Attorney Docket Number:	N0484.71162US04
Receipt Date:	22-JUN-2016
Filing Date:	25-AUG-2014
Time Stamp:	14:22:04
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	Miscellaneous Incoming Letter	N0484-71162US04-TRN-RFG.pdf	58876 49b444a8ace502a37cc81fd58666713da8e794a7	no	1
Warnings:					
Information:					

2	Power of Attorney	N0484-71162US04-POA-RFG.pdf	63011 13097ee877704bafa74c12aa0dc13c546f1cee5c	no	1
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73	N0484-71162US04-373c-RFG.pdf	166158 58b5bc859425ee9424cd1d7d2b52b4634344a701	no	3
Warnings:					
Information:					
		Total Files Size (in bytes):	288045		

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	14/467,641-Conf. #8640
		Filing Date	August 25, 2014
		First Named Inventor	Chris Weider
		Art Unit	2658
		Examiner Name	E. L. Yen
Total Number of Pages in This Submission	5	Attorney Docket Number	N0484.71162US04

ENCLOSURES (*Check all that apply*)

☐ Fee Transmittal Form	☐ Drawing(s)	☐ After Allowance Communication to TC
☐ Fee Attached	☐ Licensing-related Papers	☐ Appeal Communication to Board of Appeals and Interferences
☐ Amendment/Reply	☐ Petition	☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
☐ After Final	☐ Petition to Convert to a Provisional Application	☐ Proprietary Information
☐ Affidavits/declaration(s)	☒ Power of Attorney, Revocation Change of Correspondence Address	☐ Status Letter
☐ Extension of Time Request	☐ Terminal Disclaimer	☒ Other Enclosure(s) (please Identify below):
☐ Express Abandonment Request	☐ Request for Refund	Statement Under 37 CFR 3.73(c)
☐ Information Disclosure Statement	☐ CD, Number of CD(s) ____	
☐ Certified Copy of Priority Document(s)	☐ Landscape Table on CD	
☐ Reply to Missing Parts/ Incomplete Application	Remarks	
☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature			
Printed name	Richard F. Giunta		
Date	June 22, 2016	Reg. No.	36,149

Certificate of Electronic Filing Under 37 CFR 1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: June 22, 2016 Signature: _____ (Jeanne W. Chub)

4822780.1

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	14/467,641	WEIDER ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 6/13/16	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
ANDRE ROBINSON

U.S. Patent and Trademark Office

PTO/AIA/26 (04-14)
Approved for use through 07/31/2016. 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.

TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) N0484.71162US04

In re Application of: Chris Weider et al.

Application No.: 14/467,641-Conf. #8640

Filed: August 25, 2014

For: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

The applicant, Nuance Communications, Inc., owner of 100 percent interest 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** No. 8,849,652 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant 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 applicant 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.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

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

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 63,480



Signature — June 13, 2016 (Date)

Daniel T. Wehner, Ph.D.
Typed or printed name

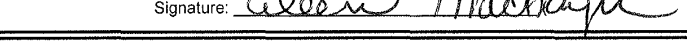
Attorney for Applicant(s) (Title) — 617.646.8000 (Telephone Number)

☒ Terminal disclaimer fee under 37 CFR 1.20(d) included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Certificate of Electronic Filing Under 37 CFR 1.8

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Dated: June 13, 2016 Signature: 

4804482.1

Docket No.: N0484.71162US04
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Chris Weider
Application No.:	14/467,641
Confirmation No.:	8640
Filed:	August 25, 2014
For:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
Examiner:	E. L. Yen
Art Unit:	2658

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Dated: 6/13/16 Signature: Eileen Mackenzie)

AMENDMENT AFTER FINAL ACTION UNDER 37 C.F.R. § 1.116

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

Dear Sir:

INTRODUCTORY COMMENTS

In response to the Final Office Action dated March 14, 2016, please amend the above-identified U.S. patent application as follows:

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

Remarks/Arguments begin on page 5 of this paper.

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AMENDMENTS TO THE CLAIMS

1. (Currently amended) A system for processing a natural language utterance, the system including one or more processors executing one or more computer program modules which, when executed, cause the one or more processors to:

generate a context stack comprising context information that corresponds to a plurality of prior utterances, wherein the context stack includes a plurality of context entries;

receive the natural language utterance, wherein the natural language utterance is associated with a command or is associated with a request;

determine one or more words of the natural language utterance by performing speech recognition on the natural language utterance; ~~and~~

identify, from among the plurality of context entries, one or more context entries that correspond to the one or more words, wherein the context information includes the one or more context entries, wherein identifying the one or more context entries comprises:

comparing the plurality of context entries to the one or more words;

generating, based on the comparison, one or more rank scores for individual context entries of the plurality of context entries; and

identifying, based on the one or more rank scores, the one or more context entries from among the plurality of context entries; and

determine, based on the determined one or more words and the context information, the command or the request associated with the natural language utterance.

2. (Previously presented) The system of claim 1, wherein the one or more processors are further caused to:

provide a prompt regarding the command or request, wherein the prompt is a prompt for additional information or a prompt for confirmation; and

receive, in response to providing the prompt, a non-speech input, wherein the command or request is determined further based on the non-speech input.

3. (Canceled).

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4. (Canceled).

5. (Currently amended) The system of claim [[4]] 1, wherein the plurality of context entries are ordered in the context stack, and wherein the one or more processors are further caused to update, based on the one or more rank scores, the ordering of the plurality of context entries in the context stack.

6. (Previously presented) The system of claim 5, wherein the natural language utterance is associated with a user, and wherein the one or more processors are further caused to:

receive a subsequent natural language utterance associated with the user;

determine one or more words of the subsequent natural language utterance by performing speech recognition on the subsequent natural language utterance;

identify, based on the updated ordering of the plurality of context entries in the context stack, one or more other context entries that correspond to the determined one or more words of the subsequent natural language utterance; and

determine, based on the determined one or more words of the subsequent natural language utterance and the identified one or more other context entries, a subsequent command or a subsequent request.

7. (Currently amended) The system of claim [[3]] 1, wherein identifying the one or more context entries comprises identifying, from among the plurality of context entries, the one or more context entries that most closely correspond to the one or more words.

8-13. (Canceled).

14. (Original) The system of claim 1, wherein the context stack is a first context stack of a first device, and wherein the one or more processors are further caused to:

synchronize the context stack with a second context stack of a second device.

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15. (Currently amended) A computer-implemented method of processing a natural language utterance, the method comprising:

generating a context stack comprising context information that corresponds to a plurality of prior utterances, wherein the context stack includes a plurality of context entries;

receiving, by one or more computer processors, the natural language utterance, wherein the natural language utterance is associated with a command or is associated with a request;

determining one or more words of the natural language utterance by performing speech recognition on the natural language utterance; ~~and~~

identifying, from among the plurality of context entries, one or more context entries that correspond to the one or more words, wherein the context information includes the one or more context entries, wherein identifying the one or more context entries comprises:

comparing the plurality of context entries to the one or more words;

generating, based on the comparison, one or more rank scores for individual context entries of the plurality of context entries; and

identifying, based on the one or more rank scores, the one or more context entries from among the plurality of context entries; and

determining based on the determined one or more words and the context information, the command or the request associated with the natural language utterance.

16. (Previously presented) The method of claim 15, further comprising:

providing a prompt regarding the command or request, wherein the prompt is a prompt for additional information or a prompt for confirmation; and

receiving, in response to providing the prompt, a non-speech input, wherein the command or request is determined further based on the non-speech input.

17-20. (Canceled).

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REMARKS

In response to the Final Office Action dated March 14, 2016, the Assignee respectfully requests reconsideration. To further the prosecution of this application, each of the rejections set forth in the Office Action has been carefully considered and is addressed below. The application as presented is believed to be in condition for allowance. No new matter has been added.

I. Allowable Subject Matter

The Assignee thanks the Examiner for the indication that claims 4-6, 14 and 18 include allowable subject matter. Independent claim 1 has been amended to include the subject matter of dependent claims 3 and 4, and independent claim 15 has been amended to include the subject matter of dependent claims 17 and 18. Accordingly, each of claims 1 and 15 is in condition for allowance.

II. Double Patenting Rejections

The Office Action rejects claims 1-20 on the ground of non-statutory double patenting over claims 1-14 of U.S. Patent No. 8,849,652. A terminal disclaimer is filed herewith to obviate the rejections.

III. Claim Rejections under 35 U.S.C. §103

The Office Action rejects claims 1, 3, 7, 15, and 17 (including independent claims 1 and 15) under 35 U.S.C. § 103(a) as purportedly being obvious over U.S. Patent Application Publication No. 2002/0133354 ("Ross"). Without acceding to the propriety of the rejections, each of claims 1 and 15 has been amended herein to include subject matter indicated as allowable in dependent claims 4 and 18 to place the application in condition for allowance. Accordingly, it is respectfully requested that the rejections under 35 U.S.C. § 103 be withdrawn.

IV. Additional Comments on Dependent Claims

Since each of the dependent claims depends from a base claim that is believed to be in condition for allowance, the Assignee believes it is unnecessary at this time to argue the allowability of each of the dependent claims individually. The Assignee does not, however, necessarily concur

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with the interpretation of the dependent claims as set forth in the Office Action, nor does the Assignee concur that the basis for the rejection of any of the dependent claims is proper. Therefore, the Assignee reserves the right to specifically address the patentability of the dependent claims in the future, if deemed necessary.

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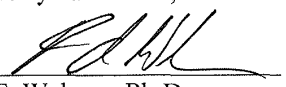
CONCLUSION

A Notice of Allowance is respectfully requested. The Examiner is requested to call the undersigned at the telephone number listed below if this communication does not place the case in condition for allowance.

If this response is not considered timely filed and if a request for an extension of time is otherwise absent, Assignee hereby requests any necessary extension of time. If there is a fee occasioned by this response, including an extension fee, the Director is hereby authorized to charge any deficiency or credit any overpayment in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 23/2825, under Docket No. N0484.71162US04, from which the undersigned is authorized to draw.

Dated: June 13, 2016

Respectfully submitted,

By 

Daniel T. Wehner, Ph.D.
Registration No.: 63,480
WOLF, GREENFIELD & SACKS, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2206
617.646.8000

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Page 63 of 383

Electronic Patent Application Fee Transmittal

Application Number:	14467641
Filing Date:	25-Aug-2014
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Filer:	Daniel T. Wehner/Eileen MacKenzie
Attorney Docket Number:	N0484.71162US04

Filed as Small 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:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Statutory or Terminal Disclaimer	2814	1	160	160
		Total in USD ($)		**160**

Electronic Acknowledgement Receipt	
EFS ID:	26052733
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	91337
Filer:	Daniel T. Wehner/Eileen MacKenzie
Filer Authorized By:	Daniel T. Wehner
Attorney Docket Number:	N0484.71162US04
Receipt Date:	13-JUN-2016
Filing Date:	25-AUG-2014
Time Stamp:	21:19:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$160
RAM confirmation Number	7112
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	Miscellaneous Incoming Letter	N048471162US04-TRN-DTW.PDF	56895 361863c3c44c91a48038eeb956de264f45755323	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	N048471162US04-FEE-DTW.PDF	87575 899a119092d5899fc569546967fc0661f18b9ec5	no	1
Warnings:					
Information:					
3	Terminal Disclaimer Filed	N048471162US04-TD-DTW.PDF	71859 fc20069517357b57aa724ea9351116ee8ccdc545	no	1
Warnings:					
Information:					
4		N048471162US04-116AMN-DTW.PDF	280470 3197a2b72bf9d795c9aba0d9097b95d4e3db53c7	yes	7

Multipart Description/PDF files in .zip description

Document Description	Start	End
Response After Final Action	1	1
Claims	2	4
Applicant Arguments/Remarks Made in an Amendment	5	7

Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30544 c325a40172575d1d6b1bc49ea83664ae8bd82556	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	527343		

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)			
		Application Number	14/467,641-Conf. #8640
		Filing Date	August 25, 2014
		First Named Inventor	Chris Weider
		Art Unit	2658
		Examiner Name	E. L. Yen
Total Number of Pages in This Submission		Attorney Docket Number	N0484.71162US04

ENCLOSURES (*Check all that apply*)

[X] Fee Transmittal Form	[ ] Drawing(s)	[ ] After Allowance Communication to TC
[ ] Fee Attached	[ ] Licensing-related Papers	[ ] Appeal Communication to Board of Appeals and Interferences
[X] Amendment/Reply	[ ] Petition	[ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
[ ] After Final	[ ] Petition to Convert to a Provisional Application	[ ] Proprietary Information
[ ] Affidavits/declaration(s)	[ ] Power of Attorney, Revocation Change of Correspondence Address	[ ] Status Letter
[ ] Extension of Time Request	[ ] Terminal Disclaimer	[X] Other Enclosure(s) (please Identify below): Terminal Disclaimer
[ ] Express Abandonment Request	[ ] Request for Refund	
[ ] Information Disclosure Statement	[ ] CD, Number of CD(s) _____	
[ ] Certified Copy of Priority Document(s)	[ ] Landscape Table on CD	
[ ] Reply to Missing Parts/ Incomplete Application	Remarks	
[ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature			
Printed name	Daniel T. Wehner, Ph.D.		
Date	June 13, 2016	Reg. No.	63,480

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Dated: June 13, 2016 Signature: )

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Microsoft v. Dialect - IPR2025-00659
Page 69 of 383

PTO/SB/17 (03-13)
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FEE TRANSMITTAL

	Complete if known
	Application Number: 14/467,641-Conf. #8640
	Filing Date: August 25, 2014
[X] Applicant asserts small entity status. See 37 CFR 1.27.	First Named Inventor: Chris Weider
[ ] 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.	Examiner Name: E. L. Yen
	Art Unit: 2658
TOTAL AMOUNT OF PAYMENT ($) 160.00	Practitioner Docket No.: N0484.71162US04

METHOD OF PAYMENT (check all that apply)

[ ] Check [X] Credit Card [ ] Money Order [ ] None [ ] Other (please identify): _____

[ ] Deposit Account Deposit Account Number: 23/2825 Deposit Account Name: Wolf, Greenfield & Sacks, P.C.

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

[ ] Charge fee(s) indicated below [ ] Charge fee(s) indicated below, **except for the filing fee**

[X] Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 [X] Credit any overpayment of fee(s)

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)

	FILING FEES			SEARCH FEES			EXAMINATION FEES			
Application Type	U ($)	S ($)	M ($)	U ($)	S ($)	M ($)	U ($)	S ($)	M ($)	Fees Paid ($)
Utility	280	140*	70	600	300	150	720	360	180	
Design	180	90	45	120	60	30	460	230	115	
Plant	180	90	45	380	190	95	580	290	145	
Reissue	280	140	70	600	300	150	2,160	1,080	540	
Provisional	260	130	65	0	0	0	0	0	0	

* The $140 small entity status filing fee for a utility application is further reduced to $70 for a small entity status applicant who files the application via EFS-Web.

2. EXCESS CLAIM FEES

Fee Description	Undiscounted Fee ($)	Small Entity Fee ($)	Micro Entity Fee ($)
Each claim over 20 (including Reissues)	80	40	20
Each independent claim over 3 (including Reissues)	420	210	105
Multiple dependent claims	780	390	195

Total Claims	Extra Claims	Fee ($)	Fee Paid ($)	Multiple Dependent Claims Fee ($)	Multiple Dependent Claims Fee Paid ($)
8 - 20 or HP =	x	=			

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee ($)	Fee Paid ($)
2 - 3 or HP =	x	=	

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is $400 ($200 for small entity) ($100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee ($)	Fee Paid ($)
- 100 =	/50 =	(round **up** to a whole number) x	=	

4. OTHER FEE(S)

	Fees Paid ($)
Non-English specification, $130 fee (no small or micro entity discount)	
Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, $400 fee ($200 small or micro entity)	
Other (e.g., late filing surcharge): 2814 Statutory disclaimer, including terminal ...	160.00

SUBMITTED BY					
Signature	/Daniel T. Wehner/	Registration No. (Attorney/Agent)	63,480	Telephone	617.646.8000
Name (Print/Type)	Daniel T. Wehner, Ph.D.			Date	June 13, 2016

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Dated: June 13, 2016 Signature: /Eileen MacNeagle/

4804481.1

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/467,641	Filing Date 08/25/2014	☐ 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 $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ 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

AMENDMENT **06/13/2016**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 8	Minus	** 20	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $210 =	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

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ 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.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/KIMBERLY PANNELL/

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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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04	8640

91337 7590 03/14/2016

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

EXAMINER	
YEN, ERIC L	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
03/14/2016	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):

Patents_eOfficeAction@wolfgreenfield.com
N0484_eOfficeAction@WolfGreenfield.com
IP.Inbox@nuance.com

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
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Office Action Summary	Application No. 14/467,641	Applicant(s) WEIDER ET AL.	
	Examiner ERIC YEN	Art Unit 2658	AIA (First Inventor to File) 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 *2/16/16*.

☐ 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) *1-20* is/are pending in the application.

5a) Of the above claim(s) *8-13,19 and 20* is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7, 14-18* 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 _____ 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: _____.

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DETAILED ACTION

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

Response to Amendment

1. In response to the Office Action mailed 11/13/15, applicant has submitted an amendment filed 2/16/16.

Claims 1-2, 4-6, 15-16, 18, have been amended.

Response to Arguments

2. Applicant's arguments filed 2/16/16 have been fully considered but they are not persuasive.

As per the 103 rejections:

Applicant argues that “Ross fails to disclose or suggest" "generat[ing] a context stack comprising **context information that corresponds to a plurality of prior utterances**" (emphasis original, Amendment, page 9). Applicant argues that "As should be appreciated from [Applicant's description of what is described in Ross], the contexts in the context list of Ross do not correspond to a plurality of prior utterances” and “Rather, each context represents a grammar for a speech-enabled application” and “Because the grammars of a speech-enabled application in Ross only describe the input… the application will recognize, and do not include any information corresponding to prior utterances, it is improper to interpret any of the application grammars of Ross to

be context information that corresponds to a plurality of prior utterances" (Amendment, page 10).

Storing data representing/linking/corresponding-to prior utterances within context information/grammars is not, however, the only means by which context information can be-associated-with/correspond-to prior utterances.

In Ross, each command is processed using a selected context (see e.g. Figure 4, paragraph 37). The selection of a particular context/grammar/application to process a particular input utterance/recognized-message (e.g. Processing "Print it" with a selected one of the e-mail application/context/grammar and the calendar application/context/grammar) associates/links the selected context with the input utterance/recognized-message such that the selected context/grammar/application can be interpreted as something that "corresponds to" that particular input utterance. As a result, the selected context is as a matter of reality something that corresponds to the input utterance for which it is selected.

The fact that the computer does not remember that it previously associated a context with an earlier utterance does not change the fact that as a matter of reality, the context was previously selected for an input utterance and is, therefore, something that "corresponds" to that "prior utterance". Once a context is selected to process a particular utterance, it is given the characteristic of corresponding to the utterance. This correspondence characteristic is not changed just because the computer does not remember selecting a context for the particular utterance because the failure of a computer to remember that the context was previously selected for a prior utterance

does not change the fact that the context was actually selected for that prior utterance at an earlier time.

Over a long period of usage, it is obvious that one or more of the available contexts/applications/grammars in Ross (see Figure 4, elements 62, 70-1, 70-2, 70-3, and 72) are selected at least once for at least one utterance. This is because, first, a command recognition system that can only receive one command for all of time is grossly limited in utility. Additionally, the two example grammars (for the e-mail application and the calendar application) in paragraphs 40-51 include several commands which are commonly used in their respective applications (e.g. it is common for a user to open a received e-mail, instruct the system to create a new e-mail, and send an e-mail). Therefore, over a long period of usage, it is obvious for the “create message”, “send message”, and “open message” commands to be spoken at least once. As discussed above, processing each of these commands involve selecting a particular application/context/grammar for each of these commands, specifically the e-mail application. Once selected for each of the 3 commands (over a long period of usage which obviously involves each of those commands being spoken at least once), the e-mail application/context/grammar becomes "context information that corresponds to a plurality of prior utterances" because it is a context associated-with/linked-to/selected-for multiple prior commands after a long period of usage (i.e. they correspond to the prior utterances because they were actually selected to process those utterances, as discussed above). Since the e-mail application/context grammar is part

of Ross's context list (i.e. vertically arranged "stack" of contexts), it is something that "a context stack compris[es]".

Additionally, even assuming an example where the e-mail application and the calendar application each recognize only one utterance over a long period of time, the two applications can collectively be interpreted as "context information that corresponds to a plurality of prior utterances" because they are each pieces of context data (such that the collection of applications/contexts can also be interpreted as context information) and because at least a portion of the collective context information is selected for, and thus corresponds to, each of the prior utterances (such that the collection of applications/contexts correspond to multiple prior utterances).

Therefore, for the reasons discussed above, what is described in Ross meets the "generating a context stack comprising context information that corresponds to a plurality of prior utterances" limitation in Applicant's claim. Applicant's argument that the grammar does not include information corresponding to prior utterances is irrelevant because it argues that Ross does not teach something that is not required by the claim language (as discussed above, storing data corresponding to prior utterances is not the only way that context information can correspond to prior utterances).

Even if storing prior utterance information was something that Applicant intended to claim using this claim limitation, what Applicant intended to claim is irrelevant because claim language is given its broadest reasonable interpretation without reading the Specification into the claims.

Applicant further argues that "'remembered context from previous recognitions' referred to in paragraph [0031] of Ross does not relate to context information that corresponds to a plurality of prior utterances. Rather, paragraph [0034] of Ross makes clear that the 'remembered context' relates to the fact that in the system of Ross, the priorities of the contexts in the context list, which determine the order in which contexts are compared to a speech recognition result to identify a match, are adjusted each time a particular context is identified as a match to a speech recognition result for a speech utterance. Thus, previous selections of a context affect the determination of whether that context is selected for a currently-processed speech recognition result in the system of Ross" (Amendment, pages 10-11).

However, the relevant fact from "remembered context from previous recognitions" (i.e. plural recognitions, which, in this context, obviously refers to speech recognitions of prior/previous utterances) was that a particular "remembered" context was actually used in multiple prior recognitions, such that the particular "remembered" context (at least obviously, for reasons discussed above) "corresponds to a plurality of prior utterances" as a context which was actually selected to process those prior utterances during the "previous recognitions".

Each of the "previous selections of a context" mentioned by Applicant refer (obviously) to selections of that context to process a prior utterance. The fact that the context was previously selected thus establishes that the context "corresponds to" a prior utterance. Since, as discussed above, processing each utterance involves performing a context selection for each utterance, it logically/obviously follows that when

there are multiple "previous selections", those “previous selections” were made for multiple "prior utterances", such that the context “corresponds to a plurality of prior utterances" as a context which was actually selected for each of those prior utterances for which the "previous selections" were made.

Therefore, Applicant’s argument that “paragraph [0031] of Ross does not relate to context information that corresponds to a plurality of prior utterances” is not true, and the examiner maintains the previous prior art rejections (adjusted as necessary for any amendments to the claims).

Claim Rejections - 35 USC § 101

For clarity of the record, claim 1 is not rejected under Alice because it is directed to a system (i.e. a machine) which "receives a natural language utterance". This is treated as tying any algorithmic manipulations/analyses of data (abstract steps which can be performed manually/mentally by a human) to a physical transformation of physical audio into electrical data. This is because "utterance" necessarily refers to a spoken physical sound and not to a data representation of a sound. For a machine to receive that spoken physical sound, a physical transformation of that sound into data form is necessary, and thus claim 1 is interpreted as "significantly more" than an abstract idea because the abstract idea is "tied to a transformation”.

Claim 15 includes “receiving, by one or more compute processors, the natural language utterance”, which, for similar reasons, necessarily includes the physical

transformation discussed in the previous paragraph and ties Applicant's abstract idea to that physical transformation.

Claim Rejections - 35 USC § 103

1. 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 of this title, 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.

Claims 1, 3, 7, 15, 17 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Ross et al. (US 2002/0133354), hereafter Ross.

As per Claims 1, 15, Ross suggests **a system (and corresponding method) for processing a natural language utterance, the system including one or more processors executing one or more computer program modules which, when executed, cause the one or more processors to:** ("computer system", paragraph 21; "computer program", paragraph 22; "electronic mail application… Print it", paragraphs 40-45; "calendar application… Print it", paragraphs 46-51; "If the sentence is 'print it' however, both grammars are capable of accepting the utterance… make a choice", paragraph 53; where at least the spoken inputs in paragraphs 40-45 and 46-51 are in the English natural language and are thus natural language utterances, where the particular utterance "print it" has words which alone are insufficient to determine what to

print [i.e. what command the system is to implement, particularly one of print e-mail or print calendar entry])

generate a context stack comprising context information that corresponds to a plurality of prior utterances (Figure 4; “context list”, paragraph 33; “priority and state of the various grammars in the context list”, paragraph 34; “most recently accessed speech-enabled application… whether the context for that application is at the top of the context list”, paragraph 36; “checking the speech representation against contexts… starting at top of context list to determine the highest priority context that can process the speech representation”, paragraph 37; “open…create… send…print”, paragraphs 40-45; “open…create…print”, paragraphs 46-51; “when an utterance is recognized, the conversation manager… combines an analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance… utterance is then translated into the appropriate script engine… calls and dispatched”, paragraph 31; where at least the existence of multiple allowable commands suggests that the system can receive multiple different commands over time, where the context list can be interpreted as a “stack” since it “vertically” arranges [i.e. ranks] contexts in order of priority including how recently a given context is used, where any one of the contexts in the list can be interpreted as context information which corresponds to the commands it can process which are at least obviously spoken at least once over time [e.g. in an e-mail application it is at least obvious that over time the create and open and send commands are used at least once such that at some point in time those commands

were prior utterances to which the e-mail context corresponds to]. Additionally Ross refers to a "remembered context from previous recognitions" [paragraph 31] which more explicitly teaches where contexts can correspond to multiple prior utterances since recognitions are performed on utterances)

receiving the natural language utterance, wherein the natural language utterance is associated with a command or is associated with a request ("input spoken utterance… is a voice command… determines a context… for the spoken utterance… command… directed to the speech enabled external application", paragraph 21; "open…create… send…print", paragraphs 40-45; "open…create…print", paragraphs 46-51; where Ross explicitly states that input utterances are commands and the utterances are at least obviously in the English natural language at least in the case of the described e-mail and calendar applications in paragraphs 40-51. These commands/utterances can be interpreted as the natural language utterances processed by the system [in the preamble])

determine one or more words of the natural language utterance by performing speech recognition on the natural language utterance (Figure 1; "convert speech into text strings…include the ViaVoice", paragraph 2; "speech engine interface… speech engine 22… is ViaVoice", paragraph 24; "when an utterance is recognized… analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance… utterance is then translated into the appropriate script engine… calls… dispatched", paragraph 31; "speech representation recognized by the speech engine

22", paragraph 36; "open…create… send…print", paragraphs 40-45; "open…create…print", paragraphs 46-51; where Ross states that the recognition messages are speech representations from speech engine 22 [paragraph 36], where speech engine 22 is ViaVoice [paragraph 24], and where ViaVoice is one of the recognition engines that convert speech into text strings [paragraph 2]. Logically, therefore, the generation of the recognition message is speech recognition which determines words which were spoken in the input utterance, which at least in the "print it" example is a natural language utterance [i.e. the English natural language])

determine, based on the determined one or more words and the context information, the command or the request associated with the natural language utterance (Figure 1; "convert speech into text strings…include the ViaVoice", paragraph 2; "speech engine interface… speech engine 22… is ViaVoice", paragraph 24; "when an utterance is recognized, the conversation manager… combines an analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance… utterance is then translated into the appropriate script engine… calls and dispatched", paragraph 31; "recognition message [speech representation recognized by the speech engine]", paragraph 36; "selects a context… checking the speech representation against contexts… starting at top of context list… to determine the highest priority context that can process the speech representation… translated according to the selected context… translation to the script engine… to perform the action indicated by the translated utterance", paragraph 37; "if the sentence is 'print it'… both grammars are capable…

choice… referring to the context list… recency of access… in priority order", paragraph 53; "resolves the ambiguity… top priority context… directs a translation… indicated by the top priority context", paragraph 59; where at least one context [i.e. piece of "context information"] is used to resolve the ambiguous phrase "print it" to determine exactly what to print and to send an appropriate command accordingly).

As per Claim 3, 17, Ross teaches **wherein the context stack includes a plurality of context entries, and wherein the one or more processors are further caused to: identify, from among the plurality of context entries, one or more context entries that correspond to the one or more words, wherein the context information includes the one or more context entries** (Figure 4; Figure 1; "convert speech into text strings…include the ViaVoice", paragraph 2; "speech engine interface… speech engine 22… is ViaVoice", paragraph 24; "when an utterance is recognized, the conversation manager… combines an analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance… utterance is then translated into the appropriate script engine… calls and dispatched", paragraph 31; "recognition message [speech representation recognized by the speech engine]", paragraph 36; "selects a context… checking the speech representation against contexts… starting at top of context list… to determine the highest priority context that can process the speech representation… translated according to the selected context… translation to the script engine… to perform the action indicated by the translated

utterance", paragraph 37; "if the sentence is 'print it'… both grammars are capable… choice… referring to the context list… recency of access… in priority order", paragraph 53; "resolves the ambiguity… top priority context… directs a translation… indicated by the top priority context", paragraph 59; where the context list/stack includes multiple contexts, which can alternatively collectively be interpreted as context information since it is at least obvious for systems prepared to process multiple commands in different contexts to actually receive those commands over a period of continuous use [such that the context information corresponds to the plurality of input commands over time], where each context can alternatively be interpreted as individual context entries included in the collective context information [i.e. those contexts previously used to recognize various input utterances which the contexts were designed to process], where, for example, in the print it example, a particular context [e.g. e-mail or calendar application] is identified as a context that can process the utterance [i.e. that it corresponds to the one or more words "print it" in the utterance], or alternatively the identified context can be identified according to priority and "happen" to correspond to the words "print it" [by being a grammar that can process the command "print it"] and also meet the limitations of the claim that way)

As per Claim 7, Ross teaches **wherein identifying the one or more context entries comprises identifying, from among the plurality of context entries, the one or more context entries that most closely correspond to the one or more words** ("if the sentence is 'print it'… both grammars are capable… choice… referring to the

context list… recency of access… in priority order", paragraph 53; "resolves the ambiguity… top priority context… directs a translation… indicated by the top priority context", paragraph 59; "electronic mail application", paragraphs 40-45; "calendar application", paragraphs 46-51; where the identified contexts in the calendar/e-mail example are, among other things, those contexts/applications that can handle the phrase "print it" in an input phrase containing the words print it [which logically "corresponds" the contexts/applications and the words in the spoken utterance of "print it"])

1. Claims 2, 16, are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Ross, as applied to Claims 1 and 15, above, and further in view of Dominach et al. (US 2004/0172258), hereafter Dominach.

As per Claim 2, 16, Ross does not, but Dominach (in combination with Ross) teaches/suggests **wherein the one or more processors are further caused to: provide a prompt regarding the command or request, wherein the prompt is a prompt for additional information or a prompt for confirmation, and receive, in response to providing the prompt, a non-speech input, wherein the command or request is determined further based on the non-speech input** ("speech input is received… user speaking into a microphone… speech is not recognized unambiguously, then a list of possible alternatives is determined… presented to a user… selects one of the alternatives, and the selected alternative is provided to the

application as input", paragraph 30; "present to the end user the recognition alternatives… selection input… keypad input, stylus input", paragraph 20; where the combination is where the speech recognition function in Ross further comprises a function described in Dominach which allows the user to clarify what he/she said when the system determines the input speech command/request is ambiguous by presenting a list of alternatives to the user, where presentation of alternatives "provides a prompt" to the user to select one so that the system can properly understand what the user wanted, and where, in the combination, the disambiguation input produces a recognition result which as described in Ross, is used to determine what command to execute. Paragraph 20 also teaches where selections from the user can be via keypad, stylus, etc. and therefore at least suggests where the disambiguating selection is via non-speech input).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine prior art elements according to known methods because the prior art teaches each element claimed except for the lack of combination of elements in a single prior art reference. One of ordinary skill in the art could have combined the prior art elements according to known methods (by adding the disambiguation function in Dominach to the speech recognition in Ross) and in combination each element performs the same function as it does separately (the disambiguation is distinct from mapping audio to candidate recognition result data and occurs after a series of mappings are made to produce the ambiguous candidates and does not interfere with the command translation in Ross which occurs after a desired

recognition result is obtained). The combination is the predictable results of a speech recognition system which processes natural language utterances and activates commands (as per Ross) and which has a disambiguation function to deal with situations where the system cannot immediately determine a single recognition result for an input speech utterance (as per Dominach).

Allowable Subject Matter

1. Claims 4-6, 14, 18, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

2. The following is a statement of reasons for the indication of allowable subject matter:

As per Claim 14:

As described in the Notice of Allowability mailed 11/1/10 in Application 12/617506, Mumick et al. (US 2003/0046346) teaches synchronizing plural browsers on a plurality of mobile devices including a state manager that stores navigation histories in a data store so that a user can switch from a visual browser on one device to a voice browser on a second device without losing navigation state, but synchronization of navigation state is not the claimed synchronization of context across multiple devices (page 2).

While the claim language at issue is not identical, the limitation in claim 14 is directed to a similar concept which is also more narrow in that not only is context synchronized, but context stacks of distinct devices are synchronized.

As per Claims 4 and 18:

The prior art of record does not teach the combination of all limitations of claims 4 and 18 with all of the limitations in claims 1 and 15.

The prior art teaches scoring contexts and using top contexts (implying/suggesting a rank among contexts), but does not specifically describe where the scoring/ranking of contexts is based on comparing context entries in a context stack to one or more words determined from a received natural language utterance.

2004/0193420 "voice query language can be sensitive to the contents of the context stack… following-on question or command can be asked using an abbreviated grammar", paragraph 153; "parser may determine a context for an utterance by applying prior probabilities or fuzzy possibilities to keyword matching... and context stack contents... parser dynamically receives keyword and associated prior probability or fuzzy possibility updates… Based on these probabilities or possibilities the possible contexts are scored and the top one or few are used for further processing", paragraph 160; "domain agent… evaluate the results of the one or more queries as they arrive… score the relevance of the results based on results already received, the context… history of the dialog…part of the dialog history is maintained in a context stack… weight

of each context for the scoring may be based on the relevance of one context to another and the age of the contexts", paragraph 170;

The prior art also teaches comparing utterances to contexts, but appears to teach this with "context" in the sense of preceding/following words and not context entries in a context stack.

5233681 "generating a next context score for each next context candidate word in the vocabulary of candidate words. Each next context score comprises an estimate of the closeness of a match between a model of the next context candidate word and the second portion of the sequence of coded representations of the utterance"

5680511 "Based on the comparison of the context words with the passage words, the method determines a probability signal or score that can indicate the likelihood that a choice word is the proper choice for the current word"; "system... can compare the words... with the context words... and determine the likelihood that the word... represents the current word... currently being recognized"

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 claims at issue 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); and *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 a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit http://www.uspto.gov/forms/. The filing date of the application will determine what form 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 http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

4. Claims 1-20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 8,849,652, hereafter Parent Patent. Although the claims at issue are not identical, they are not patentably distinct from each

other because the claims of this application are broader claims which contain the limitations in the Patent's claims.

As per Claims 1, 14, and 15, claim 1 of the Parent Patent teaches the claimed limitations.

As per Claims 2 and 16, claim 2 of the Parent Patent teaches the claimed limitations.

As per Claims 3 and 17, claim 3 of the parent patent teaches the claimed limitations.

As per Claims 4 and 18, claim 4 of the parent patent teaches the claimed limitations.

As per Claim 5, claim 5 of the parent patent teaches the claimed limitations.

As per Claim 6, claim 6 of the parent patent teaches the claimed limitations.

As per Claim 7, claim 7 of the parent patent teaches the claimed limitations.

As per Claims 8 and 19, claim 8 of the parent patent teaches the claimed limitations.

As per Claim 9, claim 9 of the parent patent teaches the claimed limitations.

As per Claim 10, claim 10 of the parent patent teaches the claimed limitations.

As per Claim 11, claim 11 of the parent patent teaches the claimed limitations.

As per Claim 12, claim 12 of the parent patent teaches the claimed limitations.

As per Claims 13 and 20, claim 13 of the parent patent teaches the claimed limitations.

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). 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 date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC YEN whose telephone number is (571)272-4249. The examiner can normally be reached on M-F 7:30-4:00.

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

Information regarding the status of 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.

EY 3/3/16
/ERIC YEN/
Primary Examiner, Art Unit 2658

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	Art Unit
	ERIC YEN	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L 15/18, 15/1815, 15/1822, 15/183, 15/197, 15/20, 15/2, 2015/223, 2015/228, 15/24	11/5/15	EY

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Search (attached)	11/5/15	EY

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	Art Unit
	ERIC YEN	2658

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

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

CLAIM		DATE								
Final	Original	07/16/2015	11/05/2015							
	1	÷	✓							
	2	÷	✓							
	3	÷	✓							
	4	÷	✓							
	5	÷	✓							
	6	÷	✓							
	7	÷	✓							
	8	÷	N							
	9	÷	N							
	10	÷	N							
	11	÷	N							
	12	÷	N							
	13	÷	N							
	14	÷	✓							
	15	÷	✓							
	16	÷	✓							
	17	÷	✓							
	18	÷	✓							
	19	÷	N							
	20	÷	N							

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Docket No.: N0484.71162US04
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Chris Weider
Application No.:	14/467,641
Confirmation No.:	8640
Filed:	August 25, 2014
For:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
Examiner:	E. L. Yen
Art Unit:	2658

Certificate of Electronic Filing Under 37 CFR 1.8
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: February 16, 2016 Signature: Eileen Mackenzie

AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION UNDER 37 C.F.R. § 1.111

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

Dear Sir:

INTRODUCTORY COMMENTS

In response to the Office Action dated November 13, 2015, please amend the above-identified U.S. patent application as follows:

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

Remarks/Arguments begin on page 8 of this paper.

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AMENDMENTS TO THE CLAIMS

1. (Currently amended) A system for processing a natural language ~~utterances where recognized words of the natural language utterances alone are insufficient to completely determine one or more commands or requests~~ utterance, the system including one or more processors executing one or more computer program modules which, when executed, cause the one or more processors to:

generate a context stack comprising context information that corresponds to a plurality of prior utterances;

receive [[a]] the natural language utterance, wherein the natural language utterance is associated with a command or is associated with a request;

determine one or more words of the natural language utterance by performing speech recognition on the natural language utterance; and

determine ~~the command or request~~, based on the determined one or more words and the context information, the command or the request associated with the natural language utterance.

2. (Currently amended) The system of claim 1, wherein the one or more processors are further caused to:

provide a prompt regarding the command or request ~~a user associated with the natural language utterance~~, wherein the prompt is a prompt for additional information or a prompt for confirmation ~~regarding the command or request~~; and

receive, in response to providing the prompt, a non-speech input ~~regarding the additional information or confirmation in response to the prompt~~, wherein the command or request is determined further based on the non-speech input.

3. (Original) The system of claim 1, wherein the context stack includes a plurality of context entries, and wherein the one or more processors are further caused to:

identify, from among the plurality of context entries, one or more context entries that correspond to the one or more words, wherein the context information includes the one or more context entries.

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4. (Currently amended) The system of claim 3, wherein identifying the one or more context entries comprises:

comparing the plurality of context entries ~~with~~ to the one or more words;

generating, based on the comparison, one or more rank scores for individual context entries of the plurality of context entries ~~based on the comparison~~; and

identifying, based on the one or more rank scores ~~from among the plurality of context entries~~, the one or more context entries from among the plurality of context entries ~~based on the one or more rank scores~~.

5. (Currently amended) The system of claim 4, wherein the plurality of context entries are ordered in the context stack, and wherein the one or more processors are further caused to update, based on the one or more rank scores, the ordering of the plurality of context entries in the context stack ~~based on the one or more rank scores~~.

6. (Currently amended) The system of claim 5, wherein the natural language utterance is associated with a user, and wherein the one or more processors are further caused to:

receive a subsequent natural language utterance associated with the user; ~~and~~

~~determining~~ determine one or more ~~subsequent~~ words of the subsequent natural language utterance by performing speech recognition on the subsequent natural language utterance;

identify, based on the updated ordering of the plurality of context entries in the context stack ~~from among the plurality of context entries~~, one or more other context entries that correspond to the determined one or more ~~subsequent~~ words ~~based on the updated ordering~~ of the subsequent natural language utterance; and

determine, based on the determined one or more words of the subsequent natural language utterance and the identified one or more other context entries, a subsequent command or a subsequent request ~~based on the one or more subsequent words and the one or more other context entries.~~

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7. (Original) The system of claim 3, wherein identifying the one or more context entries comprises identifying, from among the plurality of context entries, the one or more context entries that most closely correspond to the one or more words.

8. (Withdrawn) The system of claim 1, wherein the one or more processors are further caused to:

identify one or more domain agents associated with the one or more context entries, wherein the one or more domain agents are configured to process the command or request; and

generate a response to the command or request using the one or more domain agents.

9. (Withdrawn) The system of claim 8, wherein each of the one or more domain agents comprises domain knowledge associated with a particular domain, the domain knowledge comprising: (i) a keyword; (ii) a link to an information source; (iii) a list of responses associated with a plurality commands or requests; (iv) a substitution list used to format the plurality of commands or requests; or (v) content including dictionaries, encyclopedias, or almanacs.

10. (Withdrawn) The system of claim 8, wherein the response comprises an aggregation of one or more responses generated by the one or more domain agents based on the command or request.

11. (Withdrawn) The system of claim 8, wherein the one or more processors are further caused to:

obtain information relating to a license agreement that is associated with at least one of the one or more domain agents;

determine that use of the at least one of the one or more domain agents to process the command or request is permitted based on the information related to the license agreement; and

generate, using the at least one of the one or more domain agents, the response based on the determination that the use is permitted.

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12. (Withdrawn) The system of claim 1, wherein the natural language utterance is associated with a user, and wherein the one or more processors are further caused to:

obtain a cognitive model or an environmental model associated with the user, wherein the cognitive model comprises information relating to one or more interactions between the user and the system, and the environmental model comprises information indicative of how noisy an environment surrounding the user is,

wherein the one or more words are determined further based on the cognitive model or the environmental model.

13. (Withdrawn) The system of claim 1, wherein the natural language utterance is associated with a user, and wherein the one or more processors are further caused to:

obtain a first cognitive model that comprises information relating to one or more interactions between the user and the system; and

obtain a second cognitive model that comprises information relating to one or more interactions between the system and a plurality of users of the system,

wherein the one or more words are determined further based on the first cognitive model and the second cognitive model.

14. (Original) The system of claim 1, wherein the context stack is a first context stack of a first device, and wherein the one or more processors are further caused to:

synchronize the context stack with a second context stack of a second device.

15. (Currently amended) A computer-implemented method of processing a natural language ~~utterances where recognized words of the natural language utterances alone are insufficient to completely determine one or more commands or requests~~ utterance, the method ~~being implemented by a computer system that includes one or more processors executing one or more computer program modules which, when executed, perform the method, the method~~ comprising:

generating a context stack comprising context information that corresponds to a plurality of prior utterances;

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receiving, by one or more computer processors, [[a]] the natural language utterance, wherein the natural language utterance is associated with a command or is associated with a request;

determining one or more words of the natural language utterance by performing speech recognition on the natural language utterance; and

determining ~~the command or request~~ based on the determined one or more words and the context information, the command or the request associated with the natural language utterance.

16. (Currently amended) The method of claim 15, further comprising:

providing a prompt regarding the command or request ~~prompting a user associated with the natural language utterance~~, wherein the prompt is a prompt for additional information or a prompt for confirmation ~~regarding the command or request~~; and

receiving, in response to providing the prompt, a non-speech input ~~regarding the additional information or confirmation in response to the prompt~~, wherein the command or request is determined further based on the non-speech input.

17. (Original) The method of claim 15, wherein the context stack includes a plurality of context entries, the method further comprising:

identifying, from among the plurality of context entries, one or more context entries that correspond to the one or more words, wherein the context information includes the one or more context entries.

18. (Currently amended) The method of claim 17, wherein identifying the one or more context entries comprises:

comparing the plurality of context entries ~~with~~ to the one or more words;

generating, based on the comparison, one or more rank scores for individual context entries of the plurality of context entries ~~based on the comparison~~; and

identifying, based on the one or more rank scores ~~from among the plurality of context entries~~, the one or more context entries ~~based on the one or more rank scores~~ from among the plurality of context entries.

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19. (Withdrawn) The method of claim 15, further comprising:

identifying one or more domain agents associated with the one or more context entries, wherein the one or more domain agents are configured to process the command or request; and

generating a response to the command or request using the one or more domain agents.

20. (Withdrawn) The method of claim 15, wherein the natural language utterance is associated with a user, the method further comprising:

obtaining a first cognitive model that comprises information relating to one or more interactions between the user and the system; and

obtaining a second cognitive model that comprises information relating to one or more interactions between the system and a plurality of users of the system,

wherein the one or more words are determined further based on the first cognitive model and the second cognitive model.

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REMARKS

In response to the Office Action dated November 13, 2015, the Assignee respectfully requests reconsideration. To further the prosecution of this application, each of the rejections set forth in the Office Action has been carefully considered and is addressed below. The application as presented is believed to be in condition for allowance. No new matter has been added.

I. Double Patenting Rejection

The Office Action provisionally rejects claims 1-20 on the ground of non-statutory double patenting over claims 1-14 of U.S. Patent No. 8,849,652. The Assignee will address the double patenting rejections if and when their provisional nature is withdrawn.

II. Claim Rejections under 35 U.S.C. §112

The Office Action rejects claims 1-7 and 14-18 (including independent claims 1 and 15) under 35 U.S.C. §112(b), second paragraph, as allegedly being indefinite. In particular, the Office Action requests clarification of several claim limitations. Without acceding to the propriety of the rejections, each of the claim limitations identified in the Office Action has been amended in an effort to advance prosecution of the application. Accordingly, it is respectfully requested that the rejections under 35 U.S.C. §112 be withdrawn.

III. Claim Rejections under 35 U.S.C. § 101

The Office Action rejects claims 15-17 (including independent claim 15) under 35 U.S.C. §101 as allegedly being directed to non-statutory subject matter. In particular, the Office Action asserts that claim 15 is directed to an abstract idea without significantly more. The Office Action suggests amending the "receiving a natural language utterance" limitation in the claim to require machine implementation, and indicates that such an amendment would overcome the rejection under 35 U.S.C. §101. Without acceding to the propriety of the rejection, claim 15 has been amended in accordance with the Examiner's suggestion by reciting, "receiving, by one or more computer processors, the natural language utterance ..." For at least this reason, claim 15 is

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directed to statutory subject matter, and it is respectfully requested that the rejections under 35 U.S.C. §101 be withdrawn.

IV. Claim Rejections under 35 U.S.C. §103

The Office Action rejects claims 1, 3, 7, 15 and 17 (including independent claims 1 and 15) under 35 U.S.C. §103(a) as purportedly being obvious over U.S. Patent Application Publication No. 2002/0133354 ("Ross"). The Assignee respectfully requests reconsideration.

A. Independent Claim 1

Claim 1 recites, "generate a context stack comprising **context information that corresponds to a plurality of prior utterances** (emphasis added)." Ross fails to disclose or suggest at least the above-highlighted portion of claim 1.

The Office Action asserts that the context list 62 shown in FIG. 4 of Ross is a context stack comprising context information that corresponds to a plurality of prior utterances, as recited in claim 1 (Office Action, pages 13-14). In particular, the Office Action asserts that "any one of the contexts in the list can be interpreted as context information which corresponds to the commands it can process which are at least obviously spoken at least once over time ... Additionally Ross refers to a 'remembered context from previous recognitions' [paragraph 31] which more explicitly teaches where context can correspond to multiple prior utterances since recognitions are performed on utterances" (Office Action, page 14). The Assignee respectfully disagrees that any of the contexts in the context list of Ross includes context information that corresponds to a plurality of prior utterances, as recited in claim 1.

Ross describes a speech center system that receives voice commands for one of a plurality of speech-enabled applications in communication with the speech center system (Ross, [0021]; [0023]). The speech center system includes a conversation manager, which processes a speech recognition result for a spoken utterance to determine which of the plurality of speech-enabled applications the utterance is directed to (Ross, [0021]). A context manager in the conversation manager stores a context list including contexts for the speech-enabled applications (Ross, [0032]-[0033]). The contexts for the speech-enabled applications represent the grammars for the

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applications (Ross, [0033]). During operation, the context manager compares a speech recognition result for a spoken utterance with entries in the active grammars in the context list to determine which of speech-enabled applications includes an entry in its grammar corresponding to the speech recognition result (Ross, [0034]). When a match is found, a translation of the spoken utterance is provided to the speech-enabled application associated with the matching grammar to enable the application to perform an action based on the translation (Ross, [0034]). The order in which the context manager compares a speech recognition result with the active grammars in the context list is determined based on a priority associated with each of the grammars in the context list (Ross, [0035]). For example, the most recently-accessed speech-enabled application may be assigned the highest priority in the context list such that the context manager compares a speech recognition result for a new spoken utterance with that application's grammar first to determine whether there is a match (Ross, [0036]).

As should be appreciated from the foregoing, the contexts in the context list of Ross do not correspond to a plurality of prior utterances. Rather, each context represents a grammar for a speech-enabled application (e.g., the commands that the speech-enabled application is capable of recognizing). Because the grammars of a speech-enabled application in Ross only describe the input (e.g., commands) the application will recognize, and do not include any information corresponding to prior utterances, it is improper to interpret any of the application grammars of Ross to be context information that corresponds to a plurality of prior utterances, as recited in claim 1.

As discussed above, the Office Action also asserts that paragraph [0031] of Ross explicitly teaches that the contexts in Ross correspond to multiple prior utterances (Office Action, page 14). The Assignee respectfully disagrees. Paragraph [0031] of Ross states, "[w]hen an utterance is recognized, the conversation manager 28 combines an analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance. The utterance is then translated into the appropriate script engine 38 calls and dispatched to the target application 26." The Office Action appears to assert that "remembered context from previous recognitions" allegedly teaches the above-highlighted portion of claim 1. However, the "remembered context from previous recognitions" referred to in

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paragraph [0031] of Ross does not relate to context information that corresponds to a plurality of prior utterances. Rather, paragraph [0034] of Ross makes clear that the "remembered context" relates to the fact that in the system of Ross, the priorities of the contexts in the context list, which determine the order in which the contexts are compared to a speech recognition result to identify a match, are adjusted each time a particular context is identified as a match to a speech recognition result for a speech utterance. Thus, previous selections of a context affect the determination of whether that context is selected for a currently-processed speech recognition result in the system of Ross.

For at least these reasons, claim 1 patentably distinguishes over Ross, and it is respectfully requested that the rejection under 35 U.S.C. § 103 be withdrawn. Claims 2-7 and 14 depend from claim 1 and each patentably distinguishes over Ross for at least the same reasons.

B. Independent Claim 15

Claim 15 recites, "generating a context stack comprising **context information that corresponds to a plurality of prior utterance**s (emphasis added)."

As should be appreciated from the foregoing, Ross fails to disclose or suggest at least the above-highlighted portion of claim 15. Accordingly, it is respectfully requested that the rejection under 35 U.S.C. §103 be withdrawn. Claims 16-18 depend from claim 15 and each patentably distinguishes over Ross for at least the same reasons.

V. Additional Comments on Dependent Claims

Since each of the dependent claims depends from a base claim that is believed to be in condition for allowance, the Assignee believes it is unnecessary at this time to argue the allowability of each of the dependent claims individually. The Assignee does not, however, necessarily concur with the interpretation of the dependent claims as set forth in the Office Action, nor does the Assignee concur that the basis for the rejection of any of the dependent claims is proper. Therefore, the Assignee reserves the right to specifically address the patentability of the dependent claims in the future, if deemed necessary.

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CONCLUSION

A Notice of Allowance is respectfully requested. The Examiner is requested to call the undersigned at the telephone number listed below if this communication does not place the case in condition for allowance.

If this response is not considered timely filed and if a request for an extension of time is otherwise absent, Assignee hereby requests any necessary extension of time. If there is a fee occasioned by this response, including an extension fee, the Director is hereby authorized to charge any deficiency or credit any overpayment in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 23/2825, under Docket No. N0484.71162US04, from which the undersigned is authorized to draw.

Dated: February 16, 2016

Respectfully submitted,

By _____

Daniel T. Wehner, Ph.D.
Registration No.: 63,480
WOLF, GREENFIELD & SACKS, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2206
617.646.8000

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Electronic Acknowledgement Receipt	
EFS ID:	24929732
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	91337
Filer:	Daniel T. Wehner/Eileen MacKenzie
Filer Authorized By:	Daniel T. Wehner
Attorney Docket Number:	N0484.71162US04
Receipt Date:	16-FEB-2016
Filing Date:	25-AUG-2014
Time Stamp:	20:05:49
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	Miscellaneous Incoming Letter	N048471162US04-TRN-DTW.PDF	56131 8211c7a5ba02fd402f6e74ac1dd8a037e5d0b901	no	1

Warnings:
Information:

2		N048471162US04-AMN-DTW.PDF	606428 3d4a917df74001bd21c478a824e17bc2b0a08e12	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	7
	Applicant Arguments/Remarks Made in an Amendment	8	12

Warnings:	
Information:	
Total Files Size (in bytes):	662559

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	

Application Number	14/467,641-Conf. #8640
Filing Date	August 25, 2014
First Named Inventor	Chris Weider
Art Unit	2658
Examiner Name	E. L. Yen
Attorney Docket Number	N0484.71162US04

ENCLOSURES (*Check all that apply*)

- [ ] Fee Transmittal Form
- [ ] Fee Attached
- [x] Amendment/Reply
- [ ] After Final
- [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Reply to Missing Parts/ Incomplete Application
- [ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
- [ ] Landscape Table on CD
- [ ] After Allowance Communication to TC
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- [ ] Proprietary Information
- [ ] Status Letter
- [ ] Other Enclosure(s) (please Identify below):

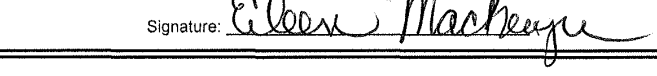
Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature			
Printed name	Daniel T. Wehner, Ph.D.		
Date	February 16, 2016	Reg. No.	63,480

Certificate of Electronic Filing Under 37 CFR 1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: February 16, 2016 Signature: 

4591553.1

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 14/467,641	Filing Date 08/25/2014	☐ 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 $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ 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

AMENDMENT 02/16/2016	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $210 =	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

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ 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.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/HALLEY MASSEY/

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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Nuance Communications, Inc.
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EXAMINER	
YEN, ERIC L	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
11/13/2015	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):

Patents_eOfficeAction@wolfgreenfield.com
N0484_eOfficeAction@WolfGreenfield.com
IP.Inbox@nuance.com

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
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Office Action Summary	Application No. 14/467,641	Applicant(s) WEIDER ET AL.	
	Examiner ERIC YEN	Art Unit 2658	AIA (First Inventor to File) 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 *9/21/15*.

☐ 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) *1-20* is/are pending in the application.

5a) Of the above claim(s) *8-13,19 and 20* is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7, 14-18* 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 _____ 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: _____.

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
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DETAILED ACTION

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

Election/Restrictions

1. Applicant's election without traverse of Species I (claims 3-7, 17, 18) in the reply filed on 9/21/15 is acknowledged.

Claims 1-7, 14-18, are pending and under consideration. Claims 8-13, 19-20, are withdrawn.

Claim Rejections - 35 USC § 112

1. The following is a quotation of 35 U.S.C. 112(b):
(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-7, 14-18 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

As per Claims 1 and 15:

"that corresponds to a plurality of prior utterances", in the "generate" step, can, as a descriptive phrase, refer to either "a context stack" (such that the context stack 1. Comprises context information and 2. Corresponds to a plurality of prior utterances) or

to "context information" (such that the context stack comprises context information, where the context information corresponds to a plurality of prior utterances). While, at a glance, this may seem trivial, the key distinction between the two interpretations is that if "that corresponds..." refers to "a context stack", then the context stack, in its entirety, must corresponds to the plurality of prior utterances, and if “that corresponds…” refers to "context information", then it is possible that only a portion of the context stack corresponds to the plurality of prior utterances, particularly in embodiments of "context stack comprising context information..." that include more than the context information (since “comprises” refers to an entity containing something at a minimum).

In the "receive” step, “or request” can be interpreted as either something that the natural language utterance can alternatively be associated with, or something that is alternatively received (instead of "a natural language utterance associated with a command”).

Amending “or request” to recite –or associated with a request—should suffice to resolve this issue.

In the first “determining” step. “the natural language utterance”, while it is fairly clearly meant to refer to the received natural language utterance, can also refer to any one of the “natural language utterances” mentioned in the preamble and is thus ambiguous because it is not clear which utterance of the multiple utterances in claims 1 and 15 “the natural language utterance” is supposed to refer to.

In the last step, "based on the one or more words..." can, as a descriptive phrase, refer to either "determine" (such that the determining is based on the one or

more words) or to "the command or request" (in which case the complete phrase “the command or request based on the one or more words” lacks antecedent basis), or to "request“ only.

Additionally, “and the context information” can be interpreted as something that the determining/command/request is further based on, or something that is also determined in addition to "the command or request based on the one or more words".

Amending the last step to recite “determine/determining, based on the one or more words and the context information, the command or the request." should suffice to resolve the issues discussed in the previous two paragraphs.

As per Claims 2 and 16:

While it is fairly clear that Applicant is trying to claim where a user is prompted for additional information or prompted for a confirmation, "for additional information..." as a descriptive phrase, can refer not just to "prompting", but can also grammatically refer to an intended purpose of "the natural language utterance".

Additionally, “regarding the command or request”, at the end of the “prompt” limitation, can refer to either the “confirmation” only (such that the additional information does not necessarily need to pertain to the command or the request) or to both the “additional information" and the “confirmation”.

In the “receive” limitation, “in response to the prompt” can refer to any of “receive” (such that the receiving is in response to the prompt, or “confirmation” (such that the

confirmation is in response to the prompt, and is received, where the receiving has no particular characteristic).

Additionally, “the natural language utterance”, while it is fairly clearly meant to refer to the received natural language utterance, can also refer to any one of the “natural language utterances” mentioned in the preamble and is thus ambiguous because it is not clear which utterance of the multiple utterances in claims 1 and 15 “the natural language utterance” is supposed to refer to.

As per Claims 4 and 18:

“comparing… with the one or more words” can be interpreted as either where the context entries are compared to the one or more words, or where the context entries are compared along with the one or more words.

In the “generating" step, “based on the comparison” can refer to either “generating” (such that the generating is based on the comparison), to "individual context entries" (such that the individual entries are 1. entries of the plurality of context entries, and 2. are based on the comparison), "the plurality" (such that the plurality is a plurality of context entries, and the plurality is based on the comparison) or "context entries" (immediately before the "based on the comparison" phrase, such that the plurality is a plurality of a set of context entries that are based on the comparison, but the plurality itself [i.e. the at least a portion of the context entries] is not necessarily based on the comparison).

In the “identifying” step, “based on the one or more rank scores” can refer to either “the one or more context entries” (such that the one or more entries are based on the one or more rank scores but the identifying of those entries is not necessarily based on anything in particular) or “identifying” (such that the identifying identifies from among the plurality of context entries, and identifies based on the one or more rank scores).

As per Claim 5:

“based on the one or more rank scores” is fairly clearly meant to refer to “update” but can grammatically refer to any of “ordering”, "plurality of context entries" or "the context stack" as well. Moving "based on the one or more rank scores” to right after “update” (and putting a set of commas around it) should suffice to resolve this issue.

As per Claim 6:

“subsequent words” (recited twice) is ambiguous because it can refer to, at least, words that are subsequent to the words in the “first” utterance (i.e. the utterance in claim 1), or to words that are subsequent to at least one other word in the subsequent utterance (i.e. "internal" to the subsequent utterance, e.g. if the subsequent utterance includes words A, B, and C, then the "subsequent words" can refer to B, to C, to B and C, but not to A).

“based on the updated ordering” in the “identify” step is fairly clearly meant ot refer to "identify" but can also grammatically refer (at least) to "the one or more subsequent words" or “one or more other context entries”.

In the last step, “”based on the one or more subsequent words" can refer to either "determine", "subsequent command or request", or "request" only.

“and the one or more other context entries” can be interpreted as something that the determining/command/request is also based on, or something that is also determined (in addition to “a subsequent command or request based on the one or more subsequent words".

While not among the claims in consideration, the 112 issues pertaining to the withdrawn claims are discussed below to (preferably) avoid issuing an Office Action exclusively based on 112 issues of the non-elected claims if the independent claims were eventually to progress into an allowable form based on elected subject matter, or based on generic subject matter.

As per Claim 9:

“wherein each of the one or more domain agents comprises domain knowledge associated with a particular domain” can be interpreted as where each agent has his/her own knowledge or as where each agent has the same knowledge. Under the former interpretation, "the domain knowledge" in "the domain knowledge comprising" is ambiguous because it can refer to any one of the multiple respective pieces of domain knowledge when there is more than one agent, each of whom have their own domain knowledge which is not necessarily the same as the domain knowledge of any other agent.

As per Claim 10:

“generated by the one or more domain agents” can refer to either “an aggregation” (such that the aggregation is generated by the agent[s]), or "one or more responses" (such that the one or more responses are generated by the agent[s], but the aggregation is not necessarily generated based on anyone in particular).

“based on the command..." can refer to any of "an aggregation", "one or more responses", “generated”, or "one or more domain agents".

“or request” can refer to something that the aggregation/responses/generation/agents is/are "based on" or to something that is alternatively comprised in the response (instead of “an aggregation… based on the command”).

As per Claim 11:

“based on the information related to the license agreement” in the "determine" limitation can refer to (at least) "determine" or "permitted".

As per Claim 12:

“associated with the user (end of line 3) can refer to either “environmental model” only, or to both the cognitive model and the environmental model.

Claim Rejections - 35 USC § 101

2. 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.

Claims 15-17 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claimed invention is directed to a judicial exception (i.e., a law of nature, a natural phenomenon, or an abstract idea) without significantly more. Claim(s) 15-17 is/are directed to an abstract idea. The claim(s) does/do not include additional elements that are sufficient to amount to significantly more than the judicial exception.

As an initial matter, claim 1 is not rejected under Alice because it is directed to a system (i.e. a machine) which "receives a natural language utterance". This is treated as tying any algorithmic manipulations/analyses of data (abstract steps which can be performed manually/mentally by a human) to a physical transformation of physical audio into electrical data. This is because "utterance" necessarily refers to a spoken physical sound and not to a data representation of a sound. For a machine to receive that spoken physical sound, a physical transformation of that sound into data form is necessary, and thus claim 1 is interpreted as "significantly more" than an abstract idea because the abstract idea is "tied to a transformation".

As for claim 15, the requirements for machine implementation are part of the preamble of the claim, and preamble language is not given patentable weight unless the body of the claim refers to that language (in this case it does not). Therefore, since the preamble is not given patentable weight, there is no requirement, in claim 15, for the various steps to be implemented by a machine, and thus the mechanical physical transformation in claim 1 which is "significantly more" than the abstract idea is not a required part of claim 15. More clearly amending the body of the claim to require machine implementation (particularly the “receiving a natural language utterance" step) would (unless future 101 guidance says otherwise) overcome the rejection.

As per claim 15, it is directed to a series of algorithmic data manipulations/analyses that can be performed by a human (mentally or manually using pen and paper), and are thus directed to an abstract idea.

For example, a human can think of or write down context stack information containing context information, listen to (i.e. “receive”) a natural language utterance, mentally or through written calculations analyze the utterance to recognize words in the utterance, and then mentally or manually evaluate the context information and the recognition information to determine a command or request.

Any requirement to implement the abstract steps using a machine or computer is not “significantly more” than the abstract idea because the steps, collectively, can be implemented by a generic computer (which can implement data analysis and

mathematical instructions), and generic computer implementation (as per Alice) is not sufficient to render an unpatentable abstract idea patentable.

Therefore, claim 15 is directed to an abstract idea without "significantly more".

Claims 16 and 17 (as well as withdrawn claims 18-20) are also directed to abstract steps which can be mentally/manually performed by a human, and thus do not contribute "significantly more" to independent claim 15. As per Claim 16, in particular, a human can prompt a user (using hand signals, speech, movements) and can receive non-speech input (e.g. by looking at a user's movements, getting touched by a user) and thus the steps do not necessarily require a machine.

The new 2014 Interim Guidance on Patent Subject Matter Eligibility based on Alice took effect which requires rejection of the claims under 35 U.S.C. 101.

A copy of the guidelines can be found at the following link:
http://www.gpo.gov/fdsys/pkg/FR-2014-12-16/pdf/2014-29414.pdf

The following is a description of certain characteristics of the guidelines which are worth noting. These characteristics are not the only differences between the guidelines and the previous analyses (prior to the guidelines) used to determine eligibility.

Under the new guidelines, it is no longer sufficient to overcome a 101 rejection merely by stating that method steps are performed by a machine/processor/device/etc. (i.e. tying the steps to a machine as per Bilski).

Additionally, the analysis in the Alice guidelines (see flow chart in the guidelines) applies also applies to non-method claims (e.g. systems, devices, apparatus, medium claims), such that if the non-method claims also include functions limited to performing an abstract idea without "significantly more", they are rejected under 101.

Steps/functions in addition to the abstract idea which are not considered "significantly more" include (but are not necessarily limited to) limitations that are "well-understood, routine, and conventional in the field". Steps/functions which are not considered "significantly more" are also referred to as "insignificant extrasolution activity". For example, mere transmission/receipt of the product of an abstract idea would be considered "insignificant extrasolution activity" since it is "well-understood, routine, and conventional" for computer systems to communicate information.

An additional consideration is that the 2014 Interim Eligibility Guidance supersedes MPEP 2016(II)(A), 2016(II)(B), 2106.01, and 2015 (to the extent that the section suggests that "mere human intervention" necessarily results in eligible subject matter).

Claim Rejections - 35 USC § 103

3. 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 of this title, 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.

Claims 1, 3, 7, 15, 17 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Ross et al. (US 2002/0133354), hereafter Ross.

As per Claims 1, 15, Ross suggests **a system (and corresponding method) for processing natural language utterances where recognized words of the natural language utterances alone are insufficient to completely determine one or more commands or requests, the system including one or more processors executing one or more computer program modules which, when executed, cause the one or more processors to:** ("computer system", paragraph 21; "computer program", paragraph 22; "electronic mail application… Print it", paragraphs 40-45; "calendar application… Print it", paragraphs 46-51; "If the sentence is 'print it' however, both grammars are capable of accepting the utterance… make a choice", paragraph 53; where at least the spoken inputs in paragraphs 40-45 and 46-51 are in the English natural language and are thus natural language utterances, where the particular utterance "print it" has words which alone are insufficient to determine what to print [i.e. what command the system is to implement, particularly one of print e-mail or print calendar entry])

generate a context stack comprising context information that corresponds to a plurality of prior utterances (Figure 4; "context list", paragraph 33; "priority and state of the various grammars in the context list", paragraph 34; "most recently accessed speech-enabled application… whether the context for that application is at the top of the context list", paragraph 36; "checking the speech representation against

contexts… starting at top of context list to determine the highest priority context that can process the speech representation", paragraph 37; "open…create… send…print", paragraphs 40-45; "open…create…print", paragraphs 46-51; "when an utterance is recognized, the conversation manager… combines an analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance… utterance is then translated into the appropriate script engine… calls and dispatched", paragraph 31; where at least the existence of multiple allowable commands suggests that the system can receive multiple different commands over time, where the context list can be interpreted as a "stack" since it "vertically" arranges [i.e. ranks] contexts in order of priority including how recently a given context is used, where any one of the contexts in the list can be interpreted as context information which corresponds to the commands it can process which are at least obviously spoken at least once over time [e.g. in an e-mail application it is at least obvious that over time the create and open and send commands are used at least once such that at some point in time those commands were prior utterances to which the e-mail context corresponds to]. Additionally Ross refers to a "remembered context from previous recognitions" [paragraph 31] which more explicitly teaches where contexts can correspond to multiple prior utterances since recognitions are performed on utterances)

receiving a natural language utterance associated with a command or request ("input spoken utterance… is a voice command… determines a context… for the spoken utterance… command… directed to the speech enabled external

application", paragraph 21; "open…create… send…print", paragraphs 40-45; "open…create…print", paragraphs 46-51; where Ross explicitly states that input utterances are commands and the utterances are at least obviously in the English natural language at least in the case of the described e-mail and calendar applications in paragraphs 40-51)

determine one or more words of the natural language utterance by performing speech recognition on the natural language utterance (Figure 1; "convert speech into text strings…include the ViaVoice", paragraph 2; "speech engine interface… speech engine 22… is ViaVoice", paragraph 24; "when an utterance is recognized… analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance… utterance is then translated into the appropriate script engine… calls… dispatched", paragraph 31; "speech representation recognized by the speech engine 22", paragraph 36; "open…create… send…print", paragraphs 40-45; "open…create…print", paragraphs 46-51; where Ross states that the recognition messages are speech representations from speech engine 22 [paragraph 36], where speech engine 22 is ViaVoice [paragraph 24], and where ViaVoice is one of the recognition engines that convert speech into text strings [paragraph 2]. Logically, therefore, the generation of the recognition message is speech recognition which determines words which were spoken in the input utterance, which at least in the "print it" example is a natural language utterance [i.e. the English natural language])

determine the command or request based on the one or more words and the context information (Figure 1; “convert speech into text strings…include the ViaVoice”, paragraph 2; “speech engine interface… speech engine 22… is ViaVoice”, paragraph 24; “when an utterance is recognized, the conversation manager… combines an analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance… utterance is then translated into the appropriate script engine… calls and dispatched”, paragraph 31; “recognition message [speech representation recognized by the speech engine]”, paragraph 36; “selects a context… checking the speech representation against contexts… starting at top of context list… to determine the highest priority context that can process the speech representation… translated according to the selected context… translation to the script engine… to perform the action indicated by the translated utterance”, paragraph 37; “if the sentence is ‘print it’… both grammars are capable… choice… referring to the context list… recency of access… in priority order”, paragraph 53; “resolves the ambiguity… top priority context… directs a translation… indicated by the top priority context”, paragraph 59; where at least one context [i.e. piece of “context information”] is used to resolve the ambiguous phrase “print it” to determine exactly what to print and to send an appropriate command accordingly).

As per Claim 3, 17, Ross teaches **wherein the context stack includes a plurality of context entries, and wherein the one or more processors are further**

caused to: identify, from among the plurality of context entries, one or more context entries that correspond to the one or more words, wherein the context information includes the one or more context entries (Figure 4; Figure 1; "convert speech into text strings…include the ViaVoice", paragraph 2; "speech engine interface… speech engine 22… is ViaVoice", paragraph 24; "when an utterance is recognized, the conversation manager… combines an analysis of the utterance with information on the state of the desktop and remembered context from previous recognitions to determine the intended target of the utterance… utterance is then translated into the appropriate script engine… calls and dispatched", paragraph 31; "recognition message [speech representation recognized by the speech engine]", paragraph 36; "selects a context… checking the speech representation against contexts… starting at top of context list… to determine the highest priority context that can process the speech representation… translated according to the selected context… translation to the script engine… to perform the action indicated by the translated utterance", paragraph 37; "if the sentence is 'print it'… both grammars are capable… choice… referring to the context list… recency of access… in priority order", paragraph 53; "resolves the ambiguity… top priority context… directs a translation… indicated by the top priority context", paragraph 59; where the context list/stack includes multiple contexts, which can alternatively collectively be interpreted as context information since it is at least obvious for systems prepared to process multiple commands in different contexts to actually receive those commands over a period of continuous use [such that the context information corresponds to the plurality of input commands over time],

where each context can alternatively be interpreted as individual context entries included in the collective context information [i.e. those contexts previously used to recognize various input utterances which the contexts were designed to process], where, for example, in the print it example, a particular context [e.g. e-mail or calendar application] is identified as a context that can process the utterance [i.e. that it corresponds to the one or more words “print it” in the utterance], or alternatively the identified context can be identified according to priority and “happen” to correspond to the words “print it” [by being a grammar that can process the command “print it”] and also meet the limitations of the claim that way)

As per Claim 7, Ross teaches **wherein identifying the one or more context entries comprises identifying, from among the plurality of context entries, the one or more context entries that most closely correspond to the one or more words** (“if the sentence is ‘print it’… both grammars are capable… choice… referring to the context list… recency of access… in priority order”, paragraph 53; “resolves the ambiguity… top priority context… directs a translation… indicated by the top priority context”, paragraph 59; “electronic mail application”, paragraphs 40-45; “calendar application”, paragraphs 46-51; where the identified contexts in the calendar/e-mail example are, among other things, those contexts/applications that can handle the phrase “print it” in an input phrase containing the words print it [which logically “corresponds” the contexts/applications and the words in the spoken utterance of “print it”])

3. Claims 2, 16, are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Ross, as applied to Claims 1 and 15, above, and further in view of Dominach et al. (US 2004/0172258), hereafter Dominach.

As per Claim 2, 16, Ross does not, but Dominach (in combination with Ross) teaches/suggests **wherein the one or more processors are further caused to: prompt a user associated with the natural language utterance for additional information or confirmation regarding the command or request, and receive a non-speech input regarding the additional information or confirmation in response to the prompt, wherein the command or request is determined further based on the non-speech input** ("speech input is received… user speaking into a microphone… speech is not recognized unambiguously, then a list of possible alternatives is determined… presented to a user… selects one of the alternatives, and the selected alternative is provided to the application as input", paragraph 30; "present to the end user the recognition alternatives… selection input… keypad input, stylus input", paragraph 20; where the combination is where the speech recognition function in Ross further comprises a function described in Dominach which allows the user to clarify what he/she said when the system determines the input speech is ambiguous by presenting a list of alternatives to the user, where presentation of alternatives "prompts" the user to select one so that the system can properly understand what the user wanted, and where in the combination the disambiguation input produces a recognition

result which as described in Ross, is used to determine what command to execute. Paragraph 20 also teaches where selections from the user can be via keypad, stylus, etc. and therefore at least suggests where the disambiguating selection is via non-speech input).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine prior art elements according to known methods because the prior art teaches each element claimed except for the lack of combination of elements in a single prior art reference. One of ordinary skill in the art could have combined the prior art elements according to known methods (by adding the disambiguation function in Dominach to the speech recognition in Ross) and in combination each element performs the same function as it does separately (the disambiguation is distinct from mapping audio to candidate recognition result data and occurs after a series of mappings are made to produce the ambiguous candidates and does not interfere with the command translation in Ross which occurs after a desired recognition result is obtained). The combination is the predictable results of a speech recognition system which processes natural language utterances and activates commands (as per Ross) and which has a disambiguation function to deal with situations where the system cannot immediately determine a single recognition result for an input speech utterance (as per Dominach).

Allowable Subject Matter

4. The following is a statement of reasons for the indication of allowable subject matter:

As per Claim 14:

As described in the Notice of Allowability mailed 11/1/10 in Application 12/617506, Mumick et al. (US 2003/0046346) teaches synchronizing plural browsers on a plurality of mobile devices including a state manager that stores navigation histories in a data store so that a user can switch from a visual browser on one device to a voice browser on a second device without losing navigation state, but synchronization of navigation state is not the claimed synchronization of context across multiple devices (page 2).

While the claim language at issue is not identical, the limitation in claim 14 is directed to a similar concept which is also more narrow in that not only is context synchronized, but context stacks of distinct devices are synchronized.

As per Claims 4 and 18:

The prior art of record does not teach the combination of all limitations of claims 4 and 18 with all of the limitations in claims 1 and 15.

The prior art teaches scoring contexts and using top contexts (implying/suggesting a rank among contexts), but does not specifically describe where the scoring/ranking of contexts is based on comparing context entries in a context stack to one or more words determined from a received natural language utterance.

2004/0193420 “voice query language can be sensitive to the contents of the context stack… following-on question or command can be asked using an abbreviated grammar”, paragraph 153; “parser may determine a context for an utterance by applying prior probabilities or fuzzy possibilities to keyword matching... and context stack contents... parser dynamically receives keyword and associated prior probability or fuzzy possibility updates… Based on these probabilities or possibilities the possible contexts are scored and the top one or few are used for further processing”, paragraph 160; “domain agent… evaluate the results of the one or more queries as they arrive… score the relevance of the results based on results already received, the context… history of the dialog…part of the dialog history is maintained in a context stack… weight of each context for the scoring may be based on the relevance of one context to another and the age of the contexts”, paragraph 170;

The prior art also teaches comparing utterances to contexts, but appears to teach this with "context" in the sense of preceding/following words and not context entries in a context stack.

5233681 “generating a next context score for each next context candidate word in the vocabulary of candidate words. Each next context score comprises an estimate of the closeness of a match between a model of the next context candidate word and the second portion of the sequence of coded representations of the utterance”

5680511 “Based on the comparison of the context words with the passage words, the method determines a probability signal or score that can indicate the likelihood that a choice word is the proper choice for the current word"; "system... can

compare the words... with the context words... and determine the likelihood that the word... represents the current word... currently being recognized"

Double Patenting

5. 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 claims at issue 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); and *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 a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit http://www.uspto.gov/forms/. The filing date of the application will determine what form 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 http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

6. Claims 1-20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 8,849,652, hereafter Parent Patent. Although the claims at issue are not identical, they are not patentably distinct from each other because the claims of this application are broader claims which contain the limitations in the Patent's claims.

As per Claims 1, 14, and 15, claim 1 of the Parent Patent teaches the claimed limitations.

As per Claims 2 and 16, claim 2 of the Parent Patent teaches the claimed limitations.

As per Claims 3 and 17, claim 3 of the parent patent teaches the claimed limitations.

As per Claims 4 and 18, claim 4 of the parent patent teaches the claimed limitations.

As per Claim 5, claim 5 of the parent patent teaches the claimed limitations.

As per Claim 6, claim 6 of the parent patent teaches the claimed limitations.

As per Claim 7, claim 7 of the parent patent teaches the claimed limitations.

As per Claims 8 and 19, claim 8 of the parent patent teaches the claimed limitations.

As per Claim 9, claim 9 of the parent patent teaches the claimed limitations.

As per Claim 10, claim 10 of the parent patent teaches the claimed limitations.

As per Claim 11, claim 11 of the parent patent teaches the claimed limitations.

As per Claim 12, claim 12 of the parent patent teaches the claimed limitations.

As per Claims 13 and 20, claim 13 of the parent patent teaches the claimed limitations.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC YEN whose telephone number is (571)272-4249. The examiner can normally be reached on M-F 7:30-4:00.

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

Information regarding the status of 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.

EY 11/5/15
/ERIC YEN/
Primary Examiner, Art Unit 2658

Notice of References Cited	Application/Control No. 14/467,641	Applicant(s)/Patent Under Reexamination WEIDER ET AL.	
	Examiner ERIC YEN	Art Unit 2658	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0133354	09-2002	Ross et al.	704/275
*	B	US-2004/0172258	09-2004	Dominach et al.	704/277
*	C	US-2005/0049867	03-2005	Deane, Paul	704/245
*	D	US-2005/0038822	02-2005	Bijaoui et al.	707/200
*	E	US-2004/0193420	09-2004	Kennewick et al.	704/257
*	F	US-2003/0233230	12-2003	Ammicht et al.	704/235
*	G	US-2003/0046346	03-2003	Mumick et al.	709/205
*	H	US-2002/0135618	09-2002	Maes et al.	345/767
*	I	US-2002/0087326	07-2002	Lee et al.	704/270.1
*	J	US-6,513,005	01-2003	Qin et al.	704/254
*	K	US-6,067,520	05-2000	Lee, Lin-Shan	704/270
*	L	US-5,233,681	08-1993	Bahl et al.	704/251
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	Art Unit
	ERIC YEN	2658

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

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

CLAIM		DATE								
Final	Original	07/16/2015	11/05/2015							
	1	÷	✓							
	2	÷	✓							
	3	÷	✓							
	4	÷	✓							
	5	÷	✓							
	6	÷	✓							
	7	÷	✓							
	8	÷	N							
	9	÷	N							
	10	÷	N							
	11	÷	N							
	12	÷	N							
	13	÷	N							
	14	÷	✓							
	15	÷	✓							
	16	÷	✓							
	17	÷	✓							
	18	÷	✓							
	19	÷	N							
	20	÷	N							

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20020133354" "20040172258").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 17:57
L2	10	("20030046346" "20040193420" "5233681" "6513005" "20050038822" "20050049867" "6067520" "20020087326" "20020135618" "20030233230").pn. not L1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 18:00
S74	1043	(G10L2015/$.cpc. G10L15/$.cpc.) and G06F17/27$.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 12:22
S75	16	(G10L2015/$.cpc. G10L15/$.cpc.) and G06F17/27$.cpc. and (context adj stack$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 12:22
S76	92	(G10L2015/$.cpc. G10L15/$.cpc.) and (context adj stack$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 12:22
S77	79	(G10L2015/$.cpc. G10L15/$.cpc.) and ((previous$2 past) adj2 contexts)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 12:55
S78	1	"20030233230".pn. and (utterance$1 near5 context$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 13:01
S79	1	"20030233230".pn. and (context$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 13:01
S80	41	(G10L2015/$.cpc. G10L15/$.cpc.) and (context adj stack).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 13:06
S81	1	(G10L2015/$.cpc. G10L15/$.cpc.) and ((context adj stack) near5 utterances).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 13:07

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S82	4	(G10L2015/$.cpc. G10L15/$.cpc.) and ((context adj stack) with utterances).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 13:07
S83	1	"20020133354".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 13:30
S84	0	"20020133354".pn. and rank$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:10
S85	0	"20020133354".pn. and scor$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:10
S86	1	"20020133354".pn. and priorit$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:10
S87	9	(context near5 (rank adj score$1)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:11
S88	357	(context near5 (rank$4)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:13
S89	3	(context near5 (rank$4)).clm. and voicebox.as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:13
S90	1	"8447607".pn. and rank$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:15
S91	1	14/467641 and rank$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:15
S92	1	14/467641 and rank$4 and (scor$4 near5 context$1)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:16
S93	1	"20020133354".pn. and context$1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:17

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S94	0	(G10L15/$.cpc. G10L2015/$.cpc.) near5 (rank$4 near5 contexts)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:47
S95	0	(G10L15/$.cpc. G10L2015/$.cpc. G06F17/27$.cpc. G06F17/28$.cpc.) near5 (rank$4 near5 contexts)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:47
S96	29	(G10L15/$.cpc. G10L2015/$.cpc. G06F17/27$.cpc. G06F17/28$.cpc.) and (rank$4 near5 contexts)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:48
S97	18	(G10L15/$.cpc. G10L2015/$.cpc.) and (rank$4 near5 contexts)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:53
S98	150	(G10L15/$.cpc. G10L2015/$.cpc.) and ((scor$4 confidence probabilit$4 likelihood$1) near5 contexts)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:55
S99	49	(G10L15/$.cpc. G10L2015/$.cpc.) and (((scor$4 confidence probabilit$4 likelihood$1) near5 contexts) same ((match$4 compar$4) with context$1 with (word$1 utterance$1 speech voice)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 14:59
S100	131	(G10L15/$.cpc. G10L2015/$.cpc.) and ((compar$4 match$4) near5 context$1 near5 (word$1))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 15:07
S101	10	(G10L15/$.cpc. G10L2015/$.cpc.) and ((compar$4 match$4) near5 context$1 near5 (word$1) near5 scor$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 15:07
S102	26	(G10L15/$.cpc. G10L2015/$.cpc.) and ((compar$4 match$4) near5 context$1 near5 (word$1) near5 (scor$4 confidence probabilit$4 likelihood$1 rank$4))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 15:08
S103	1	"5233681".pn. and context$1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 15:10
S104	1	"8447607".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 15:56
S105	62	11/212693	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 16:07

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S106	3	13/898045	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2015/11/05 16:07

11/5/2015 6:03:11 PM
C:\Users\eyen\Documents\EAST\Workspaces\14467641.wsp

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	Art Unit
	ERIC YEN	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L 15/18, 15/1815, 15/1822, 15/183, 15/197, 15/20, 15/2, 2015/223, 2015/228, 15/24	11/5/15	EY

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Search (attached)	11/5/15	EY

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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Docket No.: N0484.71162US04
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Chris Weider
Application No.:	14/467,641
Confirmation No.:	8640
Filed:	August 25, 2014
For:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
Examiner:	E. L. Yen
Art Unit:	2658

Certificate of Electronic Filing Under 37 CFR 1.8
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).
Dated: 9/21/15 Signature: Eileen MacKenzie)

RESPONSE TO ELECTION OF SPECIES REQUIREMENT

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

Dear Sir:

In response to the Election of Species Requirement set forth in the Office Action mailed July 22, 2015, Species I, which includes claims 3-7, 17, and 18 is hereby elected. In doing so, however, Applicant does not concede that the characterization of the claims set forth in the Office Action, or the characterization of alleged differences between the identified groups of claims, is accurate. In addition, the Election Requirement states that claims 1, 2, 14, and 16 are generic claims that will be examined with Species I.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 23/2825 under Docket No. N0484.71162US04, from which the undersigned is authorized to draw.

Dated: September 21, 2015

Respectfully submitted,

By_____

Daniel T. Wehner, Ph.D.
Registration No.: 63,480
WOLF, GREENFIELD & SACKS, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2206
617.646.8000

Electronic Acknowledgement Receipt

EFS ID:	23559254
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	91337
Filer:	Daniel T. Wehner/Eileen MacKenzie
Filer Authorized By:	Daniel T. Wehner
Attorney Docket Number:	N0484.71162US04
Receipt Date:	21-SEP-2015
Filing Date:	25-AUG-2014
Time Stamp:	19:24:22
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	Miscellaneous Incoming Letter	N048471162US04-TRN-DTW.PDF	59039 4cead230b1ff8a085de2cd28ce4fac06d479ebe6	no	1

Warnings:	
Information:	

2	Response to Election / Restriction Filed	N048471162US04-ERRR-DTW.PDF	56998 8e3a66f437f0d2df1c570e34b8372a83ee2b4248	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	116037	

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

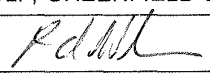
USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)			
		Application Number	14/467,641-Conf. #8640
		Filing Date	August 25, 2014
		First Named Inventor	Chris Weider
		Art Unit	2658
		Examiner Name	E. L. Yen
Total Number of Pages in This Submission		Attorney Docket Number	N0484.71162US04

ENCLOSURES *(Check all that apply)*

☐ Fee Transmittal Form	☐ Drawing(s)	☐ After Allowance Communication to TC
☐ Fee Attached	☐ Licensing-related Papers	☐ Appeal Communication to Board of Appeals and Interferences
☐ Amendment/Reply	☐ Petition	☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
☐ After Final	☐ Petition to Convert to a Provisional Application	☐ Proprietary Information
☐ Affidavits/declaration(s)	☐ Power of Attorney, Revocation Change of Correspondence Address	☐ Status Letter
☐ Extension of Time Request	☐ Terminal Disclaimer	☒ Other Enclosure(s) (please Identify below):
☐ Express Abandonment Request	☐ Request for Refund	RESPONSE TO ELECTION OF SPECIES REQUIREMENT
☐ Information Disclosure Statement	☐ CD, Number of CD(s) ____	
☐ Certified Copy of Priority Document(s)	☐ Landscape Table on CD	
☐ Reply to Missing Parts/ Incomplete Application	Remarks	
☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature			
Printed name	Daniel T. Wehner, Ph.D.		
Date	9/21/15	Reg. No.	63,480

Certificate of Electronic Filing Under 37 CFR 1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: 9/21/15 Signature: 

4275521.1

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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04	8640

91337 7590 07/22/2015

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

EXAMINER	
YEN, ERIC L	

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
07/22/2015	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):

Patents_eOfficeAction@wolfgreenfield.com
N0484_eOfficeAction@WolfGreenfield.com
IP.Inbox@nuance.com

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Office Action Summary	Application No. 14/467,641	Applicant(s) WEIDER ET AL.	
	Examiner ERIC YEN	Art Unit 2658	AIA (First Inventor to File) 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 2 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 _____.

☐ 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) *1-20* 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) _____ is/are rejected.

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

9)☒ Claim(s) *1-20* 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 *8/25/14* 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: _____.

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DETAILED ACTION

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

Election/Restrictions

2. This application contains claims directed to the following patentably distinct species.

Species I: Claims 3-7, 17-18, directed to identifying context entries of the context stack and recognition based on the context entries. (CPC G10L 2015/228)

Species II: Claims 8-11, 19, directed to using domain agents to produce responses. (G10L15/22)

Species III: Claims 12-13, 20, directed to using cognitive/environmental models. (CPC G10L 15/07, G10L 15/20)

The species are independent or distinct because they do not overlap in scope (each species is directed to their own species-specific features, identified above), and can have a materially different design, mode of operation, function, or effect (each of the features identified above have their own functions/modes/effects and are not required by two of the 3 species). In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, or a single grouping of patentably indistinct species, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 2, 14, 15, 16, generic.

There is a search and/or examination burden for the patentably distinct species as set forth above because at least the following reason(s) apply:

As indicated in the Species definitions above, each of the Species are directed to their own separate classifications. Additionally each of the Species require their own respective search terms.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected species or grouping of patentably indistinct species**, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species or grouping of patentably indistinct species.

Should applicant traverse on the ground that the species, or groupings of patentably indistinct species from which election is required, are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing them

to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 or pre-AIA 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC YEN whose telephone number is (571)272-4249. The examiner can normally be reached on M-F 7:30-4:00.

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

Information regarding the status of 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.

EY 7/16/15
/ERIC YEN/
Primary Examiner, Art Unit 2658

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0433849	*To be Determined*
	Applicant(s)	
	Chris WEIDER *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1A	4,430,669	02/07/1984	Cheung	358	122	
	1B	4,821,027	04/11/1989	Mallory *et al.*	340	521	
	1C	4,829,423	05/09/1989	Tennant *et al.*	364	200	
	1D	4,910,784	03/20/1990	Doddington *et al.*	381	43	
	1E	5,027,406	06/25/1991	Roberts *et al.*	381	43	
	1F	5,155,743	10/13/1992	Jacobs	375	28	
	1G	5,164,904	11/17/1992	Sumner	364	436	
	1H	5,208,748	05/04/1993	Flores *et al.*	364	419	
	1I	5,274,560	12/28/1993	LaRue	364	444	
	1J	5,357,596	10/18/1994	Takebayashi *et al.*	395	2.84	
	1K	5,377,350	12/27/1994	Skinner	395	600	
	1L	5,386,556	01/31/1995	Hedin et al.	395	600	
	1M	5,424,947	06/13/1995	Nagao et al.	364	419.08	
	1N	5,471,318	11/28/1995	Ahuja et al.	358	400	
	1O	5,475,733	12/12/1995	Eisdorfer et al.	379	52	
	1P	5,488,652	01/30/1996	Bielby *et al.*	379	88	
	1Q	5,499,289	03/12/1996	Bruno et al.	379	220	
	1R	5,500,920	03/19/1996	Kupiec	395	2.79	
	1S	5,517,560	05/14/1996	Greenspan	379	114	
	1T	5,533,108	07/02/1996	Harris et al.	379	201	
	1U	5,537,436	07/16/1996	Bottoms et al.	375	222	
	1V	5,539,744	07/23/1996	Chu et al.	370	60	
	1W	5,557,667	09/17/1996	Bruno et al.	379	201	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO
	1X	1 320 043 A2	06/18/2003	Europe				
	1Y	1 646 037	04/12/2006	Europe				
	1Z	WO 99/46763	09/16/1999	International				
	1AA	WO 00/21232	04/13/2000	International				
	1BB	WO 00/46792	08/10/2000	International				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	1CC	REUTERS, "IBM to Enable Honda Drivers to Talk to Cars", Charles Schwab & Co., Inc., July 28, 2002, 1 page.
	1DD	LIN, Bor-shen, *et al.*, "A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History", ASRU'99, 1999, 4 pages.

EXAMINER	DATE CONSIDERED
/E. Yen/	07/16/2015

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

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2A	5,559,864	09/24/1996	Kennedy, Jr.	379	59	
	2B	5,563,937	10/08/1996	Bruno et al.	379	201	
	2C	5,577,165	11/19/1996	Takebayashi et al.	395	2.84	
	2D	5,590,039	12/31/1996	Ikeda et al.	395	759	
	2E	5,608,635	03/04/1997	Tamai	364	449.3	
	2F	5,617,407	04/01/1997	Bareis	369	275.3	
	2G	5,633,922	05/27/1997	August et al.	379	220	
	2H	5,652,570	07/29/1997	Lepkofker	340	573	
	2I	5,675,629	10/07/1997	Raffel et al.	379	58	
	2J	5,696,965	12/09/1997	Dedrick	395	610	
	2K	5,708,422	01/13/1998	Blonder et al.	340	825.34	
	2L	5,721,938	02/24/1998	Stuckey	395	754	
	2M	5,722,084	02/24/1998	Chakrin et al.	455	551	
	2N	5,740,256	04/14/1998	Castello Da Costa *et al.*	361	94.7	
	2O	5,742,763	04/21/1998	Jones	395	200.3	
	2P	5,748,841	05/05/1998	Morin *et al.*	395	2.66	
	2Q	5,748,974	05/05/1998	Johnson	395	759	
	2R	5,752,052	05/12/1998	Richardson et al.	395	759	
	2S	5,754,784	05/19/1998	Garland et al.	395	200.49	
	2T	5,761,631	06/02/1998	Nasukawa	704	9	
	2U	5,774,841	06/30/1998	Salazar *et al.*	704	225	
	2V	5,774,859	06/30/1998	Houser *et al.*	704	275	
	2W	5,794,050	08/11/1998	Dahlgren et al.	395	708	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO
	2X	WO 01/78065	10/18/2001	International				
	2Y	WO 2004/072954	08/26/2004	International				
	2Z	WO 2007/019318	02/15/2007	International				
	2AA	WO 2007/021587	02/22/2007	International				
	2BB	WO 2007/027546	03/08/2007	International				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	2CC	KUHN, Thomas, *et al.*, "Hybrid In-Car Speech Recognition for Mobile Multimedia Applications", Vehicular Technology Conference, IEEE, July 1999, pages 2009-2013.
	2DD	BELVIN, Robert, *et al.*, "Development of the HRL Route Navigation Dialogue System", Proceedings of the First International Conference on Human Language Technology Research, San Diego, 2001, pages 1-5.

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U.S. PATENT DOCUMENTS

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	3A	5,794,196	08/11/1998	Yegnanarayanan *et al.*	704	255	
	3B	5,797,112	08/18/1998	Komatsu *et al.*	701	201	
	3C	5,799,276	08/25/1998	Komissarchik *et al.*	704	251	
	3D	5,802,510	09/01/1998	Jones	707	2	
	3E	5,832,221	11/03/1998	Jones	375	200.36	
	3F	5,839,107	11/17/1998	Gupta *et al.*	704	270	
	3G	5,848,396	12/08/1998	Gerace	705	10	
	3H	5,855,000	12/29/1998	Waibel *et al.*	704	235	
	3I	5,867,817	02/02/1999	Catallo *et al.*	704	255	
	3J	5,878,385	03/02/1999	Bralich *et al.*	704	9	
	3K	5,878,386	03/02/1999	Coughlin	704	10	
	3L	5,892,813	04/06/1999	Morin *et al.*	379	88.01	
	3M	5,892,900	04/06/1999	Ginter *et al.*	395	186	
	3N	5,895,464	04/20/1999	Bhandari *et al.*	707	3	
	3O	5,895,466	04/20/1999	Goldberg et al.	707	5	
	3P	5,897,613	04/27/1999	Chan	704	210	
	3Q	5,902,347	05/11/1999	Backman *et al.*	701	200	
	3R	5,911,120	06/08/1999	Jarett et al.	455	417	
	3S	5,918,222	06/29/1999	Fukui *et al.*	707	1	
	3T	5,926,784	07/20/1999	Richardson et al.	704	9	
	3U	5,933,822	08/03/1999	Braden-Harder et al.	707	5	
	3V	5,950,167	09/07/1999	Yaker	704	275	
	3W	5,953,393	09/14/1999	Culbreth et al.	379	88.25	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO
	3X	WO 2007/027989	03/08/2007	International				
	3Y	WO 2008/098039	08/14/2008	International				
	3Z	WO 2008/118195	10/02/2008	International				
	3AA	WO 2009/075912	06/18/2009	International				
	3BB	WO 2009/145796	12/03/2009	International				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	3CC	LIND, R., *et al.*, "The Network Vehicle—A Glimpse into the Future of Mobile Multi-Media", IEEE Aerosp. Electron. Systems Magazine, Volume 14, No. 9, September 1999, pages 27-32.
	3DD	ZHAO, Yilin, "Telematics: Safe and Fun Driving", IEEE Intelligent Systems, Volume 17, Issue 1, 2002, pages 10-14.

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4A	5,960,397	09/28/1999	Rahim	704	244	
	4B	5,960,399	09/28/1999	Barclay *et al.*	704	270	
	4C	5,960,447	09/28/1999	Holt *et al.*	707	500	
	4D	5,963,894	10/05/1999	Richardson et al.	704	9	
	4E	5,963,940	10/05/1999	Liddy et al.	707	5	
	4F	5,987,404	11/16/1999	Della Pietra et al.	704	9	
	4G	5,991,721	11/23/1999	Asano et al.	704	257	
	4H	5,995,119	11/30/1999	Cosatto et al.	345	473	
	4I	5,995,928	11/30/1999	Nguyen *et al.*	704	251	
	4J	6,009,382	12/28/1999	Martino et al.	704	1	
	4K	6,014,559	01/11/2000	Amin	455	413	
	4L	6,018,708	01/25/2000	Dahan *et al.*	704	244	
	4M	6,021,384	02/01/2000	Gorin et al.	704	1	
	4N	6,028,514	02/22/2000	Lemelson *et al.*	340	539	
	4O	6,035,267	03/07/2000	Watanabe *et al.*	704	1	
	4P	6,044,347	03/28/2000	Abella et al.	704	272	
	4Q	6,049,602	04/11/2000	Foladare et al.	379	265	
	4R	6,049,607	04/11/2000	Marash *et al.*	379	410	
	4S	6,058,187	05/02/2000	Chen	380	21	
	4T	6,067,513	05/23/2000	Ishimitsu	704	233	
	4U	6,076,059	06/13/2000	Glickman *et al.*	704	260	
	4V	6,078,886	06/20/2000	Dragosh et al.	704	270	
	4W	6,081,774	06/27/2000	De Hita et al.	704	9	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO
	4X	WO 2010/096752	08/26/2010	International				
	4Y	2006-146881	06/08/2006	Japan				
	4Z	2008-027454	02/07/2008	Japan				
	4AA	2008-139928	06/19/2008	Japan				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	4BB	CHAI *et al.*, "MIND: A Semantics-Based Multimodal Interpretation Framework for Conversational System", Proceedings of the International CLASS Workshop on Natural, Intelligent and Effective Interaction in Multimodal Dialogue Systems, June 2002, pages 37-46.
	4CC	CHEYER *et al.*, "Multimodal Maps: An Agent-Based Approach", International Conference on Cooperative Multimodal Communication (CMC/95), May 24-26, 1995, pages 111-121.
	4DD	ELIO *et al.*, "On Abstract Task Models and Conversation Policies" in Workshop on Specifying and Implementing Conversation Policies, Autonomous Agents '99, Seattle, 1999, 10 pages.

EXAMINER	DATE CONSIDERED
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5A	6,085,186	07/04/2000	Christianson *et al.*	707	3	
	5B	6,101,241	08/08/2000	Boyce et al.	379	88.01	
	5C	6,108,631	08/22/2000	Ruhl	704	270	
	5D	6,119,087	09/12/2000	Kuhn et al.	704	270	
	5E	6,122,613	09/19/2000	Baker	704	235	
	5F	6,134,235	10/17/2000	Goldman et al.	370	352	
	5G	6,144,667	11/07/2000	Doshi et al.	370	401	
	5H	6,144,938	11/07/2000	Surace *et al.*	704	257	
	5I	6,154,526	11/28/2000	Dahlke *et al.*	379	88.03	
	5J	6,160,883	12/12/2000	Jackson et al.	379	230	
	5K	6,167,377	12/26/2000	Gillick *et al.*	704	240	
	5L	6,173,266	01/09/2001	Marx *et al.*	704	270	
	5M	6,173,279	01/09/2001	Levin et al.	707	5	
	5N	6,175,858	01/16/2001	Bulfer *et al.*	709	206	
	5O	6,185,535	02/06/2001	Hedin *et al.*	704	270	
	5P	6,188,982	02/13/2001	Chiang	704	256	
	5Q	6,192,110	02/20/2001	Abella *et al.*	379	88.01	
	5R	6,192,338	02/20/2001	Haszto *et al.*	704	257	
	5S	6,195,634	02/27/2001	Dudemaine *et al.*	704	231	
	5T	6,195,651	02/27/2001	Handel *et al.*	707	2	
	5U	6,199,043	03/06/2001	Happ	704	272	
	5V	6,208,964	03/27/2001	Sabourin	704	244	
	5W	6,208,972	03/27/2001	Grant *et al.*	704	275	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	5X	TURUNEN, "Adaptive Interaction Methods in Speech User Interfaces", Conference on Human Factors in Computing Systems, Seattle, Washington, 2001, pages 91-92.
	5Y	MAO, Mark Z., "Automatic Training Set Segmentation for Multi-Pass Speech Recognition", Department of Electrical Engineering, Stanford University, CA, copyright 2005, IEEE, pages I-685 to I-688.
	5Z	VANHOUCKE, Vincent, "Confidence Scoring and Rejection Using Multi-Pass Speech Recognition", Nuance Communications, Menlo Park, CA, 2005, 4 pages.

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	6B	6,219,643	04/17/2001	Cohen *et al.*	704	257	
	6C	6,226,612	05/01/2001	Srenger *et al.*	704	256	
	6D	6,233,556	05/15/2001	Teunen *et al.*	704	250	
	6E	6,233,559	05/15/2001	Balakrishnan	704	275	
	6F	6,233,561	05/15/2001	Junqua *et al.*	704	277	
	6G	6,236,968	05/22/2001	Kanevsky *et al.*	704	275	
	6H	6,246,981	06/12/2001	Papineni *et al.*	704	235	
	6I	6,246,990	06/12/2001	Happ	704	275	
	6J	6,266,636	07/24/2001	Kosaka *et al.*	704	244	
	6K	6,269,336	07/31/2001	Ladd *et al.*	704	270	
	6L	6,272,455	08/07/2001	Hoshen *et al.*	704	1	
	6M	6,275,231	08/14/2001	Obradovich	345	349	
	6N	6,278,377	08/21/2001	DeLine *et al.*	340	815.4	
	6O	6,278,968	08/21/2001	Franz *et al.*	704	3	
	6P	6,288,319	09/11/2001	Catona	84	609	
	6Q	6,292,767	09/18/2001	Jackson *et al.*	704	1	
	6R	6,301,560	10/09/2001	Masters	704	251	
	6S	6,308,151	10/23/2001	Smith	704	235	
	6T	6,314,402	11/06/2001	Monaco et al.	704	275	
	6U	6,321,196	11/20/2001	Franceschi	704	243	
	6V	6,356,869	03/12/2002	Chapados *et al.*	704	275	
	6W	6,362,748	03/26/2002	Huang	340	901	

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	6X	WENG, Fuliang, *et al.*, "Efficient Lattice Representation and Generation", Speech Technology and Research Laboratory, SRI International, Menlo Park, CA, 1998, 4 pages.
	6Y	EL MELIANI *et al.*, "A Syllabic-Filler-Based Continuous Speech Recognizer for Unlimited Vocabulary", Canadian Conference on Electrical and Computer Engineering, Volume 2, September 5-8, 1995, pages 1007-1010.

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	7A	6,366,882	04/02/2002	Bijl *et al.*	704	235	
	7B	6,366,886	04/02/2002	Dragosh et al.	704	270.1	
	7C	6,374,214	04/16/2002	Friedland *et al.*	704	235	
	7D	6,377,913	04/23/2002	Coffman *et al.*	704	8	
	7E	6,381,535	04/30/2002	Durocher *et al.*	701	202	
	7F	6,385,596	05/07/2002	Wiser *et al.*	705	51	
	7G	6,385,646	05/07/2002	Brown et al.	709	217	
	7H	6,393,403	05/21/2002	Majaniemi	704	275	
	7I	6,393,428	05/21/2002	Miller et al.	707	102	
	7J	6,397,181	05/28/2002	Li *et al.*	704	256	
	7K	6,404,878	06/11/2002	Jackson et al.	379	221.01	
	7L	6,405,170	06/11/2002	Phillips *et al.*	704	270	
	7M	6,408,272	06/18/2002	White *et al.*	704	270.1	
	7N	6,411,810	06/25/2002	Maxemchuk	455	453	
	7O	6,411,893	06/25/2002	Ruhl	701	207	
	7P	6,415,257	07/02/2002	Junqua *et al.*	704	275	
	7Q	6,418,210	07/09/2002	Sayko	379	142.15	
	7R	6,420,975	07/16/2002	DeLine *et al.*	340	815.4	
	7S	6,429,813	08/06/2002	Feigen	342	357.13	
	7T	6,430,285	08/06/2002	Bauer et al.	379	265.01	
	7U	6,430,531	08/06/2002	Polish	704	257	
	7V	6,434,523	08/13/2002	Monaco	704	257	
	7W	6,434,524	08/13/2002	Weber	704	257	

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	7X	ARRINGTON, Michael, "Google Redefines GPS Navigation Landscape: Google Maps Navigation for Android 2.0", TechCrunch, printed from the Internet <http://www.techcrunch.com/2009/10/28/google-redefines-car-gps-navigation-google-maps-navigation-android/>, October 28, 2009, 4 pages.
	7Y	BAZZI, Issam *et al.*, "Heterogeneous Lexical Units for Automatic Speech Recognition: Preliminary Investigations", Processing of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Volume 3, June 5-9, 2000, XP010507574, pages 1257-1260.

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	8A	6,434,529	08/13/2002	Walker *et al.*	704	275	
	8B	6,442,522	08/27/2002	Carberry et al.	704	257	
	8C	6,446,114	09/03/2002	Bulfer et al.	709	206	
	8D	6,453,153	09/17/2002	Bowker et al.	455	67.4	
	8E	6,453,292	09/17/2002	Ramaswamy et al.	704	235	
	8F	6,456,711	09/24/2002	Cheung et al.	379	265.09	
	8G	6,456,974	09/24/2002	Baker *et al.*	704	270.1	
	8H	6,466,654	10/15/2002	Cooper *et al.*	379	88.01	
	8I	6,466,899	10/15/2002	Yano *et al.*	704	1	
	8J	6,470,315	10/22/2002	Netsch *et al.*	704	256	
	8K	6,487,494	11/26/2002	Odinak *et al.*	701	202	
	8L	6,487,495	11/26/2005	Gale *et al.*	701	209	
	8M	6,498,797	12/24/2002	Anerousis et al.	370	522	
	8N	6,499,013	12/24/2002	Weber	704	257	
	8O	6,501,833	12/31/2002	Phillips *et al.*	379	88.07	
	8P	6,501,834	12/31/2002	Milewski et al.	379	93.24	
	8Q	6,505,155	01/07/2003	Vanbuskirk *et al.*	704	246	
	8R	6,510,417	01/21/2003	Woods *et al.*	704	275	
	8S	6,513,006	01/28/2003	Howard *et al.*	704	257	
	8T	6,522,746	02/18/2003	Marchok *et al.*	379	406.03	
	8U	6,523,061	02/18/2003	Halverson et al.	709	202	
	8V	6,532,444	03/11/2003	Weber	704	257	
	8W	6,539,348	03/25/2003	Bond et al.	704	9	

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	8X	O'SHAUGHNESSY, Douglas, "Interacting with Computers by Voice: Automatic Speech Recognition and Synthesis", Proceedings of the IEEE, Volume 91, No. 9, September 1, 2003, XP011100665, pages 1272-1305.
	8Y	"Statement in Accordance with the Notice from the European Patent Office dated 1 October 2007 Concerning Business Methods (OJ EPO 11/2007, 592-593), XP002456252

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	9A	6,549,629	04/15/2003	Finn *et al.*	381	92	
	9B	6,553,372	04/22/2003	Brassell et al.	707	5	
	9C	6,556,970	04/29/2003	Sasaki *et al.*	704	257	
	9D	6,556,973	04/29/2003	Lewin	704	277	
	9E	6,560,576	05/06/2003	Cohen et al.	704	270	
	9F	6,560,590	05/06/2003	Shwe *et al.*	706	55	
	9G	6,567,778	05/20/2003	Chao Chang et al.	704	257	
	9H	6,567,797	05/20/2003	Schuetze *et al.*	707	2	
	9I	6,570,555	05/27/2003	Prevost *et al.*	345	156	
	9J	6,570,964	05/27/2003	Murveit et al.	379	67.1	
	9K	6,571,279	05/27/2003	Herz *et al.*	709	217	
	9L	6,574,597	06/03/2003	Mohri *et al.*	704	251	
	9M	6,574,624	06/03/2003	Johnson et al.	707	5	
	9N	6,578,022	06/10/2003	Foulger *et al.*	706	45	
	9O	6,581,103	06/17/2003	Dengler	709	231	
	9P	6,584,439	06/24/2003	Geilhufe *et al.*	704	270	
	9Q	6,587,858	07/01/2003	Strazza	707	102	
	9R	6,591,239	07/08/2003	McCall *et al.*	704	275	
	9S	6,594,257	07/15/2003	Doshi et al.	370	352	
	9T	6,594,367	07/15/2003	Marash *et al.*	381	92	
	9U	6,598,018	07/22/2003	Junqua	704	251	
	9V	6,601,026	07/29/2003	Appelt *et al.*	704	9	
	9W	6,604,075	08/05/2003	Brown *et al.*	704	270.1	

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	10A	6,604,077	08/05/2003	Dragosh et al.	704	270.1	
	10B	6,606,598	08/12/2003	Holthouse *et al.*	704	275	
	10C	6,611,692	08/26/2003	Raffel et al.	455	552	
	10D	6,614,773	09/02/2003	Maxemchuk	370	337	
	10E	6,615,172	09/02/2003	Bennett *et al.*	704	257	
	10F	6,622,119	09/16/2003	Ramaswamy *et al.*	704	9	
	10G	6,629,066	09/30/2003	Jackson et al.	704	9	
	10H	6,631,346	10/07/2003	Karaorman *et al.*	704	9	
	10I	6,631,351	10/07/2003	Ramachandran *et al.*	704	270	
	10J	6,633,846	10/14/2003	Bennett *et al.*	704	257	
	10K	6,636,790	10/21/2003	Lightner *et al.*	701	33	
	10L	6,643,620	11/04/2003	Contolini *et al.*	704	270	
	10M	6,650,747	11/18/2003	Bala et al.	379	265.06	
	10N	6,658,388	12/02/2003	Kleindienst *et al.*	704	275	
	10O	6,678,680	01/13/2004	Woo	707	6	
	10P	6,681,206	01/20/2004	Gorin *et al.*	704	243	
	10Q	6,691,151	02/10/2004	Cheyer et al.	709	202	
	10R	6,701,294	03/02/2004	Ball *et al.*	704	257	
	10S	6,704,396	03/09/2004	Parolkar *et al.*	379	88.17	
	10T	6,704,576	03/09/2004	Brachman *et al.*	455	503	
	10U	6,704,708	03/09/2004	Pickering	704	235	
	10V	6,707,421	03/16/2004	Drury *et al.*	342	357.1	
	10W	6,708,150	03/16/2004	Hirayama *et al.*	704	243	

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	11A	6,721,001	04/13/2004	Berstis	348	231.3	
	11B	6,721,633	04/13/2004	Funk *et al.*	701	1	
	11C	6,721,706	04/13/2004	Strubbe *et al.*	704	275	
	11D	6,726,636	04/27/2004	Der Ghazarian *et al.*	600	532	
	11E	6,735,592	05/11/2004	Neumann *et al.*	707	101	
	11F	6,739,556	05/25/2004	Langston	244	189	
	11G	6,741,931	05/25/2004	Kohut *et al.*	701	209	
	11H	6,742,021	05/25/2004	Halverson *et al.*	709	218	
	11I	6,745,161	06/01/2004	Arnold *et al.*	704	7	
	11J	6,751,591	06/15/2004	Gorin *et al.*	704	257	
	11K	6,751,612	06/15/2004	Schuetze *et al.*	707	4	
	11L	6,754,485	06/22/2004	Obradovich *et al.*	455	414.1	
	11M	6,754,627	06/22/2004	Woodward	704	235	
	11N	6,757,544	06/29/2004	Rangarajan *et al.*	455	456.1	
	11O	6,757,718	06/29/2004	Halverson *et al.*	709	218	
	11P	6,795,808	09/21/2004	Strubbe *et al.*	704	275	
	11Q	6,801,604	10/05/2004	Maes *et al.*	379	88.17	
	11R	6,801,893	10/05/2004	Backfried *et al.*	704	257	
	11S	6,813,341	11/02/2004	Mahoney	379	88.01	
	11T	6,829,603	12/07/2004	Chai *et al.*	707	5	
	11U	6,832,230	12/14/2004	Zilliacus *et al.*	707	203	
	11V	6,833,848	12/21/2004	Wolff *et al.*	345	719	
	11W	6,850,603	02/01/2005	Eberle *et al.*	379	88.16	

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	12A	6,856,990	02/15/2005	Barile *et al.*	707	10	
	12B	6,865,481	03/08/2005	Kawazoe *et al.*	701	211	
	12C	6,868,380	03/15/2005	Kroeker	704	240	
	12D	6,868,385	03/15/2005	Gerson	704	275	
	12E	6,873,837	03/29/2005	Yoshioka *et al.*	455	321	
	12F	6,877,001	04/05/2005	Wolf *et al.*	707	3	
	12G	6,877,134	04/05/2005	Fuller *et al.*	715	500.1	
	12H	6,901,366	05/31/2005	Kuhn *et al.*	704	275	
	12I	6,910,003	06/21/2005	Arnold *et al.*	704	4	
	12J	6,912,498	06/28/2005	Stevens *et al.*	704	235	
	12K	6,915,126	07/05/2005	Mazzara, Jr.	455	411	
	12L	6,928,614	08/09/2005	Everhart	715	728	
	12M	6,934,756	08/23/2005	Maes	709	227	
	12N	6,937,977	08/30/2005	Gerson	704	201	
	12O	6,937,982	08/30/2005	Kitaoka *et al.*	704	252	
	12P	6,944,594	09/13/2005	Busayapongchai *et al.*	704	275	
	12Q	6,950,821	09/27/2005	Faybishenko *et al.*	707	10	
	12R	6,954,755	10/11/2005	Reisman	707	10	
	12S	6,959,276	10/25/2005	Droppo *et al.*	704	226	
	12T	6,961,700	11/01/2005	Mitchell *et al.*	704	235	
	12U	6,963,759	11/08/2005	Gerson	455	563	
	12V	6,964,023	11/08/2005	Maes *et al.*	715	811	
	12W	6,968,311	11/22/2005	Knockeart *et al.*	704	270	

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	13A	6,973,387	12/06/2005	Masclet *et al.*	701	211	
	13B	6,975,993	12/13/2005	Keiller	704	275	
	13C	6,980,092	12/27/2005	Turnbull *et al.*	340	425.5	
	13D	6,983,055	01/03/2006	Luo	381	313	
	13E	6,990,513	01/24/2006	Belfiore *et al.*	709	203	
	13F	6,996,531	02/07/2006	Korall *et al.*	704	270	
	13G	7,003,463	02/21/2006	Maes *et al.*	704	270.1	
	13H	7,016,849	03/21/2006	Arnold *et al.*	704	275	
	13I	7,020,609	03/28/2006	Thrift *et al.*	704	270.1	
	13J	7,024,364	04/04/2006	Guerra *et al.*	704	270	
	13K	7,027,586	04/11/2006	Bushey *et al.*	379	265.09	
	13L	7,027,975	04/11/2006	Pazandak *et al.*	704	9	
	13M	7,035,415	04/25/2006	Belt *et al.*	381	92	
	13N	7,036,128	04/25/2006	Julia *et al.*	719	317	
	13O	7,043,425	05/09/2006	Pao	704	211	
	13P	7,054,817	05/30/2006	Shao	704	270	
	13Q	7,058,890	06/06/2006	George *et al.*	715	728	
	13R	7,062,488	06/13/2006	Reisman	707	8	
	13S	7,069,220	06/27/2006	Coffman *et al.*	704	275	
	13T	7,072,834	07/04/2006	Zhou	704	244	
	13U	7,076,362	07/11/2006	Ohtsuji *et al.*	701	211	
	13V	7,082,469	07/25/2006	Gold *et al.*	709	231	
	13W	7,085,708	08/01/2006	Manson	704	9	

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	14A	7,092,928	08/15/2006	Elad *et al.*	706	60	
	14B	7,107,210	09/12/2006	Deng *et al.*	704	226	
	14C	7,107,218	09/12/2006	Preston	704	270	
	14D	7,110,951	09/19/2006	Lemelson *et al.*	704	270	
	14E	7,127,400	10/24/2006	Koch	704	270.1	
	14F	7,130,390	10/31/2006	Abburi	379	88.17	
	14G	7,136,875	11/14/2006	Anderson *et al.*	707	104.1	
	14H	7,137,126	11/14/2006	Coffman *et al.*	719	328	
	14I	7,143,037	11/28/2006	Chestnut	704	251	
	14J	7,143,039	11/28/2006	Stifelman *et al.*	704	270	
	14K	7,146,319	12/05/2006	Hunt	704	254	
	14L	7,149,696	12/12/2006	Shimizu *et al.*	705	1	
	14M	7,165,028	01/16/2007	Gong	704	233	
	14N	7,170,993	01/30/2007	Anderson *et al.*	379	265.09	
	14O	7,171,291	01/30/2007	Obradovich	701	29	
	14P	7,174,300	02/06/2007	Bush	704	275	
	14Q	7,177,798	02/13/2007	Hsu *et al.*	704	9	
	14R	7,184,957	02/27/2007	Brookes *et al.*	704	246	
	14S	7,190,770	03/13/2007	Ando *et al.*	379	88.01	
	14T	7,197,069	03/27/2007	Agazzi *et al.*	375	233	
	14U	7,197,460	03/27/2007	Gupta *et al.*	704	270.1	
	14V	7,203,644	04/10/2007	Anderson *et al.*	704	246	
	14W	7,206,418	04/17/2007	Yang *et al.*	381	92	

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	15A	7,207,011	04/17/2007	Mulvey *et al.*	715	812	
	15B	7,215,941	05/08/2007	Beckmann *et al.*	455	404.1	
	15C	7,228,276	06/05/2007	Omote *et al.*	704	243	
	15D	7,231,343	06/12/2007	Treadgold *et al.*	704	9	
	15E	7,236,923	06/26/2007	Gupta	704	9	
	15F	7,254,482	08/07/2007	Kawasaki *et al.*	701	211	
	15G	7,272,212	09/18/2007	Eberle *et al.*	379	88.17	
	15H	7,277,854	10/02/2007	Bennett *et al.*	704	257	
	15I	7,283,829	10/16/2007	Christenson *et al.*	455	461	
	15J	7,283,951	10/16/2007	Marchisio *et al.*	704	9	
	15K	7,289,606	10/30/2007	Sibal *et al.*	379	52	
	15L	7,299,186	11/20/2007	Kuzunuki *et al.*	704	270.1	
	15M	7,301,093	11/27/2007	Sater *et al.*	84	615	
	15N	7,305,381	12/04/2007	Poppink *et al.*	1	1	
	15O	7,321,850	01/22/2008	Wakita	704	10	
	15P	7,328,155	02/05/2008	Endo *et al.*	704	251	
	15Q	7,337,116	02/26/2008	Charlesworth *et al.*	704	254	
	15R	7,340,040	03/04/2008	Saylor *et al.*	379	67.1	
	15S	7,366,285	04/29/2008	Parolkar *et al.*	379	88.17	
	15T	7,366,669	04/29/2008	Nishitani *et al.*	704	256	
	15U	7,376,645	05/20/2008	Bernard	707	3	
	15V	7,386,443	06/10/2008	Parthasarathy *et al.*	704	201	
	15W	7,398,209	07/08/2008	Kennewick *et al.*	704	255	

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	16A	7,406,421	07/29/2008	Odinak *et al.*	704	275	
	16B	7,415,414	08/19/2008	Azara *et al.*	704	270	
	16C	7,421,393	09/02/2008	Di Fabbrizio *et al.*	704	275	
	16D	7,424,431	09/09/2008	Greene *et al.*	704	270	
	16E	7,447,635	11/04/2008	Konopka *et al.*	704	275	
	16F	7,451,088	11/11/2008	Ehlen *et al.*	704	270.1	
	16G	7,454,608	11/18/2008	Gopalakrishnan *et al.*	713	100	
	16H	7,461,059	12/02/2008	Richardson *et al.*	707	5	
	16I	7,472,020	12/30/2008	Brulle-Drews	701	211	
	16J	7,472,060	12/30/2008	Gorin *et al.*	704	240	
	16K	7,472,075	12/30/2008	Odinak *et al.*	705	26	
	16L	7,477,909	01/13/2009	Roth	455	466	
	16M	7,478,036	01/13/2009	Shen *et al.*	704	9	
	16N	7,487,088	02/03/2009	Gorin *et al.*	704	240	
	16O	7,487,110	02/03/2009	Bennett *et al.*	705	26	
	16P	7,493,259	02/17/2009	Jones *et al.*	704	257	
	16Q	7,493,559	02/17/2009	Wolff *et al.*	715	727	
	16R	7,502,672	03/10/2009	Kolls	701	29	
	16S	7,502,738	03/10/2009	Kennewick *et al.*	704	257	
	16T	7,516,076	04/07/2009	Walker *et al.*	704	275	
	16U	7,529,675	05/05/2009	Maes	704	270.1	
	16V	7,536,297	05/19/2009	Byrd *et al.*	704	10	
	16W	7,536,374	05/19/2009	Au	706	55	

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	17A	7,542,894	06/02/2009	Murata	704	9	
	17B	7,546,382	06/09/2009	Healey *et al.*	709	246	
	17C	7,548,491	06/16/2009	Macfarlane	367	198	
	17D	7,552,054	06/23/2009	Stifelman *et al.*	704	270	
	17E	7,558,730	07/07/2009	Davis *et al.*	704	235	
	17F	7,574,362	08/11/2009	Walker *et al.*	704	275	
	17G	7,577,244	08/18/2009	Taschereau	379	218.01	
	17H	7,606,708	10/20/2009	Hwang	704	257	
	17I	7,620,549	11/17/2009	Di Cristo *et al.*	704	257	
	17J	7,634,409	12/15/2009	Kennewick *et al.*	704	257	
	17K	7,640,006	12/29/2009	Portman *et al.*	455	412.1	
	17L	7,640,160	12/29/2009	Di Cristo *et al.*	704	257	
	17M	7,640,272	12/29/2009	Mahajan *et al.*	707	104.1	
	17N	7,676,365	03/09/2010	Hwang *et al.*	704	240	
	17O	7,676,369	03/09/2010	Fujimoto *et al.*	704	270	
	17P	7,684,977	03/23/2010	Morikawa	704	211	
	17Q	7,693,720	04/06/2010	Kennewick *et al.*	704	275	
	17R	7,729,916	06/01/2010	Coffman *et al.*	704	270	
	17S	7,729,918	06/01/2010	Walker *et al.*	704	275	
	17T	7,729,920	06/01/2010	Chaar *et al.*	704	275	
	17U	7,734,287	06/08/2010	Ying	455	423	
	17V	7,748,021	06/29/2010	Obradovich	725	105	
	17W	7,788,084	08/31/2010	Brun *et al.*	704	7	

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	18A	7,801,731	09/21/2010	Odinak *et al.*	704	275	
	18B	7,809,570	10/05/2010	Kennewick *et al.*	704	257	
	18C	7,818,176	10/19/2010	Freeman *et al.*	704	270	
	18D	7,831,426	11/09/2010	Bennett	704	252	
	18E	7,831,433	11/09/2010	Belvin *et al.*	704	275	
	18F	7,856,358	12/21/2010	Ho	704	270	
	18G	7,873,519	01/18/2011	Bennett	704	257	
	18H	7,873,523	01/18/2011	Potter *et al.*	704	275	
	18I	7,873,654	01/18/2011	Bernard	707	769	
	18J	7,881,936	02/01/2011	Longe *et al.*	704	257	
	18K	7,890,324	02/15/2011	Bangalore *et al.*	704	231	
	18L	7,894,849	02/22/2011	Kass *et al.*	455	550.1	
	18M	7,902,969	03/08/2011	Obradovich	340	439	
	18N	7,917,367	03/29/2011	Di Cristo *et al.*	704	270.1	
	18O	7,920,682	04/05/2011	Byrne *et al.*	379	88.18	
	18P	7,949,529	05/24/2011	Weider *et al.*	704	270	
	18Q	7,949,537	05/24/2011	Walker *et al.*	704	275	
	18R	7,953,732	05/31/2011	Frank *et al.*	707	724	
	18S	7,974,875	07/05/2011	Quilici *et al.*	705	14.4	
	18T	7,983,917	07/19/2011	Kennewick *et al.*	704	257	
	18U	7,984,287	07/19/2011	Gopalakrishnan *et al.*	713	100	
	18V	8,005,683	08/23/2011	Tessel *et al.*	704	275	
	18W	8,015,006	09/06/2011	Kennewick *et al.*	704	236	

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	19A	8,060,367	11/15/2011	Keaveney	704	247	
	19B	8,069,046	11/29/2011	Kennewick *et al.*	704	257	
	19C	8,073,681	12/06/2011	Baldwin *et al.*	704	9	
	19D	8,077,975	12/13/2011	Ma *et al.*	382	187	
	19E	8,082,153	12/20/2011	Coffman *et al.*	704	270	
	19F	8,086,463	12/27/2011	Ativanichayaphong *et al.*	704	275	
	19G	8,112,275	02/07/2012	Kennewick *et al.*	704	240	
	19H	8,140,327	03/20/2012	Kennewick *et al.*	704	226	
	19I	8,140,335	03/20/2012	Kennewick *et al.*	704	257	
	19J	8,145,489	03/27/2012	Freeman *et al.*	704	257	
	19K	8,150,694	04/03/2012	Kennewick *et al.*	704	257	
	19L	8,155,962	04/10/2012	Kennewick *et al.*	704	257	
	19M	8,170,867	05/01/2012	Germain	704	9	
	19N	8,195,468	06/05/2012	Weider *et al.*	704	275	
	19O	8,219,399	07/10/2012	Lutz *et al.*	704	270	
	19P	8,219,599	07/10/2012	Tunstall-Pedoe	707	955	
	19Q	8,224,652	07/17/2012	Wang *et al.*	704	275	
	19R	8,255,224	08/28/2012	Singleton *et al.*	704	275	
	19S	8,326,627	12/04/2012	Kennewick *et al.*	704	257	
	19T	8,326,634	12/04/2012	Di Cristo *et al.*	704	270.1	
	19U	8,326,637	12/04/2012	Baldwin *et al.*	704	275	
	19V	8,332,224	12/11/2012	Di Cristo *et al.*	704	257	
	19W	8,370,147	02/05/2013	Kennewick *et al.*	704	257	

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	20A	8,447,607	05/21/2013	Weider *et al.*	704	250	
	20B	8,452,598	05/28/2013	Kennewick *et al.*	704	257	
	20C	8,509,403	08/13/2013	Chiu *et al.*	379	114.13	
	20D	8,515,765	08/20/2013	Baldwin et al.	704	275	
	20E	8,527,274	09/03/2013	Freeman *et al.*	704	257	
	20F	8,589,161	11/19/2013	Kennewick *et al.*	704	252	
	20G	8,620,659	12/31/2013	Di Cristo et al.	704	257	
	20H	8,719,009	05/06/2014	Baldwin et al.	704	9	
	20I	8,719,026	05/06/2014	Kennewick *et al.*	704	257	
	20J	8,738,380	05/27/2014	Baldwin *et al.*	704	257	
	20K	2001/0041980	11/15/2001	Howard *et al.*	704	270	
	20L	2001/0049601	12/06/2001	Kroeker *et al.*	704	254	
	20M	2001/0054087	12/20/2001	Flom *et al.*	709	218	
	20N	2002/0015500	02/07/2002	Belt *et al.*	381	66	
	20O	2002/0022927	02/21/2002	Lemelson *et al.*	701	301	
	20P	2002/0029261	03/07/2002	Shibata	709	219	
	20Q	2002/0032752	03/14/2002	Gold *et al.*	709	218	
	20R	2002/0035501	03/21/2002	Handel *et al.*	705	10	
	20S	2002/0040297	04/04/2002	Tsiao *et al.*	704	257	
	20T	2002/0049535	04/25/2002	Rigo *et al.*	701	211	
	20U	2002/0049805	04/25/2002	Yamada *et al.*	709	202	
	20V	2002/0065568	05/30/2002	Silfvast *et al.*	700	94	
	20W	2002/0067839	06/06/2002	Heinrich	381	110	

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	21A	2002/0069059	06/06/2002	Smith	704	257	
	21B	2002/0069071	06/06/2002	Knockeart et al.	704	275	
	21C	2002/0082911	06/27/2002	Dunn *et al.*	705	14	
	21D	2002/0087326	07/04/2002	Lee *et al.*	704	270.1	
	21E	2002/0087525	07/04/2002	Abbott *et al.*	707	3	
	21F	2002/0107694	08/08/2002	Lerg	704	273	
	21G	2002/0120609	08/29/2002	Lang *et al.*	707	1	
	21H	2002/0124050	09/05/2002	Middeljans	709	203	
	21I	2002/0133354	09/19/2002	Ross *et al.*	704	275	
	21J	2002/0133402	09/19/2002	Faber *et al.*	705	14	
	21K	2002/0135618	09/26/2002	Maes et al.	345	767	
	21L	2002/0138248	09/26/2002	Corston-Oliver *et al.*	704	1	
	21M	2002/0143532	10/03/2002	McLean *et al.*	704	235	
	21N	2002/0143535	10/03/2002	Kist *et al.*	704	251	
	21O	2002/0161646	10/31/2002	Gailey *et al.*	705	14	
	21P	2002/0173333	11/21/2002	Buchholz *et al.*	455	527	
	21Q	2002/0173961	11/21/2002	Guerra	704	258	
	21R	2002/0184373	12/05/2002	Maes	709	228	
	21S	2002/0188602	12/12/2002	Stubler *et al.*	707	3	
	21T	2002/0198714	12/26/2002	Zhou	704	252	
	21U	2003/0014261	01/16/2003	Kageyama	704	275	
	21V	2003/0016835	01/23/2003	Elko *et al.*	381	92	
	21W	2003/0046346	03/06/2003	Mumick *et al.*	709	205	

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	22A	2003/0064709	04/03/2003	Gailey *et al.*	455	412	
	22B	2003/0065427	04/03/2003	Funk *et al.*	701	1	
	22C	2003/0069734	04/10/2003	Everhart	704	275	
	22D	2003/0088421	05/08/2003	Maes *et al.*	704	270.1	
	22E	2003/0097249	05/22/2003	Walker *et al.*	704	1	
	22F	2003/0110037	06/12/2003	Walker *et al.*	704	257	
	22G	2003/0112267	06/19/2003	Belrose	345	728	
	22H	2003/0115062	06/19/2003	Walker *et al.*	704	258	
	22I	2003/0120493	06/26/2003	Gupta	704	270.1	
	22J	2003/0135488	07/17/2003	Amir *et al.*	707	3	
	22K	2003/0144846	07/31/2003	Denenberg *et al.*	704	277	
	22L	2003/0158731	08/21/2003	Falcon *et al.*	704	231	
	22M	2003/0161448	08/28/2003	Parolkar *et al.*	379	88.17	
	22N	2003/0182132	09/25/2003	Niemoeller	704	275	
	22O	2003/0204492	10/30/2003	Wolf *et al.*	707	3	
	22P	2003/0206640	11/06/2003	Malvar *et al.*	381	93	
	22Q	2003/0212550	11/13/2003	Ubale	704	215	
	22R	2003/0212558	11/13/2003	Matula	704	260	
	22S	2003/0212562	11/13/2003	Patel *et al.*	704	275	
	22T	2003/0225825	12/04/2003	Healey *et al.*	709	203	
	22U	2003/0236664	12/25/2003	Sharma	704	251	
	22V	2004/0006475	01/08/2004	Ehlen *et al.*	704	270.1	
	22W	2004/0010358	01/15/2004	Oesterling *et al.*	701	49	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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/E. Yen/	07/16/2015

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0433849	*To be Determined*
	Applicant(s)	
	Chris WEIDER *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	23A	2004/0025115	02/05/2004	Sienel *et al.*	715	513	
	23B	2004/0044516	03/04/2004	Kennewick *et al.*	704	5	
	23C	2004/0098245	05/20/2004	Walker *et al.*	704	1	
	23D	2004/0117179	06/17/2004	Balasuriya	704	231	
	23E	2004/0117804	06/17/2004	Scahill *et al.*	719	320	
	23F	2004/0122674	06/24/2004	Bangalore *et al.*	704	276	
	23G	2004/0140989	07/22/2004	Papageorge	345	700	
	23H	2004/0158555	08/12/2004	Seedman *et al.*	707	3	
	23I	2004/0166832	08/26/2004	Portman *et al.*	455	412.1	
	23J	2004/0167771	08/26/2004	Duan *et al.*	704	10	
	23K	2004/0172258	09/02/2004	Dominach *et al.*	704	277	
	23L	2004/0193408	09/30/2004	Hunt	704	209	
	23M	2004/0193420	09/30/2004	Kennewick *et al.*	704	257	
	23N	2004/0199375	10/07/2004	Ehsani *et al.*	704	4	
	23O	2004/0205671	10/14/2004	Sukehiro *et al.*	715	532	
	23P	2004/0243417	12/02/2004	Pitts, III *et al.*	704	276	
	23Q	2005/0015256	01/20/2005	Kargman	704	272	
	23R	2005/0021334	01/27/2005	Iwahashi	704	240	
	23S	2005/0021470	01/27/2005	Martin *et al.*	705	51	
	23T	2005/0021826	01/27/2005	Kumar	709	232	
	23U	2005/0033574	02/10/2005	Kim *et al.*	704	251	
	23V	2005/0033582	02/10/2005	Gadd *et al.*	704	277	
	23W	2005/0043940	02/24/2005	Elder	704	9	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

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EXAMINER	/E. Yen/	DATE CONSIDERED	07/16/2015

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	090611-0433849	*To be Determined*
	Applicant(s)	
	Chris WEIDER *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	24A	2005/0114116	05/26/2005	Fiedler	704	201	
	24B	2005/0125232	06/09/2005	Gadd	704	270.1	
	24C	2005/0131673	06/16/2005	Koizumi *et al.*	704	2	
	24D	2005/0137850	06/23/2005	Odell	704	4	
	24E	2005/0137877	06/23/2005	Oesterling *et al.*	704	275	
	24F	2005/0143994	06/30/2005	Mori *et al.*	704	235	
	24G	2005/0216254	09/29/2005	Gupta *et al.*	704	9	
	24H	2005/0234727	10/20/2005	Chiu	704	270.1	
	24I	2005/0246174	11/03/2005	DeGolia	704	270	
	24J	2005/0283752	12/22/2005	Fruchter *et al.*	717	100	
	24K	2006/0041431	02/23/2006	Maes	704	270.1	
	24L	2006/0047509	03/02/2006	Ding *et al.*	704	231	
	24M	2006/0206310	09/14/2006	Ravikumar *et al.*	704	9	
	24N	2006/0217133	09/28/2006	Christenson *et al.*	455	461	
	24O	2006/0285662	12/21/2006	Yin *et al.*	379	88.16	
	24P	2007/0033005	02/08/2007	Cristo *et al.*	704	9	
	24Q	2007/0033020	02/08/2007	(Kelleher) Francois *et al.*	704	226	
	24R	2007/0038436	02/15/2007	Cristo *et al.*	704	9	
	24S	2007/0043569	02/22/2007	Potter, III *et al.*	704	270	
	24T	2007/0043574	02/22/2007	Coffman *et al.*	704	275	
	24U	2007/0043868	02/22/2007	Kumar *et al.*	709	226	
	24V	2007/0050191	03/01/2007	Weider *et al.*	704	275	
	24W	2007/0055525	03/08/2007	Kennewick *et al.*	704	257	

FOREIGN PATENT DOCUMENTS

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	Chris WEIDER *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	25A	2007/0061067	03/15/2007	Zeinstra *et al.*	701	200	
	25B	2007/0061735	03/15/2007	Hoffberg *et al.*	715	744	
	25C	2007/0073544	03/29/2007	Millett *et al.*	704	277	
	25D	2007/0078708	04/05/2007	Yu *et al.*	705	14	
	25E	2007/0078709	04/05/2007	Rajaram	705	14	
	25F	2007/0118357	05/24/2007	Kasravi *et al.*	704	10	
	25G	2007/0135101	06/14/2007	Ramati *et al.*	455	414.1	
	25H	2007/0146833	06/28/2007	Satomi *et al.*	358	537	
	25I	2007/0162296	07/12/2007	Altberg *et al.*	705	1	
	25J	2007/0179778	08/02/2007	Gong *et al.*	704	9	
	25K	2007/0186165	08/09/2007	Maislos *et al.*	715	728	
	25L	2007/0198267	08/23/2007	Jones *et al.*	704	257	
	25M	2007/0203736	08/30/2007	Ashton	705	1	
	25N	2007/0214182	09/13/2007	Rosenberg	707	104.1	
	25O	2007/0250901	10/25/2007	McIntire *et al.*	725	146	
	25P	2007/0265850	11/15/2007	Kennewick *et al.*	704	257	
	25Q	2007/0299824	12/27/2007	Pan *et al.*	707	3	
	25R	2008/0034032	02/07/2008	Healey *et al.*	709	203	
	25S	2008/0065386	03/13/2008	Cross *et al.*	704	270	
	25T	2008/0091406	04/17/2008	Baldwin *et al.*	704	4	
	25U	2008/0103761	05/01/2008	Printz *et al.*	704	9	
	25V	2008/0109285	05/08/2008	Reuther *et al.*	705	7	
	25W	2008/0115163	05/15/2008	Gilboa *et al.*	725	34	

FOREIGN PATENT DOCUMENTS

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	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	26A	2008/0133215	06/05/2008	Sarukkai	704	2	
	26B	2008/0140385	06/12/2008	Mahajan *et al.*	704	9	
	26C	2008/0147410	06/19/2008	Odinak	704	270.1	
	26D	2008/0154604	06/26/2008	Sathish *et al.*	704	257	
	26E	2008/0177530	07/24/2008	Cross *et al.*	704	4	
	26F	2008/0189110	08/07/2008	Freeman *et al.*	704	251	
	26G	2008/0235023	09/25/2008	Kennewick *et al.*	704	257	
	26H	2008/0235027	09/25/2008	Cross	704	270.1	
	26I	2008/0319751	12/25/2008	Kennewick *et al.*	704	257	
	26J	2009/0052635	02/26/2009	Jones *et al.*	379	88.02	
	26K	2009/0067599	03/12/2009	Agarwal *et al.*	379	114.21	
	26L	2009/0076827	03/19/2009	Bulitta *et al.*	704	275	
	26M	2009/0106029	04/23/2009	DeLine *et al.*	704	275	
	26N	2009/0117885	05/07/2009	Roth	455	414.3	
	26O	2009/0144271	06/04/2009	Richardson *et al.*	707	5	
	26P	2009/0150156	06/11/2009	Kennewick *et al.*	704	257	
	26Q	2009/0171664	07/02/2009	Kennewick *et al.*	704	257	
	26R	2009/0216540	08/27/2009	Tessel *et al.*	704	275	
	26S	2009/0271194	10/29/2009	Davis *et al.*	704	235	
	26T	2009/0273563	11/05/2009	Pryor	345	157	
	26U	2009/0276700	11/05/2009	Anderson *et al.*	715	700	
	26V	2009/0299745	12/03/2009	Kennewick *et al.*	704	257	
	26W	2009/0307031	12/10/2009	Winkler *et al.*	705	7	

FOREIGN PATENT DOCUMENTS

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	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	27A	2009/0313026	12/17/2009	Coffman *et al.*	704	275	
	27B	2010/0023320	01/28/2010	Di Cristo *et al.*	704	9	
	27C	2010/0029261	02/04/2010	Mikkelsen *et al.*	455	419	
	27D	2010/0049501	02/25/2010	Kennewick *et al.*	704	9	
	27E	2010/0049514	02/25/2010	Kennewick *et al.*	704	233	
	27F	2010/0057443	03/04/2010	Di Cristo *et al.*	704	9	
	27G	2010/0063880	03/11/2010	Atsmon *et al.*	705	14.53	
	27H	2010/0036967	02/11/2010	Caine *et al.*	709	236	
	27I	2010/0185512	07/22/2010	Borger *et al.*	705	14.49	
	27J	2010/0145700	06/10/2010	Kennewick *et al.*	704	257	
	27K	2010/0204986	08/12/2010	Kennewick *et al.*	704	226	
	27L	2010/0204994	08/12/2010	Kennewick *et al.*	704	257	
	27M	2010/0217604	08/26/2010	Baldwin *et al.*	704	275	
	27N	2010/0286985	11/11/2010	Kennewick *et al.*	704	257	
	27O	2010/0299142	11/25/2010	Freeman *et al.*	704	9	
	27P	2010/0312566	12/09/2010	Odinak *et al.*	704	275	
	27Q	2011/0112827	05/12/2011	Kennewick *et al.*	704	9	
	27R	2011/0112921	05/12/2011	Kennewick *et al.*	705	26.1	
	27S	2011/0131036	06/02/2011	Di Cristo *et al.*	704	9	
	27T	2011/0131045	06/02/2011	Cristo *et al.*	704	249	
	27U	2011/0231182	09/22/2011	Weider *et al.*	704	9	
	27V	2011/0231188	09/22/2011	Kennewick *et al.*	704	236	
	27W	2012/0022857	01/26/2012	Baldwin *et al.*	704	9	

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Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	28A	2012/0101809	04/26/2012	Kennewick *et al.*	704	9	
	28B	2012/0101810	04/26/2012	Kennewick *et al.*	704	9	
	28C	2012/0109753	05/03/2012	Kennewick *et al.*	705	14.58	
	28D	2012/0150636	06/14/2012	Freeman *et al.*	705	14.49	
	28E	2012/0278073	11/01/2012	Weider et al.	704	235	
	28F	2013/0054228	02/28/2013	Baldwin *et al.*	704	9	
	28G	2013/0211710	08/15/2013	Kennewick *et al.*	701	419	
	28H	2013/0253929	09/26/2013	Weider *et al.*	704	235	
	28I	2013/0297293	11/07/2013	Di Cristo *et al.*	704	9	
	28J	2013/0304473	11/14/2013	Baldwin *et al.*	704	257	
	28K	2013/0339022	12/19/2013	Baldwin *et al.*	704	257	
	28L	2014/0012577	01/09/2014	Freeman *et al.*	704	249	
	28M	2014/0108013	04/17/2014	Di Cristo *et al.*	704	254	
	28N	2014/0156278	06/05/2014	Kennewick *et al.*	704	254	

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BIB DATA SHEET

CONFIRMATION NO. 8640

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/467,641	08/25/2014	704	2658	N0484.71162US04

APPLICANTS

Nuance Communications, Inc., Burlington, MA;

INVENTORS

CHRIS WEIDER, EVERETT, WA;
RICHARD KENNEWICK, WOODINVILLE, WA;
MIKE KENNEWICK, BELLEVUE, WA;
PHILIPPE DI CRISTO, BELLEVUE, WA;
ROBERT A. KENNEWICK, SEATTLE, WA;
SAMUEL MENAKER, BELLEVUE, WA;
LYNN ELISE ARMSTRONG, WOODINVILLE, WA;

**** CONTINUING DATA **************************

This application is a CON of 13/898,045 05/20/2013 PAT 8849652
which is a CON of 13/488,299 06/04/2012 PAT 8447607
which is a CON of 13/084,197 04/11/2011 PAT 8195468
which is a DIV of 11/212,693 08/29/2005 PAT 7949529

**** FOREIGN APPLICATIONS **************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
09/02/2014

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ERIC L YEN/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		WA	8	20	2

ADDRESS

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

TITLE

MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

FILING FEE RECEIVED		
800	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14467641	WEIDER ET AL.
	Examiner	Art Unit
	ERIC YEN	2658

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

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

CLAIM		DATE								
Final	Original	07/16/2015								
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Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/467,641	08/25/2014	CHRIS WEIDER	N0484.71162US04

CONFIRMATION NO. 8640

POA ACCEPTANCE LETTER

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

OC000000075150287

Date Mailed: 05/14/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/11/2015.

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**.

/snguyen/

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/467,641	08/25/2014	CHRIS WEIDER	090611-0433849

CONFIRMATION NO. 8640

POWER OF ATTORNEY NOTICE

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

OC000000075150244

Date Mailed: 05/14/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/11/2015.

- The Power of Attorney to you in this application has been revoked by the applicant. 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**.

/snguyen/

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/467,641	08/25/2014	2658	800	N0484.71162US04	20	2

CONFIRMATION NO. 8640

REPLACEMENT FILING RECEIPT

OC000000075150385

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

Date Mailed: 05/14/2015

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Inventor(s)

CHRIS WEIDER, EVERETT, WA;
RICHARD KENNEWICK, WOODINVILLE, WA;
MIKE KENNEWICK, BELLEVUE, WA;
PHILIPPE DI CRISTO, BELLEVUE, WA;
ROBERT A. KENNEWICK, SEATTLE, WA;
SAMUEL MENAKER, BELLEVUE, WA;
LYNN ELISE ARMSTRONG, WOODINVILLE, WA;

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 91337

Domestic Priority data as claimed by applicant

This application is a CON of 13/898,045 05/20/2013 PAT 8849652
which is a CON of 13/488,299 06/04/2012 PAT 8447607
which is a CON of 13/084,197 04/11/2011 PAT 8195468
which is a DIV of 11/212,693 08/29/2005 PAT 7949529

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.

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Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 09/02/2014
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/467,641**
Projected Publication Date: Not Applicable
Non-Publication Request: No
Early Publication Request: No
**** SMALL ENTITY ****
Title

MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Preliminary Class

704

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

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countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

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PTO/AIA/80 (07-12)
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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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

[x] Practitioners associated with the Customer Number: 91337

OR

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

Name	Registration Number	Name	Registration Number

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

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

[x] The address associated with Customer Number: 91337

OR

[ ] Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address:

Nuance Communications, Inc.
One Wayside Road
Burlington, Massachusetts 01803

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

SIGNATURE of Assignee of Record

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

Signature		Date	11/8/2012
Name	Leanne J. Fitzgerald, Esq.	Telephone	781 565-4792
Title	Associate General Counsel		

2887608.1

Corrected Application Data Sheet

Inventor Information

Inventor Number::	1
Name Prefix::	Mr.
Given Name::	Chris
Family Name::	Weider
Inventor Number::	2
Name Prefix::	Mr.
Given Name::	Richard
Family Name::	Kennewick
Inventor Number::	3
Name Prefix::	Mr.
Given Name::	Mike
Middle Name::	
Family Name::	Kennewick
Inventor Number::	4
Name Prefix::	Mr.
Given Name::	Philippe
Family Name::	Di Cristo

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Inventor Number::	5
Name Prefix::	Mr.
Given Name::	Robert
Middle Name::	A.
Family Name::	Kennewick
Inventor Number::	6
Name Prefix::	Mr.
Given Name::	Samuel
Family Name::	Menaker
Inventor Number::	7
Name Prefix::	Ms.
Given Name::	Lynn
Middle Name::	Elise
Family Name::	Armstrong

Correspondence Information

Correspondence Customer Number::	~~00909~~ 91337

Application Information

Application Number::	14/467,641
Filing Date::	08/25/14

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Microsoft v. Dialect - IPR2025-00659
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Application Type::	Regular
Subject Matter::	Utility
CD-ROM or CD-R?::	None
Sequence submission?::	None
Computer Readable Form (CRF)?::	No
Title::	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
Attorney Docket Number::	~~090611-0433849~~ N0484.71162US04
Request for Early Publication?::	No
Request for Non-Publication?::	No
Small Entity?::	~~Yes~~ No
Petition included?::	No
Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2::	No
Authorization to Permit Access to the Instant Application by the Participating Offices::	No
This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013::	No

Representative Information

Representative Customer Number:: ~~00909~~ 91337

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	Continuation of	13/898045	05/20/13
13/898045	Continuation of	13/488299	06/04/12
13/488299	Continuation of	13/084197	04/11/11
13/084197	Division of	11/212693	08/29/05

Applicant Information

Applicant Number:: 1

Applicant Type:: Assignee

Organization Name:: ~~Voicebox Technologies Corporation~~

Nuance Communications, Inc.

Street of mailing address:: ~~11980 NE 24th Street~~

~~Suite 100~~

One Wayside Road

City of mailing address:: ~~Bellevue~~

Burlington

State or Province of mailing address:: ~~WA~~

MA

Postal or Zip Code of mailing address:: ~~98005~~

01803

Assignee Information Including Non-Applicant Assignee Information

Assignee Number::	1
Organization Name::	~~Voicebox Technologies Corporation~~ Nuance Communications, Inc.
Street of mailing address::	~~11980 NE 24th Street~~ ~~Suite 100~~ One Wayside Road
City of mailing address::	~~Bellevue~~ Burlington
State or Province of mailing address::	~~WA~~ MA
Postal or Zip Code of mailing address::	~~98005~~ 01803

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.			
Signature		Date	May 4, 2015
Name	Richard F. Giunta	Registration Number	36,149

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Page 200 of 383

Application No. (if known): 14/467,641 Attorney Docket No.: N0484.71162US04

Certificate of Electronic Filing Under 37 C.F.R. § 1.8

I hereby certify that this correspondence is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4):

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

on May 11, 2015
Date

Eileen MacKenzie
Signature

Eileen MacKenzie
Typed or printed name of person signing Certificate

Registration Number, if applicable

617-646-8000
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Corrected Application Data Sheet (6 pages)

Electronic Acknowledgement Receipt	
EFS ID:	22313042
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	909
Filer:	Richard F. Giunta/Eileen MacKenzie
Filer Authorized By:	Richard F. Giunta
Attorney Docket Number:	090611-0433849
Receipt Date:	11-MAY-2015
Filing Date:	25-AUG-2014
Time Stamp:	17:51:13
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	Miscellaneous Incoming Letter	N048471162US04-TRN-RFG.PDF	54967 054af6c6b0b54326e1fb312616e04d6a94371f86	no	1

Warnings:
Information:

2	Assignee showing of ownership per 37 CFR 3.73	N048471162US04-373-RFG.PDF	156594 e921eb9d2d71d5db5e9629214ebd00133b856019	no	3
Warnings:					
Information:					
3	Power of Attorney	N048471162US04-POA-RFG.PDF	59967 c464cd1ce8d0c69fdf88b69c0ee60a712b4da533	no	1
Warnings:					
Information:					
4	Application Data Sheet	N048471162US04-CADS-RFG.PDF	128049 c2d5134ede08b59a699e2496f5b042aa789fb0d6	no	7
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
		Total Files Size (in bytes):	399577		

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

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	

Application Number	14/467,641-Conf. #8640
Filing Date	August 25, 2014
First Named Inventor	Chris Weider
Art Unit	2658
Examiner Name	Not Yet Assigned
Attorney Docket Number	N0484.71162US04

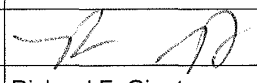
ENCLOSURES *(Check all that apply)*

- [ ] Fee Transmittal Form
  - [ ] Fee Attached
- [ ] Amendment/Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Reply to Missing Parts/ Incomplete Application
  - [ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [x] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
  - [ ] Landscape Table on CD
- [ ] After Allowance Communication to TC
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- [ ] Proprietary Information
- [ ] Status Letter
- [x] Other Enclosure(s) (please Identify below):

  Statement Under 37 CFR 3.73(c)
  Corrected Application Data Sheet

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature			
Printed name	Richard F. Giunta		
Date	May 11, 2015	Reg. No.	36,149

Certificate of Electronic Filing Under 37 CFR 1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: May 11, 2015 Signature: 

4031174.1

PTO/AIA/96 (08-12)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Nuance Communications, Inc.

Application No./Patent No.: 14/467,641 Filed/Issue Date: August 25, 2014

Titled: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Nuance Communications, Inc. (Name of Assignee) , a Corporation (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. [x] The assignee of the entire right, title, and interest.

2. [ ] An assignee of less than the entire right, title, and interest (check applicable box):

   [ ] The extent (by percentage) of its ownership interest is _____ %). Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   [ ] There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. [ ] The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. [ ] The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. [x] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

   1. From: Chris Weider To: VoiceBox Technologies, Inc.
      The document was recorded in the United States Patent and Trademark Office at
      Reel 031329, Frame 0748, or for which a copy thereof is attached.

   2. From: Richard Kennewick To: VoiceBox Technologies, Inc.
      The document was recorded in the United States Patent and Trademark Office at
      Reel 031329, Frame 0748, or for which a copy thereof is attached.

3984944.1

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

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: Mike Kennewick To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

4. From: Philippe Di Cristo To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

5. From: Robert A. Kennewick To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

6. From: Samuel Manaker To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

[X] Additional documents in the chain of title are listed on a supplemental sheet(s).

[X] As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature	May 11 2015 Date
Richard F. Giunta Printed or Typed Name	36,149 Title or Registration Number

Certificate of Electronic Filing Under 37 CFR 1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: May 11, 2015 Signature Eileen MacNeejer

3984944.1

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Microsoft v. Dialect - IPR2025-00659
Page 206 of 383

STATEMENT UNDER 37 CFR 3.73(c) - Supplemental Sheet

Continuation of chain of title from the inventor(s) to the current assignee:

7. From: Lynn Elise Armstrong To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

8. From: VoiceBox Technologies, Inc. To: VoiceBox Technologies Corporation
The document was recorded in the United States Patent and Trademark Office at
Reel 032621 , Frame 0087 , or for which a copy thereof is attached.

9. From: VoiceBox Technologies Corporation To: Nuance Communications, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 034703 , Frame 0429 , or for which a copy thereof is attached.

10. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

11. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

12. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

13. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

14. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

15. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

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Microsoft v. Dialect - IPR2025-00659
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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
14/467,641	08/25/2014	CHRIS WEIDER	090611-0433849

CONFIRMATION NO. 8640

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

MISCELLANEOUS NOTICE

OC000000074694483

Date Mailed: 04/20/2015

A communication which cannot be delivered in electronic form has been mailed to the applicant.

Doc Code: N572

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 DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/467,641	08/25/2014	CHRIS WEIDER	090611-0433849

CONFIRMATION NO. 8640

OC000000074694483

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

Cc: NUANCE COMMUNICATIONS, INC.
C/O WOLF, GREENFIELD & SACKS, P.C.
600 ATLANTIC AVENUE
BOSTON, MA 02210-2206

Date Mailed: 04/20/2015

DENIAL OF REQUEST FOR POWER OF ATTORNEY

The request for Power of Attorney filed 04/15/2015 is acknowledged. However, the request cannot be granted at this time for the reason stated below.

- ☐ The Power of Attorney you provided did not comply with the new Power of Attorney rules that became effective on June 25, 2004. See 37 CFR 1.32.
- ☐ The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.
- ☐ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(c) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- ☐ The signature(s) of_____, a co-inventor in this application, has been omitted. The Power of Attorney will be entered upon receipt of confirmation signed by said co-inventor(s).
- ☐ The person(s) appointed in the Power of Attorney is not registered to practice before the U.S. Patent and Trademark Office.
- ☐ Only one Customer Number can be designated for the Power of Attorney in an application. The Customer Number that was captured is the first Customer Number provided on the Power of Attorney document.

Doc Code: N572

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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

☐ A request under 37 CFR 1.48 to add an inventor was granted in this application, however, no power of attorney consistent with the power of attorney granted by the originally named inventive entity has been received. Thus, the addition of the inventor has resulted in the loss of power of attorney in the application. See 37 CFR 1.32(e).

☑ The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

☐ The power of attorney from the inventors has not been accepted because it is a copy from a prior national application for which benefit is claimed and the continuing application names an inventor who was not named as an inventor in the prior application.

☐ The power of attorney from the inventors has not been accepted because the power of attorney must be signed by the applicant for patent. See 37 CFR 1.32(b)(4).

☑ Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

Any inquiries regarding this notice should be directed to the Application Assistance Unit at 571-272-4200.

Application Assistance Unit
571-272-4200

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

[x] Practitioners associated with the Customer Number: 91337

OR

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

Name	Registration Number	Name	Registration Number

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

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

[x] The address associated with Customer Number: 91337

OR

[ ] Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address:

Nuance Communications, Inc.
One Wayside Road
Burlington, Massachusetts 01803

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

SIGNATURE of Assignee of Record

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

Signature		Date	11/8/2012
Name	Leanne J. Fitzgerald, Esq.	Telephone	781 565-4792
Title	Associate General Counsel		

2887608.1

Electronic Acknowledgement Receipt	
EFS ID:	22065509
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	909
Filer:	Richard F. Giunta/Jeanne Chub
Filer Authorized By:	Richard F. Giunta
Attorney Docket Number:	090611-0433849
Receipt Date:	15-APR-2015
Filing Date:	25-AUG-2014
Time Stamp:	11:26:29
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	Miscellaneous Incoming Letter	N0484-71162US04-TRN-RFG.pdf	56981 b5131b1e8535d5bc3ce30faba41d6ff3f6d87608	no	1
Warnings:					
Information:					

2	Assignee showing of ownership per 37 CFR 3.73	N0484-71162US04-373c-RFG.pdf	157334 a4a7cbe1273501805b018626055a06eff4dd3aa0	no	3
Warnings:					
Information:					
3	Power of Attorney	N0484-71162US04-POA-RFG.pdf	61787 59e6eb0d3818c7beb4e7131053ecae92aa926ee2	no	1
Warnings:					
Information:					
		Total Files Size (in bytes):	276102		

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.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	5

Application Number	14/467,641-Conf. #8640
Filing Date	August 25, 2014
First Named Inventor	Chris Weider
Art Unit	2658
Examiner Name	Not Yet Assigned
Attorney Docket Number	N0484.71162US04

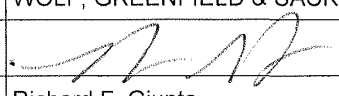
ENCLOSURES (*Check all that apply*)

- [ ] Fee Transmittal Form
  - [ ] Fee Attached
- [ ] Amendment/Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Reply to Missing Parts/ Incomplete Application
  - [ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [x] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
  - [ ] Landscape Table on CD
- [ ] After Allowance Communication to TC
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- [ ] Proprietary Information
- [ ] Status Letter
- [x] Other Enclosure(s) (please Identify below):

Statement Under 37 CFR 3.73(c)

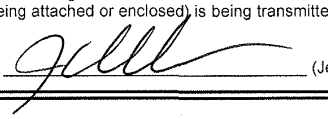
Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature			
Printed name	Richard F. Giunta		
Date	April 15, 2015	Reg. No.	36,149

Certificate of Electronic Filing Under 37 CFR 1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: April 15, 2015 Signature:  (Jeanne W. Chub)

3984956.1

PTO/AIA/96 (08-12)
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Nuance Communications, Inc.

Application No./Patent No.: 14/467,641 Filed/Issue Date: August 25, 2014

Titled: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Nuance Communications, Inc. , a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. [X] The assignee of the entire right, title, and interest.

2. [ ] An assignee of less than the entire right, title, and interest (check applicable box):
   - [ ] The extent (by percentage) of its ownership interest is _____ %). Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
   - [ ] There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. [ ] The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. [ ] The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:
   1. From: Chris Weider To: VoiceBox Technologies, Inc.
      The document was recorded in the United States Patent and Trademark Office at
      Reel 031329, Frame 0748, or for which a copy thereof is attached.
   2. From: Richard Kennewick To: VoiceBox Technologies, Inc.
      The document was recorded in the United States Patent and Trademark Office at
      Reel 031329, Frame 0748, or for which a copy thereof is attached.

3984944.1

Microsoft - Exhibit 1002
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Page 215 of 383

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
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STATEMENT UNDER 37 CFR 3.73(c)

3. From: Michael R. Sr. Kennewick To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

4. From: Philippe Di Cristo To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

5. From: Robert A. Kennewick To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

6. From: Samual Menaker To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

[X] Additional documents in the chain of title are listed on a supplemental sheet(s).

[X] As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature	April 15 2015
	Date
Richard F. Giunta	36,149
Printed or Typed Name	Title or Registration Number

Certificate of Electronic Filing Under 37 CFR 1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: April 15, 2015 Electronic Signature for Jeanne W. Chub: /Jeanne W. Chub/

3984944.1

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Page 216 of 383

STATEMENT UNDER 37 CFR 3.73(c) - Supplemental Sheet

Continuation of chain of title from the inventor(s) to the current assignee:

7. From: Lynn Elise Armstrong To: VoiceBox Technologies, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 031329 , Frame 0748 , or for which a copy thereof is attached.

8. From: VoiceBox Technologies, Inc. To: VoiceBox Technologies Corporation
The document was recorded in the United States Patent and Trademark Office at
Reel 032621 , Frame 0087 , or for which a copy thereof is attached.

9. From: VoiceBox Technologies Corporation To: Nuance Communications, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 034703 , Frame 0429 , or for which a copy thereof is attached.

10. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

11. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

12. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
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13. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

14. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

15. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
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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	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/467,641	08/25/2014	CHRIS WEIDER	090611-0433849

CONFIRMATION NO. 8640

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

PUBLICATION NOTICE



Title:MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Publication No.US-2014-0365222-A1
Publication Date:12/11/2014

NOTICE OF PUBLICATION OF APPLICATION

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

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

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

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

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

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/467,641	08/25/2014	2658	800	090611-0433849	20	2

CONFIRMATION NO. 8640

CORRECTED FILING RECEIPT

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

OC00000072247192

Date Mailed: 12/10/2014

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Inventor(s)

CHRIS WEIDER, EVERETT, WA;
RICHARD KENNEWICK, WOODINVILLE, WA;
MIKE KENNEWICK, BELLEVUE, WA;
PHILIPPE DI CRISTO, BELLEVUE, WA;
ROBERT A. KENNEWICK, SEATTLE, WA;
SAMUEL MENAKER, BELLEVUE, WA;
LYNN ELISE ARMSTRONG, WOODINVILLE, WA;

Applicant(s)

VOICEBOX TECHNOLOGIES CORPORATION, BELLEVUE, WA

Assignment For Published Patent Application

VOICEBOX TECHNOLOGIES CORPORATION, BELLEVUE, WA

Power of Attorney: The patent practitioners associated with Customer Number 00909

Domestic Priority data as claimed by applicant

This application is a CON of 13/898,045 05/20/2013 PAT 8849652
which is a CON of 13/488,299 06/04/2012 PAT 8447607
which is a CON of 13/084,197 04/11/2011 PAT 8195468
which is a DIV of 11/212,693 08/29/2005 PAT 7949529

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.

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Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 09/02/2014
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/467,641**
Projected Publication Date: 12/11/2014
Non-Publication Request: No
Early Publication Request: No
**** SMALL ENTITY ****
Title

MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Preliminary Class

704

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

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countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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NOT GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

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technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT :	VOICEBOX TECHNOLOGIES CORPORATION	CONFIRMATION NO.:	8640
SERIAL NUMBER :	14/467,641	EXAMINER :	Eric L. YEN
FILING DATE :	August 25, 2014	ART UNIT :	2658
FOR :	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS		

REQUEST FOR CORRECTED FILING RECEIPT

Office of Initial Patent Examination's
Filing Receipt Corrections
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached is a copy of the Official Filing Receipt received from the U.S. Patent and Trademark Office in the above-referenced application for which issuance of a corrected filing receipt is respectfully requested. Support for the correction can be found in the Declaration filed August 25, 2014 and the Corrected Application Data Sheet filed concurrently herewith. Please correct the following inventor information on the filing receipt:

Error in	**Correct Data**
Inventor 2 last name is misspelled	Richard ~~KENNWICK~~ **KENNEWICK**, Woodinville, WA
Inventor 3 last name is misspelled	Mike ~~KENNWICK~~ **KENNEWICK**, Bellevue, WA

In response to the Informational Notice dated September 4, 2014 (copy attached), the Applicant believes the declaration originally filed August 25, 2014 will satisfy the requirement, once both names have been corrected.

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Although Applicant believes no fee is due in connection with this filing, the Commissioner is authorized to charge any additional fees that may be due to Deposit Account No. 03-3975, Ref. No. 090611-0433849.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By /Ngai B. Zhang/
Ngai B. Zhang
Registration No. 65,473

Customer No.
00909

P. O. Box 10500
McLean, Virginia 22102
Telephone: (703) 770-7900
Telefax: (703) 770-7901

Dated: December 4, 2014

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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	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/467,641	08/25/2014	2658	800	090611-0433849	20	2

CONFIRMATION NO. 8640

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

FILING RECEIPT

OC000000070511783

Date Mailed: 09/04/2014

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Inventor(s)

CHRIS WEIDER, EVERETT, WA;
RICHARD ~~KENNWICK~~ KENNEWICK, WOODINVILLE, WA;
MIKE ~~KENNWICK~~ BELLEVUE, WA;
PHILIPPE DI CRISTO, BELLEVUE, WA;
ROBERT A. KENNEWICK, SEATTLE, WA;
SAMUEL MENAKER, BELLEVUE, WA;
LYNN ELISE ARMSTRONG, WOODINVILLE, WA;

Applicant(s)

VOICEBOX TECHNOLOGIES CORPORATION, BELLEVUE, WA

Assignment For Published Patent Application

VOICEBOX TECHNOLOGIES CORPORATION, BELLEVUE, WA

Power of Attorney: The patent practitioners associated with Customer Number 00909

Domestic Priority data as claimed by applicant

This application is a CON of 13/898,045 05/20/2013
which is a CON of 13/488,299 06/04/2012 PAT 8447607
which is a CON of 13/084,197 04/11/2011 PAT 8195468
which is a DIV of 11/212,693 08/29/2005 PAT 7949529

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.

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Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 09/02/2014
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/467,641**
Projected Publication Date: 12/11/2014
Non-Publication Request: No
Early Publication Request: No
**** SMALL ENTITY ****
Title

MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Preliminary Class

704

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

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countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

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technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/467,641	08/25/2014	CHRIS WEIDER	090611-0433849

CONFIRMATION NO. 8640

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

NOTICE

OC000000070511784

Date Mailed: 09/04/2014

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  RICHARD KENNWICK
  MIKE KENNWICK

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	CHRIS		WEIDER	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	EVERETT	State/Province	WA	Country of Residence	US

Mailing Address of Inventor:

Address 1	2818 GRAND AVENUE		
Address 2	#B-508		
City	EVERETT	State/Province	WA
Postal Code	98201	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	RICHARD		~~KENNWICK~~ KENNEWICK	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	WOODINVILLE	State/Province	WA	Country of Residence	US

Mailing Address of Inventor:

Address 1	14222 227TH AVENUE N.E.		
Address 2			
City	WOODINVILLE	State/Province	WA
Postal Code	98077	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	MIKE		~~KENNWICK~~ KENNEWICK	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

City	BELLEVUE	State/Province	WA	Country of Residence	US

Mailing Address of Inventor:

Address 1	13407 N.E. 37TH PLACE		
Address 2			
City	BELLEVUE	State/Province	WA
Postal Code	98077	Country	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	PHILIPPE		DI CRISTO	

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

City	BELLEVUE	State/Province	WA	Country of Residence	US

Mailing Address of Inventor:

Address 1	177 107TH AVENUE		
Address 2	N.E. #1007		
City	BELLEVUE	State/Province	WA
Postal Code	98004	Country	US

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	ROBERT	A.	KENNEWICK	

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

City	SEATTLE	State/Province	WA	Country of Residence	US

Mailing Address of Inventor:

Address 1	2204 S. EDDY STREET		
Address 2			
City	SEATTLE	State/Province	WA
Postal Code	98108	Country	US

Inventor 6 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	SAMUEL		MENAKER	

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

City	BELLEVUE	State/Province	WA	Country of Residence	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

Mailing Address of Inventor:			
Address 1	480 150TH PLACE, N.E.		
Address 2			
City	BELLEVUE	**State/Province**	WA
Postal Code	98007	**Country**	US

Inventor 7 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	LYNN	ELISE	ARMSTRONG	

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

City	WOODINVILLE	State/Province	WA	Country of Residence	US

Mailing Address of Inventor:			
Address 1	19807 183RD PLACE, N.E.		
Address 2			
City	WOODINVILLE	**State/Province**	WA
Postal Code	98077	**Country**	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	00909		
Email Address	Docket_ip@pillsburylaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS		
Attorney Docket Number	090611-0433849	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	8	**Suggested Figure for Publication (if any)**	

Filing By Reference :

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	00909		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
14467641	Continuation of	13898045	2013-05-20

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13898045	Continuation of	13488299	2012-06-04	8447607	2013-05-21

Prior Application Status	Patented	Remove

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13488299	Continuation of	13084197	2011-04-11	8195468	2012-06-05
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13084197	Division of	11212693	2005-08-29	7949529	2011-05-24

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

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

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

PTO/AIA/14 (12-13)
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Applicant Information:

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

Applicant 1

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

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

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

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	VOICEBOX TECHNOLOGIES CORPORATION

Mailing Address Information For Applicant:

Address 1	11980 N.E. 24TH STREET		
Address 2	SUITE 100		
City	BELLEVUE	**State/Province**	WA
Country	US	Postal Code	98005
Phone Number		Fax Number	

PTO/AIA/14 (12-13)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

Email Address	

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

Assignee Information including Non-Applicant Assignee Information:

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

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒

Organization Name	VOICEBOX TECHNOLOGIES CORPORATION

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	11980 N.E. 24TH STREET		
Address 2	SUITE 100		
City	BELLEVUE	**State/Province**	WA
Country	US	Postal Code	98005
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

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

Signature	/NGAI B. ZHANG/			Date (YYYY-MM-DD)	2014-12-04
First Name	NGAI	Last Name	ZHANG	Registration Number	65473

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent C o o p eration Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Microsoft v. Dialect - IPR2025-00659
Page 238 of 383

Electronic Acknowledgement Receipt	
EFS ID:	20873335
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	CHRIS WEIDER
Customer Number:	909
Filer:	Ngai Bing Zhang/Monet Noel
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	090611-0433849
Receipt Date:	04-DEC-2014
Filing Date:	25-AUG-2014
Time Stamp:	23:52:39
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		0433849_RequestForCOFR.pdf	1290363 5c71b6239087bf41b97aff9a7a5d62a6388e7cde	yes	16

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Request for Corrected Filing Receipt	1	7
	Application Data Sheet	8	16
Warnings:			
Information:			
	Total Files Size (in bytes):	1290363	

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.

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 12/05/2014

ABALINAN SALE #00000025 Mailroom Dt: 12/04/2014 033975 14467641
01 FC : 2830 70.00 DA

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 14/467,641

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*	x 40 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x 210 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	730		TOTAL	

APPLICATION AS AMENDED - PART II

AMENDMENT A

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

AMENDMENT B

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

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

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/467,641	08/25/2014	2658	800	090611-0433849	20	2

CONFIRMATION NO. 8640

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

FILING RECEIPT

OC000000070511783

Date Mailed: 09/04/2014

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Inventor(s)

CHRIS WEIDER, EVERETT, WA;
RICHARD KENNWICK, WOODINVILLE, WA;
MIKE KENNWICK, BELLEVUE, WA;
PHILIPPE DI CRISTO, BELLEVUE, WA;
ROBERT A. KENNEWICK, SEATTLE, WA;
SAMUEL MENAKER, BELLEVUE, WA;
LYNN ELISE ARMSTRONG, WOODINVILLE, WA;

Applicant(s)

VOICEBOX TECHNOLOGIES CORPORATION, BELLEVUE, WA

Assignment For Published Patent Application

VOICEBOX TECHNOLOGIES CORPORATION, BELLEVUE, WA

Power of Attorney: The patent practitioners associated with Customer Number 00909

Domestic Priority data as claimed by applicant

This application is a CON of 13/898,045 05/20/2013
which is a CON of 13/488,299 06/04/2012 PAT 8447607
which is a CON of 13/084,197 04/11/2011 PAT 8195468
which is a DIV of 11/212,693 08/29/2005 PAT 7949529

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.

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Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 09/02/2014
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/467,641**
Projected Publication Date: 12/11/2014
Non-Publication Request: No
Early Publication Request: No
**** SMALL ENTITY ****
Title

MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

Preliminary Class

704

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

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countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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

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

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

NOT GRANTED

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

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technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/467,641	08/25/2014	CHRIS WEIDER	090611-0433849

CONFIRMATION NO. 8640

909
Pillsbury Winthrop Shaw Pittman, LLP (NV)
PO Box 10500
McLean, VA 22102

NOTICE

OC000000070511784

Date Mailed: 09/04/2014

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  RICHARD KENNWICK
  MIKE KENNWICK

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Page 247 of 383

PTO/AIA/15 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	090611-0433849
First Named Inventor	Chris Weider
Title	PLEASE SEE ADDENDUM
Express Mail Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. [ ] **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. [✓] **Applicant asserts small entity status.** See 37 CFR 1.27
3. [ ] **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. [✓] **Specification** [*Total Pages* 74] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. [✓] **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 8]
6. **Inventor's Oath or Declaration** [*Total Pages* 4] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. [ ] Newly executed (original or copy)
   b. [✓] A copy from a prior application (37 CFR 1.63(d))
7. [✓] **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   [ ] Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. [ ] Computer Readable Form (CRF)
   b. [ ] Specification Sequence Listing on:
      i. [ ] CD-ROM or CD-R (2 copies); or
      ii. [ ] Paper
   c. [ ] Statements verifying identity of above copies

ADDRESS TO:

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

ACCOMPANYING APPLICATION PAPERS

10. [ ] **Assignment Papers** (cover sheet & document(s))
    Name of Assignee _____
11. [✓] **37 CFR 3.73(c) Statement** (*when there is an assignee*) [✓] **Power of Attorney**
12. [ ] **English Translation Document** (*if applicable*)
13. [✓] **Information Disclosure Statement** (PTD/SB/08 or PTO-1449)
    [ ] Copies of citations attached
14. [ ] **Preliminary Amendment**
15. [ ] **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. [ ] **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. [ ] **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. [ ] **Other:** _____

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

[✓] The address associated with Customer Number: 00909 **OR** [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/Ngai B. Zhang/	Date	August 25, 2014
Name (Print/Type)	Ngai B. Zhang	Registration No. (Attorney/Agent)	65,473

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 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 COMPLETEO 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.

ADDENDUM

MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

ATTORNEY DOCKET NUMBER: **090611-0422643**

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

As a below named inventor, I hereby declare that:

This declaration is directed to United States application number 13/898,045 filed on May 20, 2013.

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

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

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

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

(1) Legal Name of Inventor: **CHRIS WEIDER**

Signature: _____ Date: 5/13/14

(2) Legal Name of Inventor: **RICHARD KENNEWICK**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **MIKE KENNEWICK**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **PHILIPPE DI CRISTO**

Signature: _____ Date: _____

Microsoft - Exhibit 1002
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Page 250 of 383

ATTORNEY DOCKET NUMBER: **090611-0422643**

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

As a below named inventor, I hereby declare that:

This declaration is directed to United States application number 13/898,045 filed on May 20, 2013.

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

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

I have reviewed and understand the contents of the application, including the claims.

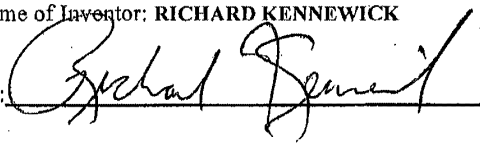
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

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

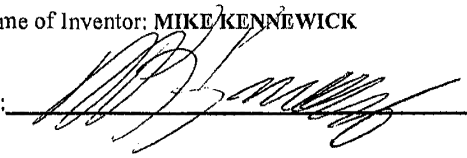
(1) Legal Name of Inventor: **CHRIS WEIDER**

Signature:_____ Date:_____

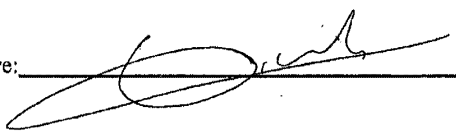
(2) Legal Name of Inventor: **RICHARD KENNEWICK**

Signature:  Date: 5/22/14

(3) Legal Name of Inventor: **MIKE KENNEWICK**

Signature:  Date: 5/22/14

(4) Legal Name of Inventor: **PHILIPPE DI CRISTO**

Signature:  Date: 5/22/14

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 251 of 383

(5) Legal Name of Inventor: **ROBERT A. KENNEWICK**

Signature: _____ Date: 5/12/14

(6) Legal Name of Inventor: **SAMUEL MENAKER**

Signature: _____ Date: 5/12/14

(7) Legal Name of Inventor: **LYNN ELISE ARMSTRONG**

Signature: _____ Date: _____

Microsoft - Exhibit 1002
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Page 252 of 383

ATTORNEY DOCKET NUMBER: 090611-0412643

(5) Legal Name of Inventor: ROBERT A. KENNEWICK

Signature: _____ Date: _____

(6) Legal Name of Inventor: SAMUEL MENAKER

Signature: _____ Date: _____

(7) Legal Name of Inventor: LYNN ELISE ARMSTRONG

Signature: _____ Date: 5-19-14

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 253 of 383

PTO/AIA/80 (07-12)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

■ Practitioners associated with Customer Number: 00909

OR

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

Name	Registration Number	Name	Registration Number

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

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

■ The address associated with Customer Number: 00909

OR

☐	Firm or Individual Name			
	Address			
	City		State	Zip
	Country			
	Telephone		Email	

Assignee Name and Address: VoiceBox Technologies Corporation
11980 NE 24th Street, Suite 100
Bellevue, Washington 98005

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

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

Signature	Todd Kenck	Date	5/13/14
Name	Todd Kenck	Telephone	425.968.7907
Title	Chief Financial Officer of VoiceBox Technologies Corporation		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/AIA/96 (08-12)
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: VoiceBox Technologies Corporation

Application No./Patent No.: New Filed/Issue Date: August 25, 2014

Titled: MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

VoiceBox Technologies Corporation, a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Inventors To: VoiceBox Technologies, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 031329, Frame 0748, or for which a copy thereof is attached.

2. From: VoiceBox Technologies, Inc. To: VoiceBox Technologies Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel 032621, Frame 0087, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 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/AIA/96 (08-12)
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STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☑ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Ngai B. Zhang/	August 25, 2014
Signature	Date
Ngai B. Zhang	65,473
Printed or Typed Name	Title or Registration Number

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	CHRIS		WEIDER	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	EVERETT	State/Province	WA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	2818 GRAND AVENUE
Address 2	#B-508

City	EVERETT	State/Province	WA
Postal Code	98201	Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	RICHARD		KENNWICK	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	WOODINVILLE	State/Province	WA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	14222 227TH AVENUE N.E.
Address 2	

City	WOODINVILLE	State/Province	WA
Postal Code	98077	Country i	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	MIKE		KENNWICK	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

City	BELLEVUE	State/Province	WA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	13407 N.E. 37TH PLACE		
Address 2			
City	BELLEVUE	State/Province	WA
Postal Code	98077	Country i	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	PHILIPPE		DI CRISTO	

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

City	BELLEVUE	State/Province	WA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	177 107TH AVENUE		
Address 2	N.E. #1007		
City	BELLEVUE	State/Province	WA
Postal Code	98004	Country i	US

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	ROBERT	A.	KENNEWICK	

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

City	SEATTLE	State/Province	WA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	2204 S. EDDY STREET		
Address 2			
City	SEATTLE	State/Province	WA
Postal Code	98108	Country i	US

Inventor 6 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	SAMUEL		MENAKER	

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

City	BELLEVUE	State/Province	WA	Country of Residence i	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

Mailing Address of Inventor:

Address 1	480 150TH PLACE, N.E.		
Address 2			
City	BELLEVUE	**State/Province**	WA
Postal Code	98007	**Country** i	US

Inventor 7 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	LYNN	ELISE	ARMSTRONG	

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

City	WOODINVILLE	**State/Province**	WA	**Country of Residence** i	US

Mailing Address of Inventor:

Address 1	19807 183RD PLACE, N.E.		
Address 2			
City	WOODINVILLE	**State/Province**	WA
Postal Code	98077	**Country** i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	00909		
Email Address	Docket_ip@pillsburylaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS		
Attorney Docket Number	090611-0433849	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	8	**Suggested Figure for Publication (if any)**	

Filing By Reference :

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Microsoft v. Dialect - IPR2025-00659
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	00909		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	13898045	2013-05-20
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13898045	Continuation of	13488299	2012-06-04	8447607	2013-05-21
Prior Application Status	Patented				Remove

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13488299	Continuation of	13084197	2011-04-11	8195468	2012-06-05
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13084197	Division of	11212693	2005-08-29	7949529	2011-05-24
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.				Add	

Foreign Priority Information:

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

Remove

Application Number	Country [i]	Filing Date (YYYY-MM-DD)	Access Code [i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

Microsoft - Exhibit 1002
Microsoft v. Dialect - IPR2025-00659
Page 261 of 383

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

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

Applicant 1 Remove

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

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

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

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	VOICEBOX TECHNOLOGIES CORPORATION		
Mailing Address Information:			
Address 1	11980 N.E. 24TH STREET		
Address 2	SUITE 100		
City	BELLEVUE	**State/Province**	WA
Country [i]	US	Postal Code	98005
Phone Number		Fax Number	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

Email Address	

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

Assignee Information including Non-Applicant Assignee Information:

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

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒

Organization Name	VOICEBOX TECHNOLOGIES CORPORATION

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	11980 N.E. 24TH STREET		
Address 2	SUITE 100		
City	BELLEVUE	**State/Province**	WA
Country i	US	Postal Code	98005
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

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

Signature	/NGAI B. ZHANG/			Date (YYYY-MM-DD)	2014-08-25
First Name	NGAI	Last Name	ZHANG	Registration Number	65473

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

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PTO/AIA/14 (12-13)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	090611-0433849
	Application Number	
Title of Invention	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS :	Chris WEIDER *et al.*	CONFIRMATION No.:	To be Determined
SERIAL NUMBER :	To be Determined	EXAMINER:	To be Determined
FILING DATE :	Herewith (August 25, 2014)	ART UNIT:	To be Determined
FOR :	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS		

INFORMATION DISCLOSURE STATEMENT

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

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby makes of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicant has listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

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This Information Disclosure Statement is being filed within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d), or within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, or before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No certification or fee is required. 37 C.F.R. § 1.97(b).

The Foreign Patent Documents and the non-patent literature ("Other Documents") were cited by or submitted to the Office in Application No. 13/898,045, filed May 20, 2013, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By /Ngai B. Zhang/
Ngai B. Zhang
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Dated: August 25, 2014

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0433849	*To be Determined*
	Applicant(s)	
	Chris WEIDER *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1A	4,430,669	02/07/1984	Cheung	358	122	
	1B	4,821,027	04/11/1989	Mallory *et al.*	340	521	
	1C	4,829,423	05/09/1989	Tennant *et al.*	364	200	
	1D	4,910,784	03/20/1990	Doddington *et al.*	381	43	
	1E	5,027,406	06/25/1991	Roberts *et al.*	381	43	
	1F	5,155,743	10/13/1992	Jacobs	375	28	
	1G	5,164,904	11/17/1992	Sumner	364	436	
	1H	5,208,748	05/04/1993	Flores *et al.*	364	419	
	1I	5,274,560	12/28/1993	LaRue	364	444	
	1J	5,357,596	10/18/1994	Takebayashi *et al.*	395	2.84	
	1K	5,377,350	12/27/1994	Skinner	395	600	
	1L	5,386,556	01/31/1995	Hedin et al.	395	600	
	1M	5,424,947	06/13/1995	Nagao et al.	364	419.08	
	1N	5,471,318	11/28/1995	Ahuja et al.	358	400	
	1O	5,475,733	12/12/1995	Eisdorfer et al.	379	52	
	1P	5,488,652	01/30/1996	Bielby *et al.*	379	88	
	1Q	5,499,289	03/12/1996	Bruno et al.	379	220	
	1R	5,500,920	03/19/1996	Kupiec	395	2.79	
	1S	5,517,560	05/14/1996	Greenspan	379	114	
	1T	5,533,108	07/02/1996	Harris et al.	379	201	
	1U	5,537,436	07/16/1996	Bottoms et al.	375	222	
	1V	5,539,744	07/23/1996	Chu et al.	370	60	
	1W	5,557,667	09/17/1996	Bruno et al.	379	201	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO
	1X	1 320 043 A2	06/18/2003	Europe				
	1Y	1 646 037	04/12/2006	Europe				
	1Z	WO 99/46763	09/16/1999	International				
	1AA	WO 00/21232	04/13/2000	International				
	1BB	WO 00/46792	08/10/2000	International				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	1CC	REUTERS, "IBM to Enable Honda Drivers to Talk to Cars", Charles Schwab & Co., Inc., July 28, 2002, 1 page.
	1DD	LIN, Bor-shen, *et al.*, "A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History", ASRU'99, 1999, 4 pages.

EXAMINER	DATE CONSIDERED

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

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0433849	*To be Determined*
	Applicant(s)	
	Chris WEIDER *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2A	5,559,864	09/24/1996	Kennedy, Jr.	379	59	
	2B	5,563,937	10/08/1996	Bruno et al.	379	201	
	2C	5,577,165	11/19/1996	Takebayashi et al.	395	2.84	
	2D	5,590,039	12/31/1996	Ikeda et al.	395	759	
	2E	5,608,635	03/04/1997	Tamai	364	449.3	
	2F	5,617,407	04/01/1997	Bareis	369	275.3	
	2G	5,633,922	05/27/1997	August et al.	379	220	
	2H	5,652,570	07/29/1997	Lepkofker	340	573	
	2I	5,675,629	10/07/1997	Raffel et al.	379	58	
	2J	5,696,965	12/09/1997	Dedrick	395	610	
	2K	5,708,422	01/13/1998	Blonder et al.	340	825.34	
	2L	5,721,938	02/24/1998	Stuckey	395	754	
	2M	5,722,084	02/24/1998	Chakrin et al.	455	551	
	2N	5,740,256	04/14/1998	Castello Da Costa *et al.*	361	94.7	
	2O	5,742,763	04/21/1998	Jones	395	200.3	
	2P	5,748,841	05/05/1998	Morin *et al.*	395	2.66	
	2Q	5,748,974	05/05/1998	Johnson	395	759	
	2R	5,752,052	05/12/1998	Richardson et al.	395	759	
	2S	5,754,784	05/19/1998	Garland et al.	395	200.49	
	2T	5,761,631	06/02/1998	Nasukawa	704	9	
	2U	5,774,841	06/30/1998	Salazar *et al.*	704	225	
	2V	5,774,859	06/30/1998	Houser *et al.*	704	275	
	2W	5,794,050	08/11/1998	Dahlgren et al.	395	708	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO
	2X	WO 01/78065	10/18/2001	International				
	2Y	WO 2004/072954	08/26/2004	International				
	2Z	WO 2007/019318	02/15/2007	International				
	2AA	WO 2007/021587	02/22/2007	International				
	2BB	WO 2007/027546	03/08/2007	International				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	2CC	KUHN, Thomas, *et al.*, "Hybrid In-Car Speech Recognition for Mobile Multimedia Applications", Vehicular Technology Conference, IEEE, July 1999, pages 2009-2013.
	2DD	BELVIN, Robert, *et al.*, "Development of the HRL Route Navigation Dialogue System", Proceedings of the First International Conference on Human Language Technology Research, San Diego, 2001, pages 1-5.

EXAMINER	DATE CONSIDERED

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	090611-0433849	*To be Determined*
	Applicant(s)	
	Chris WEIDER *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3A	5,794,196	08/11/1998	Yegnanarayanan *et al.*	704	255	
	3B	5,797,112	08/18/1998	Komatsu *et al.*	701	201	
	3C	5,799,276	08/25/1998	Komissarchik *et al.*	704	251	
	3D	5,802,510	09/01/1998	Jones	707	2	
	3E	5,832,221	11/03/1998	Jones	375	200.36	
	3F	5,839,107	11/17/1998	Gupta *et al.*	704	270	
	3G	5,848,396	12/08/1998	Gerace	705	10	
	3H	5,855,000	12/29/1998	Waibel *et al.*	704	235	
	3I	5,867,817	02/02/1999	Catallo *et al.*	704	255	
	3J	5,878,385	03/02/1999	Bralich *et al.*	704	9	
	3K	5,878,386	03/02/1999	Coughlin	704	10	
	3L	5,892,813	04/06/1999	Morin *et al.*	379	88.01	
	3M	5,892,900	04/06/1999	Ginter *et al.*	395	186	
	3N	5,895,464	04/20/1999	Bhandari *et al.*	707	3	
	3O	5,895,466	04/20/1999	Goldberg et al.	707	5	
	3P	5,897,613	04/27/1999	Chan	704	210	
	3Q	5,902,347	05/11/1999	Backman *et al.*	701	200	
	3R	5,911,120	06/08/1999	Jarett et al.	455	417	
	3S	5,918,222	06/29/1999	Fukui *et al.*	707	1	
	3T	5,926,784	07/20/1999	Richardson et al.	704	9	
	3U	5,933,822	08/03/1999	Braden-Harder et al.	707	5	
	3V	5,950,167	09/07/1999	Yaker	704	275	
	3W	5,953,393	09/14/1999	Culbreth et al.	379	88.25	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO
	3X	WO 2007/027989	03/08/2007	International				
	3Y	WO 2008/098039	08/14/2008	International				
	3Z	WO 2008/118195	10/02/2008	International				
	3AA	WO 2009/075912	06/18/2009	International				
	3BB	WO 2009/145796	12/03/2009	International				

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	3CC	LIND, R., *et al.*, "The Network Vehicle—A Glimpse into the Future of Mobile Multi-Media", IEEE Aerosp. Electron. Systems Magazine, Volume 14, No. 9, September 1999, pages 27-32.
	3DD	ZHAO, Yilin, "Telematics: Safe and Fun Driving", IEEE Intelligent Systems, Volume 17, Issue 1, 2002, pages 10-14.

EXAMINER	DATE CONSIDERED

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

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4A	5,960,397	09/28/1999	Rahim	704	244	
	4B	5,960,399	09/28/1999	Barclay *et al.*	704	270	
	4C	5,960,447	09/28/1999	Holt *et al.*	707	500	
	4D	5,963,894	10/05/1999	Richardson et al.	704	9	
	4E	5,963,940	10/05/1999	Liddy et al.	707	5	
	4F	5,987,404	11/16/1999	Della Pietra et al.	704	9	
	4G	5,991,721	11/23/1999	Asano et al.	704	257	
	4H	5,995,119	11/30/1999	Cosatto et al.	345	473	
	4I	5,995,928	11/30/1999	Nguyen *et al.*	704	251	
	4J	6,009,382	12/28/1999	Martino et al.	704	1	
	4K	6,014,559	01/11/2000	Amin	455	413	
	4L	6,018,708	01/25/2000	Dahan *et al.*	704	244	
	4M	6,021,384	02/01/2000	Gorin et al.	704	1	
	4N	6,028,514	02/22/2000	Lemelson *et al.*	340	539	
	4O	6,035,267	03/07/2000	Watanabe *et al.*	704	1	
	4P	6,044,347	03/28/2000	Abella et al.	704	272	
	4Q	6,049,602	04/11/2000	Foladare et al.	379	265	
	4R	6,049,607	04/11/2000	Marash *et al.*	379	410	
	4S	6,058,187	05/02/2000	Chen	380	21	
	4T	6,067,513	05/23/2000	Ishimitsu	704	233	
	4U	6,076,059	06/13/2000	Glickman *et al.*	704	260	
	4V	6,078,886	06/20/2000	Dragosh et al.	704	270	
	4W	6,081,774	06/27/2000	De Hita et al.	704	9	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO
	4X	WO 2010/096752	08/26/2010	International				
	4Y	2006-146881	06/08/2006	Japan				
	4Z	2008-027454	02/07/2008	Japan				
	4AA	2008-139928	06/19/2008	Japan				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	4BB	CHAI *et al.*, "MIND: A Semantics-Based Multimodal Interpretation Framework for Conversational System", Proceedings of the International CLASS Workshop on Natural, Intelligent and Effective Interaction in Multimodal Dialogue Systems, June 2002, pages 37-46.
	4CC	CHEYER *et al.*, "Multimodal Maps: An Agent-Based Approach", International Conference on Cooperative Multimodal Communication (CMC/95), May 24-26, 1995, pages 111-121.
	4DD	ELIO *et al.*, "On Abstract Task Models and Conversation Policies" in Workshop on Specifying and Implementing Conversation Policies, Autonomous Agents '99, Seattle, 1999, 10 pages.

EXAMINER	DATE CONSIDERED

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

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Form PTO-1449	Herewith (August 25, 2014)	*To be Determined*

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5A	6,085,186	07/04/2000	Christianson *et al.*	707	3	
	5B	6,101,241	08/08/2000	Boyce et al.	379	88.01	
	5C	6,108,631	08/22/2000	Ruhl	704	270	
	5D	6,119,087	09/12/2000	Kuhn et al.	704	270	
	5E	6,122,613	09/19/2000	Baker	704	235	
	5F	6,134,235	10/17/2000	Goldman et al.	370	352	
	5G	6,144,667	11/07/2000	Doshi et al.	370	401	
	5H	6,144,938	11/07/2000	Surace *et al.*	704	257	
	5I	6,154,526	11/28/2000	Dahlke *et al.*	379	88.03	
	5J	6,160,883	12/12/2000	Jackson et al.	379	230	
	5K	6,167,377	12/26/2000	Gillick *et al.*	704	240	
	5L	6,173,266	01/09/2001	Marx *et al.*	704	270	
	5M	6,173,279	01/09/2001	Levin et al.	707	5	
	5N	6,175,858	01/16/2001	Bulfer *et al.*	709	206	
	5O	6,185,535	02/06/2001	Hedin *et al.*	704	270	
	5P	6,188,982	02/13/2001	Chiang	704	256	
	5Q	6,192,110	02/20/2001	Abella *et al.*	379	88.01	
	5R	6,192,338	02/20/2001	Haszto *et al.*	704	257	
	5S	6,195,634	02/27/2001	Dudemaine *et al.*	704	231	
	5T	6,195,651	02/27/2001	Handel *et al.*	707	2	
	5U	6,199,043	03/06/2001	Happ	704	272	
	5V	6,208,964	03/27/2001	Sabourin	704	244	
	5W	6,208,972	03/27/2001	Grant *et al.*	704	275	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	5X	TURUNEN, "Adaptive Interaction Methods in Speech User Interfaces", Conference on Human Factors in Computing Systems, Seattle, Washington, 2001, pages 91-92.
	5Y	MAO, Mark Z., "Automatic Training Set Segmentation for Multi-Pass Speech Recognition", Department of Electrical Engineering, Stanford University, CA, copyright 2005, IEEE, pages I-685 to I-688.
	5Z	VANHOUCKE, Vincent, "Confidence Scoring and Rejection Using Multi-Pass Speech Recognition", Nuance Communications, Menlo Park, CA, 2005, 4 pages.

EXAMINER	DATE CONSIDERED

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	Chris WEIDER *et al.*	
	Filing Date	Group Art Unit
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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6A	6,219,346	04/17/2001	Maxemchuk	370	338	
	6B	6,219,643	04/17/2001	Cohen *et al.*	704	257	
	6C	6,226,612	05/01/2001	Srenger *et al.*	704	256	
	6D	6,233,556	05/15/2001	Teunen *et al.*	704	250	
	6E	6,233,559	05/15/2001	Balakrishnan	704	275	
	6F	6,233,561	05/15/2001	Junqua *et al.*	704	277	
	6G	6,236,968	05/22/2001	Kanevsky *et al.*	704	275	
	6H	6,246,981	06/12/2001	Papineni *et al.*	704	235	
	6I	6,246,990	06/12/2001	Happ	704	275	
	6J	6,266,636	07/24/2001	Kosaka *et al.*	704	244	
	6K	6,269,336	07/31/2001	Ladd *et al.*	704	270	
	6L	6,272,455	08/07/2001	Hoshen *et al.*	704	1	
	6M	6,275,231	08/14/2001	Obradovich	345	349	
	6N	6,278,377	08/21/2001	DeLine *et al.*	340	815.4	
	6O	6,278,968	08/21/2001	Franz *et al.*	704	3	
	6P	6,288,319	09/11/2001	Catona	84	609	
	6Q	6,292,767	09/18/2001	Jackson *et al.*	704	1	
	6R	6,301,560	10/09/2001	Masters	704	251	
	6S	6,308,151	10/23/2001	Smith	704	235	
	6T	6,314,402	11/06/2001	Monaco et al.	704	275	
	6U	6,321,196	11/20/2001	Franceschi	704	243	
	6V	6,356,869	03/12/2002	Chapados *et al.*	704	275	
	6W	6,362,748	03/26/2002	Huang	340	901	

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	6X	WENG, Fuliang, *et al.*, "Efficient Lattice Representation and Generation", Speech Technology and Research Laboratory, SRI International, Menlo Park, CA, 1998, 4 pages.
	6Y	EL MELIANI *et al.*, "A Syllabic-Filler-Based Continuous Speech Recognizer for Unlimited Vocabulary", Canadian Conference on Electrical and Computer Engineering, Volume 2, September 5-8, 1995, pages 1007-1010.

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	7A	6,366,882	04/02/2002	Bijl *et al.*	704	235	
	7B	6,366,886	04/02/2002	Dragosh et al.	704	270.1	
	7C	6,374,214	04/16/2002	Friedland *et al.*	704	235	
	7D	6,377,913	04/23/2002	Coffman *et al.*	704	8	
	7E	6,381,535	04/30/2002	Durocher *et al.*	701	202	
	7F	6,385,596	05/07/2002	Wiser *et al.*	705	51	
	7G	6,385,646	05/07/2002	Brown et al.	709	217	
	7H	6,393,403	05/21/2002	Majaniemi	704	275	
	7I	6,393,428	05/21/2002	Miller et al.	707	102	
	7J	6,397,181	05/28/2002	Li *et al.*	704	256	
	7K	6,404,878	06/11/2002	Jackson et al.	379	221.01	
	7L	6,405,170	06/11/2002	Phillips *et al.*	704	270	
	7M	6,408,272	06/18/2002	White *et al.*	704	270.1	
	7N	6,411,810	06/25/2002	Maxemchuk	455	453	
	7O	6,411,893	06/25/2002	Ruhl	701	207	
	7P	6,415,257	07/02/2002	Junqua *et al.*	704	275	
	7Q	6,418,210	07/09/2002	Sayko	379	142.15	
	7R	6,420,975	07/16/2002	DeLine *et al.*	340	815.4	
	7S	6,429,813	08/06/2002	Feigen	342	357.13	
	7T	6,430,285	08/06/2002	Bauer et al.	379	265.01	
	7U	6,430,531	08/06/2002	Polish	704	257	
	7V	6,434,523	08/13/2002	Monaco	704	257	
	7W	6,434,524	08/13/2002	Weber	704	257	

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	7X	ARRINGTON, Michael, "Google Redefines GPS Navigation Landscape: Google Maps Navigation for Android 2.0", TechCrunch, printed from the Internet <http://www.techcrunch.com/2009/10/28/google-redefines-car-gps-navigation-google-maps-navigation-android/>, October 28, 2009, 4 pages.
	7Y	BAZZI, Issam *et al.*, "Heterogeneous Lexical Units for Automatic Speech Recognition: Preliminary Investigations", Processing of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Volume 3, June 5-9, 2000, XP010507574, pages 1257-1260.

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	8A	6,434,529	08/13/2002	Walker *et al.*	704	275	
	8B	6,442,522	08/27/2002	Carberry et al.	704	257	
	8C	6,446,114	09/03/2002	Bulfer et al.	709	206	
	8D	6,453,153	09/17/2002	Bowker et al.	455	67.4	
	8E	6,453,292	09/17/2002	Ramaswamy et al.	704	235	
	8F	6,456,711	09/24/2002	Cheung et al.	379	265.09	
	8G	6,456,974	09/24/2002	Baker *et al.*	704	270.1	
	8H	6,466,654	10/15/2002	Cooper *et al.*	379	88.01	
	8I	6,466,899	10/15/2002	Yano *et al.*	704	1	
	8J	6,470,315	10/22/2002	Netsch *et al.*	704	256	
	8K	6,487,494	11/26/2002	Odinak *et al.*	701	202	
	8L	6,487,495	11/26/2005	Gale *et al.*	701	209	
	8M	6,498,797	12/24/2002	Anerousis et al.	370	522	
	8N	6,499,013	12/24/2002	Weber	704	257	
	8O	6,501,833	12/31/2002	Phillips *et al.*	379	88.07	
	8P	6,501,834	12/31/2002	Milewski et al.	379	93.24	
	8Q	6,505,155	01/07/2003	Vanbuskirk *et al.*	704	246	
	8R	6,510,417	01/21/2003	Woods *et al.*	704	275	
	8S	6,513,006	01/28/2003	Howard *et al.*	704	257	
	8T	6,522,746	02/18/2003	Marchok *et al.*	379	406.03	
	8U	6,523,061	02/18/2003	Halverson et al.	709	202	
	8V	6,532,444	03/11/2003	Weber	704	257	
	8W	6,539,348	03/25/2003	Bond et al.	704	9	

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	8X	O'SHAUGHNESSY, Douglas, "Interacting with Computers by Voice: Automatic Speech Recognition and Synthesis", Proceedings of the IEEE, Volume 91, No. 9, September 1, 2003, XP011100665, pages 1272-1305.
	8Y	"Statement in Accordance with the Notice from the European Patent Office dated 1 October 2007 Concerning Business Methods (OJ EPO 11/2007, 592-593), XP002456252

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	9A	6,549,629	04/15/2003	Finn *et al.*	381	92	
	9B	6,553,372	04/22/2003	Brassell et al.	707	5	
	9C	6,556,970	04/29/2003	Sasaki *et al.*	704	257	
	9D	6,556,973	04/29/2003	Lewin	704	277	
	9E	6,560,576	05/06/2003	Cohen et al.	704	270	
	9F	6,560,590	05/06/2003	Shwe *et al.*	706	55	
	9G	6,567,778	05/20/2003	Chao Chang et al.	704	257	
	9H	6,567,797	05/20/2003	Schuetze *et al.*	707	2	
	9I	6,570,555	05/27/2003	Prevost *et al.*	345	156	
	9J	6,570,964	05/27/2003	Murveit et al.	379	67.1	
	9K	6,571,279	05/27/2003	Herz *et al.*	709	217	
	9L	6,574,597	06/03/2003	Mohri *et al.*	704	251	
	9M	6,574,624	06/03/2003	Johnson et al.	707	5	
	9N	6,578,022	06/10/2003	Foulger *et al.*	706	45	
	9O	6,581,103	06/17/2003	Dengler	709	231	
	9P	6,584,439	06/24/2003	Geilhufe *et al.*	704	270	
	9Q	6,587,858	07/01/2003	Strazza	707	102	
	9R	6,591,239	07/08/2003	McCall *et al.*	704	275	
	9S	6,594,257	07/15/2003	Doshi et al.	370	352	
	9T	6,594,367	07/15/2003	Marash *et al.*	381	92	
	9U	6,598,018	07/22/2003	Junqua	704	251	
	9V	6,601,026	07/29/2003	Appelt *et al.*	704	9	
	9W	6,604,075	08/05/2003	Brown *et al.*	704	270.1	

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	10A	6,604,077	08/05/2003	Dragosh et al.	704	270.1	
	10B	6,606,598	08/12/2003	Holthouse *et al.*	704	275	
	10C	6,611,692	08/26/2003	Raffel et al.	455	552	
	10D	6,614,773	09/02/2003	Maxemchuk	370	337	
	10E	6,615,172	09/02/2003	Bennett *et al.*	704	257	
	10F	6,622,119	09/16/2003	Ramaswamy *et al.*	704	9	
	10G	6,629,066	09/30/2003	Jackson et al.	704	9	
	10H	6,631,346	10/07/2003	Karaorman *et al.*	704	9	
	10I	6,631,351	10/07/2003	Ramachandran *et al.*	704	270	
	10J	6,633,846	10/14/2003	Bennett *et al.*	704	257	
	10K	6,636,790	10/21/2003	Lightner *et al.*	701	33	
	10L	6,643,620	11/04/2003	Contolini *et al.*	704	270	
	10M	6,650,747	11/18/2003	Bala et al.	379	265.06	
	10N	6,658,388	12/02/2003	Kleindienst *et al.*	704	275	
	10O	6,678,680	01/13/2004	Woo	707	6	
	10P	6,681,206	01/20/2004	Gorin *et al.*	704	243	
	10Q	6,691,151	02/10/2004	Cheyer et al.	709	202	
	10R	6,701,294	03/02/2004	Ball *et al.*	704	257	
	10S	6,704,396	03/09/2004	Parolkar *et al.*	379	88.17	
	10T	6,704,576	03/09/2004	Brachman *et al.*	455	503	
	10U	6,704,708	03/09/2004	Pickering	704	235	
	10V	6,707,421	03/16/2004	Drury *et al.*	342	357.1	
	10W	6,708,150	03/16/2004	Hirayama *et al.*	704	243	

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	11A	6,721,001	04/13/2004	Berstis	348	231.3	
	11B	6,721,633	04/13/2004	Funk *et al.*	701	1	
	11C	6,721,706	04/13/2004	Strubbe *et al.*	704	275	
	11D	6,726,636	04/27/2004	Der Ghazarian *et al.*	600	532	
	11E	6,735,592	05/11/2004	Neumann *et al.*	707	101	
	11F	6,739,556	05/25/2004	Langston	244	189	
	11G	6,741,931	05/25/2004	Kohut *et al.*	701	209	
	11H	6,742,021	05/25/2004	Halverson *et al.*	709	218	
	11I	6,745,161	06/01/2004	Arnold *et al.*	704	7	
	11J	6,751,591	06/15/2004	Gorin *et al.*	704	257	
	11K	6,751,612	06/15/2004	Schuetze *et al.*	707	4	
	11L	6,754,485	06/22/2004	Obradovich *et al.*	455	414.1	
	11M	6,754,627	06/22/2004	Woodward	704	235	
	11N	6,757,544	06/29/2004	Rangarajan *et al.*	455	456.1	
	11O	6,757,718	06/29/2004	Halverson *et al.*	709	218	
	11P	6,795,808	09/21/2004	Strubbe *et al.*	704	275	
	11Q	6,801,604	10/05/2004	Maes *et al.*	379	88.17	
	11R	6,801,893	10/05/2004	Backfried *et al.*	704	257	
	11S	6,813,341	11/02/2004	Mahoney	379	88.01	
	11T	6,829,603	12/07/2004	Chai *et al.*	707	5	
	11U	6,832,230	12/14/2004	Zilliacus *et al.*	707	203	
	11V	6,833,848	12/21/2004	Wolff *et al.*	345	719	
	11W	6,850,603	02/01/2005	Eberle *et al.*	379	88.16	

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	12A	6,856,990	02/15/2005	Barile *et al.*	707	10	
	12B	6,865,481	03/08/2005	Kawazoe *et al.*	701	211	
	12C	6,868,380	03/15/2005	Kroeker	704	240	
	12D	6,868,385	03/15/2005	Gerson	704	275	
	12E	6,873,837	03/29/2005	Yoshioka *et al.*	455	321	
	12F	6,877,001	04/05/2005	Wolf *et al.*	707	3	
	12G	6,877,134	04/05/2005	Fuller *et al.*	715	500.1	
	12H	6,901,366	05/31/2005	Kuhn *et al.*	704	275	
	12I	6,910,003	06/21/2005	Arnold *et al.*	704	4	
	12J	6,912,498	06/28/2005	Stevens *et al.*	704	235	
	12K	6,915,126	07/05/2005	Mazzara, Jr.	455	411	
	12L	6,928,614	08/09/2005	Everhart	715	728	
	12M	6,934,756	08/23/2005	Maes	709	227	
	12N	6,937,977	08/30/2005	Gerson	704	201	
	12O	6,937,982	08/30/2005	Kitaoka *et al.*	704	252	
	12P	6,944,594	09/13/2005	Busayapongchai *et al.*	704	275	
	12Q	6,950,821	09/27/2005	Faybishenko *et al.*	707	10	
	12R	6,954,755	10/11/2005	Reisman	707	10	
	12S	6,959,276	10/25/2005	Droppo *et al.*	704	226	
	12T	6,961,700	11/01/2005	Mitchell *et al.*	704	235	
	12U	6,963,759	11/08/2005	Gerson	455	563	
	12V	6,964,023	11/08/2005	Maes *et al.*	715	811	
	12W	6,968,311	11/22/2005	Knockeart *et al.*	704	270	

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	13A	6,973,387	12/06/2005	Masclet *et al.*	701	211	
	13B	6,975,993	12/13/2005	Keiller	704	275	
	13C	6,980,092	12/27/2005	Turnbull *et al.*	340	425.5	
	13D	6,983,055	01/03/2006	Luo	381	313	
	13E	6,990,513	01/24/2006	Belfiore *et al.*	709	203	
	13F	6,996,531	02/07/2006	Korall *et al.*	704	270	
	13G	7,003,463	02/21/2006	Maes *et al.*	704	270.1	
	13H	7,016,849	03/21/2006	Arnold *et al.*	704	275	
	13I	7,020,609	03/28/2006	Thrift *et al.*	704	270.1	
	13J	7,024,364	04/04/2006	Guerra *et al.*	704	270	
	13K	7,027,586	04/11/2006	Bushey *et al.*	379	265.09	
	13L	7,027,975	04/11/2006	Pazandak *et al.*	704	9	
	13M	7,035,415	04/25/2006	Belt *et al.*	381	92	
	13N	7,036,128	04/25/2006	Julia *et al.*	719	317	
	13O	7,043,425	05/09/2006	Pao	704	211	
	13P	7,054,817	05/30/2006	Shao	704	270	
	13Q	7,058,890	06/06/2006	George *et al.*	715	728	
	13R	7,062,488	06/13/2006	Reisman	707	8	
	13S	7,069,220	06/27/2006	Coffman *et al.*	704	275	
	13T	7,072,834	07/04/2006	Zhou	704	244	
	13U	7,076,362	07/11/2006	Ohtsuji *et al.*	701	211	
	13V	7,082,469	07/25/2006	Gold *et al.*	709	231	
	13W	7,085,708	08/01/2006	Manson	704	9	

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	14A	7,092,928	08/15/2006	Elad *et al.*	706	60	
	14B	7,107,210	09/12/2006	Deng *et al.*	704	226	
	14C	7,107,218	09/12/2006	Preston	704	270	
	14D	7,110,951	09/19/2006	Lemelson *et al.*	704	270	
	14E	7,127,400	10/24/2006	Koch	704	270.1	
	14F	7,130,390	10/31/2006	Abburi	379	88.17	
	14G	7,136,875	11/14/2006	Anderson *et al.*	707	104.1	
	14H	7,137,126	11/14/2006	Coffman *et al.*	719	328	
	14I	7,143,037	11/28/2006	Chestnut	704	251	
	14J	7,143,039	11/28/2006	Stifelman *et al.*	704	270	
	14K	7,146,319	12/05/2006	Hunt	704	254	
	14L	7,149,696	12/12/2006	Shimizu *et al.*	705	1	
	14M	7,165,028	01/16/2007	Gong	704	233	
	14N	7,170,993	01/30/2007	Anderson *et al.*	379	265.09	
	14O	7,171,291	01/30/2007	Obradovich	701	29	
	14P	7,174,300	02/06/2007	Bush	704	275	
	14Q	7,177,798	02/13/2007	Hsu *et al.*	704	9	
	14R	7,184,957	02/27/2007	Brookes *et al.*	704	246	
	14S	7,190,770	03/13/2007	Ando *et al.*	379	88.01	
	14T	7,197,069	03/27/2007	Agazzi *et al.*	375	233	
	14U	7,197,460	03/27/2007	Gupta *et al.*	704	270.1	
	14V	7,203,644	04/10/2007	Anderson *et al.*	704	246	
	14W	7,206,418	04/17/2007	Yang *et al.*	381	92	

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	15A	7,207,011	04/17/2007	Mulvey *et al.*	715	812	
	15B	7,215,941	05/08/2007	Beckmann *et al.*	455	404.1	
	15C	7,228,276	06/05/2007	Omote *et al.*	704	243	
	15D	7,231,343	06/12/2007	Treadgold *et al.*	704	9	
	15E	7,236,923	06/26/2007	Gupta	704	9	
	15F	7,254,482	08/07/2007	Kawasaki *et al.*	701	211	
	15G	7,272,212	09/18/2007	Eberle *et al.*	379	88.17	
	15H	7,277,854	10/02/2007	Bennett *et al.*	704	257	
	15I	7,283,829	10/16/2007	Christenson *et al.*	455	461	
	15J	7,283,951	10/16/2007	Marchisio *et al.*	704	9	
	15K	7,289,606	10/30/2007	Sibal *et al.*	379	52	
	15L	7,299,186	11/20/2007	Kuzunuki *et al.*	704	270.1	
	15M	7,301,093	11/27/2007	Sater *et al.*	84	615	
	15N	7,305,381	12/04/2007	Poppink *et al.*	1	1	
	15O	7,321,850	01/22/2008	Wakita	704	10	
	15P	7,328,155	02/05/2008	Endo *et al.*	704	251	
	15Q	7,337,116	02/26/2008	Charlesworth *et al.*	704	254	
	15R	7,340,040	03/04/2008	Saylor *et al.*	379	67.1	
	15S	7,366,285	04/29/2008	Parolkar *et al.*	379	88.17	
	15T	7,366,669	04/29/2008	Nishitani *et al.*	704	256	
	15U	7,376,645	05/20/2008	Bernard	707	3	
	15V	7,386,443	06/10/2008	Parthasarathy *et al.*	704	201	
	15W	7,398,209	07/08/2008	Kennewick *et al.*	704	255	

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	16A	7,406,421	07/29/2008	Odinak *et al.*	704	275	
	16B	7,415,414	08/19/2008	Azara *et al.*	704	270	
	16C	7,421,393	09/02/2008	Di Fabbrizio *et al.*	704	275	
	16D	7,424,431	09/09/2008	Greene *et al.*	704	270	
	16E	7,447,635	11/04/2008	Konopka *et al.*	704	275	
	16F	7,451,088	11/11/2008	Ehlen *et al.*	704	270.1	
	16G	7,454,608	11/18/2008	Gopalakrishnan *et al.*	713	100	
	16H	7,461,059	12/02/2008	Richardson *et al.*	707	5	
	16I	7,472,020	12/30/2008	Brulle-Drews	701	211	
	16J	7,472,060	12/30/2008	Gorin *et al.*	704	240	
	16K	7,472,075	12/30/2008	Odinak *et al.*	705	26	
	16L	7,477,909	01/13/2009	Roth	455	466	
	16M	7,478,036	01/13/2009	Shen *et al.*	704	9	
	16N	7,487,088	02/03/2009	Gorin *et al.*	704	240	
	16O	7,487,110	02/03/2009	Bennett *et al.*	705	26	
	16P	7,493,259	02/17/2009	Jones *et al.*	704	257	
	16Q	7,493,559	02/17/2009	Wolff *et al.*	715	727	
	16R	7,502,672	03/10/2009	Kolls	701	29	
	16S	7,502,738	03/10/2009	Kennewick *et al.*	704	257	
	16T	7,516,076	04/07/2009	Walker *et al.*	704	275	
	16U	7,529,675	05/05/2009	Maes	704	270.1	
	16V	7,536,297	05/19/2009	Byrd *et al.*	704	10	
	16W	7,536,374	05/19/2009	Au	706	55	

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	17A	7,542,894	06/02/2009	Murata	704	9	
	17B	7,546,382	06/09/2009	Healey *et al.*	709	246	
	17C	7,548,491	06/16/2009	Macfarlane	367	198	
	17D	7,552,054	06/23/2009	Stifelman *et al.*	704	270	
	17E	7,558,730	07/07/2009	Davis *et al.*	704	235	
	17F	7,574,362	08/11/2009	Walker *et al.*	704	275	
	17G	7,577,244	08/18/2009	Taschereau	379	218.01	
	17H	7,606,708	10/20/2009	Hwang	704	257	
	17I	7,620,549	11/17/2009	Di Cristo *et al.*	704	257	
	17J	7,634,409	12/15/2009	Kennewick *et al.*	704	257	
	17K	7,640,006	12/29/2009	Portman *et al.*	455	412.1	
	17L	7,640,160	12/29/2009	Di Cristo *et al.*	704	257	
	17M	7,640,272	12/29/2009	Mahajan *et al.*	707	104.1	
	17N	7,676,365	03/09/2010	Hwang *et al.*	704	240	
	17O	7,676,369	03/09/2010	Fujimoto *et al.*	704	270	
	17P	7,684,977	03/23/2010	Morikawa	704	211	
	17Q	7,693,720	04/06/2010	Kennewick *et al.*	704	275	
	17R	7,729,916	06/01/2010	Coffman *et al.*	704	270	
	17S	7,729,918	06/01/2010	Walker *et al.*	704	275	
	17T	7,729,920	06/01/2010	Chaar *et al.*	704	275	
	17U	7,734,287	06/08/2010	Ying	455	423	
	17V	7,748,021	06/29/2010	Obradovich	725	105	
	17W	7,788,084	08/31/2010	Brun *et al.*	704	7	

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	18A	7,801,731	09/21/2010	Odinak *et al.*	704	275	
	18B	7,809,570	10/05/2010	Kennewick *et al.*	704	257	
	18C	7,818,176	10/19/2010	Freeman *et al.*	704	270	
	18D	7,831,426	11/09/2010	Bennett	704	252	
	18E	7,831,433	11/09/2010	Belvin *et al.*	704	275	
	18F	7,856,358	12/21/2010	Ho	704	270	
	18G	7,873,519	01/18/2011	Bennett	704	257	
	18H	7,873,523	01/18/2011	Potter *et al.*	704	275	
	18I	7,873,654	01/18/2011	Bernard	707	769	
	18J	7,881,936	02/01/2011	Longe *et al.*	704	257	
	18K	7,890,324	02/15/2011	Bangalore *et al.*	704	231	
	18L	7,894,849	02/22/2011	Kass *et al.*	455	550.1	
	18M	7,902,969	03/08/2011	Obradovich	340	439	
	18N	7,917,367	03/29/2011	Di Cristo *et al.*	704	270.1	
	18O	7,920,682	04/05/2011	Byrne *et al.*	379	88.18	
	18P	7,949,529	05/24/2011	Weider *et al.*	704	270	
	18Q	7,949,537	05/24/2011	Walker *et al.*	704	275	
	18R	7,953,732	05/31/2011	Frank *et al.*	707	724	
	18S	7,974,875	07/05/2011	Quilici *et al.*	705	14.4	
	18T	7,983,917	07/19/2011	Kennewick *et al.*	704	257	
	18U	7,984,287	07/19/2011	Gopalakrishnan *et al.*	713	100	
	18V	8,005,683	08/23/2011	Tessel *et al.*	704	275	
	18W	8,015,006	09/06/2011	Kennewick *et al.*	704	236	

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	19A	8,060,367	11/15/2011	Keaveney	704	247	
	19B	8,069,046	11/29/2011	Kennewick *et al.*	704	257	
	19C	8,073,681	12/06/2011	Baldwin *et al.*	704	9	
	19D	8,077,975	12/13/2011	Ma *et al.*	382	187	
	19E	8,082,153	12/20/2011	Coffman *et al.*	704	270	
	19F	8,086,463	12/27/2011	Ativanichayaphong *et al.*	704	275	
	19G	8,112,275	02/07/2012	Kennewick *et al.*	704	240	
	19H	8,140,327	03/20/2012	Kennewick *et al.*	704	226	
	19I	8,140,335	03/20/2012	Kennewick *et al.*	704	257	
	19J	8,145,489	03/27/2012	Freeman *et al.*	704	257	
	19K	8,150,694	04/03/2012	Kennewick *et al.*	704	257	
	19L	8,155,962	04/10/2012	Kennewick *et al.*	704	257	
	19M	8,170,867	05/01/2012	Germain	704	9	
	19N	8,195,468	06/05/2012	Weider *et al.*	704	275	
	19O	8,219,399	07/10/2012	Lutz *et al.*	704	270	
	19P	8,219,599	07/10/2012	Tunstall-Pedoe	707	955	
	19Q	8,224,652	07/17/2012	Wang *et al.*	704	275	
	19R	8,255,224	08/28/2012	Singleton *et al.*	704	275	
	19S	8,326,627	12/04/2012	Kennewick *et al.*	704	257	
	19T	8,326,634	12/04/2012	Di Cristo *et al.*	704	270.1	
	19U	8,326,637	12/04/2012	Baldwin *et al.*	704	275	
	19V	8,332,224	12/11/2012	Di Cristo *et al.*	704	257	
	19W	8,370,147	02/05/2013	Kennewick *et al.*	704	257	

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	20A	8,447,607	05/21/2013	Weider *et al.*	704	250	
	20B	8,452,598	05/28/2013	Kennewick *et al.*	704	257	
	20C	8,509,403	08/13/2013	Chiu *et al.*	379	114.13	
	20D	8,515,765	08/20/2013	Baldwin et al.	704	275	
	20E	8,527,274	09/03/2013	Freeman *et al.*	704	257	
	20F	8,589,161	11/19/2013	Kennewick *et al.*	704	252	
	20G	8,620,659	12/31/2013	Di Cristo et al.	704	257	
	20H	8,719,009	05/06/2014	Baldwin et al.	704	9	
	20I	8,719,026	05/06/2014	Kennewick *et al.*	704	257	
	20J	8,738,380	05/27/2014	Baldwin *et al.*	704	257	
	20K	2001/0041980	11/15/2001	Howard *et al.*	704	270	
	20L	2001/0049601	12/06/2001	Kroeker *et al.*	704	254	
	20M	2001/0054087	12/20/2001	Flom *et al.*	709	218	
	20N	2002/0015500	02/07/2002	Belt *et al.*	381	66	
	20O	2002/0022927	02/21/2002	Lemelson *et al.*	701	301	
	20P	2002/0029261	03/07/2002	Shibata	709	219	
	20Q	2002/0032752	03/14/2002	Gold *et al.*	709	218	
	20R	2002/0035501	03/21/2002	Handel *et al.*	705	10	
	20S	2002/0040297	04/04/2002	Tsiao *et al.*	704	257	
	20T	2002/0049535	04/25/2002	Rigo *et al.*	701	211	
	20U	2002/0049805	04/25/2002	Yamada *et al.*	709	202	
	20V	2002/0065568	05/30/2002	Silfvast *et al.*	700	94	
	20W	2002/0067839	06/06/2002	Heinrich	381	110	

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	21A	2002/0069059	06/06/2002	Smith	704	257	
	21B	2002/0069071	06/06/2002	Knockeart et al.	704	275	
	21C	2002/0082911	06/27/2002	Dunn *et al.*	705	14	
	21D	2002/0087326	07/04/2002	Lee *et al.*	704	270.1	
	21E	2002/0087525	07/04/2002	Abbott *et al.*	707	3	
	21F	2002/0107694	08/08/2002	Lerg	704	273	
	21G	2002/0120609	08/29/2002	Lang *et al.*	707	1	
	21H	2002/0124050	09/05/2002	Middeljans	709	203	
	21I	2002/0133354	09/19/2002	Ross *et al.*	704	275	
	21J	2002/0133402	09/19/2002	Faber *et al.*	705	14	
	21K	2002/0135618	09/26/2002	Maes et al.	345	767	
	21L	2002/0138248	09/26/2002	Corston-Oliver *et al.*	704	1	
	21M	2002/0143532	10/03/2002	McLean *et al.*	704	235	
	21N	2002/0143535	10/03/2002	Kist *et al.*	704	251	
	21O	2002/0161646	10/31/2002	Gailey *et al.*	705	14	
	21P	2002/0173333	11/21/2002	Buchholz *et al.*	455	527	
	21Q	2002/0173961	11/21/2002	Guerra	704	258	
	21R	2002/0184373	12/05/2002	Maes	709	228	
	21S	2002/0188602	12/12/2002	Stubler *et al.*	707	3	
	21T	2002/0198714	12/26/2002	Zhou	704	252	
	21U	2003/0014261	01/16/2003	Kageyama	704	275	
	21V	2003/0016835	01/23/2003	Elko *et al.*	381	92	
	21W	2003/0046346	03/06/2003	Mumick *et al.*	709	205	

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	22A	2003/0064709	04/03/2003	Gailey *et al.*	455	412	
	22B	2003/0065427	04/03/2003	Funk *et al.*	701	1	
	22C	2003/0069734	04/10/2003	Everhart	704	275	
	22D	2003/0088421	05/08/2003	Maes *et al.*	704	270.1	
	22E	2003/0097249	05/22/2003	Walker *et al.*	704	1	
	22F	2003/0110037	06/12/2003	Walker *et al.*	704	257	
	22G	2003/0112267	06/19/2003	Belrose	345	728	
	22H	2003/0115062	06/19/2003	Walker *et al.*	704	258	
	22I	2003/0120493	06/26/2003	Gupta	704	270.1	
	22J	2003/0135488	07/17/2003	Amir *et al.*	707	3	
	22K	2003/0144846	07/31/2003	Denenberg *et al.*	704	277	
	22L	2003/0158731	08/21/2003	Falcon *et al.*	704	231	
	22M	2003/0161448	08/28/2003	Parolkar *et al.*	379	88.17	
	22N	2003/0182132	09/25/2003	Niemoeller	704	275	
	22O	2003/0204492	10/30/2003	Wolf *et al.*	707	3	
	22P	2003/0206640	11/06/2003	Malvar *et al.*	381	93	
	22Q	2003/0212550	11/13/2003	Ubale	704	215	
	22R	2003/0212558	11/13/2003	Matula	704	260	
	22S	2003/0212562	11/13/2003	Patel *et al.*	704	275	
	22T	2003/0225825	12/04/2003	Healey *et al.*	709	203	
	22U	2003/0236664	12/25/2003	Sharma	704	251	
	22V	2004/0006475	01/08/2004	Ehlen *et al.*	704	270.1	
	22W	2004/0010358	01/15/2004	Oesterling *et al.*	701	49	

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	Chris WEIDER *et al.*	
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	23A	2004/0025115	02/05/2004	Sienel *et al.*	715	513	
	23B	2004/0044516	03/04/2004	Kennewick *et al.*	704	5	
	23C	2004/0098245	05/20/2004	Walker *et al.*	704	1	
	23D	2004/0117179	06/17/2004	Balasuriya	704	231	
	23E	2004/0117804	06/17/2004	Scahill *et al.*	719	320	
	23F	2004/0122674	06/24/2004	Bangalore *et al.*	704	276	
	23G	2004/0140989	07/22/2004	Papageorge	345	700	
	23H	2004/0158555	08/12/2004	Seedman *et al.*	707	3	
	23I	2004/0166832	08/26/2004	Portman *et al.*	455	412.1	
	23J	2004/0167771	08/26/2004	Duan *et al.*	704	10	
	23K	2004/0172258	09/02/2004	Dominach *et al.*	704	277	
	23L	2004/0193408	09/30/2004	Hunt	704	209	
	23M	2004/0193420	09/30/2004	Kennewick *et al.*	704	257	
	23N	2004/0199375	10/07/2004	Ehsani *et al.*	704	4	
	23O	2004/0205671	10/14/2004	Sukehiro *et al.*	715	532	
	23P	2004/0243417	12/02/2004	Pitts, III *et al.*	704	276	
	23Q	2005/0015256	01/20/2005	Kargman	704	272	
	23R	2005/0021334	01/27/2005	Iwahashi	704	240	
	23S	2005/0021470	01/27/2005	Martin *et al.*	705	51	
	23T	2005/0021826	01/27/2005	Kumar	709	232	
	23U	2005/0033574	02/10/2005	Kim *et al.*	704	251	
	23V	2005/0033582	02/10/2005	Gadd *et al.*	704	277	
	23W	2005/0043940	02/24/2005	Elder	704	9	

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	24B	2005/0125232	06/09/2005	Gadd	704	270.1	
	24C	2005/0131673	06/16/2005	Koizumi *et al.*	704	2	
	24D	2005/0137850	06/23/2005	Odell	704	4	
	24E	2005/0137877	06/23/2005	Oesterling *et al.*	704	275	
	24F	2005/0143994	06/30/2005	Mori *et al.*	704	235	
	24G	2005/0216254	09/29/2005	Gupta *et al.*	704	9	
	24H	2005/0234727	10/20/2005	Chiu	704	270.1	
	24I	2005/0246174	11/03/2005	DeGolia	704	270	
	24J	2005/0283752	12/22/2005	Fruchter *et al.*	717	100	
	24K	2006/0041431	02/23/2006	Maes	704	270.1	
	24L	2006/0047509	03/02/2006	Ding *et al.*	704	231	
	24M	2006/0206310	09/14/2006	Ravikumar *et al.*	704	9	
	24N	2006/0217133	09/28/2006	Christenson *et al.*	455	461	
	24O	2006/0285662	12/21/2006	Yin *et al.*	379	88.16	
	24P	2007/0033005	02/08/2007	Cristo *et al.*	704	9	
	24Q	2007/0033020	02/08/2007	(Kelleher) Francois *et al.*	704	226	
	24R	2007/0038436	02/15/2007	Cristo *et al.*	704	9	
	24S	2007/0043569	02/22/2007	Potter, III *et al.*	704	270	
	24T	2007/0043574	02/22/2007	Coffman *et al.*	704	275	
	24U	2007/0043868	02/22/2007	Kumar *et al.*	709	226	
	24V	2007/0050191	03/01/2007	Weider *et al.*	704	275	
	24W	2007/0055525	03/08/2007	Kennewick *et al.*	704	257	

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	25A	2007/0061067	03/15/2007	Zeinstra *et al.*	701	200	
	25B	2007/0061735	03/15/2007	Hoffberg *et al.*	715	744	
	25C	2007/0073544	03/29/2007	Millett *et al.*	704	277	
	25D	2007/0078708	04/05/2007	Yu *et al.*	705	14	
	25E	2007/0078709	04/05/2007	Rajaram	705	14	
	25F	2007/0118357	05/24/2007	Kasravi *et al.*	704	10	
	25G	2007/0135101	06/14/2007	Ramati *et al.*	455	414.1	
	25H	2007/0146833	06/28/2007	Satomi *et al.*	358	537	
	25I	2007/0162296	07/12/2007	Altberg *et al.*	705	1	
	25J	2007/0179778	08/02/2007	Gong *et al.*	704	9	
	25K	2007/0186165	08/09/2007	Maislos *et al.*	715	728	
	25L	2007/0198267	08/23/2007	Jones *et al.*	704	257	
	25M	2007/0203736	08/30/2007	Ashton	705	1	
	25N	2007/0214182	09/13/2007	Rosenberg	707	104.1	
	25O	2007/0250901	10/25/2007	McIntire *et al.*	725	146	
	25P	2007/0265850	11/15/2007	Kennewick *et al.*	704	257	
	25Q	2007/0299824	12/27/2007	Pan *et al.*	707	3	
	25R	2008/0034032	02/07/2008	Healey *et al.*	709	203	
	25S	2008/0065386	03/13/2008	Cross *et al.*	704	270	
	25T	2008/0091406	04/17/2008	Baldwin *et al.*	704	4	
	25U	2008/0103761	05/01/2008	Printz *et al.*	704	9	
	25V	2008/0109285	05/08/2008	Reuther *et al.*	705	7	
	25W	2008/0115163	05/15/2008	Gilboa *et al.*	725	34	

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	26A	2008/0133215	06/05/2008	Sarukkai	704	2	
	26B	2008/0140385	06/12/2008	Mahajan *et al.*	704	9	
	26C	2008/0147410	06/19/2008	Odinak	704	270.1	
	26D	2008/0154604	06/26/2008	Sathish *et al.*	704	257	
	26E	2008/0177530	07/24/2008	Cross *et al.*	704	4	
	26F	2008/0189110	08/07/2008	Freeman *et al.*	704	251	
	26G	2008/0235023	09/25/2008	Kennewick *et al.*	704	257	
	26H	2008/0235027	09/25/2008	Cross	704	270.1	
	26I	2008/0319751	12/25/2008	Kennewick *et al.*	704	257	
	26J	2009/0052635	02/26/2009	Jones *et al.*	379	88.02	
	26K	2009/0067599	03/12/2009	Agarwal *et al.*	379	114.21	
	26L	2009/0076827	03/19/2009	Bulitta *et al.*	704	275	
	26M	2009/0106029	04/23/2009	DeLine *et al.*	704	275	
	26N	2009/0117885	05/07/2009	Roth	455	414.3	
	26O	2009/0144271	06/04/2009	Richardson *et al.*	707	5	
	26P	2009/0150156	06/11/2009	Kennewick *et al.*	704	257	
	26Q	2009/0171664	07/02/2009	Kennewick *et al.*	704	257	
	26R	2009/0216540	08/27/2009	Tessel *et al.*	704	275	
	26S	2009/0271194	10/29/2009	Davis *et al.*	704	235	
	26T	2009/0273563	11/05/2009	Pryor	345	157	
	26U	2009/0276700	11/05/2009	Anderson *et al.*	715	700	
	26V	2009/0299745	12/03/2009	Kennewick *et al.*	704	257	
	26W	2009/0307031	12/10/2009	Winkler *et al.*	705	7	

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	27B	2010/0023320	01/28/2010	Di Cristo *et al.*	704	9	
	27C	2010/0029261	02/04/2010	Mikkelsen *et al.*	455	419	
	27D	2010/0049501	02/25/2010	Kennewick *et al.*	704	9	
	27E	2010/0049514	02/25/2010	Kennewick *et al.*	704	233	
	27F	2010/0057443	03/04/2010	Di Cristo *et al.*	704	9	
	27G	2010/0063880	03/11/2010	Atsmon *et al.*	705	14.53	
	27H	2010/0036967	02/11/2010	Caine *et al.*	709	236	
	27I	2010/0185512	07/22/2010	Borger *et al.*	705	14.49	
	27J	2010/0145700	06/10/2010	Kennewick *et al.*	704	257	
	27K	2010/0204986	08/12/2010	Kennewick *et al.*	704	226	
	27L	2010/0204994	08/12/2010	Kennewick *et al.*	704	257	
	27M	2010/0217604	08/26/2010	Baldwin *et al.*	704	275	
	27N	2010/0286985	11/11/2010	Kennewick *et al.*	704	257	
	27O	2010/0299142	11/25/2010	Freeman *et al.*	704	9	
	27P	2010/0312566	12/09/2010	Odinak *et al.*	704	275	
	27Q	2011/0112827	05/12/2011	Kennewick *et al.*	704	9	
	27R	2011/0112921	05/12/2011	Kennewick *et al.*	705	26.1	
	27S	2011/0131036	06/02/2011	Di Cristo *et al.*	704	9	
	27T	2011/0131045	06/02/2011	Cristo *et al.*	704	249	
	27U	2011/0231182	09/22/2011	Weider *et al.*	704	9	
	27V	2011/0231188	09/22/2011	Kennewick *et al.*	704	236	
	27W	2012/0022857	01/26/2012	Baldwin *et al.*	704	9	

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	28B	2012/0101810	04/26/2012	Kennewick *et al.*	704	9	
	28C	2012/0109753	05/03/2012	Kennewick *et al.*	705	14.58	
	28D	2012/0150636	06/14/2012	Freeman *et al.*	705	14.49	
	28E	2012/0278073	11/01/2012	Weider et al.	704	235	
	28F	2013/0054228	02/28/2013	Baldwin *et al.*	704	9	
	28G	2013/0211710	08/15/2013	Kennewick *et al.*	701	419	
	28H	2013/0253929	09/26/2013	Weider *et al.*	704	235	
	28I	2013/0297293	11/07/2013	Di Cristo *et al.*	704	9	
	28J	2013/0304473	11/14/2013	Baldwin *et al.*	704	257	
	28K	2013/0339022	12/19/2013	Baldwin *et al.*	704	257	
	28L	2014/0012577	01/09/2014	Freeman *et al.*	704	249	
	28M	2014/0108013	04/17/2014	Di Cristo *et al.*	704	254	
	28N	2014/0156278	06/05/2014	Kennewick *et al.*	704	254	

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MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of U.S. Patent Application Serial No. 13/898,045, filed on May 20, 2013, which is a continuation of U.S. patent application Ser. No. 13/488,299, filed on June 4, 2012 (which issued as U.S. Pat. No. 8,447,607 on May 21, 2013), which is a continuation of U.S. patent application Ser. No. 13/084,197, filed on April 11, 2011 (which issued as U.S. Pat. No. 8,195,468 on June 5, 2012), which is a divisional of U.S. patent application Ser. No. 11/212,693, entitled "Mobile Systems and Methods of Supporting Natural Language Human-Machine Interactions," filed August 29, 2005 (which issued as U.S. Pat. No. 7,949,529 on May 24, 2011), the contents of which are hereby incorporated by reference in their entirety.

FIELD OF THE INVENTION

[001] The invention provides mobile devices having a speech interface and/or a combination of a speech interface and a non-speech interface to enable natural language human-machine interactions. More specifically, the invention enables mobile users to submit natural language speech and/or non-speech questions or commands in a wide range of domains. The mobile device is configured to present responses in a natural manner.

BACKGROUND OF THE INVENTION

[002] Telematic systems are systems that bring human-computer interfaces to mobile environments. Conventional computer interfaces use some combination of keyboards, keypads, point and click techniques and touch screen displays. These conventional interface techniques are generally not suitable for mobile environments, due at least in part to the speed of interaction and the inherent danger and distraction. Therefore, speech interfaces are being adopted in many telematic applications.

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[003] However, creating a natural language speech interface that is suitable for use in the mobile environment has proved difficult. A general-purpose telematics system should accommodate commands and requests from a wide range of domains and from many users with diverse preferences and needs. Further, multiple mobile users may want to use such systems, often simultaneously. Finally, most mobile environments are relatively noisy, making speech recognition inherently difficult.

[004] Retrieval of both local and network hosted online information and processing of commands in a natural manner remains a difficult problem in any environment, especially a mobile environment. Cognitive research on human interaction shows that verbal communication, such as a person asking a question or giving a command, typically relies heavily on context and domain knowledge of the target person. By contrast, machine-based requests (a request may be a question, a command, and/or other types of communications) may be highly structured and may not be inherently natural to the human user. Thus, verbal communications and machine processing of requests that are extracted from the verbal communications may be fundamentally incompatible. Yet the ability to allow a person to make natural language speech-based requests remains a desirable goal.

[005] Research has been performed on multiple fields of natural language processing and speech recognition. Speech recognition has steadily improved in accuracy and today is successfully used in a wide range of applications. Natural language processing has previously been applied to the parsing of speech queries. Yet, a limited number of systems have been developed that provide a complete environment for users to make natural language speech requests and/or commands and receive natural sounding responses in a mobile environment. There remain a number of significant barriers to creation of a complete natural language verbal and/or textual-based query and response environment.

[006] The fact that most natural language requests and commands are incomplete in their definition is a significant barrier to natural language query-response interaction.

Further, some questions can only be interpreted in the context of previous questions, knowledge of the domain, or the user's history of interests and preferences. Thus, some natural language questions and commands may not be easily transformed to machine processable form. Compounding this problem, many natural language questions may be ambiguous or subjective. In these cases, the formation of a machine processable query and returning of a natural language response is difficult at best.

[007] Even once a question is asked, parsed and interpreted, machine processable requests and commands must be formulated. Depending on the nature of the question, there may not be a simple set of requests that return an adequate response. Several requests may need to be initiated and even these requests may need to be chained or concatenated to achieve a complete result. Further, no single available source may include the entire set of results required. Thus, multiple requests, perhaps with several parts, may need to be made to multiple data sources, which can be located both locally or remotely. Not all of these sources and requests may return useful results or any results at all.

[008] In a mobile environment, the use of wireless communications may further reduce the chances that requests will be complete or that successful results will be returned. Useful results that are returned are often embedded in other information and may need to be extracted therefrom. For example, a few key words or numbers often need to be "scraped" from a larger amount of other information in a text string, table, list, page, or other information. At the same time, other extraneous information such as graphics or pictures may need to be removed to process the response in speech. In any case, the multiple results should be evaluated and combined to form the best possible answer, even in the case where some requests do not return useful results or fail entirely. In cases where the question is ambiguous or the result inherently subjective, determining the best result to present is a complex process. Finally, to maintain a natural interaction, responses should be returned rapidly to the user. Managing and

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evaluating complex and uncertain requests, while maintaining real-time performance, is a significant challenge.

[009] These and other drawbacks exist in existing systems.

SUMMARY OF THE INVENTION

[010] The invention overcomes these and other drawbacks of prior telematic systems.

[011] According to one aspect of the invention, speech-based and non-speech-based systems are provided that act on commands and retrieve information. The invention uses context, prior information, domain knowledge, and user specific profile data to achieve a natural environment for users that submit requests and/or commands in multiple domains. At each step in the process, accommodation may be made for full or partial failure and graceful recovery. The robustness to partial failure may be achieved through the use of probabilistic and fuzzy reasoning at several stages of the process. This robustness to partial failure promotes the feeling of a natural response to questions and commands.

[012] According to another aspect of the invention, the interactive natural language system (herein "the system") may be incorporated into mobile devices or may be connected to the mobile device via a wired or wireless connection. The mobile device may interface with computers or other electronic control systems through wired or wireless links. The mobile device may also operate independently of a mobile structure and may be used to remotely control devices through a wireless local area connection, a wide area wireless connection or through other communication links.

[013] According to one aspect of the invention, software may be installed onto the mobile device that includes an input module that captures the user input; a parser that parses the input, a text to speech engine module for converting text to speech; a network interface for enabling the device to interface with one or more networks; a non-speech interface module, an event manager for managing events and/or other modules. In some embodiments, the event manager may be in communication with a context description grammar, a user profile module that enables user profiles to be

created, modified and/or accessed, a personality module that enables various personalities to be created and/or used, an agent module, an update manager and one or more databases. It will be understood that this software may be distributed in any way between a mobile device, a computer attached to a mobile structure, a desktop computer or a server without altering the function, features, scope, or intent of the invention.

[014] According to one aspect of the invention, the system may include a speech unit interface device that receives spoken natural language requests, commands and/or other utterances from users, and a computer device or system that receives input from the speech unit and processes the input and responds to the user with a natural language speech response.

[015] According to another aspect of the invention, the system may be interfaced by wired or wireless connections to one or more other systems. The other systems may themselves be distributed between electronic controls or computers that are attached to a mobile structure or are located external to the mobile structure. The other systems may include, electronic control systems, entertainment devices, navigation equipment, measurement equipment or sensors, or other systems. External systems may also be provided with features that include payment systems, emergency assistance networks, remote ordering systems, automated or attended customer service functions, or other features.

[016] According to another aspect of the invention, the system may be deployed in a network of devices that share a common base of agents, data, information, user profiles, histories or other components. Each user may interact with, and receive, the same services and applications at any location equipped with the mobile device on the network. For example, multiple mobile devices may be placed at different locations throughout a home, place of business, vehicle or other location. In such a case, the system can use the location of the particular device addressed by the user as part of the context for the questions asked.

[017] According to one embodiment of the invention, processing may be performed at the mobile devices. The commands may be processed on-board to enable the mobile devices to control themselves and/or to control other mobile devices, fixed computers, mobile telephones, and other devices. Additionally, mobile devices may track context.

[018] According to one embodiment of the invention, infrastructure may be provided to maintain context information during multimodal interactions, such as speech and/or non-speech interactions. According to one exemplary embodiment of the invention, context information may be maintained in a multimodal environment by providing communication channels between mobile device, or multimodal devices, and the system. The communication channels allow the system to receive multimodal input such as text-based commands and questions and/or voice-based commands and questions. According to another embodiment of the invention, the multimodal input may include a string of text, such as keywords, that are received as commands or questions. According to yet another embodiment of the invention, the system may synchronize the context between the mobile devices and the speech-based units. In order to send a response to the corresponding mobile device, the system may track the source and send the response to the corresponding speech interface or the non-speech interface.

[019] According to an alternative embodiment of the invention, context information may be maintained using a context manager that may be centrally positioned to receive input from multiple mobile devices and to provide output to multiple mobile devices. According to one embodiment, the mobile devices that communicate with the context manager may register through a registration module and may subscribe to one or more events. According to another embodiment of the invention, the context manager may receive input in Context XML form, for example. The other registered mobile devices may be informed of context changes through a context tracking module to enable synchronizing of context across the registered modules. According to one embodiment of the invention, registered modules may be added or removed from the system. The

registered modules may include dynamic link libraries (DLLs), or other information sources, that are specific to multimodal devices.

[020] According to yet another alternative embodiment of the invention, context information may be determined from a command or request that is presented in a textual format and/or a command or request that is presented as an utterance and processed using a multi-pass automatic speech recognition module that transcribes the utterance to a text message. The command or request may be compared against a context description grammar to identify a match. Any active grammars in the context description grammar may be scored against the command or request and a best match may be sent to a response generator module. Agents may be associated with corresponding response generator modules and may retrieve the requested information for generation of a response. The agents may update a context stack to enable follow-up requests.

[021] According to another embodiment of the invention, mobile devices may be configured to allow verbal annotations of objects stored thereon. Mobile devices may transcribe the verbal annotation to text and store the textual annotation with the object. Alternatively, mobile devices may be configured to enable users to manually input textual descriptions that are stored along with the objects. According to one embodiment of the invention, the textual annotations and/or textual descriptions may be classified and searched. In an alternative embodiment, mobile devices may classify and search the verbal annotations rather than textual annotations. However, classifying and searching verbal annotations may be considerably more difficult than classifying and searching textual annotations and/or textual descriptions.

[022] According to one embodiment of the invention, the textual annotations and textual descriptions may be communicated using a short message service on the mobile telephone or other device. Short message service is a text message service that enables sending and receiving of short textual messages. The textual messages may be stored at data centers for forwarding to intended recipients. Other configurations may be used.

[023] According to another aspect of the invention, domain specific behavior and information may be organized into data managers. Data managers are autonomous executables that receive, process and respond to user questions, queries and commands. The data managers provide complete, convenient and re-distributable packages or modules of functionality that are typically directed to a specific domain of applications. Data managers may be complete packages of executable code, scripts, links to information, and other forms of communication data that provide a specific package of functionality, usually in a specific domain. In other words, data managers may include components for extending the functionality to a new domain. Further, data managers and their associated data may be updated remotely over a network as new behavior is added or new information becomes available. Data managers may use system resources and the services of other, typically more specialized, data managers. Data managers may be distributed and redistributed in a number of ways including on removable storage media, transfer over networks or attached to emails and other messages. An update manager may be used to add new data managers to the system or update existing data managers.

[024] In order to enhance the natural query and response environment, the system may format results to increase understandability to users. Formatting and presentation of results may be based on the context of the questions, the contents of the response being presented, the history of the interaction with the user, the user's preferences and interests and the nature of the domain. By contrast, rigid, highly formatted, or structured presentation of results may be deemed unnatural by many users.

[025] According to another embodiment of the invention, the system may simulate some aspects of a human "personality". In some cases, the presentation of the response and the terms that are used to provide the response may be randomized to avoid the appearance of rigidly formatted or mechanical responses. The use of other simulated personality characteristics is also desirable. For example, a response that may be upsetting to the user may be presented in a sympathetic manner. Furthermore,

results of requests may be long text strings, lists, tables or other lengthy sets of data. Natural presentation of this type of information presents particular challenges because simply reading the long response is generally not preferred. Instead, the system may parse important sections from the response and may initially provide only reports. Determining what parts of a long response are presented may be based on the context of the questions, the contents of the response being presented, the history of the interaction with the user, the user's preferences and interests and the nature of the domain. At the same time, the system may give the user interactive control over what information to present and how much information to present, to stop the response all together, or to take other actions.

[026] The invention may be applied as a user interface to telematics systems in a wide variety of environments. These environments may include, but are not limited to, the following: 1) personal automobiles, rented automobiles, or fleet automobiles; 2) motorcycles, scooters, and other two wheeled or open-air vehicles; 3)commercial long-haul and short haul trucks; 4) delivery service vehicles; 5) fleet service vehicles; 6) industrial vehicles; 7) agricultural and construction machinery; 8) water-borne vehicles; 9) aircraft; and, 10) specialized military, law enforcement and emergency vehicles.

[027] According to another aspect of the invention, the system may process and respond to questions, requests and/or commands. Keywords or context may be used to determine whether the received utterance and/or textual message include a request or command. For example, utterances may include aspects of questions, requests and/or commands. For example, a user may utter "tune in my favorite radio station." A request is processed to determine the name, the channel, and time for the user's favorite radio station. If the programming on that station is of a type the user generally does not listen to, the system can suggest using an alternative option, such as listening to a CD more likely to please the user. A command must be executed to set a tune the radio station.

[028] The invention can be used for generalized local or network information query, retrieval and presentation in a mobile environment. For each user utterance, including a question or query or set of questions or queries, the system may perform multiple steps possibly including: 1) capturing the user's question or query through speech recognition operating in a variety of real-world environments; 2) parsing and interpreting the question or query; 3) determining the domain of expertise required and the context to invoke the proper resources, including agents; 4) formulating one or more queries to one or more local and/or network data sources or sending appropriate commands to local or remote devices or the system itself; 5) performing required formatting, variable substitutions and transformations to modify the queries to a form most likely to yield desired results from the available sources; 6) executing the multiple queries or commands in an asynchronous manner and dealing gracefully with failures; 7) extracting or scraping the desired information from the one or more results, which may be returned in any one of a number of different formats; 8) evaluating and interpreting the results, including processing of errors, gathered and combine them into a single best result judged to be "best" even if the results are ambiguous, incomplete, or conflicting; 9) performing required formatting, variable substitutions and transformations to modify the results to a form most easily understood by the user; 10) presenting the compound result, through a text to speech engine or multimodal interface, to the user in a useful and/or expected manner; 11) optionally, providing a response to users indicating the success or failure of the command, and possibly including state information; or other steps.

[029] The above steps may be performed with knowledge of the domain of expertise, the context for the question or command, domain specific information, the history of the user's interactions, user preferences, available information sources or commands, and responses obtained from the sources.

[030] Probabilistic or fuzzy set decision and matching methods may be applied to deal with inconsistent, ambiguous, conflicting and incomplete information or responses. In

addition, asynchronous queries may be used to provide rapid and graceful failure of requests or commands that allow the system to robustly return results quickly and in a manner that seems natural to the user.

[031] Many everyday questions are inherently subjective and result in answers that are a matter of opinion or consensus, as much as fact. Such questions are often ad hoc in their nature, as well. The system, according to another aspect of the invention, may use adaptive, probabilistic, and fuzzy set decision and matching methods to identify the subjective nature of the question and to evaluate a range of possible answers, wherein one or more answers may be selected that most accurately represent the type of result desired by the user.

[032] The context and expected results from a particular question may be highly dependent on the individual asking the question. Therefore, the system may create, store and use personal profile information for each user. Information in the profile may be added and updated automatically as the user uses the system or may be manually added or updated by the user or by others. Domain specific agents may collect, store and use specific profile information, as may be required for optimal operations. Users may create commands for regularly used reports, automatically generated alerts, and other requests and for the formatting and presentation of results. The system may use profile data in interpreting questions, formulating requests, interpreting request results and presenting answers to the user. Examples of information in a user profile includes, history of questions asked, session histories, formatting and presentation preferences, special word spelling, terms of interest, special data sources of interest, age, sex, education, location or address, place of business, type of business, investments, hobbies, sports interests, news interests and other profile data.

[033] According to one aspect of the invention, the system may attempt to provide rapid responses in order to provide a natural question and response environment. The rapid responses may be provided without obtaining additional information. The system may determine agent composition, context and/or domain for a user's question or

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command, for example, by using a real-time scoring system or other technique. Based on this determination, the system may trigger one or more agents to respond to the user's question or command. The agents may make one or more requests and rapidly return a formatted response. Thus, users may receive direct responses to a set of questions, each with a different response or context. In some cases, the available information, including the request results, may not adequately answer the questions presented. In such situations, the user may be asked one or more follow-up questions to resolve the ambiguity. Additional requests may then be made before an adequate response is provided. In these cases, the system may use context information, user profile information and/or domain specific information to minimize the interaction with the user required to deliver a response.

[034] If the confidence level of the domain or context score is not high enough to ensure a reliable response, the system may request that the user verify that the question or command is correctly understood. In general, the question may be phrased to indicate the context of the question including all criteria or parameters. If the user confirms that the question is correct, the system may proceed to produce a response. Otherwise, either the user can rephrase the original question, perhaps adding additional information to remove ambiguity, or the system may ask one or more questions to attempt to resolve the ambiguity or other actions may taken.

[035] According to one aspect of the invention, the system may accept any natural language question or command and, as a result, may be subject to ambiguous requests. To assist users in formulating concise questions and commands, the system may support a voice query language. The language may help users clearly specify the keywords or contexts of the question or command along with the parameters or criteria. The system may provide built in training capabilities to help the user learn the best methods to formulate their questions and commands.

[036] In order to make the responses to user's questions and commands seem more natural, the system may employ one or more dynamically invokeable personalities

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and/or emotional models. Personalities and emotional models have specific characteristics that simulate the behavioral characteristics of real humans. Examples of these characteristics include sympathy, irritation, and helpfulness and associated emotions. The personality also randomizes aspects of responses, just as a real human would do. This behavior includes randomization of terms used and the order of presentation of information. Characteristics of the personality and/or emotions are invoked using probabilistic or fuzzy set decision and matching methods and using criteria, including the context for the question, the history of the user's interaction, user preferences, information sources available, and responses obtained from the sources.

[037] According to another aspect of the invention, special procedures may be employed to present information in the form of long text strings, tables, lists or other long response sets. Simply presenting a long set of information in an ordered manner may not be considered natural or what most users have in mind. The system may use probabilistic or fuzzy set matching methods to extract relevant information and present these subsets first. Further the system may provide commands allowing users to skip through the list, find keywords or key information in the list or stop processing the list altogether.

[038] According to one embodiment of the invention, the system may support multiple users that access the system at different times. According to another embodiment of the invention, the system may support multiple users that access the system during a same session, in an interleaved or overlapping manner. The system may recognize the multiple users by name, voice, or other characteristic and may invoke a correct profile for each user. If multiple users are addressing the system in overlapping or interleaved sessions, the system may identify the multiple users and may invoke one or more corresponding profiles. For applications that require security safeguards, the multiple users may be verified using voiceprint matching, password or pass-phrase matching, or other security safeguards.

[039] When multiple users are engaged in interleaved sessions, the system may gracefully resolve conflicts using a probabilistic or fuzzy set decision method for each user. This process may simulate the manner in which a human would address multiple questions from various sources. For example, the system may answer short questions first in time while answering longer questions later in time. Alternatively, the system may answer questions in the order that they are received, among other configurations.

[040] Since the invention may operate in many environments, including mobile environments with background noise, point noise sources and people holding conversations, filtering of speech input may be advantageous. The invention may use, for example, either one-dimensional or two-dimensional array microphones (or other devices) to receive human speech. The array microphones may be fixed or employ dynamic beam forming techniques. The array pattern may be adjusted to maximize gain in the direction of the user and to null point noise sources. Alternatively, microphones may be placed at particular locations within the mobile environment near where occupants are likely to use the system. These microphones can be single microphones, directional microphones or an array of microphones. Speech received at the microphones may then be processed with analog or digital filters to optimize the bandwidth, cancel echoes, notch-out narrow band noise sources, or perform other functions. Following filtering, the system may use variable rate sampling to maximize the fidelity of the encoded speech, while minimizing required bandwidth. This procedure may be particularly useful in cases where the encoded speech is transmitted over a wireless network or link.

[041] The invention can be applied to a wide range of telematics applications. General applications areas can include, but are not limited to remote or local vehicle control, information query, retrieval and presentation from local or network sources, safety applications, and security applications.

[042] The system may provide local or remote control functions for the system, including devices that are located on the mobile structure or off the mobile structure.

Users may initiate commands locally or remotely. Typically, remote operation may be conducted through an IP connection, a telephone connection, or other connections. The user may address spoken commands to a mobile device or desktop unit, which may send the commands to controllers on the vehicle over wireless links. Other remote command techniques may be used. The system may process commands in a nearly identical manner to a request. One difference being that the result of the command is generally an action rather than a response. In many cases, the system may give the user a cue or response to indicate that the command has been successfully executed or has failed. In cases of failure, an interactive session may be started to allow the user to resolve the difficulty or formulate a command more likely to succeed.

[043] The invention provides users, including mobile structure operators, with the capability to control most any mobile system functions using interactive speech and non-speech commands and/or requests. Generally, controls of a critical nature, or having safety implications, may employ fail-safe checks that, before execution, verify that a command will not create a hazardous condition. Manual overrides may also be provided as an extra precaution. The invention may provide built in help and user guidance for the devices under control. This guidance may include step-by-step training for operators that are learning to use the features of the mobile structure. The system can provide extensive interactive guidance when commands cannot be executed or when commands fail. This advice may include suggestions to reformulate the command to succeed, suggestions to work around a failure, suggestions for alternative commands that may achieve a similar function, or other suggestions. Examples of control functions that can be performed from local or remote locations by the invention include:

1. Control of mobile structure multimedia entertainment electronics, such as radio, CD player, or video player. This control can be based on user specified play lists and may be sensitive to user profile information including, preferences history, or other information. The invention may include the ability to control multiple or individual multimedia entertainment stations.

2. Control of communications devices such as cell phones, voice mail systems, fax systems, text or instant messaging systems, call and message forwarding systems, email systems and other communication devices. This control includes controlling features such as, address books, phone books, call forwarding, conference calling, and voice mail, among others.

3. Local or remote control of mobile structure systems. Most any device on the mobile structure may be controlled including, door locks, window controls, interior temperature controls, shifting of the transmission, turn signals, lights, safety equipment, engine ignition, cruse control, fuel tank switches, seat adjustments, specialized equipment such as winches, lifting systems or loading systems, and other mobile structure systems.

4. Systems that are located external to the mobile structure typically may be controlled through wireless links including, garage door openers, gate controllers, mobile structure entry security passes, automated toll collection systems, and mobile structure weighing systems and other external systems.

5. Mobile structure power management and systems control. The invention may provide the mobile structure operator with information on limitations and on tips for better power management or fuel utilization or other systems control.

6. Diagnostic information management. The invention may provide diagnostic information announcements and warnings for the mobile structure operator. These announcements and warnings may be interactive allowing the operator to request additional information or to suggest various courses of action. The invention may mediate a solution to the problem, including providing access to a scheduling service, summoning help or providing instructions for remedial action until a permanent solution can be achieved. The system can ask the operator to authorize the ordering of needed parts and may provide cost estimates. The system may receive data for these announcements and warnings from a wide range of sources including sensors and vehicle control

computers. Sensors may include fuel level sensors, coolant temperature sensors, oil temperature sensors, axel temperature sensors, tire pressure sensors, and other sensors.

7. System status inquiry. Mobile structure operators may use the interactive natural language interface of the invention to query and receive reports on the status of systems that are located on the mobile structure including, fuel level, interior temperature, outside temperature, engine or other mobile structure system status. The operator can further query the system to receive more information or determine a course of action if problem is detected.

8. Vehicle service history. The invention can provide the vehicle operator or other personnel with interactive access to the vehicle service history. The invention can provide announcements or warnings as the time for service draws near. The user can interact with the system to schedule the required service, order required parts, receive cost estimates, or update the service history. Users may customize the nature of this interaction to suit their desires or policies.

9. Diagnostic and service history. The invention may provide diagnostic and service history information to service personnel. This information may include vehicle fault codes and other information for devices that are under control of or measured by the system. Alternatively, the invention may receive information on the state and history of vehicle operation from other control computers. The invention may provide interactive service information and history. The service history may be queried and presented through the speech interface or the non-speech interface. The system may prompt service personnel for more information if the record is deemed incomplete. In other cases, the invention may prompt service personnel for information on their actions if a change is detected in system status, such as replacement of a part.

[044] The invention can provide users or operators of a mobile structure with specialized safety functions through the interactive speech interface and/or non-speech

interface. The invention may use a dynamically evocable personality that is capable of creating announcements that are appropriate for the severity of the situation. The announcements and personalities may be under user control and configuration. Some examples of these safety applications can include:

1. The invention can provide automated detection and reporting of accident situations through the wireless communications link. Information on an accident situation can be gathered from airbag control systems or other sensors. Once an accident situation has been detected the invention may use the interactive speech interface and/or non-speech interface to determine the nature of the accident and/or the condition of victims. This information, along with location information and other relevant information, may be reported over the wireless link. Alternatively, the invention may establish voice channel communications or other communications between occupants of the vehicle and emergency personnel.

2. The invention can be used to store and retrieve medical information on vehicle occupants. Following an accident, emergency personnel may query the system for this information. Alternatively, the system may annunciate a warning to emergency personnel if a person has a special medical condition. The system maintains the security of medical information through a number of techniques, including not annunciating medical information unless an accident is detected, or not annunciating medical information unless that person or another authorized person gives permission.

3. Occupants of the vehicle can summon help in the event of a crime using the speech interface and/or non-speech interface. Typical crimes may include robberies and hijackings. The invention allows vehicle occupants to set panic or emergency words or phrases that indicate to the system a crime is occurring.

4. The invention can provide the vehicle operator with safety announcements if an unsafe or potentially unsafe situation is detected. The

operator can use the interactive speech interface and/or non-speech interface to obtain more information on the situation or dismiss the alert. The operator can annunciate or otherwise provide commands to remedy or mitigate the situation during this dialog. Conditions that can be announced include, following another vehicle too closely, too great a speed for the road or conditions, obstruction on roadway, a fire in some part of the vehicle, high cargo pressure or temperature, leaks, and other information.

5. The interactive speech interface and non-speech interface of the invention can provide the operator with real-time assistance. This assistance may include, aid in parking or backing a vehicle, aid with complex maneuvers, aid with optimal operation of the vehicle, and other operations. The operator can ask the system for advice or assistance with a planned maneuver or operation. Alternatively, the invention can proactively offer assistance if certain situations are detected.

6. The interactive speech interface and non-speech interface may be used to improve vehicle security. Voiceprints or voice authentication can be used to gain access to the vehicle or start the vehicle. Alternatively or in addition, a password or pass-phrase can be used. In another alternative speech security can be used as a supplement to other vehicle security techniques.

7. The invention can provide measurement of operator fatigue and alert the operator or remote personnel if unacceptable levels of fatigue are detected. The interactive speech interface and/or non-speech interface can be used to query the operator to detect fatigue. Alternatively, or in addition, other measurements of operator fatigue can be used. If a fatigue situation is detected the invention may initiate a dialog with the operator to determine the extent of the problem and if required, ask the operator to cease operation.

[045] The invention can offer vehicle operators and occupants a variety of services that are useful while in the vehicle and/or while arriving at a destination. Further, users

can employ the interactive natural language interface to customize these services to suit each individual. Some examples of services that can be supported by the natural-language interactive speech interface of the invention, include:

1. Providing vehicle operators with interactive directions to a destination or waypoint, wherein the user can specify a desired destination and any preferred waypoints. A destination can be specified in any manner including providing the name of a place, an address, a name of a person, a name of a business, or other type of information. As the trip progresses the system may provide the operator with continued directions and warnings if a mistake has been made. The operator can query the system for additional information or request less information. Generally, the system is interfaced with one or more navigation sensors and local or remote map databases. The invention may provide operators or passengers with alerts of upcoming points or interest, exits or stops, hazards, or other conditions. The users can query the system for more specific information. Alternatively, the invention can provide operators and occupants of the vehicle with an interactive guided tour. The system's information query, retrieval and presentation capability can be employed by users to receive additional information or points or items of interest during the tour and may take into account stored personal profile information for a user.

2. The invention can provide the operator of a vehicle with interactive dynamic routing information. The routing can be updated based on traffic conditions, weather conditions, facilities availability, and information provided by the operator. Generally, the system is interfaced with one or more navigation sensors, local or remote map databases, and sources of traffic, weather, and facilities use data.

3. The direction, routing and communications capabilities of the invention can be combined in an interactive system that helps one or more operators rendezvous at a predetermined destination or any other convenient midpoint.

The operators may use the interactive natural language interface to communicate with the system to arrange the rendezvous, to receive directions as they travel to the rendezvous point and/or to communicate with the other operators.

4. The navigational capabilities of the invention may be used to place limits on where a vehicle is allowed to go and/or for how long. The system may employ the interactive natural language speech interface and/or non-speech interface to inform the operator when the vehicle is approaching or has exceeded a limit. The operator can query the system to determine the best course of action to return to limits or prevent exceeding them. Alternatively, the system can query the operator to determine why they are exceeding the limits or to mediate a negotiation to extend the limits if this is required by circumstances. This capability is useful in several situations including, keeping a delivery or passenger vehicle on a regular route, setting and enforcing use limits on teenagers, preventing an operator from using the vehicle in an unauthorized manner, or other situations.

5. The interactive natural language interface of the invention can be used to provide Customer Relationship Management (CRM) services to vehicle operators and passengers. The user can interact with the services offered via data networks, video signals, or audio. The interaction can be performed with automated services or a live Customer Service Representative. Interactions with the customer service representatives can be through any combination of possible techniques, such as, live audio, live video, electronic messaging or email, instant messaging, and other techniques. These services can be offered by a number of entities including, vehicle manufacturers, vehicle dealers, vehicle service organizations, automobile or travel clubs, wireless carriers, travel service organizations, or other organizations. The services offered can be personalized to the occupants of the vehicle using a variety of information including, user

profile information, history, location, paths traveled, time of day, day of week, or other information. In addition, the system can offer customized services based on information about the vehicle, including paths traveled, distance, service history, type of equipment on vehicle. These services can be accessed while a person is an occupant in a vehicle, while the person is not an occupant but are using a wireless or wired network equipped mobile device or while using a wired or wireless network desktop system, among other situations. Examples of these services include:

a. Location based marketing programs wherein occupants of the vehicle receive promotional offers from merchants along a route of travel. Occupants can query the system for offers and promotions for goods, services, or other information, along the travel route. The system may apply other available information to form a response, including, the user profile, history, location, or other information. The system can provide optimized interactive routing assistance to the vehicle operator. Alternatively, the system can provide interactive offers and promotions for goods and services along the route, or in advance of a particular trip. Promotions can be offered for goods and services can include but are not limited to, travel services, groceries, prepared foods, vehicle service, fuel, entertainment, or other goods and services.

b. Remote ordering and payment for goods and services. The system can interactively present the menu or product catalog using the list and table presentation capabilities of the invention. The system may facilitate remote ordering by using location information, customer preferences, customer order history, etc. The system can manage a secure payment wallet for the users. Voiceprints, spoken passwords, and non-speech security methods (i.e. PIN pad, etc.) can be combined to create the appropriate level of security.

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c. Travel services for occupants of the vehicle. These services can include, directories of travel and entertainment services, or reservations for entertainment restaurants, hotels and other accommodation. The system may present directories, lists and menus using its interactive list and table presentation capabilities. The travel service capability can be used in conjunction with the remote ordering and payment capabilities and the dynamic interactive routing capability.

d. Answer specialized travel related questions in areas such as vehicle registration, taxes, safety laws, required inspections, weight limits, insurance coverage requirements, insurance policy provisions, or other areas.

6. The invention can provide an operator or other occupant of a vehicle with an interactive location sensitive shopping list or a location and time sensitive task reminder list using the natural language interface. Users can create the list while in the vehicle, while on foot using a mobile device, or at a fixed location using a handheld or desktop device. A user may grant permission to other users to add tasks or shopping items to their lists. Once in the vehicle, the system may provide occupants with routing assistance to optimize travel time and may provide reminders of items to be purchased and tasks to be completed as the vehicle comes in close proximity to a particular location, type of merchant or other service provider, or when a set time has been reached, among other criteria.

7. Automatic interactive dispatch and reporting for fleet vehicles having vehicle operators or other vehicle occupants that use the speech interface and/or non-speech interface to interact with these services. These services can include, dynamic optimal routing, inventory of parts and other materials, ordering of required parts and materials, work orders, receipt generation, payments, or other services.

8. Sales force automation, sales reporting, contact database management, calendar management, and call routing. The system may employ its interactive list and table presentation capabilities to supply catalog and pricing information or other information. These services can use local or network data. Additional services can include, memos, reminders, activity lists, or other information.

[046] Vehicle operators and other occupants can use the interactive natural language interactive interface of the invention to perform many types of information query, retrieval and presentation operations. Using the natural language interactive interface, users can modify the parameters of queries or specify the presentation formats for results. Data used to create a response can be from any combination of local and remote data sources. User specific data can be synchronized between systems fixed to one or more vehicles, mobile structures and desktop systems. Some examples of information query, retrieval and presentation applications for the invention include, but are not limited to the following:

1. White pages and yellow pages lookups to find, email addresses, telephone numbers, street addresses and other information for businesses and individuals. These services can be used in conjunction with other services, including remote ordering and payment, offers and promotions, mapping, and driving directions;
2. Management and access to personal address book, calendars and reminders for users;
3. Automatic telephone dialing, reading and sending emails, pages, instant messaging by voice, text or video and other communications control functions;
4. Selection, schedules and play list management for television, satellite broadcast, radio or other entertainment schedule. The available information can include reviews and other information on programming. The system may provide device control for users;
5. Weather information for the local area or other locations;

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6. Stock and other investment information including, prices, company reports, profiles, company information, business news stories, company reports, analysis, price alerts, news alerts, portfolio reports, portfolio plans, or other information;

7. Local, national and international news information including headlines of interest by subject or location, story summaries, full stories, audio and video retrieval and play for stories;

8. Sports scores, news stories, schedules, alerts, statistics, background and history information, or other information;

9. The ability to subscribe interactively to multimedia information channels, including sports, news, business, different types of music and entertainment, applying user specific preferences for extracting and presenting information;

10. Rights management for information or content that is used or published;

11. Horoscopes, daily jokes and comics, crossword puzzle retrieval and display and related entertainment or diversions;

12. Interactive educational programs using local and network material, with lesson material level that is set based on user's profile, location of the vehicle, planned route of the vehicle, planned activities during the trip and including, interactive multimedia lessons, religious instruction, calculator, dictionary and spelling, geographic information, instruction for specialized tasks planned during the trip, language training, foreign language translation, presentation of technical manuals, and encyclopedias and other reference material.

[047] It will be appreciated that the foregoing statements of the features of the invention are not intended as exhaustive or limiting, the proper scope thereof being appreciated by reference to this entire disclosure and reasonably apparent variations and extensions thereof.

BRIEF DESCRIPTION OF THE DRAWINGS

[048] The invention will be described by reference to the preferred and alternative embodiments thereof, in conjunction with the drawings in which:

[049] Figure 1 is an overall block diagram of the system according to a first embodiment of the invention;

[050] Figure 2 is an overall block diagram of the system according to a second embodiment of the invention;

[051] Figure 3 is an overall block diagram of a mobile device according to an embodiment of the invention;

[052] Figure 4 is an overall block diagram of a fixed computer according to an embodiment of the invention;

[053] Figure 5 is an overall diagrammatic view of the interactive natural language processing system according to an embodiment of the invention;

[054] Figure 6 is a schematic block diagram showing the agent architecture according to an embodiment of the invention;

[055] Figure 7 illustrates a diagram for centrally maintaining context, according to one embodiment of the invention; and

[056] Figure 8 illustrates a system diagram for an enhanced conversational voice user interface according to one embodiment of the invention.

DETAILED DESCRIPTION

[057] The following detailed description refers to the accompanying drawings, and describes exemplary embodiments of the invention. Other embodiments are contemplated and modifications may be made to the exemplary embodiments without departing from the spirit, functionality and scope of the invention. Therefore, the following detailed descriptions are not meant to limit the invention.

[058] According to one embodiment of the invention, a telematic natural language speech interface and non-speech interface are provided for use in mobile environments and telematic applications. The system, or portions thereof, may be used in vehicles,

while on foot or at a fixed location such as an office or home, or at other locations. An overall block diagram of one embodiment of the invention is illustrated in Figure 1.

[059] A speech unit 128 and/or a keypad 14 may be integrally coupled to a mobile structure 10 or may be part of mobile devices 36, fixed home or office computer systems 44, or other devices. Mobile devices 36 may include mobile telephones, personal digital assistants, digital radios, compact disk players, navigation systems, or other mobile devices. The mobile devices 36 may be configured to integrate with set-top boxes, alarm clocks, radios, or other electronic components. The speech unit 128 and/or keypad 14 may be interfaced to a Telematics Control Unit (TCU) 28 through one or more data interfaces 26. According to some embodiments, the main speech-processing unit 98 may be embedded in one or more TCU 28. In some embodiments, the components of the speech unit 128 may also be distributed between one or more TCUs.

[060] A speech-processing unit may be built into mobile devices 36 and may be coupled with the data interfaces 26 though a wireless, or wired, handheld interface 20. Other user interface peripherals may be connected to the TCU through the data interfaces and may include displays 18, such as touch screen displays for displaying text, graphics and video; keypads 14 for receiving textual data input; video cameras 16 for receiving multimedia communications or conferences; a pointing device or stylus, or other user interface peripherals. Other devices may be connected to the TCU through the data interfaces including wide-area RF transceivers 24, navigation system components 22, or other devices. The navigation system may include several components such as, Global Positioning System (GPS) receivers or other radiolocation system receivers, gyroscopes or other inertial measurement equipment, distance measurement sensors, such as odometers, or other components. Radiolocation equipment may receive coded signals from one or more satellites or terrestrial sources 40. The one or more location service servers 48 may assist the navigation system. Other systems that can connect to the TCU through the data interfaces may include

automotive control computers, digital control interfaces for devices such as media players or other electronic systems, measurement sensors, or other specialized electronic equipment.

[061] The control and device interfaces 30 may connect the TCU 28 to various devices 32 within the mobile structure 10. The control and device interfaces 30 may be used to execute local or remote commands from users of the natural language interface. In some cases, the control and device interfaces 30 may include specialized hardware for interacting with different types of devices. The hardware interfaces may include analog or digital signal interfaces for device control, along with analog or digital interfaces for measurements that may control devices 32. These interfaces may also include specialized software that encapsulates or abstracts specific behavior of the devices 32. The interface software may include one or more drivers that are specific to the hardware interface and to one or more agents. The domain agents may include the specialized software behavior and data required to control a particular device or class of devices. New or updated behavior may be added to the system by updating data managers that are associated with specific devices or class of devices. The devices 32 may include manual controls or manual overrides 34. For safety reasons, the control and device interfaces 30 may incorporate fail-safe systems that, for example, may verify operating limits before changing settings, ensuring that commands do not conflict with settings from manual controls, and will not, in some combination with other commands or device settings, create an unsafe situation. The software behavior and data that ensures safe operations may be included within the domain agent that is specific to the device or class of devices. Examples of devices and system that can be controlled through the control and device interfaces 30 include, power management systems, measurement sensors, door locks, window controls, interior temperature controls, shifting of the transmission, turn signals, lights, safety equipment, engine ignition, cruise control, fuel tank switches, seat adjustments, specialize equipment such as winches, lifting systems or loading system, and other systems.

[062] The wide-area RF transceiver 24 may communicate with one or more wide-area wireless networks 38, which may be connected to data networks 42, including the Internet, the Public Switched Telephone Network (PSTN) 42 or other data networks. The wide-area wireless networks can be of any suitable terrestrial or satellite based type. Mobile devices 36 may communicate with one or more local or wide-area wireless networks. Home or office systems 44, equipped with wired or wireless network interfaces, may communicate through the data networks or PSTN.

[063] According to one embodiment of the invention, data and agents may be stored and synchronized in mobile structures 10, mobile devices 36 and/or fixed systems 44 having one or more main speech-processing units 98. The synchronization between these different systems can occur on the wide area wireless network 38, the data network 42, through the handheld interface 20, or other local data connections. The synchronization may be performed automatically when any two or more of the computers are connected to these networks. Alternatively, the synchronization may be performed on demand under user control. The synchronization process attempts to determine which version of a data element or an agent are the newest or most up-to-date and propagates that element. Thus, synchronization is an incremental change processes. In some cases, a complete replacement of a database, a portion of the database or of one or more agents may be performed rather than performing a series of incremental updates.

[064] The wide-area wireless networks 38, the data networks 42 or PSTN, may connect mobile structures 10, mobile devices 36 and fixed computers 44 to one or more servers that provide one of more services. According to one embodiment of the invention, an interactive natural language user interface may be provided that supports a transfer of data or transmission of speech, text, video and other formats. For data centric applications, a standardized data transfer format may be used including, for example, Hypertext Markup Language over Hypertext Transfer Protocol (HTTP), Extensible Markup Language (XML), and other data formats or schemas, over HTTP or other

transfer protocol, Electronic Data Interchange formats over a variety of transport protocols, etc. It will be understood that the exact configuration of the servers may be determined on a case-by-case basis with consideration being given to the exact combinations of services being offered, the service providers providing the services, the contractual relationships between the service provider, and other factors. The invention supports any suitable configuration. In each case these servers may themselves be distributed over one or more public or private networks. Some examples of servers that may be used to deliver these services, are given below:

1. One or more payment service providers 56 that supply payment capabilities to users. These payment services may include electronic wallet capabilities for one or more payment accounts and may include payment security information, payment account information, transaction histories, account balance information, and other information. Exemplary payment types include, stored value accounts, promotional accounts, credit accounts, telecommunications billing accounts, debit accounts, or other payment types that are accessed using online or offline methods. Payments can be computed in any manner including payment for a specific good or service, subscription payment, metered payment, or other payments. The payment services can be distributed in a number of ways. Examples of computers and servers used to store and process payment transaction information include, smart cards, main speech processing units 128, mobile devices 36, TCUs 28, fixed personal computers 44, payment gateways, payment servers 56, or other systems.
2. One or more Customer Relationship Management (CRM) systems 52 may supply any number of consumer and business customer services as discussed above. The CRM system can supply automated services or services that are partly or completely manual. For manual services one or more customer service representatives may use one or more service representative workstations 54. The CRM system and the service representative workstation may be connected

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to one or more data networks 42 or the PSTN. Any other servers may also have connections to one or more service representative workstations, which may be in common or independent of each other.

3. One or more specialized service servers 50 may support specialized consumer and business services.

4. One or more location service servers 48 may supply location information and location based services. The location data is used as a data input to the location services that may then be distributed in any suitable manner including, on main speech processing units 128, mobile devices 36, TCUs 28, fixed personal computers 44, other servers (i.e. 46, 50, 52, 56) or the one or more location services servers 48.

5. One or more emergency services servers 46 may supply both public and private emergency services to the users.

[065] Main speech processing unit 98, speech unit 128 and keyboard 14 may be distributed in mobile devices 36 in a number of ways. For example, these units may be attached to the mobile devices 36 as independent components or as a single integrated component. In another embodiment of the invention, some or all of the main speech processing unit 98 and speech unit 128 may be embedded in one or more of the TCUs 28, mobile devices 36, fixed computer systems 44, or other devices.

[066] Figure 2 illustrates an alternative block diagram of a second embodiment of the invention. In this embodiment, the main speech processing unit 98 and speech unit 128 are external to the TCU 28. These components may be housed in one or more packages or may be included in a single integrated package.

[067] In all other respects, the second embodiment resembles the first embodiment illustrated in Figure 1. It will be understood that the exact distribution and packaging of the main speech processing unit 98 and speech unit 128 may be determined by the details of the deployment situation and should not change the functionality, capabilities or spirit of the invention in any way.

[068] Figure 3 illustrates a block diagram of one embodiment of the mobile devices 36 that include main speech processing unit 98 and speech unit 128 embedded in the mobile device 36, mobile telephone or other mobile device. The main speech processing unit may interface to one or more processing units 70 located in the mobile device 36. The processing units 70 may include one or more central processing units, one or more data and address busses, data interfaces, volatile memory, or other components. The processing units 70 may use one of more types of nonvolatile memory 80 for software and data storage. Suitable types of nonvolatile memory 80 may include flash memory and hard disk drives. In some embodiments, the main speech processing unit 98 may be integrated with the one or more processing units 70.

[069] According to one embodiment, users may interact with the mobile device 36 through the speech unit 128, the keypad 74 or keyboard, a display 72 that displays text, graphics, video, or other peripheral. In some embodiments the display may be a touch screen type. Alternatively, a pointing device (not shown) may be used, among other devices.

[070] The mobile device 36 may connect to one or more wired or wireless wide-area or local-area networks through one or more interfaces. A wide-area network transceiver 78 may connect to the wide-area wireless network 38 or the data network 42 using a wireless or wired connection, including an IP connection, a dial-up PSTN network connection or other connections. The local-area network transceiver 76 may connect to wired or wireless local area networks. These networks may include the handheld interface 20 or connections to fixed computer systems 44. In both mobile device environments and fixed computer environments, communications between humans and machines may not provide accurate results at least because natural language commands may be incomplete in their definition. The occurrence of inaccurate results may be reduced by leveraging context of previous utterances, knowledge of the domain and/or the user's history of interests and preferences or other factors.

[071] According to one embodiment of the invention, processing may be performed at the mobile devices 36. Alternatively, the processing may be performed on the server side. In yet another embodiment, the processing may occur on both the mobile devices 36 and the server side. The commands may be processed on-board the mobile devices 36 to enable the mobile devices 36 to control themselves and/or to control other mobile devices 36, fixed computers 44, mobile telephones, or other devices. Additionally, mobile devices 36 may track context. According to another embodiment of the invention illustrated in FIG. 7, a context manager 702 may be centrally maintained to allow input to and output from multiple mobile devices 36. Each of the mobile devices may communicate with the context manager 702 to register via registration module 712, wherein registration may indicate events that the mobile devices 36 may subscribe to. The context manager 702 may receive input in Context XML form, for example. The other registered mobile devices 36 may be informed of context changes through context tracking module 714, thereby synchronizing the context across the registered mobile devices 36. According to one embodiment of the invention, registered mobile devices 36 may be added or removed. The registered mobile devices 36 may be dynamic link libraries (DLLs), object code, or other data that may be specific to the mobile device 36.

[072] According to yet another alternative embodiment of the invention, context information may be determined from a command or request that is presented as a text message and/or a command or request that is presented as a verbal utterance and processed using a multi-pass automatic speech recognition module that transcribes the verbal utterance to a text message. The multi-pass automatic speech recognition module may use a dictation grammar or a large vocabulary grammar, among other resources, to transcribe the verbal utterance into a text message. On platforms where a dictation grammar is not available, the multi-pass automatic speech recognition may use a virtual dictation grammar that uses decoy words for out-of-vocabulary words. Decoy words may include utility words, nonsense words, isolated syllables, isolated distinct sounds and other decoy words.

[073] According to one embodiment of the invention, the text message may be searched for a particular character, group of characters, word, group of words, and other text combinations. The text combination may be compared against entries in a context description grammar that is associated with each agent 106. If a match is identified between an active grammar in the context description grammar and the command and/or request, then the match may be scored. The agents 106 may be ranked based on the determined score. In generating an aggregate response from the one or more responses received from the agents 106, the ordering of the responses from the individual agents may be determined based on the rank of agents 106. The aggregate response may be generated by a response generator module. Agents 106 may update a context stack, that includes an ordered list of command contexts, to enable follow-up requests.

[074] According to another embodiment of the invention, if a match is not found, or only a partial match is found, between the text message and active grammars, then a knowledge-enhanced speech recognition system may be used to semantically broaden the search. The knowledge-enhanced speech recognition system may be used to determine the intent of the request and/or to correct false recognitions. The knowledge-enhanced speech recognition may access a set of expected contexts that are stored in a context stack to determine a most likely context. The knowledge-enhanced speech recognition may use context specific matchers that are able to identify context such as time, location, numbers, dates, categories (e.g., music, movies, television, addresses, etc.) and other context. The matching may be performed by comparing a character, group of characters, a word, group of words, and other text combinations. Alternatively, or in addition to text based matching, the matching may be performed using phonetic matching, among other techniques. The results of any match may be used to generate a command and/or request that is communicated to agents 106 for additional processing. According to one embodiment of the invention, non-speech interface 114 may show system, state and history information in a more concise manner

than is possible through the speech interface. Non-speech interface 114 may be accessed to create or extend capabilities of agents 106. These operations may include scripting of agents, adding data to the agent or databases 102 used by the agent, adding links to information sources, among other operations.

[075] According to another embodiment of the invention, mobile devices 36 may be configured to allow speech annotations of objects stored thereon. The objects may include photographs, calendar entries, email messages, instant messages, phonebook entries, voice mail entries, digital movies or other objects. Mobile devices 36 may transcribe the speech annotations to textual annotations and store the textual annotations with the object. Alternatively, mobile devices 36 may be configured to enable users to input non-speech annotations, such as textual descriptions, that are stored along with the objects.

[076] According to one embodiment of the invention, the annotated objects may be stored on a server side, a client side, a combination of server side and client side, or according to other configurations. The invention further contemplates collaboratively exchanging and sharing the annotated objects among distributed workgroups that may include centralized servers having shared workspaces for providing common object storage and retrieval facilities. The shared workspaces may be implemented on the centralized servers and may be accessed from different platforms using the mobile devices 36. The system may include a peer-to-peer system for accessing the annotated objects.

[077] According to one embodiment of the invention, the non-speech annotations may be classified and searched. In an alternative embodiment, the speech annotations may be classified and searched. However, classifying and searching speech annotations may be considerably more difficult than classifying and searching non-speech annotations.

[078] According to another embodiment of the invention, the textual annotations and/or textual descriptions that are associated with the objects may be stored as metadata, thereby enabling searching for the objects using the metadata. The

metadata may include GPS information, environmental information, geographic information, or other information. For example, proximity to famous landmarks may be determined using GPS information, environmental information, geographic information, or other information, and this information may be integrated into the metadata associated with the objects. According to one embodiment of the invention, GPS coordinates may be stored in the metadata associated with the objects and users may search for selected objects based on the GPS coordinates. A user may provide a speech command such as "show me all the photos of Greece." In this case, the system would limit the type of object to photographs and would determine the GPS coordinates of Greece. The system would then search the metadata for objects that correspond to photographs and that also satisfy GPS coordinates for Greece. According to another embodiment of the invention, including GPS coordinates in the metadata of objects enables post-processing of the objects based on the GPS coordinates. For example, the objects may be subjected to an initial sort based on generalized GPS coordinates that are stored in the metadata and may be subjected to additional sorting based on more particular criteria for the GPS coordinates. Thus, a user may initially search for object metadata that corresponds to a location near a famous landmark and may use image matching to label the objects with the searchable metadata (i.e., textual descriptions). For example, using the GPS coordinates stored in the metadata, users may first determine that photographs were taken at the Jefferson Memorial and may use this information to label the photographs with searchable metadata (i.e., textual descriptions) including "photo of the Jefferson Memorial." One of ordinary skill in the art will readily appreciate that metadata may include various types of information and may be searched using the various types of information.

[079] According to one embodiment of the invention, the textual annotations may be communicated using a short message service on the mobile telephone or other device. Short message service is a text message service that enables sending and receiving of

short textual messages. The textual messages may be stored at data centers for forwarding to intended recipients. Other configurations may be used.

[080] According to another embodiment of the invention, the mobile devices 36 may support multi-modal communications that enable displaying of non-speech search results on a graphical interface and receipt of speech commands to provide a follow-up search, among other configurations. For example, the user may be presented with textual search results corresponding to a name of a famous person and the user may provide a speech command to find a biography of the famous person. The system may maintain the context of the textual search results to find the biography associated with the famous person. By contrast, known systems may perform a follow-up search on the term "biography" and may present a dictionary definition of the term "biography."

[081] Figure 4 illustrates an embodiment that uses a fixed computer 44. In some embodiments, the main speech processing unit 98 and speech unit 128 may be embedded into the fixed computer 44. The main speech processing unit may interface with one or more processing units 84 that are associated with the fixed computer. The processing units may include one or more central processing units, one or more data and address busses, data interfaces, volatile memory, or other components. The processing unit may use one of more types of nonvolatile memory 94 for software and data storage. Suitable types of nonvolatile memory include, for example, flash memory and hard disk drives. In some embodiments, the main speech processing unit 98 may be integrated with the one or more processing units 84. According to one embodiment of the invention, processing may be performed at the fixed computers 44. The commands may be processed on-board to enable the fixed computers 44 to control themselves and/or to control other fixed computers 44, mobile devices 36, mobile telephones, or other devices. Additionally, fixed computers 44 may track context as described above.

[082] According to another embodiment of the invention, fixed computers 44 may be configured to allow verbal annotations of objects stored thereon. Fixed computers 44 may transcribe the verbal annotation to text and store the textual annotation with the

object. Alternatively, fixed computers 44 may be configured to enable users to manually input textual descriptions that are stored along with the objects. According to one embodiment of the invention, the textual annotations and/or textual descriptions may be classified and searched. In an alternative embodiment, fixed computers 44 may classify and search the verbal annotations rather than textual annotations. However, classifying and searching verbal annotations may be considerably more difficult than classifying and searching textual annotations and/or textual descriptions.

[083] In another embodiment of the invention, users may interact with fixed computers 44 using speech unit 128, the keyboard 88 or keypad, a display 86 for displaying text, graphics, video, or other peripherals. According to some embodiments of the invention, the display may be a touch screen type. Alternatively, a pointing device (not shown) may be used, along with other devices. Fixed computers 44 may be coupled to one or more wired or wireless wide-area or local-area networks through one or more interfaces. A wide-area transceiver 92 may connect to the wide-area wireless network 38 or the data network 42, using a wireless or wired connection, including an IP network, a dial-up PSTN network connection, or other connections. The local-area network transceiver 90 may connect to wired or wireless local area networks. These networks may include connections to mobile devices 36.

[084] In order for devices to properly respond to requests and/or commands that are submitted in a natural language form, machine processable requests and/or algorithms may be formulated after the natural form questions or commands have been parsed and interpreted. Algorithms describe how the machines should gather data to respond to the questions or commands. Depending on the nature of the requests or commands, there may not be a simple set of requests and/or algorithms that will return an adequate response. Several requests and algorithms may need to be initiated and even these requests and algorithms may need to be chained or concatenated to achieve a complete response. Further, no single available source may contain the entire set of results needed to generate a complete response. Thus, multiple requests and/or

algorithms, perhaps with several parts, may be generated to access multiple data sources that are located both locally or remotely. Not all of the data sources, requests and/or algorithms may return useful results or any results at all. Useful results that are returned are often embedded in other information and may need to be extracted from the other information. For example, a few key words or numbers may need to be "scraped" from a larger amount of other information in a text string, table, list, page, video stream or other information. At the same time, extraneous information including graphics or pictures may be removed to process the response. In any case, the multiple results must be evaluated and combined to form the best possible response, even in cases where some requests do not return useful results or fail to produce results entirely. In cases where the command is determined to be ambiguous or the result is inherently subjective, determining the results to present in the response is a complex process. Finally, to maintain a natural interaction, responses should be returned to the user rapidly. Managing and evaluating complex and uncertain requests, while maintaining real-time performance, is a significant challenge.

[085] The invention provides a complete speech-based command generation, information query, retrieval, processing and presentation environment or a combination of speech-based and non-speech-based command generation, information query, retrieval, processing and presentation environment for telematic applications. In addition, the invention may be useful for controlling the system itself and/or external devices. This integrated environment makes maximum use of context, prior information and domain and user specific profile data to achieve a natural environment for one or more users submitting requests or commands in multiple domains. Through this integrated approach, a complete speech-based natural language command, algorithm and response environment or a combination of speech-based and non-speech-based command, algorithm and response environment may be created.

[086] The telematic natural language interface may be deployed as part of, or a peripheral to a TCU or other mobile devices 36, as part of a mobile device interfaced to

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vehicle computers and other mobile system through wired, wireless, optical, or other types of connections or fixed computers interfaced to the vehicle computers or other systems through a combination of wired, wireless, optical and/or other types of connections. Alternatively, the components of the interactive natural language telematic interface may be distributed in any suitable manner between these multiple computing platforms.

[087] Figure 5 illustrates one exemplary schematic diagram view of a system 90 according to an embodiment of the invention. The system 90 may include a main unit 98, speech units 128, and multi-modal devices 155. In an alternative embodiment, the system 98 may include completely separate systems for main unit 98, speech units 128 and multi-modal devices 155. The event manager 100 may mediate interactions between components of main unit 98. The event manager 100 provides a multi-threaded environment allowing the system 98 to operate on multiple commands or questions from multiple user sessions, without conflict, and in an efficient manner to maintain real-time response capabilities.

[088] FIG. 8 illustrates one exemplary embodiment of an enhanced conversational user interface 800 that receives multi-modal input from users 802 and communicates with a conversational speech analyzer 804. The conversational speech analyzer 804 may be coupled to several components, including a general cognitive model 806, an environmental model 808, a personalized cognitive model 810, and an adaptive misrecognition analysis engine 812 or other components. According to one embodiment of the invention, the conversational speech analyzer 804 may include one or more speech recognition engines that transcribe utterances to textual messages. The transcription may be performed using one or more conversational grammars, a context description grammar 112, or other transcription methods. According to one embodiment of the invention, data that is entered in a text format may be merged with data that is transcribed to a textual format from the utterance. Conversational speech

analyzer 804 also may include a semantic knowledge-based model that analyzes the textual message and detects command components.

[089] According to one embodiment of the invention, personalized cognitive model 810 is a model derived from a user's interaction pattern with the system and may be used to predict what actions the user may take next in time, thus assisting with speech recognition and/or question or command recognition. Personalized cognitive model 810 may track actions performed by the user. When the system is attempting to predict user behavior, the personalized cognitive model may be consulted first. The system may have multiple personalized cognitive models, wherein one may correspond to each user.

[090] According to another embodiment of the invention, general cognitive model 806 is a statistical abstract that corresponds to interaction patterns with the system for multiple users. Data stored within general cognitive model 806 may be used to predict a user's next action, thus assisting with speech recognition and/or question or command recognition. The general cognitive model 806 may also track what actions a particular user has performed and may be used when the user interacts with the system in a way that is not handled in the personalized cognitive model.

[091] According to one embodiment of the invention, the environmental model 808 may include information associated with the user's environment and surroundings. The information may include the type of environment that a user is in (e.g., quiet or noisy); details of a microphone and/or speaker system; the user's current global position and movement, as may be determined by GPS; current system status, such as what song/movie is playing, is the system in the midst of retrieving something, or other system status; details on all voice-enabled devices in the immediate vicinity, such as a presence of a voice-enabled TV, stereo, and DVD player in the same room; a user's credit card information, such as numbers and current balances, wherein the user may ask a mobile telephone to download and pay for a video and the system may respond that there are insufficient funds; or other information. The information may be

accessed to invoke a context, domain knowledge, preferences, and/or other cognitive qualities that enhance the interpretation of questions and/or commands.

[092] The conversational speech analyzer 804 may also access the general cognitive model 806 and/or the personalized cognitive model 810 to further refine a context, domain knowledge, preferences, and/or other cognitive qualities to enhance the interpretation of questions and/or commands. Based on information received from general cognitive model 806, environmental model 808 and/or the personalized cognitive model 810, the system may enhance responses to commands and questions by including a prediction of user behavior.

[093] Adaptive Misrecognition Analysis Engine 812 may analyze and store textual messages, including transcribed utterances, that are identified as being unrecognized or incorrectly recognized by conversational speech analyzer 804. Upon a determination that text is unrecognized, the system may generate an unrecognized event. For example, an unrecognized event may result from not finding a match to text and/or the transcribed utterance.

[094] According to one embodiment of the invention, the system may implement one or more techniques to determine that textual messages are incorrectly recognized. For example, the user may command the system to play a specific song title and the system may misrecognize the requested song title and provide a song having a different title, the system may misrecognize an incorrect song title and provide a song having a different than requested title, the system may misrecognize a correct song title and provide a song having an invalid song title, among other variations. When the system misrecognizes a request, the user typically provides immediate feedback such as, overriding the command in a time shorter than the expected execution time of the command, repeating the original request, issuing a stop command, or taking other action, wherein the action may be presented verbally, non-verbally by pushing a selected button on a cell phone or remote control, or both, among other configurations. According to one embodiment of the invention, the system may detect the user action

and may prompt the user to re-phrase the request to enable the system to modify words in the query. The user's actions may be analyzed in a statistical model to determine a frequency occurrence of misrecognitions for particular commands, with the results being used to update the corresponding personalized cognitive model 810.

[095] According to another embodiment of the invention, the conversational speech analyzer 804 may access the personalized cognitive model 810 to proactively select a next best (or nth best) match for the received text. A match may be confirmed by user action that include the user not immediately canceling the command or taking other action. The misrecognitions may also be analyzed to potentially determine personalized tuning parameters for the speech recognition components of the system. For example, the system may, over time, tune the speech recognition engine to increase recognition by analyzing how the speech recognition engine misrecognizes the utterance.

[096] The event manager 100 may mediate interactions between other components of the invention. The event manager can provide a multi-threaded environment allowing the system to operate on multiple commands or questions from multiple user sessions without conflict and in an efficient manner, maintaining real-time response capabilities.

[097] Agents 106 may include a collection of grammars, criteria handlers, and algorithms that are accessible to respond to a set of requests and/or commands. Agents 106 may further contain packages of both generic and domain specific behavior for the system 98. Agents 106 may use nonvolatile storage for data, parameters, history information, and locally stored content provided in the system databases 102 or other local sources. One or more user profiles 110 may be provided that include user specific data, parameters, and session and history information for determining the behavior of agents 106. One or more personality modules 108 may be provided in a data determining system that include personality characteristics for agents. The update manager 104 manages the automatic and manual loading and updating of agents 106

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and their associated data from the Internet 146 or other network through the network interface 116.

[098] According to one embodiment of the invention, the speech-based interface for the system 90 may include one or more speech units 128. Speech units 128 may include one or more microphones, for example array microphone 134, to receive the utterances from the user. The speech received at the microphone 134 may be processed by filter 132 and passed to the speech coder 138 for encoding and compression. In one embodiment, a transceiver module 130 may transmit the coded speech to the main unit 98. Coded speech received from the main unit 98 is detected by the transceiver 130, then decoded and decompressed by the speech coder 138 and annunciated by the speaker 136.

[099] According to one embodiment of the invention, the non-speech-based interface for the system 90 may include one or more multi-modal devices 155 that may include mobile devices, stand alone or networked computers, personal digital assistances (PDAs), portable computer devices, or other multi-modal devices.

[0100] The speech units 128, multi-modal devices 155 and the main unit 98 may communicate over a communication link. The communication link may include a wired or wireless link. According to one embodiment, the communication link may comprise an RF link. The transceiver 130 on the speech unit may communicate coded speech data bi-directionally over the communication link with the transceiver 126 on the main unit 98. According to another embodiment, the RF link may use any standard local area wireless data protocols including the IEEE 802.11, Bluetooth or other standards. Alternatively, an infrared data link conforming to any suitable standard such as IrDA or other infrared standards can be used. In an alternative embodiment, wires may connect the speech unit 128 and the main unit 98, eliminating the need for one speech coder 138. Other wired or wireless analog or digital transmission techniques can be used.

[0101] According to one embodiment of the invention, coded speech received at the transceiver 126 on the main unit 98 is passed to the speech coder 122 for decoding and

decompression. The decoded speech may be processed by the speech recognition engine 120 using the context description grammar module 112, among other information. Any recognized information may be processed by the parser 118, which transforms information into complete algorithms and questions using data supplied by knowledge agents. Knowledge agents may be selected from the plurality of agents 106 using a grammar stack, wherein the knowledge agents provide information for generating a response to the question or command. The knowledge agents may then process the commands or questions by creating requests that are submitted to local databases 102 or submitted through the network interface 116 to external data sources over the Internet 146 or external other networks. Algorithms typically result in actions taken by the system 90 itself (i.e., pause or stop), or to a remote device or data source (i.e., download data or program, or control a remote device), through the network interface to the Internet or other data interface.

[0102] According to one embodiment of the invention, knowledge agents may return results of questions as responses to users. The responses may be created using the results of information requests, the system personality 108, the user preferences, other data in the user profile 110, and/or other information. Agents 106 may present these results using the speech unit 128. The agents 106 may create a response string, which is sent to the text to speech engine 124. The text to speech engine 124 may generate the utterances, which may be encoded and compressed by the speech coder 122. Once coded, the utterances are transmitted from the main unit 98 by the transceiver 126 to the transceiver 130 on the speech unit 128. The utterance is then decoded and decompressed by the speech coder 138 and output by the speaker 136. Alternatively, agents 106 may present the results using multi-modal devices 155.

[0103] The non-speech interface 114 may be part of, or separate from, the multi-modal devices 155 and may be used as a substitute or complement to the speech interface. For example, non-speech interface 114 may be used to present and interact with non-speech (e.g., graphical or tabular) information in a manner more easily understood by

the user. According to one embodiment of the invention, multimodal support may be provided to maintain the context during both voice interaction and interaction through the non-speech interface 114. In one exemplary embodiment, a communication channel may be opened between multimodal devices 155 and the main user interface system 90 to allow multimodal devices 155 to input text commands and questions. According to another embodiment of the invention, multimodal devices 155 may send a string of text or keywords for a command or question. The main interface system 90 may synchronize the context between multimodal device 155 and the speech units 128. In order to send a response to the corresponding device, the main user interface system 90 may track where the input came from so that the response may be sent to a TTS or multi-modal device 155.

[0104] According to one embodiment of the invention, non-speech interface 114 may show system, state and history information in a more concise manner than is possible through the speech interface. Non-speech interface 114 may be accessed to create or extend capabilities of agents 106. These operations may include scripting of agents, adding data to the agent or databases 102 used by the agent, adding links to information sources, among other operations.

[0105] According to another embodiment of the invention, system 90 may include different types of agents 106. In some embodiments of the invention, generic and domain specific behavior and information may be organized into domain agents 156. The system agent, on the other hand, may provide default functionality and basic services. The domain specific agents may provide complete, convenient and re-distributable packages or modules for each application area. In other words, the domain agents may include data that is needed to extend or modify the functionality of the system 90 in a current or new domain. Further, domain agents and their associated data can be updated remotely over a network as new behavior is added or new information becomes available. Domain agents may access a plurality of sources that may provide various services. Domain agents may use the services of other, typically

more specialized, data managers and system agent. Agents are distributed and redistributed in a number of ways including on removable storage media, transfer over networks or attached to emails and other messages. The invention may provide license management capability allowing the sale of data managers by third parties to one or more users on a one time or subscription basis. In addition, users with particular expertise can create data managers, update existing data managers by adding new behaviors and information and making these data managers available to other users. A block diagram of the agent architecture according to an embodiment of the invention is shown in Figure 6.

[0106] Agents 106 may receive and return events to the event manager 100. Both system agents 150 and domain agents 156 may receive questions and commands from the parser 118. Based on keywords in the questions and commands and the structures of the questions and commands, the parser may invoke selected agents. Agents use the nonvolatile storage for data, parameters, history information and local content provided in the system databases 102.

[0107] According to one embodiment of the invention, when the system starts-up or boots-up, the agent manager 154 may load and initialize the system agent 150 and the one or more domain agents 156. Agent manager 154 includes knowledge of agents 106 and maps agents 106 to the agent library 158. At shutdown, the agent manager may unload the agents 106. The agent manager 154 also performs license management functions for the domain agents 156 and content in the databases 102.

[0108] The system agent 150 manages the criteria handlers 152 that handle specific parameters or values (criteria) used to determine context for questions and commands. According to one embodiment of the invention, criteria handlers 152 include parsing routines that are specialized to recognize particular parts of speech, such as times, locations, movie titles, and other parts of speech. The criteria handlers 152 may identify matching phrases and extract semantic attributes from the phrases. Both the system agent 150 and the domain agents 156 may use the criteria handlers 152. The various

domain agents 156 may use the services of the system agent 150 and of other, typically more specialized, domain agents 156. The system agent 150 and the domain agents 156 may use the services of the agent library 158, which contains utilities for commonly used functions. According to one embodiment of the invention, the agent library may be a dynamic link library that implements one or more agents. The agent library may include utilities for text and string handling, network communications, database lookup and management, fuzzy and probabilistic evaluation, text to speech formats, and other utilities.

[0109] Domain agents 156 may be data-driven, scripted or created with compiled code. A base of generic agent may be used as the starting point for data-driven or scripted agents. Agents created with compiled code are typically built into dynamically linkable or loadable libraries. Developers of agents can add new functionality to the agent library 158 as required. Details of agent distribution and update, and agent creation or modification are discussed in sections below.

[0110] According to another embodiment of the invention, capabilities are provided to distribute and update system agents 150, domain agents 156, agent library 158 components, databases 102, and context description grammar 112 over wireless or wired networks 136, including IP networks and dial-up networks using the update manager 104. The network interface 116 may provide connections to one or more networks. The update manager 104 may also manage the downloading and installation of core system updates. The agent manager 154 may perform license management functions for the domain agents and the databases. The update manager 104 and agent manager 154 may perform these functions for all agents and database content including, agents and content available to all users or agents and/or content available to selected users. Examples of agent and database components added or updated on a periodic basis include:

- agents for new domains;
- additional domain knowledge for agents;

- new keywords for a domain, which can include names of politicians, athletes, entertainers, names of new movies or songs, etc. who have achieved recent prominence;
- links to a preferred set of information sources for the domains covered including links for, entertainment, news, sports, weather, etc.;
- updates to domain information based on, for example, changes to tax laws, company mergers, changing political boundaries;
- updates to content, including dictionaries, encyclopedias and almanacs; and
- other content and database components.

[0111] When a user requires or selects a new domain agent 156 or database element 102, the update manager 104 may connect to their source on the network 146 though the network interface 116, download and install the agent or data. To save system resources and to comply with any license conditions, the update manger 104 may uninstall agents that are no longer in use. In one embodiment of the invention, the update manager 104 may periodically query one or more sources of the licensed agents and database components to locate and download updates to agent executables, scripts or data as they become available. Alternatively, the agent sources may initiate the downloading of agent updates of the registered or licensed agents to the update manager as they become available.

[0112] The agent manager 154 may provide license management clients that are capable of executing most any license terms and conditions. When a particular agent 106 and/or database element 102 is selected based on a submitted command, the agent manager 154 verifies that the use of the agent or data element is within the allowed terms and conditions, and if so, invokes the agent or allows access to the data element. License management schemes that can be implemented through the agent manager 154 include outright purchase, subscription for updates, one time or limited time use. Use of shared agents and data elements (such as those down-loaded from web sites

maintained by groups of domain experts) may also be managed by the agent manager 154.

[0113] If questions or commands do not match an agent that is currently loaded on the system, the agent manager 154 may search the network 146 through the network interface 116 to find a source for a suitable agent. This process may be triggered, for example, when a query is made in a domain for which an agent is not available, when a new device is added to a mobile structure, or when the behavior of a mobile device is updated. Once located, the agent can be loaded under the control of the update manager 104, within the terms and conditions of the license agreement, as enforced by the agent manager.

[0114] New commands, keywords, information, or information sources can be added to any domain agent 156 by changing agent data or scripting. These configuration capabilities may allow users and content developers to extend and modify the behavior of existing domain agents 156 or to create new domain agents 156 from a generic agent without the need to create new compiled code. Thus, the modification of the domain agents 156 may range from minor data-driven updates by even the most casual users, such as specifying the spelling of words, to development of complex behavior using the scripting language as would typically be done by a domain expert. The user can create and manage modifications to domain agents 156 through speech interface commands or using non-speech interface 114. User-specific modifications of domain agents 156 are stored in conjunction with the user's profile 110 and accessed by the domain agent 156 at run-time.

[0115] The data used to configure data driven agents 156 may be structured in a manner to facilitate efficient evaluation and to help developers with organization. This data is used not only by the agent, but also in the speech recognition engine 120, the text to speech engine 124, and the parser 118. Examples of some major categories of data include:

1. Content packages may include questions or commands. Each command or question or group of commands or questions may include contexts used for creation of one or more requests. The domain agent 156 may pass a context description grammar expression to the parser 118 for evaluation of a context or question. An initial or default context is typically supplied for each command or question. The command or question includes a grammar for the management and evaluation of the context stack.

2. Parameters and other operating data on devices that are under control of the natural language speech interface. The domain agent 156 may use this data and parameters to determine how to execute a command, how to formulate the command string for the parser 118, determine if the command is feasible, and determine if the command can be executed within safety and operating limits.

3. Page lists or pointers to other local or network content sources. For each page or content source, there may be a pointer (e.g. URL, URI, or other pointer) to the page or source. Each page may have specific scraping information used to extract the data of interest. The scraping information may include, for example, matching patterns, HTML or other format parsing information.

4. A response list, determining the response of the domain agent 156 to a particular command or question given the context, the user profile and the information retrieved. Responses may include diagnostic error messages or requests for more information if the question or command cannot yet be resolved from the known information. Responses can be based on or be dependent on thresholds or probabilistic or fuzzy weights for the variables.

5. Substitution lists that include variable substitutions and transformations, often applied by the agents 150, 156 in the formatting of requests and results. For example, a stock domain specific agent 156 would use a substitution list of company trading symbols, company names and commonly used abbreviations. Substitutions and transformations can be performed on commands and

questions to create precise queries, which can be applied against one or more information sources or to results for creating more meaningful output to the user. Substitution lists also include information for optimally dealing with structured information, such as HTML formatted page parsing and evaluation.

6. Personalities used for responses. Personalities can be constructed by combining multiple traits in a weighted manner. Weights can be specified for each agent's domain area to create one or more specific personalities. Examples of personality traits include, sarcasm, humor, irritation, and sympathy, and other traits.

7. Public and user specific parameters for sources, substitutions, transformations, variables or criteria. The public parameter lists are part of the agent package 156. The user specific parameters are included in the user profile 110.

[0116] Commands and questions are interpreted, requests formulated, responses created and results presented can be based on the user's personal or user profile 110 values. Personal profiles may include information specific to the individual, their interests, their special use of terminology, the history of their interactions with the system, domains of interest, or other factors. The personal profile data can be used by the agents 106, the speech recognition engine 120, the text to speech engine 124, and the parser 118. Preferences can include, special (modified) commands, past behavior or history, questions, information sources, formats, reports, alerts or other preferences. User profile data can be manually entered by the user and/or can be learned by the system based on user behavior. User profile values can include: 1) spelling preferences; 2) date of birth for user, family and friends; 3) income level; 4) gender; 5) occupation; 6)location information such as, home address, neighborhood, and business address, paths traveled, locations visited; 7) vehicle type or types; 8) vehicle operator certifications, permits or special certificates; 9) history of commands and queries; 10) telecommunications and other service providers and services; 11) financial and

investment information; 12) synonyms (i.e., a nick name for someone, different terms for the same item); 13) special spelling; 14) keywords; 15) transformation or substitution variables; 16) domains of interest; or, 17) other values.

[0117] End users may use the data driven agent 156 extension and modification facilities and values stored in user profiles 110 to create special reports, packages of queries, alerts and output formats. A single alert or report can be configured to use multiple data sources and other variables (i.e., time, location, measured value) value to determine when alerts should be sent. For example, an alert can be generated by sampling a stock price every 15 minutes and sending an alert if the price drops below some value. In another example, an alert may be generated when a particular condition or combination of conditions occur for the vehicles. Alerts and reports can be directed to a local or remote output.

[0118] To create a report, the user may first specify a set of commands or questions. Next, the user can create or select a format for the report. Finally the user may name the report. A report can have variable parameters. For example, a user may create a company stock report and execute the report by stating its name and the company name, which gives the user selected information in a specified format for that company. In another example, a user can create a "morning" report, which presents selected multimedia information from different sources (news, sports, traffic, weather) in the order and formats desired. In yet another example, the user can create a report on the status of one or more vehicle systems. Alerts and reports can be created using only voice commands and responses, commands and responses through the graphical user interface 114, or a combination of the two. Reports can be run locally or remotely with respect to the vehicle. To create a report, alert, or other specialized behavior, the user performs a number of steps including: 1) specifying the command to run a report or alert; 2) specifying the question or questions, including keywords, used for a query; 3) setting the criteria for running the report such as on command or when a particular condition is met; 4) defining preferred information sources; 5)defining preferences for

order of result evaluation by source, value, and other parameters; 6) specifying the presentation medium for a report or alert, such as an email, the text to speech engine, a message to a pager, or a text and graphics display; and, 7) specifying the preferred format for the report, such as information to be presented, order of information to be presented, preferred abbreviations or other variable substitutions.

[0119] Filtering and noise elimination may be important in facilitating the various functionalities of system 90 and may improve operation in noisy mobile environments. Recognition and parsing of the user's speech is implemented with good signal to noise ratio at the input to the speech recognition engine 120. To provide acceptable results, a set of acoustic models, an array microphone 134, a filter 132, or other components, may be employed. If a good signal to noise ratio cannot be achieved, a noise identification algorithm may be used and the appropriate acoustic model, for example, one that has been trained in conditions similar to the identified noise, may be selected. According to one embodiment of the invention, the microphone array, filters and speech coder 138 are physically separated from the main unit 98 into a speech unit 128, and connected using a wireless link. Since bandwidth on a wireless connection is at a premium, the speech coder dynamically adapts the digitization rate and compression of the captured speech.

[0120] Some embodiments of the invention may use one or more arrays of microphones 134 to provide better directional signal capture and noise elimination than can be achieved with a single microphone. The microphone array can be one-dimensional (a linear array) or two-dimensional (a circle, square, triangle or other suitable shape). The beam pattern of the array can be fixed or made adaptive though use of analog or digital phase shifting circuitry. The pattern of the active array is steered to point in the direction of the one or more users speaking. At the same time, nulls can be added to the pattern to notch out point or limited area noise sources. The use of the array microphone also helps reduce the cross talk between output from the text to

speech engine 124 through the speaker 136 or from another user talking and detection of the user's speech.

[0121] The invention may use an analog or digital filter 132 between the array microphone or conventional microphone 134 and the speech coder 138. The pass band of the filter can be set to optimize the signal to noise ratio at the input to the speech recognition engine 120. In some embodiments, the filter is adaptive, using band shaping combined with notch filtering to reject narrow-band noise. One embodiment employs adaptive echo cancellation in the filter. The echo cancellation helps prevent cross talk between output from the text to speech engine and detection of the user's speech as well as suppression of environmentally caused echoes. Algorithms comparing the background noise to the signal received from the users speech may be used to optimize the band-shaping parameters of the adaptive filter.

[0122] The speech received by the array microphone 134 and passed through the filter 132 may be sent to the speech digitizer or coder 138. The speech coder may use adaptive lossy audio compression to optimize bandwidth requirements for the transmission of the coded speech to the speech recognition engine 120 over a wireless link. The lossy coding is optimized to preserve only the components of the speech signal required for optimal recognition. Further, the lossy compression algorithms that may be used are designed to prevent even momentary gaps in the signal stream, which can cause errors in the speech recognition engine. The digitized speech may be buffered in the coder and the coder may adapt the output data rate to optimize the use of the available bandwidth. The use of the adaptive speech coder is particularly advantageous when a band-limited wireless link is used between the coder and the speech recognition engine.

[0123] The microphone can be complemented with an analog or digital (i.e., Voice over IP) speech interface. This interface allows a remote user to connect to the system and interact with it in the same manner possible if they were physically present.

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[0124] In an alternative embodiment, the array microphone can be replaced by a set of physically distributed microphones or headsets worn by the users. The distributed microphones can be placed in different parts of a vehicle, different parts of a room or in different rooms of a building. The distributed microphones can create a three-dimensional array to improve signal to noise ratio. The headset can use a wireless or wired connection.

[0125] While the invention is intended to be able to accept most any natural language question or command, ambiguity may be a problem. To assist users formulate concise questions and commands, the system can support a voice query language. The language may be structured to allow a variety of queries and commands with minimal ambiguity. Thus, the voice query language helps users clearly specify the keywords or contexts of the question or command along with the parameters or criteria. The language can provide a grammar to clearly specify the keyword used to determine the context and present a set of one or criteria or parameters. A user asking a question or stating a command in the voice query language may nearly always be guaranteed to receive a response.

[0126] The voice query language may be sensitive to the contents of the context stack, wherein a context defines a set of questions that can be activated or deactivated during a conversation. According to one embodiment, each agent may designate one context to be the root context that defines base algorithms that the agent implements. Thus, follow-on questions can be asked using an abbreviated grammar, since key words and criteria can be inherited from the context stack. For example, the user can simply ask about another keyword if the criteria of the question remain constant.

[0127] The system 90, may provide built in training capabilities to help users learn the best methods to formulate their questions and commands. The interactive training allows users to audibly or visibly see the machine interpretation of their queries and provides suggestions on how to better structure a query. Using the interactive training, users can quickly become comfortable with the voice query language and, at the same

time, learn how to optimize the amount of information required with each step of a dialog.

[0128] The output of the speech coder 122 may be fed to the speech recognition engine 120. The speech recognition engine 120 recognizes words and phrases, using information in the context description grammar 112 and passes these to the parser 118 for interpretation. The speech recognition engine 120 may determine the user's identity by voice and name for each utterance. Recognized words and phrases may be tagged with this identity in all further processing. Thus, as multiple users engage in overlapping sessions, the tags added by the speech recognition engine 120 to each utterance allows other components of the system 90 to tie that utterance to the correct user and dialog. The user recognition capability may further be used as a security measure for applications, such as auctions or online shopping, where this is required. Voice characteristics of each user may be contained in the user profile 110.

[0129] According to one embodiment of the invention, users may start a dialog with the system 90 when they first address it. This can be done by speaking a generic word ("computer") or addressing a specific name ("Fred"), which may be generally tied to a system personality 108. Once the user starts the dialog, it may be recognized by the speech recognition engine 120, using unique characteristics of the user's speech. At the end of a dialog or to interrupt a dialog, the user may utter a dismissal word ("good bye").

[0130] According to another embodiment of the invention, the system 90 may employ a speech recognition engine 124 that gains improved word recognition accuracy using data from context description grammar 112, user profiles 110, and the agents 106, among other components. At the same time, the fuzzy set possibilities or prior probabilities for the words in the context description grammar may be dynamically updated to maximize the probability of correct recognition at each stage of the dialog. The probabilities or possibilities may be dynamically updated based on a number of criteria including the application domain, the questions or commands, contexts, the user

profile and preferences, user dialog history, the recognizer dictionary and phrase tables, and word spellings, among other criteria.

[0131] For uncommon words or new vocabulary words, the user may be given the option to spell the words. The spelling can be done by saying the names or the letters or using a phonetic alphabet. The phonetic alphabet can be a default one or one of the user's choosing.

[0132] Alternatively, when a user submits a word that is not recognized at all or is not correctly recognized by the speech recognition engine 120, then the user may be asked to spell the word. The speech recognition engine 120 determines this condition based on confidence level for the scoring process. The word may be looked up in a dictionary and the pronunciation for the word is added to either the dictionary, the agent 106, or the user's profile 110. The word pronunciation can then be associated with the domain, the question, the context and the user. Through this process, the speech recognition engine learns with time and improves in accuracy. To assist users in spelling words, an individualized phonetic alphabet can be used. Each user can modify the standard phonetic alphabets with words, which they can remember more easily.

[0133] Once the words and phrases have been recognized by the speech recognition engine 120, the tokens and user identification may be passed to the parser 118. The parser examines the tokens for the questions or commands, context and criteria. The parser may determine a context for an utterance by applying prior probabilities or fuzzy possibilities to keyword matching, user profile 110, dialog history, and context stack contents. The context of a question or command may determine the domain and, thereby, the domain agent 156, if any, to be invoked. For example, a question with the keywords "temperature" implies a context value of weather for the question. Within a different dialog, the keyword "temperature" can imply a context for a measurement. The parser dynamically receives keyword and associated prior probability or fuzzy possibility updates from the system agent 150 or an already active domain agent 156.

Based on these probabilities or possibilities the possible contexts are scored and the top one or few are used for further processing.

[0134] The parser 118 uses a scoring system to determine the most likely context or domain for a user's question and/or command. The score is determined from weighing a number of factors including, the user profile 110, the domain agent's data content and previous context. Based on this scoring, the system 90 invokes the correct agent. If the confidence level of the score is not high enough to ensure a reliable response, the system 90 may ask the user to verify whether the question and/or command is correctly understood.

[0135] In general, the question that is asked by the system 90 may be phrased to indicate the context of the question including all criteria or parameters. For example, the question can be in the form of: "Did I understand that you want such-and-such?" If the user confirms that the question is correct the system proceeds to produce a response. Otherwise, the user can rephrase the original question, perhaps adding additional information to remove ambiguity, or the system can ask one or more questions to attempt to resolve the ambiguity.

[0136] Once the context for the question or command has been determined, the parser 118 can invoke the correct agent 156, 150. To formulate a question or command in the regular grammar used by agents, the parser will preferably determine required and optional values for the criteria or parameters. These criteria may have been explicitly supplied by the user or may need to be inferred. The parser may make use of the criteria handlers 152 supplied by the system agent. The criteria handlers can provide context sensitive procedures for extracting the criteria or parameters from the user's question or command. Some criteria may be determined by executing algorithms in the agent, while others may be determined by applying probabilistic or fuzzy reasoning to tables of possible values. Prior probabilities or fuzzy possibilities and associated values may be received from a number of sources including, for example, the history of the dialog, the user profile 110, and the agent. Based on user responses, the prior

probabilities or fuzzy possibilities may be updated as the system learns the desired behavior. For a weather context, examples of criteria include, location, date and time. Other criteria can include command criteria (i.e., yes/no, on/off, pause, stop), and spelling. Special criteria handlers are available from the system agent for processing lists, tables, barge-in commands, long strings of text and system commands.

[0137] The criteria handlers 152 can operate iteratively or recursively on the criteria extracted to eliminate ambiguity. This processing may help reduce the ambiguity in the user's question or command. For example, if the user has a place name (or other proper noun) in their utterance the parser 118 can use services of the domain agent 156 to look up tables in the databases 102 for place names or can attempt to determine which word is the proper noun from the syntax of the utterance. In another example, the user asks, "what about flight one hundred and twenty too?" The parser and domain agent use flight information in the database and network information along with context to determine the most plausible interpretation among; flight 100 and flight 20 also, flight 100 and flight 22, flight 122, etc.

[0138] Once the context and the criteria are determined, the parser 118 may form the question or command in a standard format or hierarchical data structure used for processing by the agents 150, 156. The parser 118 may fill in all required and some optional tokens for the grammar of the context. Often the tokens must be transformed to values and forms acceptable to the agents. The parser obtains the required transformations from the agents, dialog history or user profile 110. Examples of transformations or substitutions performed by the parser on tokens include: 1) substituting a stock symbol for a company name or abbreviation; 2) substituting a numerical value for a word or words; 3) adding a zip code to an address; and, 4) changing a place or other name to a commonly used standard abbreviation.

[0139] The agents 150, 156 may receive a command or question once the parser 118 has placed it in the required standard format. Based on the context, the parser can evoke the correct agent to process the question or command.

[0140] Commands can be directed to the system or to an external entity. System commands are generally directed to the system agent 150. Commands for external entities are generally processed by a domain agent 156, which includes the command context and behavior for the external entity.

[0141] Specific questions may be generally directed to one of the domain agents 156. The real-time selection of the correct agent allows the invention to dynamically switch contexts. Based on the question, command or context and the parameters or criteria, the domain agent may create one or more queries to one or more local or external information sources. Questions can be objective or subjective in nature. Results for objective questions can often be obtained by structured queries to one or more local or network information sources. Even for objective questions, the system may need to apply probabilistic or fuzzy set analysis to deal with cases of conflicting information or incomplete information. Information to answer subjective questions is generally obtained by one or more ad-hoc queries to local or network data sources, followed by probabilistic or fuzzy set evaluation of the one results to determine a best answer.

[0142] Once the domain agent 156 has formulated the one or more queries, they may be sent to local and/or network information sources. The queries may be performed in an asynchronous manner to account for the fact that sources respond at different speeds or may fail to respond at all. Duplicate queries can be sent to different information sources to ensure that at least one source responds with a useful result in a timely manner. Further, if multiple results are received in a timely manner, they can be scored by the system to determine which data is most reliable or appropriate. Examples of data sources accommodated include, HTTP data sources, sources with meta-data in various formats including XML, measurement data from sensors using various formats, device 32 setting parameters, entertainment audio, video and game files including MP3, databases using query languages and structured responses such as SQL, and other data sources.

[0143] The local information sources can be stored in one or more system databases 102 or can be on any local data storage such as a set of CDs or DVDs in a player or other local data storage. In other cases, local information can be obtained from vehicle system settings or measurement devices. Network information sources can be connected to, the control and device interfaces 30, the data interfaces 26, the Internet 42 or other network and accessed through a series of plug-ins or adaptors, known as pluggable sources, in the network interface 116. The pluggable sources are capable of executing the protocols and interpreting the data formats for the data sources of interest. The pluggable source provides information scrapping forms and procedures for each source to the domain agents 156. If a new type of data source is to be used a new plug-in or adaptor can be added to the appropriate interface.

[0144] The domain agent 156 can evaluate the results of the one or more queries as they arrive. The domain agent may score the relevance of the results based on results already received, the context, the criteria, the history of the dialog, the user profile 110 and domain specific information using probabilistic or fuzzy scoring techniques. Part of the dialog history is maintained in a context stack. The weight of each context for the scoring may be based on the relevance of one context to another and the age of the contexts. Other scoring variables can be associated through the context stack. Contexts can also be exclusive, so that previous contexts have no weight in the scoring.

[0145] Based on the on-going scoring processes, the domain agent 156 may determine if a single best answer can be extracted. For most questions, the desired result may include a set of tokens that may be found to formulate an answer. Once a value has been found for each of these tokens, the results are ready for presentation to the user. For example, for a question on weather, the tokens can include the date, day of week, predicted high temperature, predicted low temperature, chance of precipitation, expected cloud cover, expected type of precipitation and other tokens. Results processed in this manner may include error messages. For subjective questions, this determination is made by determining a most likely answer or answers, extracted by

matching of the results received. If no satisfactory answer can be inferred from the results of the query, the agent can do one of the following:

1. Ask the user for more information, typically through the speech interface, and based on the results obtained formulate new queries. This approach is applied when an irresolvable ambiguity arises in the formulation of a response.
2. Formulate new queries based on the results received from the first set of queries. This approach is typically applied in cases where the responses received do not include all the required information. Information sources to queries can be inferred from the results already obtained (i.e., links in an HTML document or measurements or settings from other devices 32) or from other sources. Using this approach one or more sets of queries and responses can be chained without the need for action by the user.
3. Wait for additional queries to return results.

[0146] In any case, the domain agent 156 may continue to make queries and evaluate results until a satisfactory response is constructed. In doing so, the agent can start several overlapping query paths or threads of inquiry, typically mediated by the event manager 100. This technique, combined with the use of asynchronous queries from multiple data sources provides the real-time response performance required for a natural interaction with the user.

[0147] The domain agent 156 may apply conditional scraping operations to each query response as it is received. The conditional scraping actions may depend on the context, the criteria, user profile 110, and domain agent coding and data. For each token to be extracted a scraping criteria 152 can be created using the services of the system agent 150. The scraping criteria may use format specific scraping methods including, tables, lists, text, and other methods. One or more scraping criteria can be applied to a page or results set. Once additional results are received, the domain agent can create new scraping criteria to apply to results already acquired. The conditional scarping process

removes extraneous information, such as graphics, which need not be further processed or stored, improving system performance.

[0148] Specific commands are generally directed to one of the domain agents 156. The real-time selection of the correct agent allows the invention to dynamically switch contexts. Command oriented domain agents 156 evaluate the command and the state of vehicle systems, system capabilities, and measurements to determine if the command can be executed at all or if doing so will exceed operating or safety limits. If the command is ambiguous or cannot be executed for some other reason, the system may ask the user for more information or may suggest what the problem is and a likely approach to the solution. The domain agent may format the command for the specific device 32 and control and device interface 30. This formatting may involve variable substitution, inference of missing values and other formatting. Variable substitution and inference depends on the command context, the user profile 110, command history, state of vehicle systems and measured values, and other factors. A complex command can result in more atomic commands being sent to multiple devices, perhaps in a sequence. The sequence and nature of subsequent commands may depend on the previous commands, results of pervious commands, device settings and other measurements. As a command is executed, measurements are made and results collected to determine if the execution was correct and the desired state or states were reached.

[0149] Once the domain agent 156 has created a satisfactory response to a question, or to a command, the agent may format that response for presentation. Typically, the domain agent can format the response into the markup format used by the text to speech engine 124. The domain agent may format the result presentation using available format templates and based on the context, the criteria, and the user profile 110. The domain agent may perform variable substitutions and transformations to produce a response best understood and most natural to the user. The domain agent may vary the order of presentation of tokens and the exact terminology used to create a

more natural response to the user. The domain agent may also select the presentation personality 108 to be used.

[0150] For both command and query responses, the domain agent 156 may select the presentation template, determine order of presentation for tokens and determine variable substitutions and transformations using probabilistic or fuzzy set decision methods. The template used to form the presentation can be from the domain agent itself or from the user profile 110. The user profile can completely specify the presentation format or can be used to select and then modify an existing presentation format. Selection and formatting of presentation template can also depend on the presentation personality 108. At the same time, the characteristics of the personality used for the response are dynamically determined using probabilities or fuzzy possibilities derived from the context, the criteria, the domain agent itself and the user profile 110.

[0151] The domain agent 156 may apply a number of transformations to the tokens before presentation to the user. These variable substitutions and transformations may be derived from a number of sources including, domain information carried by the agent, the context, the token values, the criteria, the personality 108 to be used, and the user profile 110. Examples of variable substitutions and transformations include: 1) substitution of words for numbers; 2) substitution of names for acronyms or symbols (i.e., trading symbols); 3) use of formatting information derived from the information sources (i.e., HTML tags); 4) nature of the response including, text, long text, list, table; 5) possible missing information or errors; 6) units for measurement (i.e., English or metric); and, 7) preferred terminology from the user profile or presentation personality 108.

[0152] The invention may provide special purpose presentation capabilities for long text strings, tables, lists and other large results sets. Domain agents 156 may use special formatting templates for such results. The system agent 150 can provide special criteria handlers 152 for presentation and user commands for large results sets. The

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presentation templates used by the domain agents for large results sets typically include methods for summarizing the results and then allowing the user to query the result in more detail. For example, initially only short summaries, such as headlines or key numbers, are presented. The user can then query the results set further. The criteria handlers provide users with the capability to browse large results sets. Commands provided by the criteria handlers for large results sets include, stop, pause, skip, rewind, start, and forward.

[0153] Some information, in formats such as video, pictures and graphics, may be best presented in a displayed format. The domain agents 156 apply suitable presentation templates in these cases and present the information through the non-speech interface 114. The system agent 150 provides special criteria handlers 152 for presentation and user commands for display presentation and control.

[0154] Although particular embodiments of the invention have been shown and described, it will be understood that it is not intended to limit the invention to the embodiments that are disclosed and it will be obvious to those skilled in the art that various changes and modifications may be made without departing from the spirit and scope of the invention. Thus, the invention is intended to cover alternatives, modifications, and equivalents, which may be included within the spirit and scope of the invention as defined by the claims.

We claim:

1. A system for processing natural language utterances where recognized words of the natural language utterances alone are insufficient to completely determine one or more commands or requests, the system including one or more processors executing one or more computer program modules which, when executed, cause the one or more processors to:

generate a context stack comprising context information that corresponds to a plurality of prior utterances;

receive a natural language utterance associated with a command or request;

determine one or more words of the natural language utterance by performing speech recognition on the natural language utterance; and

determine the command or request based on the one or more words and the context information.

2. The system of claim 1, wherein the one or more processors are further caused to:

prompt a user associated with the natural language utterance for additional information or confirmation regarding the command or request; and

receive a non-speech input regarding the additional information or confirmation in response to the prompt, wherein the command or request is determined further based on the non-speech input.

3. The system of claim 1, wherein the context stack includes a plurality of context entries, and wherein the one or more processors are further caused to:

identify, from among the plurality of context entries, one or more context entries that correspond to the one or more words, wherein the context information includes the one or more context entries.

4. The system of claim 3, wherein identifying the one or more context entries comprises:

comparing the plurality of context entries with the one or more words;

generating one or more rank scores for individual context entries of the plurality of context entries based on the comparison; and

identifying, from among the plurality of context entries, the one or more context entries based on the one or more rank scores.

5. The system of claim 4, wherein the plurality of context entries are ordered in the context stack, and wherein the one or more processors are further caused to update the ordering of the plurality of context entries in the context stack based on the one or more rank scores.

6. The system of claim 5, wherein the natural language utterance is associated with a user, and wherein the one or more processors are further caused to:

receive a subsequent natural language utterance associated with the user; and

determining one or more subsequent words of the subsequent natural language utterance by performing speech recognition on the subsequent natural language utterance;

identify, from among the plurality of context entries, one or more other context entries that correspond to the one or more subsequent words based on the updated ordering; and

determine a subsequent command or request based on the one or more subsequent words and the one or more other context entries.

7. The system of claim 3, wherein identifying the one or more context entries comprises identifying, from among the plurality of context entries, the one or more context entries that most closely correspond to the one or more words.

8. The system of claim 1, wherein the one or more processors are further caused to:

identify one or more domain agents associated with the one or more context entries, wherein the one or more domain agents are configured to process the command or request; and

generate a response to the command or request using the one or more domain agents.

9. The system of claim 8, wherein each of the one or more domain agents comprises domain knowledge associated with a particular domain, the domain knowledge comprising: (i) a keyword; (ii) a link to an information source; (iii) a list of responses associated with a plurality commands or requests; (iv) a substitution list used to format the plurality of commands or requests; or (v) content including dictionaries, encyclopedias, or almanacs.

10. The system of claim 8, wherein the response comprises an aggregation of one or more responses generated by the one or more domain agents based on the command or request.

11. The system of claim 8, wherein the one or more processors are further caused to:

obtain information relating to a license agreement that is associated with at least one of the one or more domain agents;

determine that use of the at least one of the one or more domain agents to process the command or request is permitted based on the information related to the license agreement; and

generate, using the at least one of the one or more domain agents, the response based on the determination that the use is permitted.

12. The system of claim 1, wherein the natural language utterance is associated with a user, and wherein the one or more processors are further caused to:

obtain a cognitive model or an environmental model associated with the user, wherein the cognitive model comprises information relating to one or more interactions between the user and the system, and the environmental model comprises information indicative of how noisy an environment surrounding the user is,

wherein the one or more words are determined further based on the cognitive model or the environmental model.

13. The system of claim 1, wherein the natural language utterance is associated with a user, and wherein the one or more processors are further caused to:

obtain a first cognitive model that comprises information relating to one or more interactions between the user and the system; and

obtain a second cognitive model that comprises information relating to one or more interactions between the system and a plurality of users of the system,

wherein the one or more words are determined further based on the first cognitive model and the second cognitive model.

14. The system of claim 1, wherein the context stack is a first context stack of a first device, and wherein the one or more processors are further caused to:

synchronize the context stack with a second context stack of a second device.

15. A computer-implemented method of processing natural language utterances where recognized words of the natural language utterances alone are insufficient to completely determine one or more commands or requests, the method being implemented by a computer system that includes one or more processors executing one or more computer program modules which, when executed, perform the method, the method comprising:

generating a context stack comprising context information that corresponds to a plurality of prior utterances;

receiving a natural language utterance associated with a command or request;

determining one or more words of the natural language utterance by performing speech recognition on the natural language utterance; and

determining the command or request based on the one or more words and the context information.

16. The method of claim 15, further comprising:

prompting a user associated with the natural language utterance for additional information or confirmation regarding the command or request; and

receiving a non-speech input regarding the additional information or confirmation in response to the prompt, wherein the command or request is determined further based on the non-speech input.

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17. The method of claim 15, wherein the context stack includes a plurality of context entries, the method further comprising:

identifying, from among the plurality of context entries, one or more context entries that correspond to the one or more words, wherein the context information includes the one or more context entries.

18. The method of claim 17, wherein identifying the one or more context entries comprises:

comparing the plurality of context entries with the one or more words;

generating one or more rank scores for individual context entries of the plurality of context entries based on the comparison; and

identifying, from among the plurality of context entries, the one or more context entries based on the one or more rank scores.

19. The method of claim 15, further comprising:

identifying one or more domain agents associated with the one or more context entries, wherein the one or more domain agents are configured to process the command or request; and

generating a response to the command or request using the one or more domain agents.

20. The method of claim 15, wherein the natural language utterance is associated with a user, the method further comprising:

obtaining a first cognitive model that comprises information relating to one or more interactions between the user and the system; and

obtaining a second cognitive model that comprises information relating to one or more interactions between the system and a plurality of users of the system,

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wherein the one or more words are determined further based on the first cognitive model and the second cognitive model.

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ABSTRACT

A mobile system is provided that includes speech-based and non-speech-based interfaces for telematics applications. The mobile system identifies and uses context, prior information, domain knowledge, and user specific profile data to achieve a natural environment for users that submit requests and/or commands in multiple domains. The invention creates, stores and uses extensive personal profile information for each user, thereby improving the reliability of determining the context and presenting the expected results for a particular question or command. The invention may organize domain specific behavior and information into agents, that are distributable or updateable over a wide area network.

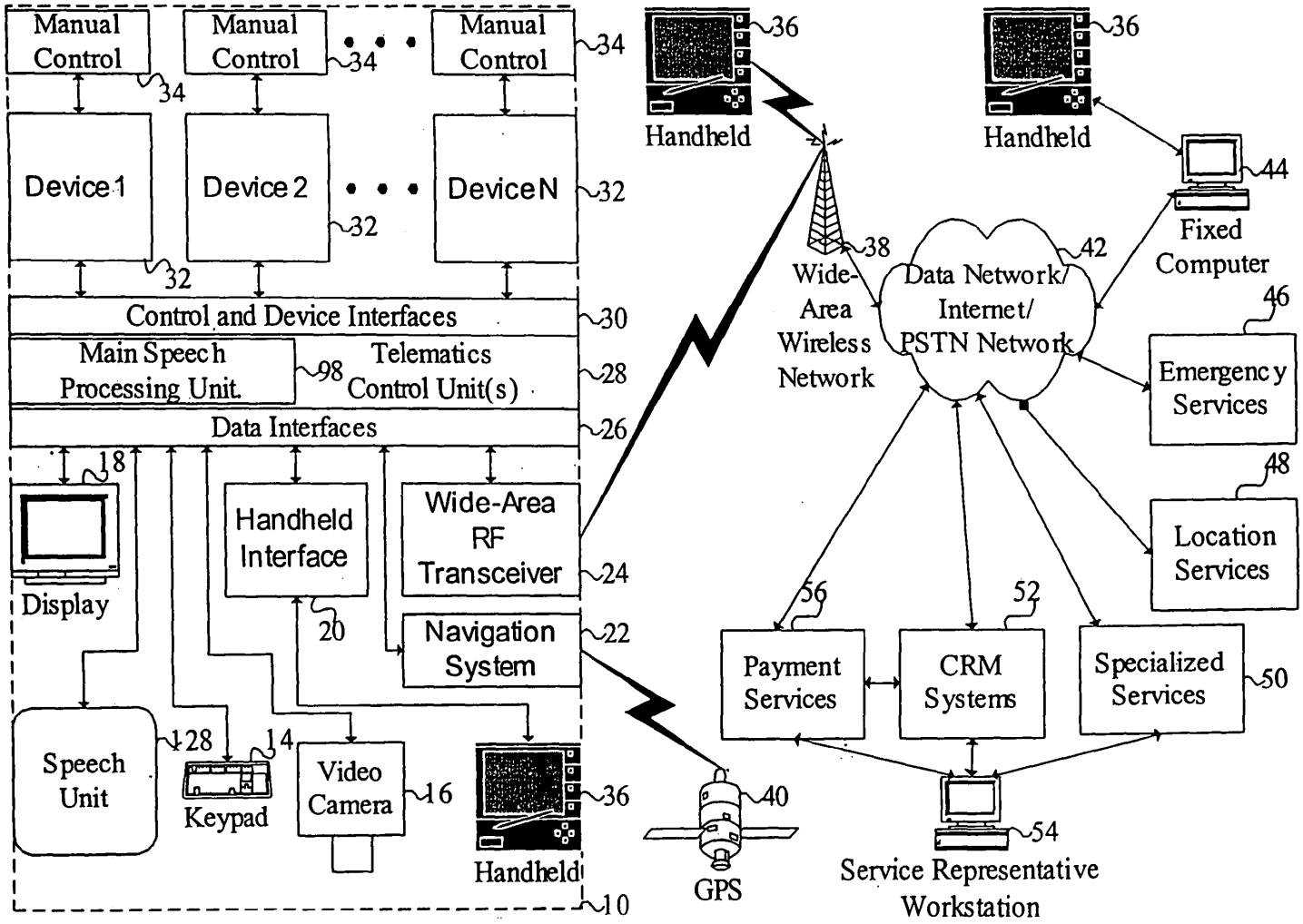

Manual Control
Manual Control
Manual Control
34
Device 1
Device 2
DeviceN
32
Control and Device Interfaces
30
Main Speech Processing Unit
98
Telematics Control Unit(s)
28
Data Interfaces
26
18
Display
Handheld Interface
20
Wide-Area RF Transceiver
24
Navigation System
22
Speech Unit
128
Keypad
14
Video Camera
16
Handheld
36
10
Handheld
36
Handheld
36
38
Wide-Area Wireless Network
42
Data Network/ Internet/ PSTN Network
44
Fixed Computer
46
Emergency Services
48
Location Services
56
52
Payment Services
CRM Systems
Specialized Services
50
40
GPS
54
Service Representative Workstation

Figure 1

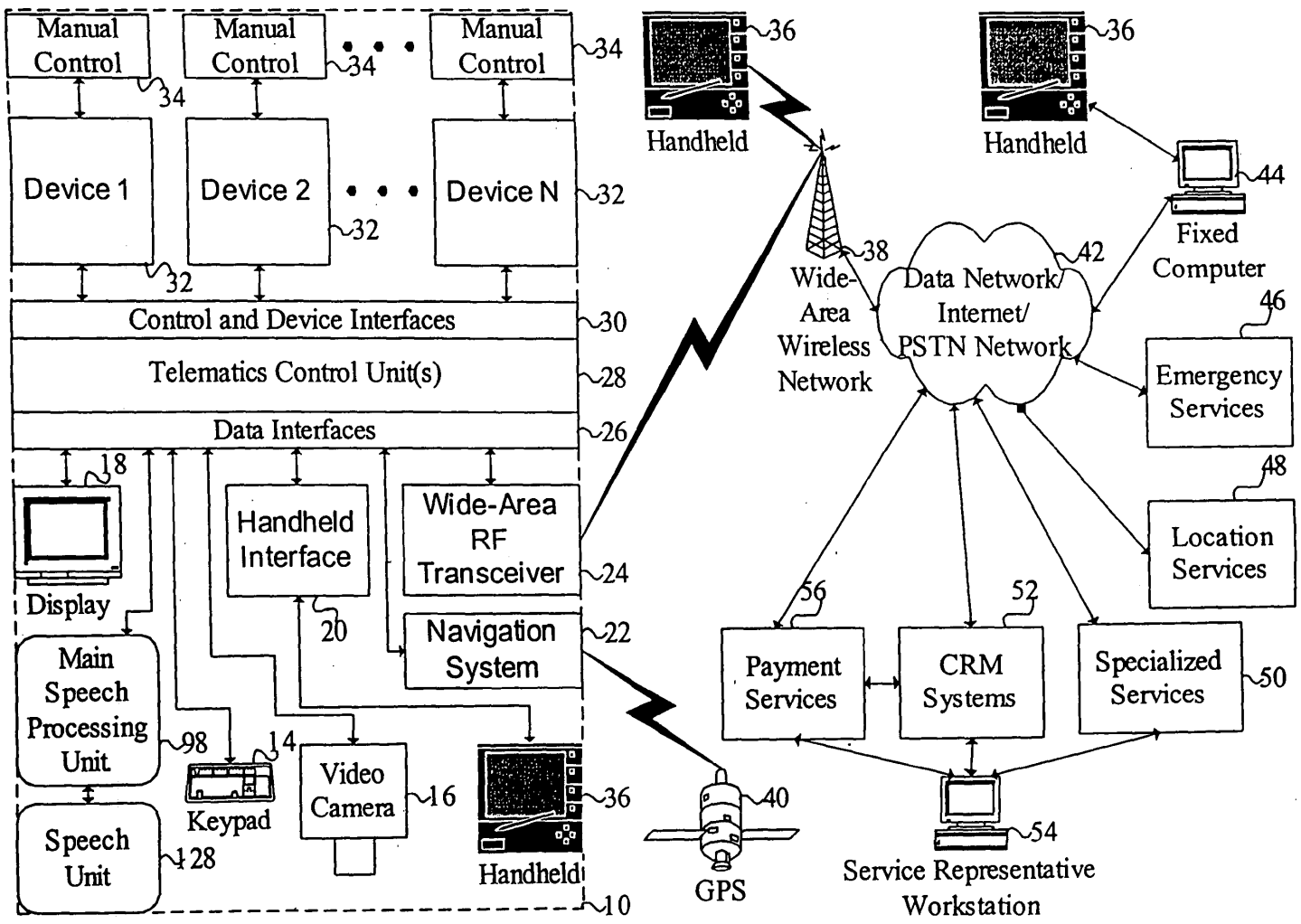

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Video Camera
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Handheld
36
10
Handheld
36
Handheld
36
38
Wide-Area Wireless Network
42
Data Network/ Internet/ PSTN Network
44
Fixed Computer
46
Emergency Services
48
Location Services
56
Payment Services
52
CRM Systems
Specialized Services
50
40
GPS
54
Service Representative Workstation

Figure 2

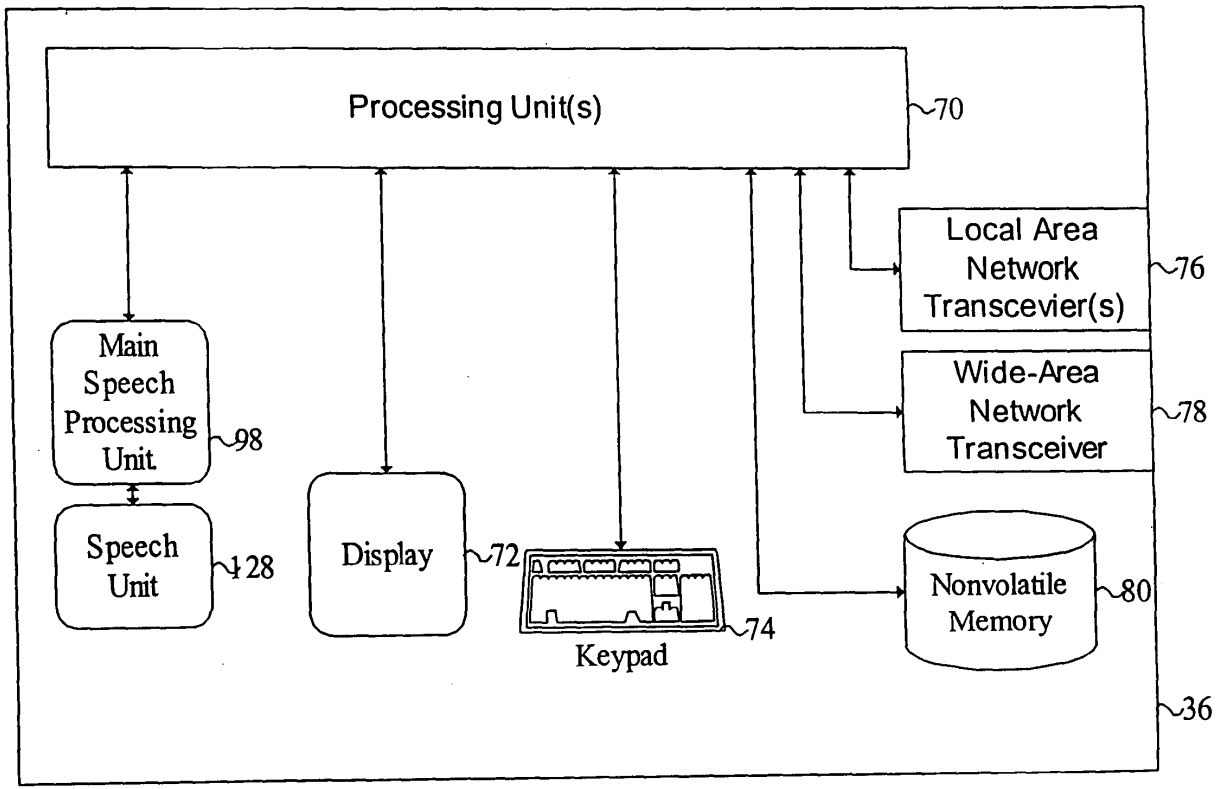

Processing Unit(s)
70
Local Area Network Transcevier(s)
76
Wide-Area Network Transceiver
78
Main Speech Processing Unit
98
Speech Unit
128
Display
72
Keypad
74
Nonvolatile Memory
80
36

Figure 3.

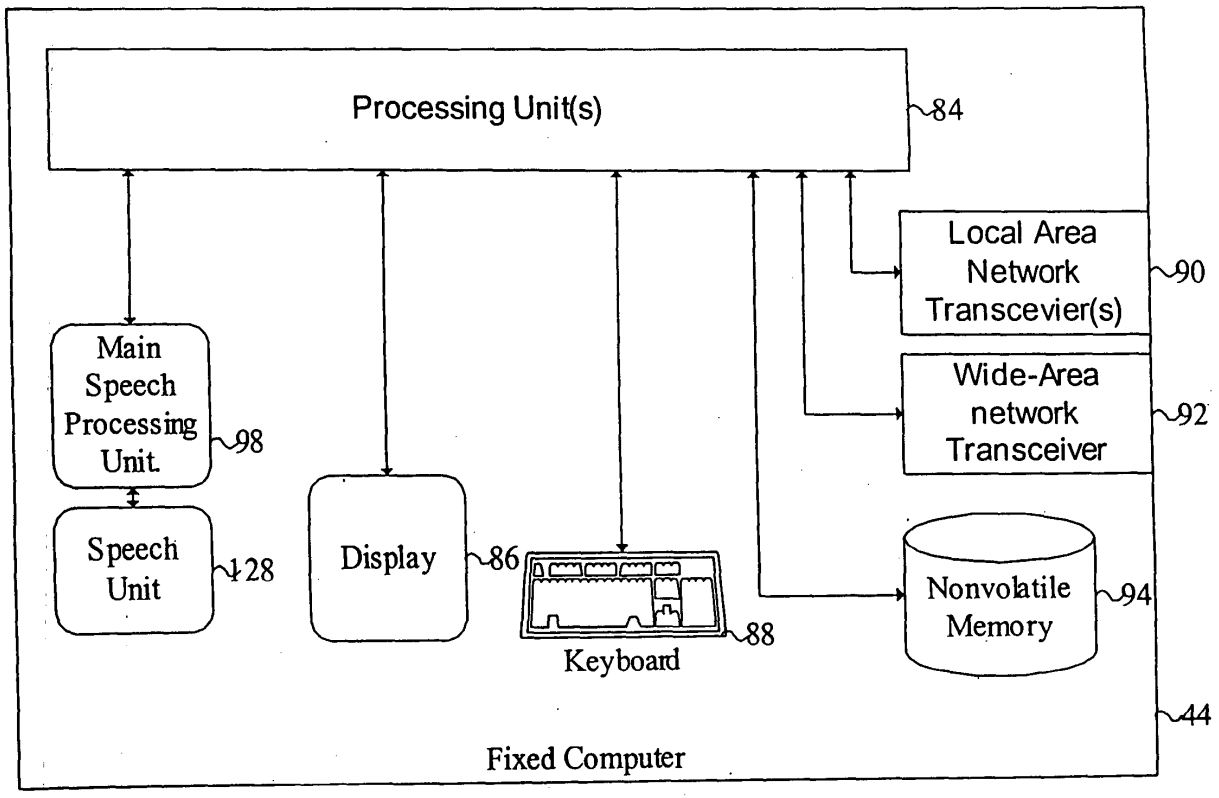

Processing Unit(s)
84
Local Area Network Transcevier(s)
90
Wide-Area network Transceiver
92
Main Speech Processing Unit.
98
Speech Unit
128
Display
86
Keyboard
88
Nonvolatile Memory
94
44
Fixed Computer

Figure 4

FIG. 5

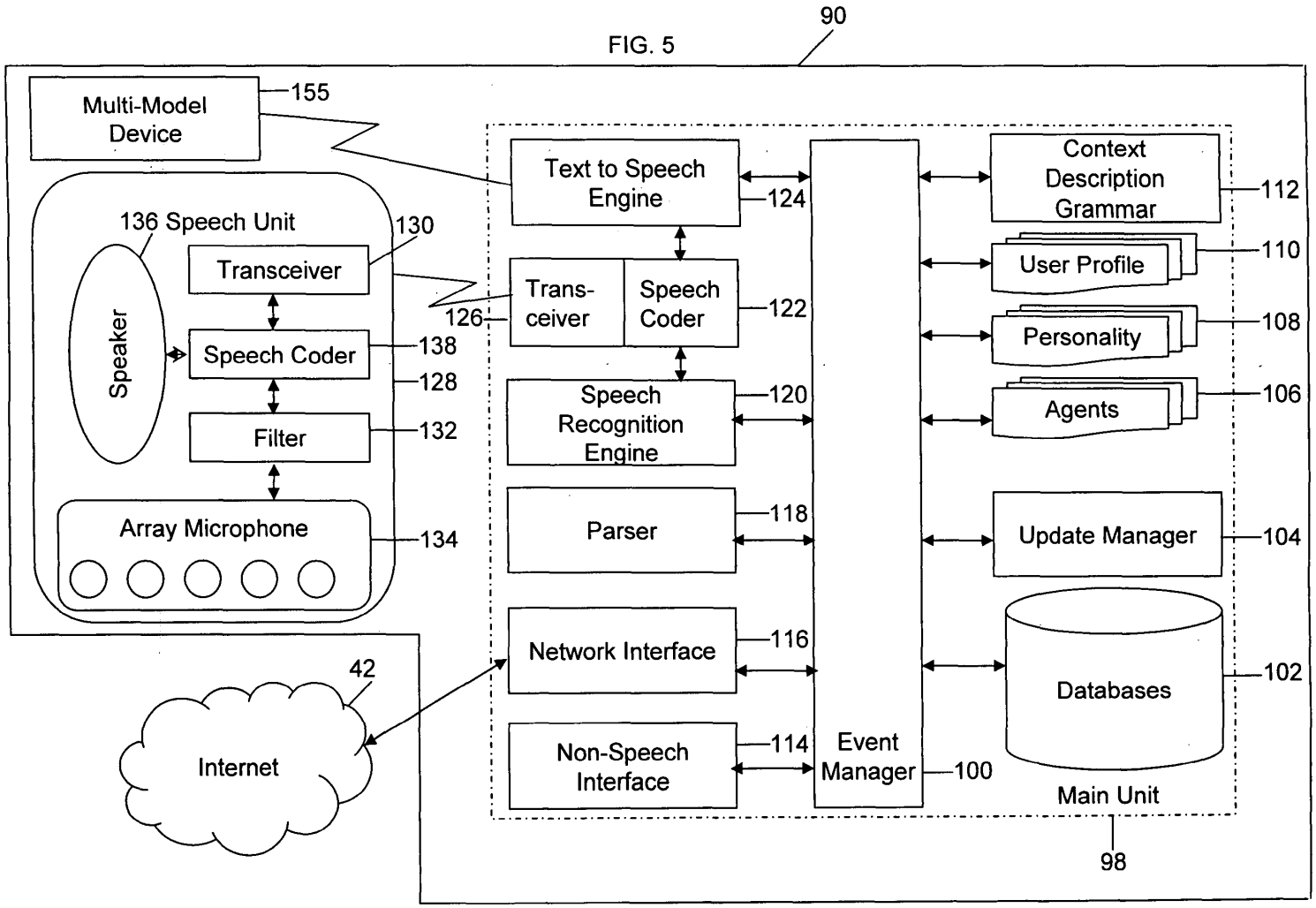

90
Multi-Model Device
155
136 Speech Unit
130
Transceiver
Speaker
Speech Coder
138
128
Filter
132
Array Microphone
134
126
Text to Speech Engine
124
Trans-ceiver
Speech Coder
122
Speech Recognition Engine
120
Parser
118
Network Interface
116
Non-Speech Interface
114
Event Manager
100
Main Unit
98
Context Description Grammar
112
User Profile
110
Personality
108
Agents
106
Update Manager
104
Databases
102
42
Internet

FIG. 6

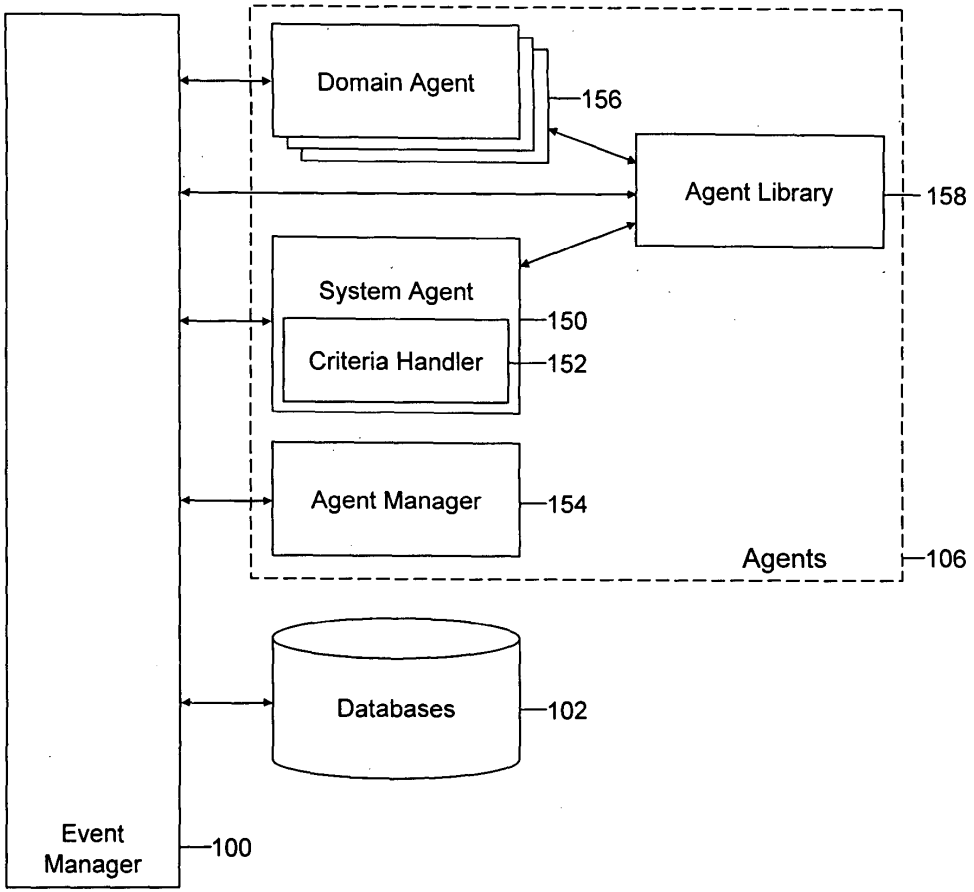
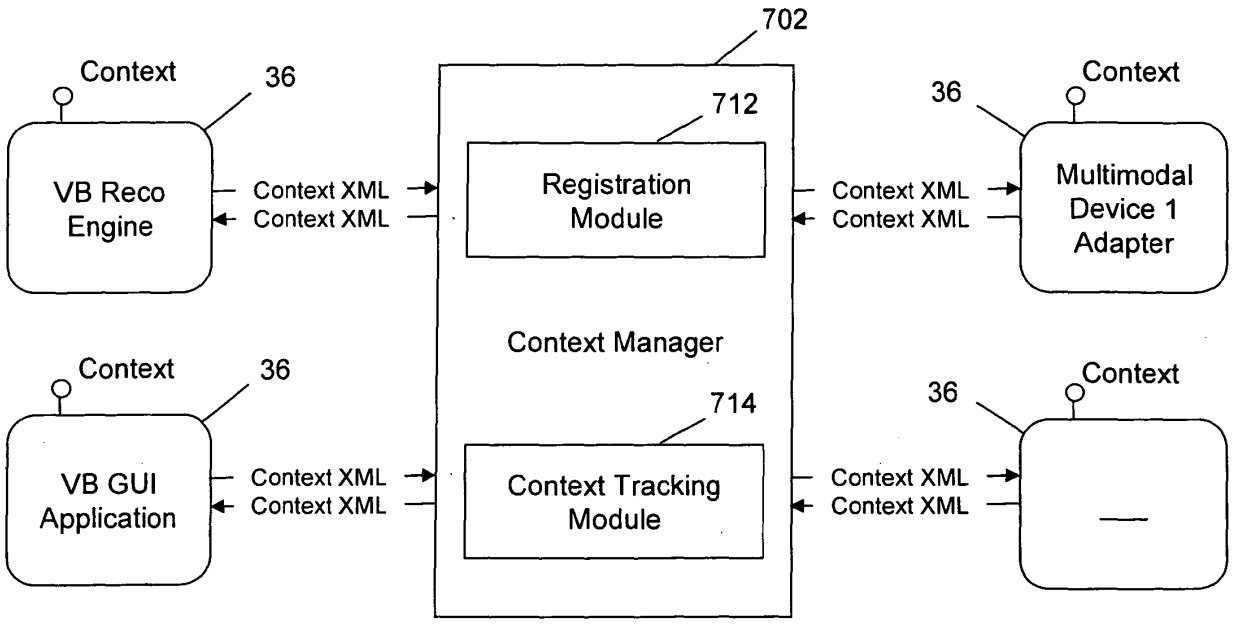

Domain Agent
156
Agent Library
158
System Agent
150
Criteria Handler
152
Agent Manager
154
Agents
106
Databases
102
Event Manager
100

FIG. 7


700
702
Context
36
VB Reco Engine
Context XML
Context XML
712
Registration Module
Context XML
Context XML
36
Context
Multimodal Device 1 Adapter
Context Manager
Context
36
VB GUI Application
Context XML
Context XML
714
Context Tracking Module
Context XML
Context XML
36
Context

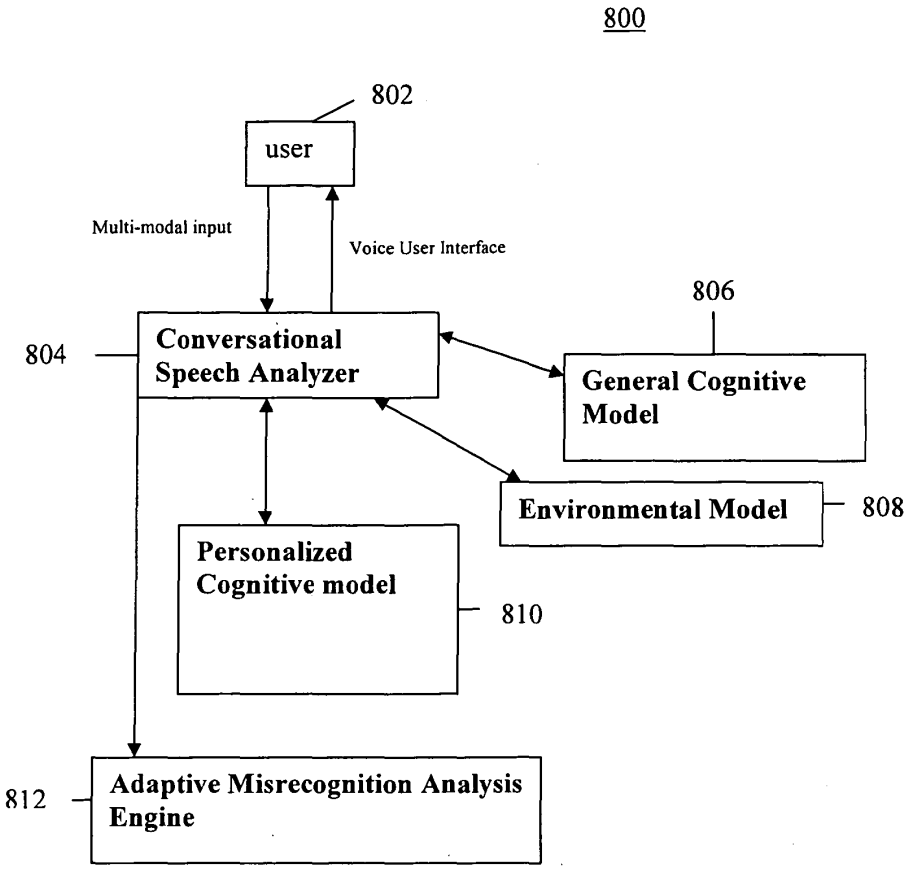

800
802
user
Multi-modal input
Voice User Interface
806
804
Conversational Speech Analyzer
General Cognitive Model
Environmental Model
808
Personalized Cognitive model
810
812
Adaptive Misrecognition Analysis Engine

FIGURE 8

Electronic Patent Application Fee Transmittal	
Application Number:	
Filing Date:	
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	Chris Weider
Filer:	Ngai Bing Zhang/Miriam Nelsen Awan
Attorney Docket Number:	090611-0433849
Filed as Small Entity	

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**730**

Electronic Acknowledgement Receipt	
EFS ID:	19956304
Application Number:	14467641
International Application Number:	
Confirmation Number:	8640
Title of Invention:	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS
First Named Inventor/Applicant Name:	Chris Weider
Customer Number:	909
Filer:	Ngai Bing Zhang/Miriam Nelsen Awan
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	090611-0433849
Receipt Date:	25-AUG-2014
Filing Date:	
Time Stamp:	15:57:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Payment Type	Deposit Account
Payment was successfully received in RAM	$730
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	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal of New Application		1	2	
	Oath or Declaration filed		3	6	
	Power of Attorney		7	7	
	Assignee showing of ownership per 37 CFR 3.73.		8	9	
Warnings:					
Information:					
2	Application Data Sheet	090611-0433849_ADS.pdf	1562237 bc9aad23415743a2f9ea355a63177fe8045af57e	no	9
Warnings:					
Information:					
3	Transmittal Letter	090611-0433849_IDS.pdf	520700 d8831d0c17f82c75e5451d0c92fb1fa8297e20bf	no	2
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Information:					
4	Information Disclosure Statement (IDS) Form (SB08)	090611-0433849_PTO1449.pdf	2943058 dd187bea8939d00765535d347a5cf9b8b77b2eb6	no	28
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	Specification		1		66
	Claims		67		73
	Abstract		74		74
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6	Drawings-only black and white line drawings	090611-0433849_Drawings.pdf	191946 77eed0b6566ffb35522b1f9529b3731ce266524a	no	8
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<u>New International Application Filed with the USPTO as a Receiving Office</u>
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