



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/409,703	04/24/2006	Alexander Kurganov	

93219
Patent Law Works, LLP
201 South Main Street, Suite 250
Salt Lake City, UT 84111

CONFIRMATION NO. 2765
POA ACCEPTANCE LETTER



Date Mailed: 12/04/2014

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/01/2014.

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.

/dtvernon/

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



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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/409,703	04/24/2006	Alexander Kurganov	078616-1028

CONFIRMATION NO. 2765

POWER OF ATTORNEY NOTICE

27433
FOLEY & LARDNER LLP
3000 K STREET N.W.
SUITE 600
WASHINGTON, DC 20007-5109



Date Mailed: 12/04/2014

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/01/2014.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervned as provided by 37 CFR 3.71.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

/dtvernon/

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

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:

Practitioners associated with Customer Number:

93219

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:

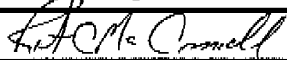
93219

OR

<input type="checkbox"/>	Firm or Individual Name			
<input type="checkbox"/>	Address			
<input type="checkbox"/>	City	State	Zip	
<input type="checkbox"/>	Country			
<input type="checkbox"/>	Telephone			Email

Assignee Name and Address: Parus Holdings, Inc.
3000 Lakeside Drive, Suite 300N
Bannockburn, IL 60015**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		Date	5/21/2013
Name	Robert C. McConnell	Telephone	888-387-3481
Title	Chief Financial Officer, Senior Vice President and General Counsel of Parus Holdings, Inc.		

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.

Electronic Acknowledgement Receipt

EFS ID:	20821590
Application Number:	11409703
International Application Number:	
Confirmation Number:	2765
Title of Invention:	ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	27433
Filer:	Reena Kuyper
Filer Authorized By:	
Attorney Docket Number:	078616-1028
Receipt Date:	01-DEC-2014
Filing Date:	24-APR-2006
Time Stamp:	02:52:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73.	04518US_Stmnt373.pdf	120074 <small>576f798e89e3a65349cda8f733b8618a4b32ff3f</small>	no	3

Warnings:

Information:

2	Power of Attorney	Signed_Parus_POA.pdf	58299	no	1
			db136580173a245b145ea45cb364f8db8e9ae578		

Warnings:

Information:

Total Files Size (in bytes):	178373
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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.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Alexander Kurganov, Valery Zhukoff
Application No./Patent No.: 11/409,703 Filed/Issue Date: April 24, 2006
Titled: Robust Voice Browser System and Voice Activated Device Controller
Parus Holdings, 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. 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: Alexander Kurganov, Valery Zhukoff To: Webley Systems, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 033922, Frame 0418, or for which a copy thereof is attached.

2. From: Webley Systems, Inc. To: Parus Holdings, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 033922, Frame 0431, or for which a copy thereof is attached.

[Page 1 of 2]

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.

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.

/Reena Kuyper/ _____

Signature

Reena Kuyper

Printed or Typed Name

December 1, 2014

Date

33,830

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.



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.
11/409,703	06/10/2008	7386455	078616-1028	2765

27433 7590 05/21/2008
FOLEY & LARDNER LLP
321 NORTH CLARK STREET
SUITE 2800
CHICAGO, IL 60610-4764

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 Customer Service Center of the Office of Patent Publication at (571)-272-4200.

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

Alexander Kurganov, Buffalo Grove, IL;
Valery Zhukoff, Deerfield, IL;

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)

27433 7590 12/06/2007
 FOLEY & LARDNER LLP
 321 NORTH CLARK STREET
 SUITE 2800
 CHICAGO, IL 60610-4764

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.

FILED VIA EFS-WEB	(Depositor's name)
	(Signature)
	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/409,703	04/24/2006	Alexander Kurganov	078616-1028	2765

TITLE OF INVENTION: ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	03/06/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
MCFADDEN, SUSAN IRIS	2626	704-275000

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, Foley & Lardner LLP

(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 PARUS HOLDINGS, INC.

(B) RESIDENCE: (CITY and STATE OR COUNTRY) BANNOCKBUM, IL 60015

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.

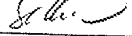
The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 19-0741 (enclose an extra copy of this form).

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

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature  Date February 13, 2008

Typed or printed name Scott R. Kaspar Registration No. 54,583

This collection of information 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Kurganov et al.
Title: ROBUST VOICE BROWSER
SYSTEM AND VOICE *Filed Via EFS-Web*
ACTIVATED DEVICE *February 13, 2008*
CONTROLLER
Appl. No.: 11/409,703
Filing Date: April 24, 2006
Examiner: Susan Iris McFadden
Art Unit: 2626
Confirmation 2765
Number:

ISSUE FEE TRANSMITTAL

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

Sir:

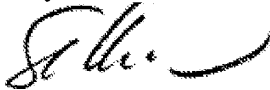
Enclosed herewith please find Issue Fee Transmittal Form PTOL-85(B).

Fees in the amount of \$1,020.00 for payment of the Issue Fee and the Publication Fee are being paid by credit card via EFS-Web.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by the credit card payment instructions in EFS-Web being incorrect or absent, resulting in a rejected or

incorrect credit card transaction, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,



Date February 13, 2008

By _____

FOLEY & LARDNER LLP
Customer Number: 27433
Telephone: (312) 832-5113
Facsimile: (312) 832-4700

Scott R. Kaspar
Attorney for Applicant
Registration No. 54,583

Electronic Patent Application Fee Transmittal

Application Number:	11409703			
Filing Date:	24-Apr-2006			
Title of Invention:	ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER			
First Named Inventor/Applicant Name:	Alexander Kurganov			
Filer:	Scott Richard Kaspar/Sherry Cunningham-Page			
Attorney Docket Number:	078616-1028			
Filed as Small Entity				
Utility Filing Fees				
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	2501	1	720	720
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1020

Electronic Acknowledgement Receipt

EFS ID:	2852016
Application Number:	11409703
International Application Number:	
Confirmation Number:	2765
Title of Invention:	ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	27433
Filer:	Scott Richard Kaspar/Sherry Cunningham-Page
Filer Authorized By:	Scott Richard Kaspar
Attorney Docket Number:	078616-1028
Receipt Date:	13-FEB-2008
Filing Date:	24-APR-2006
Time Stamp:	18:17:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1020
RAM confirmation Number	3073
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Issue Fee Payment (PTO-85B)	Part_B_Issue_Fee_078616_1028.pdf	103809 f95b5c5a0ec3f9be97a49a8c5c984195798628a0	no	1
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	Issue_Fee_078616_1028.pdf	91967 edb3be162aaf0478d4104880203479b0a3590d64	no	2
Warnings:					
Information:					
3	Fee Worksheet (PTO-06)	fee-info.pdf	8330 70c9106123963a33fe22999538150484a2fba6c2	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				204106	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><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.</p> <p><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.</p> <p><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.</p>					



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NOTICE OF ALLOWANCE AND FEE(S) DUE

27433 7590 12/06/2007
FOLEY & LARDNER LLP
321 NORTH CLARK STREET
SUITE 2800
CHICAGO, IL 60610-4764

EXAMINER

MCFADDEN, SUSAN IRIS

ART UNIT PAPER NUMBER

2626
DATE MAILED: 12/06/2007

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
11/409,703 04/24/2006 Alexander Kurganov 078616-1028 2765

TITLE OF INVENTION: ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional YES \$720 \$300 \$0 \$1020 03/06/2008

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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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.

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)

27433 7590 12/06/2007
FOLEY & LARDNER LLP
321 NORTH CLARK STREET
SUITE 2800
CHICAGO, IL 60610-4764

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.
11/409,703	04/24/2006	Alexander Kurganov	078616-1028	2765

TITLE OF INVENTION: ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	03/06/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
MCFADDEN, SUSAN IRIS	2626	704-275000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "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.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1</p> <p>(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</p> <p>_____ 3</p>
---	---

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

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
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5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information 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.

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Includes details for application 11/409,703 filed 04/24/2006 by Alexander Kurganov, attorney docket 078616-1028, confirmation 2765. Examiner: MCFADDEN, SUSAN IRIS. Date mailed: 12/06/2007.

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

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	11/409,703	KURGANOV ET AL.	
	Examiner	Art Unit	
	Susan McFadden	2626	

-- 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 IDS filed 10-11-07.
2. The allowed claim(s) is/are 1-16.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - 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.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) 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)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|--|---|


 Susan McFadden
 Primary Examiner
 Art Unit: 2626

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	11/409,703
Date Submitted: October 11, 2007		Filing Date	4/24/2006
(use as many sheets as necessary)		First Named Inventor	Alexander Kurganov
		Art Unit	2626
		Examiner Name	Susan Iris McFadden
Sheet	1	Attorney Docket Number	078616-1028
	of		10

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JN		3,728,486	04-17-1973	Kraus	
		4,058,838	11-15-1977	Crager	
		4,100,377	07-11-1978	Flanagan	
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		4,500,751	02-19-1985	Darland	
		4,513,390	04-23-1985	Walter	
		4,523,055	06-11-1985	Hohl	
		4,549,047	10-22-1985	Brian	
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	4,809,321	02-28-1989	Morganstein		
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	4,837,798	06-06-1989	Cohen		

Examiner Signature	<i>Susan Iris McFadden</i>	Date Considered	11-27-03
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours 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, 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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Substitute for form 1449/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	11/409,703
		Filing Date	4/24/2006
Date Submitted: October 11, 2007 <i>(use as many sheets as necessary)</i>		First Named Inventor	Alexander Kurganov
		Art Unit	2626
Sheet 2 of 10		Examiner Name	Susan Iris McFadden
		Attorney Docket Number	078616-1028

U.S. PATENT DOCUMENTS				
	Document Number			
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	4,850,012	07-18-1989	Mehta	
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	5,008,926	04-16-1991	Misholi	
	5,020,095	05-28-1991	Morganstein	
jm	5,207,384	06-25-1991	Morganstein	

Examiner Signature	<i>Susan Iris McFadden</i>	Date Considered	11-26-07
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours 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, 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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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: October 11, 2007 <i>(use as many sheets as necessary)</i>		Application Number	11/409,703
		Filing Date	4/24/2006
		First Named Inventor	Alexander Kurganov
		Art Unit	2626
		Examiner Name	Susan Iris McFadden
Sheet	3	of	10
		Attorney Docket Number	078616-1028

U.S. PATENT DOCUMENTS				
	Document Number			
<i>m</i>	5,029,196	07-02-1991	Morganstein	
	5,036,533	07-30-1991	Carter	
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Examiner Signature	<i>Susan McFadden</i>	Date Considered	11-26-07
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	11/409,703
		Filing Date	4/24/2006
Date Submitted: October 11, 2007		First Named Inventor	Alexander Kurganov
		Art Unit	2626
(use as many sheets as necessary)		Examiner Name	Susan Iris McFadden
		Attorney Docket Number	078616-1028
Sheet	4	of	10

U.S. PATENT DOCUMENTS				
	Document Number			
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Examiner Signature	<i>Susan McFadden</i>	Date Considered	11-26-87
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Date Submitted: October 11, 2007		First Named Inventor	Alexander Kurganov
		Art Unit	2626
(use as many sheets as necessary)		Examiner Name	Susan Iris McFadden
		Attorney Docket Number	078616-1028
Sheet	5	of	10

U.S. PATENT DOCUMENTS				
	Document Number			
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		Filing Date	4/24/2006
		First Named Inventor	Alexander Kurganov
		Art Unit	2626
		Examiner Name	Susan Iris McFadden
Sheet	6	of	10
		Attorney Docket Number	078616-1028

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Examiner Initials*	Cite No. ¹	U.S. Patent Application Document Serial Number-Kind Code ² (if known)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
JM		GB 2 211 698 A	07-05-1989	AT&T		
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		WO 91/18466	11-28-1991	Messenger Partners		
		CA 1,329,852	05-24-1994	Audiofax, Inc.		
		WO 96/09710	03-28-1996	Octel Communications Corp.		
		WO 97/37481	10-09-1997	Northern Telecom Limited		
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Examiner Signature		Date Considered	11-26-07
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Sheet	7	Art Unit	2626
	of	Examiner Name	Susan Iris McFadden
	10	Attorney Docket Number	078616-1028

NON PATENT LITERATURE DOCUMENTS			
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AM		"A PABX that Listens and Talks", Speech Technology, January/February 1984, pp. 74-79.	
AM		AT&T, Press Release, "AT&T Customers Can Teach Systems to Listen and Respond to Voice", Jan. 17, 1995, pp. 1-2, Basking Ridge, NJ., available at www.lucent.com/press/0195/950117.gbb.html (accessed Mar. 15, 2005).	
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AM		Bellcore Technology Licensing, "The Electronic Receptionist – A Knowledge-Based Approach to Personal Communications", 1994, pp. 1-8.	
AM		BRACHMAN et al., "Fragmentation in Store-and-Forward Message Transfer", IEEE Communications Magazine, vol. 26(7), July 1998, pp. 18-27.	
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AM		"Data Communications Networks: Message Handling Systems", Fasciele, VIII. 7-Recommendations X.400-X.430, 38 pages, date unknown.	
AM		DAX Systems, Inc., Press Release, "Speech Recognition Success in DAX's Grasp", Nov. 22, 1995, pp. 1-2, Pine Brook, NJ.	
AM		Faxpak Store and Forward Facsimile Transmission Service", Electrical Communication, vol. 54 (3), 1979, pp. 251-55.	
AM		GARCIA ET AL., "Issues in Multimedia Computer-Based Message Systems Design and Standardization", NATO ASI Series, vol. 1-6, 1984, 18 pgs.	

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Sheet	8	of	10

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Jm		"GLOBECOM '85 IEEE Global Telecommunications Conference, "New Orleans, LA., December 2-5, 1985, pp. 1295-1300.	
JM		HEMPHILL et al., "Speech-Aware Multimedia," <i>IEEE MultiMedia</i> , Spring 1996, Vol. 3, No. 1, pp. 74-78, IEEE. As indicated on the cover page of the journal, a copy of which is attached hereto as Attachment 4, the reference was received by Cornell University on March 25, 1996.	
JM		HUNT et al., "Long-Distance Remote Control to the Rescue", Chicago Tribune, June 15, 2002, Section 4, page 15.	
Jm		Print outs of Internet web site, "Wildfire Communications, Inc.", November 5, 1997, including print outs of the following web pages: http://www.wildfire.com (1 pg); http://www.wildfire.com/consumerhome.html (2 pgs.); http://www.wildfire.com/106.html (2 pgs.); http://www.wildfire.com/carrierhome.html (2 pgs.); http://www.wildfire.com/sfandb.html (3 pgs); http://www.wildfire.com/about.html (1 pg.); http://www.wildfire.com/abtmgmt.html (3 pgs); http://www.wildfire.com/scoop.html (2 pgs.); and http://www.wildfire.com/intel.html (1 pg.); and http://www.wildfire.com/msft.html (2 pgs).	
Jm		"Introducing PIC SuperFax, First PC/Fax System to Run Under Windows", Pacific Image Communications, Pasadena, CA, Date Unknown, (received at COMDEX show, Nov. 3, 1987). 4 pgs.	
Jm		KUBALA et al., "BYBLOS Speech Recognition Benchmark Results", <i>Workshop on Speech & Natural Language</i> , February 19-22, 1991. According to the web site http://portal.acm.org/citation.cfm?id=112405.112415&coll... , attached hereto as Attachment 3, the reference was published in 1991, Morgan Kaufman Publishers, San Francisco, CA. The distribution date is not presently known.	

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(use as many sheets as necessary)			Examiner Name	Susan Iris McFadden	
			Attorney Docket Number	078616-1028	
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DM		LY, "Chatter: A Conversational Telephone Agent", submitted to Program in Media Arts & Sciences, MIT, 1993, pp. 1-130.	
DM		MAEDA, et al., "An Intelligent Customer-Controlled Switching System", IEEE Global Telecommunications Conference, Hollywood, Florida, Nov. 28-Dec. 1, 1988, pp. 1499-1503.	
DM		MARKOWITZ, J., "The Ultimate Computer Input Device May Be Right Under Your Nose", Byte, December, 1995, pp. 1-13, available at www.byte.com/art/9512/sec8/art1.htm (accessed Mar. 15, 2005).	
DM		MARX et al., "Mail Call: Message Presentation and Navigation in a Nonvisual Environment," <i>SIGCHI Conference on Human Factors in Computing Systems</i> , Vancouver, B.C., Canada, April 13-18, 1996. As shown on Attachment 2, the web site http://www.usabilityviews.com/uv001673.html shows a date of April 16, 1996. The distribution date is not presently known.	
DM		MARX, M., "Toward Effective Conversational Messaging" (Thesis). As indicated on the cover page, the thesis was presented to the Departmental Committee on Graduate Students, Program in Media Arts and Sciences, School of Architecture and Planning, Massachusetts Institute of Technology on May 12, 1995. According to the web site http://www.thesis.mit.edu/Dienst/Repository/2.0/Body/0018.mit.theses/1995-314/rfc1807bib , attached hereto as Attachment 1, the thesis was indexed on March 21, 2000.	
DM		PERDUE et al., "Conversant® 1 Voice System: Architecture and Applications", July 17, 1986, AT&T Technical Journal, pp. 1-14.	
DM		"Proceedings of the IFIP World Computer Congress", Dublin, Ireland, September 1-5, 1986.	
DM		SARTORI, M., "Speech Recognition", April 1995, pp. 1-9, Mercury Communications, available at www.gar.co.uk/technology_watch/speech.htm (accessed Mar. 15, 2005).	
DM		SCHMANDT et al., "A Conversational Telephone Messaging Systems", IEEE Transactions on Consumer Electronics, 1984, vol. CE-30, No. 3, pp. xxi-xxiv.	
DM		SCHMANDT et al., "Phone Shell: The Telephone as Computer Terminal", ACM Multimedia, 1993, 11 pgs.	
DM		SCHMANDT et al., "Phone Slave: A Graphical Telecommunications Interface", Proceedings of the SID, 1985, vol. 26/1, pp. 79-82.	

Examiner Signature		Date Considered	11-26-07
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours 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, 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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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.


Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: October 11, 2007 <i>(use as many sheets as necessary)</i>		Application Number	11/409,703
		Filing Date	4/24/2006
		First Named Inventor	Alexander Kurganov
		Art Unit	2626
		Examiner Name	Susan Iris McFadden
Sheet	10	of	10
		Attorney Docket Number	078616-1028

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
SM		"Secretarial Branch Exchanged", IBM Technical Disclosure Bulletin, vol. 26 (5), October 1983, pp. 2645-47.	
SM		SHIMAMURA, et al., "Review of the Electrical Communication Laboratories", vol. 418 (33), No. 1, Tokyo, Japan, 1985, pp. 31-39.	
SM		"Wildfire Communication, Inc.", Harvard Business School, March 21, 1996, Publ. No. 9-396-305, pp. 1-22.	
SM		"WordPerfect: New Telephony Features Boost Office", WordPerfect Office TechBrief, 1994, Info-World Publishing. Co., vol. 10, Issue 2, pp. 2-3.	
SM		YANG, C., "INETPhone - Telephone Services and Servers on the Internet", April 1995, University of North Texas, pp. 1-6.	


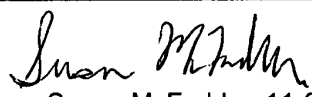
Examiner Signature		Date Considered	11-26-87
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Issue Classification 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	11/409,703	KURGANOV ET AL.	
	Examiner	Art Unit	
	Susan McFadden	2626	

ISSUE CLASSIFICATION										
ORIGINAL					CROSS REFERENCE(S)					
CLASS	SUBCLASS				CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
704	270.1				704	275				
INTERNATIONAL CLASSIFICATION					379	88.01				
G	1	0	L	21/06						
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				/						
				/						

 (Assistant Examiner) (Date)	 Susan McFadden 11-26-07 (Primary Examiner) (Date)	Total Claims Allowed: 16				
(Legal Instruments Examiner) (Date)		<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">O.G. Print Claim(s)</td> <td style="text-align: center;">O.G. Print Fig.</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">5</td> </tr> </table>	O.G. Print Claim(s)	O.G. Print Fig.	1	5
O.G. Print Claim(s)	O.G. Print Fig.					
1	5					

<input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
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	2		32		62		92
	3		33		63		93
	4		34		64		94
	5		35		65		95
	6		36		66		96
	7		37		67		97
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Search Notes



Application/Control No.

11/409,703

Examiner

Susan McFadden

Applicant(s)/Patent under Reexamination

KURGANOV ET AL.

Art Unit

2626

SEARCHED

Class	Subclass	Date	Examiner
704	270.1	8/20/2007	SM
379	88.01	8/20/2007	SM
704	275	8/20/2007	SM

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
Searched WEST Interference Search	8/20/2007	SM
Updated Search	11/26/2007	SM

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner
704	270.1	11/26/2007	SM
379	88.01	11/26/2007	SM
704	275	11/26/2007	SM

WEST Search History



DATE: Monday, November 26, 2007

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L26	((internet or web or net) and (address or site or URL) and (voice or speech) adj command and speech adj recognition and function and remote adj system).clm.	0
		<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L25	((internet or web or net) and (address or site or URL) and (voice or speech) adj command and speech adj recognition and function and remote adj system).clm.	0
<input type="checkbox"/>	L24	((internet or web or net) and (address or site or URL) and (voice or speech) adj command and speech adj recognition and function).clm.	3
<input type="checkbox"/>	L23	((internet or web or net) and (address or site or URL) and (voice or speech) adj command and speaker-independent near speech adj recognition and function).clm.	0
		<i>DB=PGPB; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L22	((internet or web or net) and address and (voice or speech) adj command and speaker-independent near speech adj recognition and function).clm.	0
		<i>DB=USPT; PLUR=YES; OP=OR</i>	
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<input type="checkbox"/>	L19	(internet or web or net) and address and (voice or speech) adj command and speaker-independent near speech adj recognition	12

END OF SEARCH HISTORY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Kurganov et al.
Title: ROBUST VOICE
BROWSER SYSTEM AND
VOICE ACTIVATED *Filed Via EFS-WEB*
DEVICE CONTROLLER *October 11, 2007*
Appl. No.: 11/409,703
Appl. Filing Date: 4/24/2006
Examiner: Susan Iris McFadden
Art Unit: 2626
Confirmation Number: 2765

REQUEST FOR CONTINUED EXAMINATION (RCE)
TRANSMITTAL

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

Sir:

This is a Request for Continued Examination (RCE) under 37 C.F.R. § 1.114 of the above-identified application. This RCE and the enclosed items listed below are being filed prior to the earliest of: (1) payment of the issue fee (unless a petition under 37 C.F.R. § 1.313 is granted); (2) abandonment of the application; or (3) the filing of a notice of appeal to the U.S. Court of Appeals for the Federal Circuit under 35 U.S.C. §141, or the commencement of a civil action under 35 U.S.C. §145 or §146 (unless the appeal or civil action is terminated).

1. **Submission required** under 37 C.F.R. §1.114: (check items that apply)

a. Previously submitted:

- Please enter and consider the amendment and/or reply previously filed on __.
- Please consider the Affidavit(s)/Declaration(s) previously filed on __ but not considered.
- Please consider the arguments in the Appeal Brief or Reply previously filed on __.
- Other __.

b. Enclosed are:

- Information Disclosure Statement.
- Form PTO/SB/08 with 246 listed reference(s).

Miscellaneous:

- Suspension of action of the above-identified application is requested under 37 C.F.R. § 1.103(c) for a period of __ months.

The filing fee is calculated below:

	Claims as Amended	Previously Paid For	Extra Claims Present	Rate	Fee Totals
RCE Fee 1.17(e):				\$810.00	= \$810.00
Total Claims:	16	- 20	= 0	x \$50.00	= \$0.00
Independents	3	- 3	= 0	x \$210.00	= \$0.00
First presentation of any Multiple Dependent Claims:				+ \$370.00	= \$0.00
CLAIMS FEE TOTAL:					= \$810.00

Applicant hereby petitions for an extension of time under 37 C.F.R. §1.136(a) for the total number of months checked below:

<input type="checkbox"/>	Extension for response filed within the first month:	\$120.00	0	\$0.00
<input type="checkbox"/>	Extension for response filed within the second month:	\$460.00		\$0.00
<input type="checkbox"/>	Extension for response filed within the third month:	\$1,050.00		\$0.00
<input type="checkbox"/>	Extension for response filed within the fourth month:	\$1,640.00		\$0.00
<input type="checkbox"/>	Extension for response filed within the fifth month:	\$2,230.00		\$0.00
	EXTENSION FEE SUBTOTAL:			\$0.00
	EXTENSION FEE ALREADY PAID:	-		\$0.00
	EXTENSION FEE TOTAL			\$0.00
	CLAIMS AND EXTENSION FEE TOTAL:			\$810.00
<input checked="" type="checkbox"/>	Small Entity Fees Apply (subtract ½ of above):			\$405.00
<input type="checkbox"/>	Suspension of action requested under 37 C.F.R. § 1.103(c)			\$0.00
	TOTAL FEE:			\$405.00


The above-identified fees of \$405.00 are being paid by credit card via EFS-Web.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by the credit card payment instructions in EFS-Web being incorrect or absent, resulting in a rejected or incorrect credit card transaction, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date October 11, 2007

By  _____
 Scott R. Kaspar
 Attorney for Applicant
 Registration No. 54,583

FOLEY & LARDNER LLP
 Customer Number: 27433
 Telephone: (312) 832-5113
 Facsimile: (312) 832-4700

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Kurganov et al.

Title: ROBUST VOICE BROWSER *Filed Via EFS-WEB*
SYSTEM AND VOICE *October 11, 2007*
ACTIVATED DEVICE
CONTROLLER

Appl. No.: 11/409,703

Filing Date: April 24, 2006

Examiner: Susan Iris McFadden

Art Unit: 2626

Confirmation 2765
Number:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 10/821,690, filed 4/9/2004. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to

antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b)(4), before the mailing of a first Office Action after the filing of a Request for Continued Examination.

RELEVANCE OF EACH DOCUMENT

The relevance of the foreign-language document is explained in the parent application.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.


FEE

No fee is believed to be due in connection with the filing of this Information Disclosure Statement.

However, the Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by the credit card payment instructions in EFS-Web being incorrect or absent, resulting in a rejected or incorrect credit card transaction, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date October 11, 2007

By 

FOLEY & LARDNER LLP
Customer Number: 27433
Telephone: (312) 832-5113
Facsimile: (312) 832-4700

Scott R. Kaspar
Attorney for Applicant
Registration No. 54,583

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	11/409,703
		Filing Date	4/24/2006
Date Submitted: October 11, 2007 <i>(use as many sheets as necessary)</i>		First Named Inventor	Alexander Kurganov
		Art Unit	2626
Sheet 1 of 10		Examiner Name	Susan Iris McFadden
		Attorney Docket Number	078616-1028

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		3,728,486	04-17-1973	Kraus	
		4,058,838	11-15-1977	Crager	
		4,100,377	07-11-1978	Flanagan	
		4,313,035	01-26-1982	Jordan	
		4,340,783	07-20-1982	Sugiyama	
		4,371,752	02-01-1983	Matthews	
		4,481,574	11-06-1984	DeFind	
		4,489,438	12-18-1984	Hughes	
		4,500,751	02-19-1985	Darland	
		4,513,390	04-23-1985	Walter	
		4,523,055	06-11-1985	Hohl	
		4,549,047	10-22-1985	Brian	
		4,584,434	04-22-1986	Hashimoto	
		4,585,906	04-29-1986	Matthews	
		4,596,900	06-24-1986	Jackson	
		4,602,129	07-22-1986	Matthews	
		4,635,253	01-06-1987	Urui	
		4,652,700	03-24-1987	Matthews	
		4,327,251	04-27-1987	Fomenko	
		4,696,028	09-22-1987	Morganstein	
		4,713,837	12-15-1987	Gordon	
		4,747,127	05-24-1988	Hansen	
		4,748,656	05-31-1988	Gibbs	
		4,755,932	07-05-1988	Diedrich	
		4,757,525	07-12-1988	Matthews	
		4,761,807	08-02-1988	Matthews	
		4,763,317	08-09-1988	Lehman	
		4,769,719	09-06-1988	Endo	
		4,771,425	09-13-1988	Baran	
		4,776,016	10-04-1988	Hansen	
		4,782,517	11-01-1988	Bernardis	
		4,792,968	12-20-1988	Katz	
		4,799,144	01-17-1989	Parruch	
		4,809,321	02-28-1989	Morganstein	
		4,811,381	03-07-1989	Woo	
		4,837,798	06-06-1989	Cohen	

Examiner Signature	Date Considered
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		Filing Date	4/24/2006
Date Submitted: October 11, 2007 <i>(use as many sheets as necessary)</i>		First Named Inventor	Alexander Kurganov
		Art Unit	2626
Sheet 2 of 10		Examiner Name	Susan Iris McFadden
		Attorney Docket Number	078616-1028

U.S. PATENT DOCUMENTS			
	Document Number		
	4,847,891	07-11-1989	Kotani
	4,850,012	07-18-1989	Mehta
	4,852,149	07-25-1989	Zurich
	4,866,758	09-12-1989	Heinzelmann
	4,873,719	10-10-1989	Reese
	4,879,743	11-07-1989	Burke
	4,893,333	01-09-1990	Baran
	4,893,335	01-09-1990	Fuller
	4,903,289	02-20-1990	Hashimoto
	4,905,273	02-27-1990	Gordon
	4,907,079	03-01-1990	Turner
	4,918,722	04-17-1990	Buehren
	4,922,518	05-01-1990	Gordon
	4,922,520	05-01-1990	Bernard
	4,922,526	05-01-1990	Morganstein
	4,926,462	05-15-1990	Ladd
	4,930,150	05-29-1990	Katz
	4,933,966	06-12-1990	Hird
	4,935,955	06-19-1990	Neudorker
	4,935,958	06-19-1990	Morganstein
	4,941,170	07-10-1990	Herbst
	4,942,598	07-17-1990	Davis
	4,953,204	08-28-1990	Cuschleg, Jr.
	4,955,047	09-04-1990	Morganstein
	4,956,835	09-11-1990	Grover
	4,959,854	09-25-1990	Cave
	4,967,288	10-30-1990	Mizutori
	4,969,184	11-06-1990	Gordon
	4,972,462	11-20-1990	Shibata
	4,974,254	11-27-1990	Perine
	4,975,941	12-04-1990	Morganstein
	4,985,913	01-15-1991	Shalom
	4,994,926	02-01-1991	Gordon
	4,996,704	02-26-1991	Brunsen
	5,003,575	03-26-1991	Chamberlin
	5,003,577	03-26-1991	Ertz
	5,008,926	04-16-1991	Misholi
	5,020,095	05-28-1991	Morganstein
	5,207,384	06-25-1991	Morganstein

Examiner Signature	Date Considered
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Substitute for form 1449/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	11/409,703
			Filing Date	4/24/2006
Date Submitted: October 11, 2007 <i>(use as many sheets as necessary)</i>			First Named Inventor	Alexander Kurganov
			Art Unit	2626
Sheet 3 of 10			Examiner Name	Susan Iris McFadden
			Attorney Docket Number	078616-1028

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			Art Unit	2626
Sheet 4 of 10			Examiner Name	Susan Iris McFadden
			Attorney Docket Number	078616-1028

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	Document Number			
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			Art Unit	2626
Sheet 5 of 10			Examiner Name	Susan Iris McFadden
			Attorney Docket Number	078616-1028

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	Document Number			
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Sheet 6 of 10			Examiner Name	Susan Iris McFadden
			Attorney Docket Number	078616-1028

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UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document Serial Number-Kind Code ² (if known)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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		WO 91/07838	05-30-1991	Fuller R&D Company		
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		WO 91/18466	11-28-1991	Messenger Partners		
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		WO 98/23058	05-28-1998	Premiere Comm., Inc.		

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			Attorney Docket Number	078616-1028

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
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Sheet	8	of	10	Attorney Docket Number	078616-1028

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		"GLOBECOM '85 IEEE Global Telecommunications Conference, "New Orleans, LA., December 2-5, 1985, pp. 1295-1300.	
		HEMPHILL et al., "Speech-Aware Multimedia," <i>IEEE MultiMedia</i> , Spring 1996, Vol. 3, No. 1, pp. 74-78, IEEE. As indicated on the cover page of the journal, a copy of which is attached hereto as Attachment 4, the reference was received by Cornell University on March 25, 1996.	
		HUNT et al., "Long-Distance Remote Control to the Rescue", Chicago Tribune, June 15, 2002, Section 4, page 15.	
		Print outs of Internet web site, "Wildfire Communications, Inc.," November 5, 1997, including print outs of the following web pages: http://www.wildfire.com (1 pg); http://www.wildfire.com/consumerhome.html (2 pgs.); http://www.wildfire.com/106.html (2 pgs.); http://www.wildfire.com/carrierhome.html (2 pgs.); http://www.wildfire.com/sfandb.html (3 pgs); http://www.wildfire.com/about.html (1 pg.); http://www.wildfire.com/abtmgmt.html (3 pgs); http://www.wildfire.com/scoop.html (2 pgs.); and http://www.wildfire.com/intel.html (1 pg.); and http://www.wildfire.com/msft.html (2 pgs).	
		"Introducing PIC SuperFax, First PC/Fax System to Run Under Windows", Pacific Image Communications, Pasadena, CA, Date Unknown, (received at COMDEX show, Nov. 3, 1987). 4 pgs.	
		KUBALA et al., "BYBLOS Speech Recognition Benchmark Results", <i>Workshop on Speech & Natural Language</i> , February 19-22, 1991. According to the web site http://portal.acm.org/citation.cfm?id=112405.112415&coll..., attached hereto as Attachment 3, the reference was published in 1991, Morgan Kaufman Publishers, San Francisco, CA. The distribution date is not presently known.	

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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.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	11/409,703
		Filing Date	4/24/2006
Date Submitted: October 11, 2007 <i>(use as many sheets as necessary)</i>		First Named Inventor	Alexander Kurganov
		Art Unit	2626
Sheet 9 of 10		Examiner Name	Susan Iris McFadden
		Attorney Docket Number	078616-1028

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		LY, "Chatter: A Conversational Telephone Agent", submitted to Program in Media Arts & Sciences, MIT, 1993, pp. 1-130.	
		MAEDA, et al., "An Intelligent Customer-Controlled Switching System", IEEE Global Telecommunications Conference, Hollywood, Florida, Nov. 28-Dec. 1, 1988, pp. 1499-1503.	
		MARKOWITZ, J., "The Ultimate Computer Input Device May Be Right Under Your Nose", <i>Byte</i> , December, 1995, pp. 1-13, available at www.byte.com/art/9512/sec8/art1.htm (accessed Mar. 15, 2005).	
		MARX et al., "Mail Call: Message Presentation and Navigation in a Nonvisual Environment," <i>SIGCHI Conference on Human Factors in Computing Systems</i> , Vancouver, B.C., Canada, April 13-18, 1996. As shown on Attachment 2, the web site http://www.usabilityviews.com/uv001673.html shows a date of April 16, 1996. The distribution date is not presently known.	
		MARX, M., "Toward Effective Conversational Messaging" (Thesis). As indicated on the cover page, the thesis was presented to the Departmental Committee on Graduate Students, Program in Media Arts and Sciences, School of Architecture and Planning, Massachusetts Institute of Technology on May 12, 1995. According to the web site http://www.thesis.mit.edu/Dienst/Repository/2.0/Body/0018.mit.theses/1995-314/rfc1807bib , attached hereto as Attachment 1, the thesis was indexed on March 21, 2000.	
		PERDUE et al., "Conversant® 1 Voice System: Architecture and Applications", July 17, 1986, AT&T Technical Journal, pp. 1-14.	
		"Proceedings of the IFIP World Computer Congress", Dublin, Ireland, September 1-5, 1986.	
		SARTORI, M., "Speech Recognition", April 1995, pp. 1-9, Mercury Communications, available at www.gar.co.uk/technology_watch/speech.htm (accessed Mar. 15, 2005).	
		SCHMANDT et al., "A Conversational Telephone Messaging Systems", IEEE Transactions on Consumer Electronics, 1984, vol. CE-30, No. 3, pp. xxi-xxiv.	
		SCHMANDT et al., "Phone Shell: The Telephone as Computer Terminal", ACM Multimedia, 1993, 11 pgs.	
		SCHMANDT et al., "Phone Slave: A Graphical Telecommunications Interface", Proceedings of the SID, 1985, vol. 26/1, pp. 79-82.	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours 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, 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 (1-800-786-9199) and select option 2.

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.

Substitute for form 1449/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	11/409,703
			Filing Date	4/24/2006
Date Submitted: October 11, 2007 <i>(use as many sheets as necessary)</i>			First Named Inventor	Alexander Kurganov
			Art Unit	2626
Sheet 10 of 10			Examiner Name	Susan Iris McFadden
			Attorney Docket Number	078616-1028

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		"Secretarial Branch Exchanged", IBM Technical Disclosure Bulletin, vol. 26 (5), October 1983, pp. 2645-47.	
		SHIMAMURA, et al., "Review of the Electrical Communication Laboratories", vol. 418 (33), No. 1, Tokyo, Japan, 1985, pp. 31-39.	
		"Wildfire Communication, Inc.", Harvard Business School, March 21, 1996, Publ. No. 9-396-305, pp. 1-22.	
		"WordPerfect: New Telephony Features Boost Office", WordPerfect Office TechBrief, 1994, Info-World Publishing Co., vol. 10, Issue 2, pp. 2-3.	
		YANG, C., "INETPhone – Telephone Services and Servers on the Internet", April 1995, University of North Texas, pp. 1-6.	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours 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, 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 (1-800-786-9199) and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	11409703			
Filing Date:	24-Apr-2006			
Title of Invention:	ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER			
First Named Inventor/Applicant Name:	Alexander Kurganov			
Filer:	Scott Richard Kaspar/Sherry Cunningham-Page			
Attorney Docket Number:	078616-1028			
Filed as Small Entity				
Utility Filing Fees				
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:				
Request for continued examination	2801	1	405	405
Total in USD (\$)				405

Electronic Acknowledgement Receipt

EFS ID:	2308423
Application Number:	11409703
International Application Number:	
Confirmation Number:	2765
Title of Invention:	ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	27433
Filer:	Scott Richard Kaspar/Sherry Cunningham-Page
Filer Authorized By:	Scott Richard Kaspar
Attorney Docket Number:	078616-1028
Receipt Date:	11-OCT-2007
Filing Date:	24-APR-2006
Time Stamp:	15:38:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$405
RAM confirmation Number	801
Deposit Account	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Request for Continued Examination (RCE)	RCE.pdf	30011	no	3
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Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2	Information Disclosure Statement (IDS) Filed	IDS_PTOSB08.pdf	360759	no	12
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Warnings:					
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3	Fee Worksheet (PTO-06)	fee-info.pdf	8221	no	2
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Total Files Size (in bytes):			398991		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE


Applicant: Alexander Kurganov
Title: ROBUST VOICE BROWSER
SYSTEM AND VOICE
ACTIVATED DEVICE
CONTROLLER
Appl. No.: 11/409,703 *OK to*
Filing Date: 4/24/2006 *enter*
Examiner: Susan Iris McFadden *DM 8-20-07*
Art Unit: 2626
Confirmation Number: 2765

LETTER TO THE EXAMINER



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

Dear Examiner McFadden:

The undersigned counsel for Applicant appreciates having had the opportunity to speak with Examiner McFadden on August 14, 2007 regarding the final Office Action entered on August 2, 2007 in the above-referenced matter. Based on the conversation, Applicant had agreed to provide the Examiner with a letter identifying examples of support in the specification for the claimed elements and, in exchange, the Examiner would reconsider the rejection made under 35 U.S.C. § 112, ¶ 1.

Issue Classification 	Application/Control No. 11/409,703	Applicant(s)/Patent under Reexamination KURGANOV ET AL.	
	Examiner Susan McFadden	Art Unit 2626	

ISSUE CLASSIFICATION										
ORIGINAL					CROSS REFERENCE(S)					
CLASS	SUBCLASS				CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
704	270.1				704	275				
INTERNATIONAL CLASSIFICATION					379	88.01				
G	1	0	L	21/06						
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 (Assistant Examiner) (Date)	 Susan McFadden 8-20-07 (Primary Examiner) (Date)	Total Claims Allowed: 16 <table style="width: 100%;"> <tr> <td style="text-align: center;">O.G. Print Claim(s)</td> <td style="text-align: center;">O.G. Print Fig.</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">5</td> </tr> </table>	O.G. Print Claim(s)	O.G. Print Fig.	1	5
O.G. Print Claim(s)	O.G. Print Fig.					
1	5					
(Legal Instruments Examiner) (Date)						

<input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original
	1		31		61		91
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BIB DATA SHEET

CONFIRMATION NO. 2765

SERIAL NUMBER 11/409,703	FILING or 371(c) DATE 04/24/2006 RULE	CLASS 704	GROUP ART UNIT 2626	ATTORNEY DOCKET NO. 078616-1028		
APPLICANTS Alexander Kurganov, Buffalo Grove, IL; Valery Zhukoff, Deerfield, IL;						
** CONTINUING DATA ***** This application is a CON of 10/821,690 04/09/2004 PAT 7,076,431 <i>dm</i> which is a CON of 09/776,996 02/05/2001 PAT 6,721,705 <i>ph</i> which claims benefit of 60/180,344 02/04/2000 <i>dm</i> and claims benefit of 60/233,068 09/15/2000 <i>dm</i>						
** FOREIGN APPLICATIONS *****						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 05/16/2006						
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Verified and Acknowledged <i>[Signature]</i> Examiner's Signature		<input type="checkbox"/> Met after Allowance Initials	STATE OR COUNTRY IL	SHEETS DRAWINGS 4	TOTAL CLAIMS 15	INDEPENDENT CLAIMS 2
ADDRESS FOLEY & LARDNER LLP 321 NORTH CLARK STREET SUITE 2800 CHICAGO, IL 60610-4764 UNITED STATES						
TITLE Robust voice browser system and voice activated device controller						
FILING FEE RECEIVED 500	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

Search Notes



Application/Control No.

11/409,703

Examiner

Susan McFadden

Applicant(s)/Patent under Reexamination

KURGANOV ET AL.

Art Unit

2626

SEARCHED

Class	Subclass	Date	Examiner
704	270.1	8/20/2007	SM
379	88.01	8/20/2007	SM
704	275	8/20/2007	SM

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
Searched WEST Interference Search	8/20/2007	SM

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner
704	270.1	8/20/2007	SM
379	88.01	8/20/2007	SM
704	275	8/20/2007	SM



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UNITED STATES DEPARTMENT OF COMMERCE
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NOTICE OF ALLOWANCE AND FEE(S) DUE

27433 7590 08/30/2007

FOLEY & LARDNER LLP
321 NORTH CLARK STREET
SUITE 2800
CHICAGO, IL 60610-4764

EXAMINER: MCFADDEN, SUSAN IRIS
ART UNIT: 2626
PAPER NUMBER:
DATE MAILED: 08/30/2007

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
11/409,703 04/24/2006 Alexander Kurganov 078616-1028 2765
TITLE OF INVENTION: ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional YES \$700 \$300 \$0 \$1000 11/30/2007

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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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.

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)

27433 7590 08/30/2007

FOLEY & LARDNER LLP
 321 NORTH CLARK STREET
 SUITE 2800
 CHICAGO, IL 60610-4764

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.
11/409,703	04/24/2006	Alexander Kurganov	078616-1028	2765

TITLE OF INVENTION: ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$0	\$1000	11/30/2007

EXAMINER	ART UNIT	CLASS-SUBCLASS
MCFADDEN, SUSAN IRIS	2626	704-275000

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 _____
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 Payment by credit card. Form PTO-2038 is attached.
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)
 a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Includes contact information for FOLEY & LARDNER LLP and EXAMINER MCFADDEN, SUSAN IRIS.

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

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	11/409,703	KURGANOV ET AL.	
	Examiner	Art Unit	
	Susan McFadden	2626	

-- 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 Letter filed 8-17-07.
2. The allowed claim(s) is/are 1-16.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - 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.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) 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)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|--|---|


 Susan McFadden
 Primary Examiner
 Art Unit: 2626

Notice of References Cited	Application/Control No. 11/409,703	Applicant(s)/Patent Under Reexamination KURGANOV ET AL.	
	Examiner Susan McFadden	Art Unit 2626	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,003,463	02-2006	Maes et al.	704/270.1
*	B	US-6,584,439	06-2003	Geilhufe et al.	704/270
*	C	US-6,964,023	11-2005	Maes et al.	715/811
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	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	
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	W	
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*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.

WEST Search History

DATE: Monday, August 20, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=USPT; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L10	L9 and speaker-independent	7
<input type="checkbox"/>	L9	speech adj (recognition and synthesis) and command and grammar and (URL or address or browser or site) and (remote adj system or heating or lights)	44
<input type="checkbox"/>	L8	speech adj (recognition and synthesis) and command and grammar and (URL or address or browser or site) and remote adj system	4
<input type="checkbox"/>	L7	(speech adj (recognition and synthesis) and command and grammar and (URL or address or browser or site) and remote).clm.	0
	<i>DB=PGPB; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L6	(speech adj (recognition and synthesis) and command and grammar and (URL or address or browser or site) and remote).clm.	0
<input type="checkbox"/>	L5	(speech adj (recognition and synthesis) and command and grammar and (URL or address or browser or site) and location and remote).clm.	0
<input type="checkbox"/>	L4	(speech adj (recognition and synthesis) and command and grammar and (URL or address or browser) and location and remote).clm.	0
	<i>DB=USPT; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L3	(speech adj (recognition and synthesis) and command and grammar and (URL or address or browser) and location and remote).clm.	0
<input type="checkbox"/>	L2	L1 and remote	52
<input type="checkbox"/>	L1	speech adj (recognition and synthesis) and command and grammar and (URL or address or browser) and location	80

END OF SEARCH HISTORY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Kurganov
Title: ROBUST VOICE BROWSER
SYSTEM AND VOICE
ACTIVATED DEVICE
CONTROLLER
Appl. No.: 11/409,703
Filing Date: 4/24/2006
Examiner: Susan Iris McFadden
Art Unit: 2626
Confirmation Number: 2765

LETTER TO THE EXAMINER

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

Dear Examiner McFadden:

The undersigned counsel for Applicant appreciates having had the opportunity to speak with Examiner McFadden on August 14, 2007 regarding the final Office Action entered on August 2, 2007 in the above-referenced matter. Based on the conversation, Applicant had agreed to provide the Examiner with a letter identifying examples of support in the specification for the claimed elements and, in exchange, the Examiner would reconsider the rejection made under 35 U.S.C. § 112, ¶ 1.

Following is a chart listing each of the elements of pending Claim 1 along with an example from the specification supporting each claimed element:

Claim 1 of Application No. 11/409,703	Examples of Support from the Specification
<p>A method for controlling at least one remote system by uttering speech commands into a voice enabled device, said method comprising the steps of:</p>	<p>“This embodiment provides a system and method for controlling a variety of devices 500 connected to a network 502 by using conversational speech commands spoken into a voice enabled device 504”. Specification, p. 34, ¶ 87.</p>
<p>providing a computer operatively connected to the internet, said computer further being operatively connected to at least one speaker-independent speech recognition engine and to at least one speech synthesis engine;</p>	<p>“The media servers 510 act as user interface systems and perform the functions of natural speech recognition, speech synthesis, data processing, and call handling. The media server 510 operates similarly to the media server 106 depicted in FIG. 3. When data is received from the device browser server 506, the media server 510 will convert the data into audio messages via a speech synthesis engine that are then transmitted to the voice enabled device of the user 504. Speech commands received from the voice enabled device of the user 504 are converted into data messages via a speech recognition engine running on the media server 510. A preferred speech recognition engine is developed by Nuance Communications of 1380 Willow Road, Menlo Park, Calif. 94025 (www.nuance.com). A preferred speech synthesis engine is developed by Lernout and Hauspie Speech Products, 52 Third Avenue, Burlington, Mass. 01803 (www.lhsl.com). The media servers 510 of the preferred embodiment are based on Intel’s Dual Pentium III 730 MHz microprocessor system.” Specification, p. 36, ¶ 92; <i>see also</i> Fig. 5.</p>

Claim 1 of Application No. 11/409,703	Examples of Support from the Specification
<p>providing a voice enabled device operatively connected to said computer, said voice enabled device configured to receive speech commands from users;</p>	<p>The voice enabled device includes, for example, “wireline or wireless telephones, Internet Protocol (IP) phones, or other special wireless units”. Specification, pp. 34-35, ¶ 87.</p> <p>The voice enabled device receives speech commands, which are transmitted to the computer and converted into data messages by the speech recognition engine. Specification, p. 36, ¶ 92 (“Speech commands received from the voice enabled device of the user 504 are converted into data messages via a speech recognition engine running on the media server 510.”); <i>see also</i> Fig. 5.</p>
<p>providing at least one instruction set stored in a database operatively connected to said computer, said instruction set comprising:</p>	<p>“For each device 500, the database 508 contains a record similar to that shown in FIG. 2. Each record will contain at least a device identifier, which may be in the form of a URL, and a command to ‘content extraction agent’ contained in the device browsing server 506. Database 508 may also include any other data or software necessary to test and administer the device browsing system.” Specification, p. 35, ¶ 89.</p>
<p>at least one internet address, said at least one internet address identifying the location of said at least one remote system, said at least one remote system configured to execute at least one pre-selected function; and</p>	<p>“Each record will contain at least a device identifier, which may be in the form of a URL”. Specification, p. 35, ¶ 89.</p> <p>The Specification defines the acronym “URL” as “uniform resource locator.” Specification, p. 12, ¶ 29. Scientific dictionaries define “uniform resource locator” as “the unique <i>Internet address</i> assigned to a Web document or resource”. <i>McGraw-Hill Dictionary of Scientific and Technical Terms</i> 2225 (6th ed. 2003) (emphasis added) (relevant copies of pages of which are attached).</p>

Claim 1 of Application No. 11/409,703	Examples of Support from the Specification
said at least one pre-selected function;	“A device descriptor file contains a listing of the options and functions available for each of the devices 500 connected on the network 502. Furthermore, the device descriptor file contains the information necessary to properly communicate with the networked devices 500. Such information would include, for example, communication protocols, message formatting requirements, and required operating parameters.” Specification, pp. 35-36, ¶ 90.
providing a speech command to said speaker-independent speech recognition engine, said speech command corresponding to said instruction set;	Users provide speech commands to the speech recognition engine via the voice enabled device. For example, users desiring to access certain home systems provide the command “access home systems.” Specification, p. 37, ¶ 94.
said speaker-independent speech recognition engine assigning said speech command to a recognition grammar, said speech command and said recognition grammar corresponding to said instruction set;	<p>The speech recognition engine converts speech commands into corresponding data messages (grammars). Specification, p. 36, ¶ 92 (“Speech commands received from the voice enabled device of the user 504 are converted into data messages via a speech recognition engine running on the media server 510.”).</p> <p>The data messages (grammars) correspond with the instruction set. For instance, the data messages (grammars) generated from certain speech commands (such as, for instance, “indoor lighting system”) correspond with the instruction set relating to the indoor lighting system, which provides the options and functions available for the system (such as, for instance, the option of turning on, turning off, or dimming the lights). <i>See</i> Specification, p. 37, ¶ 94; <i>see also</i> p. 35, ¶ 90 (stating that the instruction set (and, more particularly, the device descriptor file) contains the options and functions available for the particular device).</p>

Claim 1 of Application No. 11/409,703	Examples of Support from the Specification
transmitting said speech command to said speaker-independent speech recognition engine;	The voice enabled device receives speech commands, which are transmitted to the speech recognition engine. Specification, p. 36, ¶ 92 (“Speech commands received from the voice enabled device of the user 504 are converted into data messages via a speech recognition engine running on the media server 510.”).
said speaker-independent speech recognition engine receiving said speech command and selecting the corresponding recognition grammar upon receiving said speech command;	The speech recognition engine receives speech commands and converts them into corresponding data messages (grammars). Specification, p. 36, ¶ 92 (“Speech commands received from the voice enabled device of the user 504 are converted into data messages via a speech recognition engine running on the media server 510.”).
said computer retrieving said instruction set corresponding to said recognition grammar selected by said speaker-independent speech recognition engine;	The data messages (grammars) correspond with the instruction set. For instance, the data messages (grammars) generated from certain speech commands (such as, for instance, “indoor lighting system”) correspond with the instruction set relating to the indoor lighting system, which provides the options and functions available for the system (such as, for instance, the option of turning on, turning off, or dimming the lights). <i>See</i> Specification, p. 37, ¶ 94; <i>see also</i> p. 35, ¶ 90 (stating that the instruction set (and, more particularly, the device descriptor file) contains the options and functions available for the particular device).

Claim 1 of Application No. 11/409,703	Examples of Support from the Specification
<p>said computer accessing said at least one remote system identified by said instruction set to prompt said at least one remote system to execute said at least one pre-selected function; and</p>	<p>“For example, the user may be provided with the option to select ‘Home Systems’ or ‘Office Systems’. The user may then speak the command ‘access home systems’. The media server 510 would then access the database 508 and provide the user with a listing of the home subsystems or devices 500 available on the network 502 for the user to monitor and control.” Specification, p. 37, ¶ 94.</p> <p>The remote system, such as an indoor lighting system, carries out a pre-selected function, such as turning on, turning off, or dimming. <i>Id.</i></p>
<p>said at least one remote system executing said at least one pre-selected function.</p>	<p>The remote system carries out the pre-selected function based on the speech commands. For instance, with the indoor lighting system, the remote system turns on, turns off, or dims the lights. Specification, p. 37, ¶ 94.</p>

Applicant believes that the above chart demonstrates that the claimed invention is properly supported by the specification. Accordingly, Applicant respectfully requests that the rejection of claims 1-16 under 35 U.S.C. § 112, ¶ 1 be withdrawn.

Respectfully submitted,

Date 8/17/07

By 

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 Customer Number: 27433
 Telephone: (312) 832-5113
 Facsimile: (312) 832-4700

Scott R. Kaspar
 Attorney for Applicant
 Registration No. 54,583

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On the cover: Representation of a fullerene molecule with a noble gas atom trapped inside. At the Permian-Triassic sedimentary boundary the noble gases helium and argon have been found trapped inside fullerenes. They exhibit isotope ratios quite similar to those found in meteorites, suggesting that a fireball meteorite or asteroid exploded when it hit the Earth, causing major changes in the environment. (Image copyright © Dr. Luann Becker. Reproduced with permission.)

Over the six editions of the Dictionary, material has been drawn from the following references: G. M. Garrity et al., *Taxonomic Outline of the Prokaryotes*, Release 2, Springer-Verlag, January 2002; D. W. Linzey, *Vertebrate Biology*, McGraw-Hill, 2001; J. A. Pechenik, *Biology of the Invertebrates*, 4th ed., McGraw-Hill, 2000; U.S. Air Force *Glossary of Standardized Terms*, AF Manual 11-1, vol. 1, 1972; F. Casey, ed., *Compilation of Terms in Information Sciences Technology*, Federal Council for Science and Technology, 1970; *Communications-Electronics Terminology*, AF Manual 11-1, vol. 3, 1970; P. W. Thrush, comp. and ed., *A Dictionary of Mining, Mineral, and Related Terms*, Bureau of Mines, 1968; *A DOD Glossary of Mapping, Charting and Geodetic Terms*, Department of Defense, 1967; J. M. Gilliland, *Solar-Terrestrial Physics: A Glossary of Terms and Abbreviations*, Royal Aircraft Establishment Technical Report 67158, 1967; W. H. Allen, ed., *Dictionary of Technical Terms for Aerospace Use*, National Aeronautics and Space Administration, 1965; *Glossary of Stinfo Terminology*, Office of Aerospace Research, U.S. Air Force, 1963; *Naval Dictionary of Electronic, Technical, and Imperative Terms*, Bureau of Naval Personnel, 1962; R. E. Huschke, *Glossary of Meteorology*, American Meteorological Society, 1959; *ADP Glossary*, Department of the Navy, NAVSO P-3097; *Glossary of Air Traffic Control Terms*, Federal Aviation Agency; *A Glossary of Range Terminology, White Sands Missile Range, New Mexico*, National Bureau of Standards, AD 467-424; *Nuclear Terms: A Glossary*, 2d ed., Atomic Energy Commission.

**McGRAW-HILL DICTIONARY OF SCIENTIFIC AND TECHNICAL TERMS,
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uniform mat

uniform mat [CIV ENG] A type of foundation mat, consisting of a reinforced concrete slab of constant thickness, supporting walls, and columns; it is thick, rigid, and strong. { 'yü-nä, förm 'mat }

uniform plane wave [ELECTROMAG] Plane wave in which the electric and magnetic intensities have constant amplitude over the equiphase surfaces; such a wave can only be found in free space at an infinite distance from the source. { 'yü-nä, förm 'plän 'wäv }

uniform resource locator [COMPUT SCI] The unique Internet address assigned to a Web document or resource by which it can be accessed by all Web browsers. The first part of the address specifies the applicable Internet protocol, for example, http or ftp; the second part provides the IP address or domain name of the location. Abbreviated URL. { 'yü-nä, förm ri, sörs 'lò-käd-är }

uniform scale [MATH] A scale in which equal distances correspond to equal numerical values. Also known as linear scale. { 'yü-nä, förm 'skal }

uniform space [MATH] A topological space X whose topology is derived from a family of subsets of $X \times X$, called a uniformity; intuitively, this gives a notion of "nearness" which is uniform throughout the space. { 'yü-nä, förm 'späs }

uniform structure See uniformity. { 'yü-nä, förm 'stræk-chär }

uniform system of maritime buoyage [NAV] The international system of buoyage in accordance with fixed rules as to shape, color, lights, topmarks, position, and so forth. { 'yü-nä, förm 'sis-təm 'äv 'mar-ə, 'tīm 'bói-ij }

uniform topology [MATH] The topology of a uniform space. { 'yü-nä, förm tə'päl-ə-jè }

uniform twist rifling [ORD] Rifling in which the degree of twist is constant from the origin of rifling to the muzzle, the path of the groove being a uniform spiral. { 'yü-nä, förm 'twist 'rif-liŋ }

unijunction transistor [ELECTR] An n -type bar of semiconductor with a p -type alloy region on one side; connections are made to base contacts at either end of the bar and to the p -region. Abbreviated UJT. Formerly known as double-base diode; double-base junction diode. { 'yü-nä, 'jɔŋk-shən tran'ziz-tər }

unilateral bearing [NAV] A bearing obtained with a radio direction finder which does not have a possible reciprocal ambiguity. { 'yü-nä, 'lad-ə-rəl 'ber-iŋ }

unilateral conductivity [ELECTR] Conductivity in only one direction, as in a perfect rectifier. { 'yü-nä, 'lad-ə-rəl, 'kändək'tiv-əd-ē }

unilateral hermaphroditism [ZOO] A type of hermaphroditism in which there is a combination of ovatestis on one side of the body with an ovary or testis on the other side. { 'yü-nä, 'lad-ə-rəl hər'maf-rə'di,tiz-əm }

unilateralization [ELECTR] Use of an external feedback circuit in a high-frequency transistor amplifier to prevent undesired oscillation by canceling both the resistive and reactive changes produced in the input circuit by internal voltage feedback; with neutralization, only the reactive changes are canceled. { 'yü-nä, 'lad-ə-rəl 'lā'zə-shən }

unilateral shift [MATH] A bounded linear operator on the Hilbert space of infinite sequences of complex numbers whose squared moduli form convergent series; it takes the sequence (x_1, x_2, \dots) to the sequence $(0, x_1, x_2, \dots)$. { 'yü-nä, 'lad-ə-rəl 'shift }

unilateral surface [MATH] A one-sided surface; equivalently, any nonorientable two-dimensional manifold such as the Möbius strip and the Klein bottle. { 'yü-nä, 'lad-ə-rəl 'sær-fəs }

unilateral tolerance method [DES ENG] Method of dimensioning and tolerancing wherein the tolerance is taken as plus or minus from an explicitly stated dimension; the dimension represents the size or location which is nearest the critical condition (that is maximum material condition), and the tolerance is applied either in a plus or minus direction, but not in both directions, in such a way that the permissible variation in size or location is away from the critical condition. { 'yü-nä, 'lad-ə-rəl 'täl-ə-rəns, 'meth-əd }

unilateral transducer See unidirectional transducer. { 'yü-nä, 'lad-ə-rəl tran'zjú-sər }

unilocular [BIOL] Having a single cavity. { 'yü-nä, 'lök-yə-lər }

unimodal [STAT] Referring to a distribution with only one mode. { 'yü-nä, 'mód-əl }

unimodal sequence [MATH] A finite sequence of n real numbers, a_1, a_2, \dots, a_n , for which there is a positive integer, j , greater than 1 and less than n , such that a_j is greater than a_{j-1} for i greater than 1 and less than j , a_j is greater than or equal to a_{j-1} , and a_j is less than a_{j+1} for i greater than j and equal to or less than n . { 'yü-nä, 'mód-əl 'sé-kwəns }

unimodular matrix [MATH] A unimodulus matrix with integer entries. { 'yü-nä, 'mäj-ə-lər 'mä-triks }

unimodulus matrix [MATH] A square matrix whose determinant is 1. { 'yü-nä, 'mäj-ə-ləs 'mä-triks }

unimolecular reaction [PHYS CHEM] A chemical reaction involving only one molecular species as a reactant; for example, $2\text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{O}_2$, as in the electrolytic dissociation of water. { 'yü-nä, 'mö'lek-yə-lər rē'ak-shən }

unimorph [ELECTR] A piezoelectric microphone that consists of a single piezoelectric disk cemented to a thin metal plate. { 'yü-nä, 'morf }

uninhibited bladder [MED] An abnormal urinary bladder that shows only a variable loss of cerebral inhibition over reflex bladder contractions, representing, of all neurogenic bladders, the least variance from normal. { 'jən-in'híb-əd-əd 'blad-ər }

uninterruptible power system [ELEC] A system that provides protection against primary alternating-current power failure and variations in power-line frequency and voltage. Abbreviated UPS. { 'jən-in-tə'rəp-tə-bəl 'pau-ər, 'sis-təm }

union [COMPUT SCI] A data structure that can store items of different types, but can store only one item at a time. [DES ENG] A screwed or flanged pipe coupling usually in the form of a ring fitting around the outside of the joint. [MATH] **1.**

A union of a given family of sets is a set consisting of those elements that are members of at least one set in the family. Also known as join. **2.** For two fuzzy sets A and B , the fuzzy set whose membership function has a value at any element x that is the maximum of the values of the membership functions of A and B at x . **3.** The union of two Boolean matrices A and B , with the same number of rows and columns, is the Boolean matrix whose element c_{ij} in row i and column j is the union of corresponding elements a_{ij} in A and b_{ij} in B . **4.** The union of two graphs is the graph whose set of vertices is the union of the sets of vertices of the two graphs, and whose set of edges is the union of the sets of edges of the two graphs. { 'yün-yən }

union catalog [COMPUT SCI] A merged listing of the contents of two or more catalogs (of libraries, for example). { 'yün-yən 'kad-əl, 'äg }

union cloth [TEXT] Fabric made by using one kind of fiber for the warp and another kind for the filling. { 'yün-yən, 'klóth }

union dye [TEXT] A special dye used on union cloth. { 'yün-yən, 'di }

Unionidae [INV ZOO] The fresh-water mussels, a family of bivalve mollusks in the subclass Eulamellibranchia; the larvae, known as glochidia, are parasitic on fish. { 'yü-nē, 'än-ə, 'dē }

union joint [DES ENG] A threaded assembly used for the joining of ends of lengths of installed pipe or tubing where rotation of neither length is feasible. { 'yün-yən, 'jóint }

union rule of probability [STAT] The probability that the union of two events E_i and E_j equals the sum total of the probability of the sample points in either E_i or E_j minus the probability of being in both E_i and E_j . { 'yün-yən 'rü' əv, 'prəb-ə'bil-əd-é }

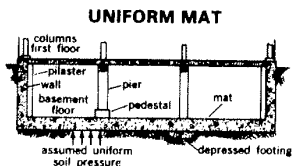
union shop [IND ENG] An establishment in which union membership is not a requirement for original employment but becomes mandatory after a specified period of time. { 'yün-yən 'shäp }

uniparental disomy [GEN] Inheritance of both chromosomes or alleles of a homologous pair from one parent. { 'yü-nä, 'pə'rent-əl dī'sò-mē }

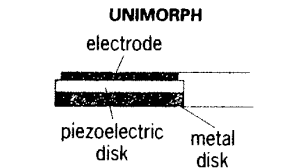
unipath See nonshared control unit. { 'yü-nä, 'pəth }

unipolar [ELEC] Having but one pole, polarity, or direction; when applied to amplifiers or power supplies, it means that the output can vary in only one polarity from zero and, therefore, must always contain a direct-current component. { 'yü-nä, 'pò-lər }

Unipolarina [INV ZOO] A suborder of the protozoan order Myxosporida characterized by spores with one to six (never five) polar capsules located at the anterior end. { 'yü-nä, 'pò-lə'rin-ə }



Foundation construction with a uniform mat.



Unimorph piezoelectric transducer.

Also known as urediospore; uredospore. { 'yür-ə'din-ē-ə-spör }

uredinium [MYCOL] A reproductive tissue of the rust fungus which gives rise to urediniospores. { 'yür-ə'din-ē-əm }

urediospore See urediniospore. { 'yür-ē-ə-spör }

uredospore See urediniospore. { 'yür-ē-ə-spör }

ureilite [GEOL] An achondritic stony meteorite consisting principally of olivine and clinobronzite, with some nickel-iron, troilite, diamond, and graphite. { 'yür-rē-ə-lit }

uremia [MED] A condition resulting from kidney failure and characterized by azotemia, chronic acidosis, anemia, and a variety of systemic signs and symptoms. { 'yür-rē-mē-ə }

ureotelic [BIOL] Referring to animals that produce urea as their main nitrogenous excretion. { 'yür-rē-ə-tel-ik }

ureter [ANAT] A long tube conveying urine from the renal pelvis to the urinary bladder or cloaca in vertebrates. { 'yür-əd-ər }

urethane [ORG CHEM] $\text{CO}(\text{NH}_2)\text{OC}_2\text{H}_5$ A combustible, toxic, colorless powder; soluble in water and alcohol; melts at 49°C; used as a solvent and chemical intermediate and in biochemical research and veterinary medicine. Also known as ethyl carbamate; ethyl urethane. { 'yür-ə-thān }

urethra [ANAT] The canal in most mammals through which urine is discharged from the urinary bladder to the outside. { 'yür-rē-thrə }

urethral gland [ANAT] One of the small, branched tubular mucous glands in the mucosa lining the urethra. { 'yür-rē-thrəl 'gland }

urethritis [MED] Inflammation of the urethra. { 'yür-ə-thrīd-əs }

ureyite [MINERAL] $\text{NaCrSi}_2\text{O}_6$ A meteoritic mineral of the pyroxene group. Also known as cosmochlore; kosmochlor. { 'yür-ē-īt }

uric acid [BIOCHEM] $\text{C}_5\text{H}_4\text{N}_2\text{O}_3$ A white, crystalline compound, the excretory end product in amino acid metabolism by uricotelic species. { 'yür-ik 'as-əd }

uricase [BIOCHEM] An enzyme present in the liver, spleen, and kidney of most mammals except humans; converts uric acid to allantoin in the presence of gaseous oxygen. { 'yür-ə-kās }

uricotelism [PHYSIO] An adaptation of terrestrial reptiles and birds which effectively provides for detoxification of ammonia and also for efficient conservation of water due to a relatively low rate of glomerular filtration and active secretion of uric acid by the tubules to form a urine practically saturated with urate. { 'yür-ə'kād-əl-iz-əm }

uridine [BIOCHEM] $\text{C}_9\text{H}_{12}\text{N}_2\text{O}_6$ A crystalline nucleoside composed of one molecule of uracil and one molecule of D-ribose; a component of ribonucleic acid. { 'yür-ə-dīn }

uridine diphosphate [BIOCHEM] The chief transferring coenzyme in carbohydrate metabolism. Abbreviated UDP. { 'yür-ə-dīn dī'fā'sfāt }

uridine diphosphoglucose [BIOCHEM] A compound in which α-glucopyranose is esterified, at carbon atom 1, with the terminal phosphate group of uridine-5'-pyrophosphate (that is, uridine diphosphate); occurs in animal, plant, and microbial cells; functions as a key in the transformation of glucose to other sugars. Abbreviated UDPG. { 'yür-ə-dīn dī'fā'sfō'glū'kōs }

uridine monophosphate See uridylic acid. { 'yür-ə-dīn 'mān-ə'fā'sfāt }

uridine phosphoric acid See uridylic acid. { 'yür-ə-dīn fā'sfōr-ik 'as-əd }

uridylic acid [BIOCHEM] $\text{C}_9\text{H}_{13}\text{N}_2\text{O}_6\text{P}$ Water- and alcohol-soluble crystals, melting at 202°C; used in biochemical research. Also known as uridine monophosphate (UMP); uridine phosphoric acid. { 'yür-ə'dīl-ik 'as-əd }

urinalysis [PATH] Analysis of the urine, involving chemical, physical, and microscopic tests. { 'yür-ə'nal-ə-səs }

urinary bladder [ANAT] A hollow organ which serves as a reservoir for urine. { 'yür-ə,ner-ē 'blad-ər }

urinary system [ANAT] The system which functions in the elaboration and excretion of urine in vertebrates; in humans and most mammals, consists of the kidneys, ureters, urinary bladder, and urethra. { 'yür-ə,ner-ē ,sis-təm }

urinary tract infection [MED] An inflammatory process occurring in the kidney, ureter, bladder, or adjacent structures that occurs when microorganisms (usually *Escherichia coli*) enter through the urethra. { 'yür-ə,ner-ē 'trakt in,fek-shən }

urination [PHYSIO] The discharge of urine from the bladder. Also known as micturition. { 'yür-ə'nā-shən }

urine [PHYSIO] The fluid excreted by the kidneys. { 'yür-ən }

uriniferous tubule [ANAT] One of the numerous winding tubules of the kidney. Also known as nephric tubule. { 'yür-ə'nif-ə-rəs 'tū,byūl }

URL See uniform resource locator.

urn [BOT] The theca of a moss. { ərn }

urobillin [BIOCHEM] A bile pigment produced by reduction of bilirubin by intestinal bacteria and excreted by the kidneys or removed by the liver. { 'yür-ə'bī-lən }

urobillinogen [BIOCHEM] A chromogen, formed in feces and present in urine, from which urobilin is formed by oxidation. { 'yür-ə'bīl-ə-jən }

urocanic acid [BIOCHEM] $\text{C}_6\text{H}_6\text{N}_2\text{O}_2$ A crystalline compound formed as an intermediate in the degradative pathway of histidine. { 'yür-ə'kan-ik 'as-əd }

Urochordata [INV ZOO] The equivalent name for Tunicata. { 'yür-ə'kōrd-əd-ə }

urochrome [BIOCHEM] $\text{C}_{43}\text{H}_{51}\text{O}_{26}\text{N}$ Yellow pigment found in normal urine. { 'yür-ə,krōm }

Urodela [VERT ZOO] The tailed amphibians or salamanders, an order of the class Amphibia distinguished superficially from frogs and toads by the possession of a tail, and from caecilians by the possession of limbs. { 'yür-ə'dē-lə }

urogenital diaphragm [ANAT] The sheet of tissue stretching across the pubic arch, formed by the deep transverse perineal and the sphincter urethrae muscles. Also known as triangular ligament. { 'yür-ə'jen-əd-əl 'dī-ə,frəm }

urogenital system [ANAT] The combined urinary and genital system in vertebrates, which are intimately related embryologically and anatomically. Also known as genitourinary system. { 'yür-ə'jen-əd-əl ,sis-təm }

urogomphus [INV ZOO] In certain insect larvae, a process on the terminal segment. Also known as pseudocercus. { 'yür-ə'gōm-fəs }

urography [MED] Radiography of any portion of the urinary tract; most often follows the intravenous administration of iodinated contrast material. { 'yür-ə'grī-ə-fē }

urokinase [BIOCHEM] An enzyme, present in human urine, that catalyzes the conversion of plasminogen to plasmin. { 'yür-ə'ki-nās }

uroolithiasis [MED] 1. Condition associated with the presence of urinary calculi. 2. Formation or presence of urinary calculi. { 'yür-ə'lə'thī-ə'sās }

urology [MED] The scientific study of urine and the diseases and abnormalities of the urinary and urogenital tracts. { 'yür-ə'lō-jē }

uronic acid [ORG CHEM] One of the compounds that are similar to sugars, except that the terminal carbon has been oxidized from the alcohol to a carboxyl group; for example, galacturonic acid and glucuronic acid. { 'yür-īn-ik 'as-əd }

uropepsin [BIOCHEM] The end product of the secretion of pepsinogen into the blood by gastric cells; occurs in urine. { 'yür-ə'pēp-sən }

uropod [INV ZOO] One of the flattened abdominal appendages of various crustaceans that with the telson forms the tail fan. { 'yür-ə'pōd }

uroporphyrin [BIOCHEM] Any of several isomeric, metal-free porphyrins, occurring in small quantities in normal urine and feces; molecule has four acetic acid ($-\text{CH}_2\text{COOH}$) and four propionic acid ($-\text{CH}_2\text{CH}_2\text{COOH}$) groups. { 'yür-ə'pōr-fə-rōn }

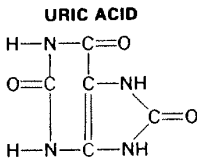
Uropygi [INV ZOO] The tailed whip scorpions, an order of arachnids characterized by an elongate, flattened body which bears in front a pair of thickened, raptorial pedipalps set with sharp spines and used to hold and crush insect prey. { 'yür-ə'pī-jī }

uroptygial gland [VERT ZOO] A relatively large, compact, bilobed, secretory organ located at the base of the tail (uroptygium) of most birds having a keeled sternum. Also known as oil gland; preen gland. { 'yür-ə'pī-jī-ē-əl ,gland }

urostyle [VERT ZOO] An unsegmented bone representing several fused vertebrae and forming the posterior part of the vertebral column in Anura. { 'yür-ə'stīl }

Urostyliidae [INV ZOO] A family of hemipteran insects in the superfamily Pentatomioidea. { 'yür-ə'stīl-ə,dē }

urotropin See cystamine. { 'yür-ə'trō-pən }



Structural formula of uric acid.

Electronic Acknowledgement Receipt

EFS ID:	2097554
Application Number:	11409703
International Application Number:	
Confirmation Number:	2765
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	27433
Filer:	Scott Richard Kaspar/Jeanna-marie Oleksy
Filer Authorized By:	Scott Richard Kaspar
Attorney Docket Number:	078616-1028
Receipt Date:	17-AUG-2007
Filing Date:	24-APR-2006
Time Stamp:	16:28:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	Letter_to_Examiner.pdf	268658 <small>5aeab66c256cf1265faf302a893c3911338c2d13</small>	no	10

Warnings:

Information:	
Total Files Size (in bytes):	268658
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><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.</p> <p><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.</p> <p><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.</p>	



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/409,703	04/24/2006	Alexander Kurganov	078616-1028	2765
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27433 7590 08/02/2007
FOLEY & LARDNER LLP
 321 NORTH CLARK STREET
 SUITE 2800
 CHICAGO, IL 60610-4764

EXAMINER

MCFADDEN, SUSAN IRIS

ART UNIT	PAPER NUMBER
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2626

MAIL DATE	DELIVERY MODE
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08/02/2007

PAPER

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.

Office Action Summary	Application No.	Applicant(s)	
	11/409,703	KURGANOV ET AL.	
	Examiner	Art Unit	
	Susan McFadden	2626	

-- 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 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, 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 29 June 2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) 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

- 4) Claim(s) 1-16 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-16 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) 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).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).
 - a) All b) Some * c) None of:
 - 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) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Response to Amendment

Response to Arguments

1. Applicant's arguments with respect to claims 1- 16 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The Specification does not discuss any "internet addresses".

Conclusion

4. 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


Art Unit: 2626

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 Susan McFadden whose telephone number is 571-272-7621. The examiner can normally be reached on Monday-Friday, 9:30-6:00.

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.


Susan McFadden
Primary Examiner
Art Unit 2626

July 31, 2007

Index of Claims



Application/Control No.

11/409,703

Examiner

Susan McFadden

Applicant(s)/Patent under Reexamination

KURGANOV ET AL.

Art Unit

2626

✓	Rejected
=	Allowed

-	(Through numeral) Cancelled
+	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date			
Final	Original				
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Search Notes



Application/Control No.

11/409,703

Examiner

Susan McFadden

Applicant(s)/Patent under Reexamination

KURGANOV ET AL.

Art Unit

2626

SEARCHED

Class	Subclass	Date	Examiner

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)

	DATE	EXMR
Searched WEST	7/31/2007	SM

Refine Search

Search Results -

Terms	Documents
remote adj system and computer and speech adj (synthesis and command and recognition) and address	5

Database:

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database



EPO Abstracts Database


JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:



Search History

DATE: [Tuesday, July 31, 2007](#) [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB; PLUR=YES; OP=OR</i>			
L19	remote adj system and computer and speech adj (synthesis and command and recognition) and address	5	L19
L18	remote adj system and computer and speech adj (synthesis and command and recognition) and internet	6	L18
<i>DB=USPT; PLUR=YES; OP=OR</i>			
L17	L16 and remote	22	L17
L16	L15 and (media adj server or IVR)	33	L16
L15	home and voice adj enabled	157	L15
L14	media adj sever and home and speech and browsing	0	L14
L13	media adj sever and home adj subsystem	0	L13
L12	speech near control and household adj devices	0	L12
L11	remote adj system and computer and speech adj (synthesis and command	0	L11

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Kurganov
Title: ROBUST VOICE BROWSER
SYSTEM AND VOICE
ACTIVATED DEVICE
CONTROLLER
Appl. No.: 11/409,703
Filing Date: 4/24/2006
Examiner: Susan Iris McFadden
Art Unit: 2626
Confirmation Number: 2765

AMENDMENT AND REPLY UNDER 37 CFR 1.111

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

Sir:

This communication is responsive to the Non-Final Office Action dated February 1, 2007, concerning the above-referenced patent application.

Amendments to the Abstract begin on page 2 of this document.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this document.

Remarks/Arguments begin on page 11 of this document.

Amendments to the Abstract:

Please amend the Abstract to read as follows:

The present invention relates to a system for controlling at least one remote system operatively connected to acquiring information from sources on a network, such as the Internet. The system includes a computer operatively connected to the Internet and a database operatively connected to the computer, the database storing an instruction set used to identify the remote system. A voice browsing system maintains a database containing a list of information sources, such as web sites, connected to a network. Each of the information sources is assigned a rank number which is listed in the database along with the record for the information source. In response to a speech command received from a user, the computer is configured to access the remote system to prompt the remote system to execute at least one pre-selected function a network interface system accesses the information source with the highest rank number in order to retrieve information requested by the user.

Amendments to the Claims:

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

Listing of Claims:

1. (Currently Amended): A method for controlling at least one remote system ~~retrieving information from pre-selected web sites by~~ uttering speech commands into a voice enabled device ~~and for providing to users retrieved information in an audio form via said voice enabled device~~, said method comprising the steps of:
 - providing a computer operatively connected to the internet, said computer further being operatively connected to at least one speaker-independent speech recognition engine and to at least one speech synthesis engine;
 - providing a voice enabled device operatively connected to said computer, said voice enabled device configured to receive speech commands from users;
 - providing at least one instruction set stored in a database operatively connected to said computer, said instruction set comprising:
 - at least one internet address ~~a plurality of pre-selected web site addresses,~~ ~~each said~~ at least one internet address ~~web site address~~ identifying the location of ~~said~~ at least one remote system, said at least one remote system configured to ~~execute at least one pre-selected function; and~~
 - said at least one pre-selected function ~~a web site containing said~~ ~~information to be retrieved;~~
 - providing a speech command to said speaker-independent speech recognition engine, said speech command corresponding to said instruction set;
 - said speaker-independent speech recognition engine assigning said speech command to a recognition grammar, said speech command and said recognition grammar corresponding to said instruction set;
 - transmitting said speech command to said speaker-independent speech recognition engine;

said speaker-independent speech recognition engine receiving said speech command and selecting the corresponding recognition grammar upon receiving said speech command;

said computer retrieving said instruction set corresponding to said recognition grammar selected by said speaker-independent speech recognition engine;

said computer accessing ~~said at least one remote system~~ at least one of said plurality of web sites identified by said instruction set to prompt said at least one remote system to execute said at least one pre-selected function ~~obtain said information to be retrieved~~, said computer first accessing said first web site of said plurality of web sites and, if said information to be retrieved is not found at said first web site, said computer sequentially accessing said plurality of web sites until said information to be retrieved is found or until said plurality of web sites has been accessed; and

said at least one remote system executing said at least one pre-selected function.

~~said speech synthesis engine producing an audio message containing any retrieved information from said pre-selected web sites; and~~

~~said speech synthesis engine transmitting said audio message to said users via said voice-enabled device.~~

2. (Currently Amended): The method of claim 1 wherein said at least one remote system comprises a home-based system ~~instruction set further comprises a content descriptor associated with each said web site address, said content descriptor pre-defining a portion of said web site containing said information to be retrieved.~~

3. (Currently Amended): The method of claim 2 ~~4~~ wherein said system is selected from the group consisting of: outdoor lighting, indoor lighting, security system, heating system, and air conditioning system ~~instruction set further comprises a ranking from highest to lowest associated with each said web site, said ranking indicating the order in which the plurality of pre-selected web sites are accessed.~~

4. (Currently Amended): The method of claim 3 wherein said at least one pre-selected function is selected from the group consisting of: turning the outdoor lighting on, turning the outdoor lighting off, dimming the outdoor lighting, turning the indoor lighting on, turning the indoor lighting off, dimming the indoor lighting, arming the security system, disarming the security system, turning the heating system on, turning the heating system off, adjusting the heating system temperature, turning the air conditioning on, turning the air conditioning off, and adjusting the air conditioning temperature ~~computer accesses said plurality of web sites based on said ranking, said computer first accessing said web site having the highest ranking.~~

5. (Currently Amended): The method of claim 1 4 ~~wherein said at least one remote system comprises an office-based system further comprising the step of adjusting said rankings associated with said plurality of web sites such that said web site having said information to be retrieved is assigned the highest ranking and any web sites not having said information to be retrieved are assigned lower rankings.~~

6. (Currently Amended): The method of claim 5 ~~wherein said system is selected from the group consisting of: outdoor lighting, indoor lighting, security system, heating system, and air conditioning system~~ ~~1 further comprising the step of periodically polling each said web site to determine whether said web site contains said information to be retrieved.~~

7. (Currently Amended): The method of claim 6 wherein at least one pre-selected function is selected from the group consisting of: turning the outdoor lighting on, turning the outdoor lighting off, dimming the outdoor lighting, turning the indoor lighting on, turning the indoor lighting off, dimming the indoor lighting, arming the security system, disarming the security system, turning the heating system on, turning the heating system off, adjusting the heating system temperature, turning the air conditioning on, turning the air conditioning off, and adjusting the air conditioning temperature ~~the computer periodically polls each said web site without being instructed by said user to determine the availability of each said web site, the duration of time for each said web site to respond to a request from said computer, and changes~~

~~to the location of said information to be retrieved from each said web site, said computer creating a ranking of said plurality of web sites based on said periodic polling.~~

8. (Currently Amended): The method of claim 1 further comprising the step of periodically polling said at least one remote system to determine whether said remote system is operational or out of service ~~searching said internet to find new web sites containing said information to be retrieved, and adding said new web sites to said plurality of web sites.~~

9. (Currently Amended): A system for controlling at least one remote system operatively connected to the internet ~~retrieving information from pre-selected web sites by uttering speech commands into a phone and for providing to users retrieved information in an audio form via said phone~~, said system comprising:

a computer, said computer operatively connected to the internet and to at least one phone;

at least one speaker-independent speech recognition engine, said speaker-independent speech recognition engine operatively connected to said computer;

at least one speech synthesis engine, said speech synthesis engine operatively connected to said computer;

a database, said database operatively connected to said computer;

at least one instruction set stored in said database ~~for identifying said information to be retrieved~~, said instruction set comprising:

at least one internet address a plurality of pre-selected web site addresses, each said at least one internet address web site address identifying the location of said at least one remote system, said at least one remote system configured to execute at least one pre-selected function ~~a web site containing said information to be retrieved; and~~

said at least one pre-selected function;

~~a content descriptor associated with each said web site address, said content descriptor predefining a portion of said web site containing said information to be retrieved;~~

~~a ranking from highest to lowest associated with each said web site address, said ranking indicating the order in which the plurality of pre-selected web sites are accessed;~~

at least one recognition grammar stored in said database, each said recognition grammar corresponding to each said instruction set and corresponding to a speech command;

said speaker-independent speech recognition engine configured to receive from users via said phone a speech command and to select the corresponding recognition grammar upon receiving said speech command;

said computer configured to retrieve said instruction set corresponding to said recognition grammar selected by said speaker-independent speech recognition device;

said computer further configured to access said at least one remote system ~~at least one of said plurality of web sites~~ identified by said instruction set to prompt said at least one remote system to execute said at least one pre-selected function ~~obtain said information to be retrieved, said computer configured to first access said web site having the highest ranking and, if said information to be retrieved is not found at said web site having the highest ranking, said computer configured to subsequently access said plurality of web sites in order of rankings until said information to be retrieved is found or until said plurality of web sites has been accessed;~~ and

said at least one remote system configured to execute said at least one pre-selected function.

~~said computer further configured to establish or adjust said rankings associated with said plurality of web sites such that said web site having said information to be retrieved is assigned the highest ranking and any web sites not having said information to be retrieved are assigned lower rankings;~~

~~said speech synthesis engine configured to produce an audio message containing any retrieved information from said pre-selected web sites, and said speech synthesis engine further configured to transmit said audio message to said users via said phone.~~

10. (Previously Presented): The system of claim 9 wherein said phone comprises a standard telephone, a cellular phone, or an IP phone.

11. (Previously Presented): The system of claim 9 wherein said internet is a local area network.

12. (Previously Presented): The system of claim 9 wherein said internet is a wide area network.

13. (Previously Presented): The system of claim 9 wherein said internet is the Internet.

14. (Currently Amended): The system of claim 9 wherein said at least one remote system is selected from the group consisting of: outdoor lighting, indoor lighting, security system, heating system, and air conditioning system ~~computer is configured to establish or adjust said rankings associated with said plurality of web sites when instructed by said user to access said plurality of web sites to retrieve said information.~~

15. (Currently Amended): The system of claim 14 9 wherein said at least one pre-selected function is selected from the group consisting of: turning the outdoor lighting on, turning the outdoor lighting off, dimming the outdoor lighting, turning the indoor lighting on, turning the indoor lighting off, dimming the indoor lighting, arming the security system, disarming the security system, turning the heating system on, turning the heating system off, adjusting the heating system temperature, turning the air conditioning on, turning the air conditioning off, and adjusting the air conditioning temperature ~~computer is configured to establish or adjust said rankings associated with said plurality of web sites based on periodic polling of each of said web sites without being instructed by said user to determine the~~

~~availability of each said web site, the duration of time for each said web site to respond to a request from said computer, and changes to the location of said information to be retrieved from each said web site.~~

16. (New): A method for controlling at least one remote system by uttering speech commands into a voice enabled device, said at least one remote system comprising an outdoor lighting system, an indoor lighting system, a security system, a heating system, or an air conditioning system, said method comprising the steps of:

providing a computer operatively connected to the internet, said computer further being operatively connected to at least one speaker-independent speech recognition engine and to at least one speech synthesis engine;

providing a voice enabled device operatively connected to said computer, said voice enabled device configured to receive speech commands from users;

providing at least one instruction set stored in a database operatively connected to said computer, said instruction set comprising:

at least one internet address, said at least one internet address-identifying the location of said at least one remote system, said at least one remote system configured to execute at least one pre-selected function; and

said at least one pre-selected function, said pre-selected function comprising turning the outdoor lighting on, turning the outdoor lighting off, dimming the outdoor lighting, turning the indoor lighting on, turning the indoor lighting off, dimming the indoor lighting, arming the security system, disarming the security system, turning the heating system on, turning the heating system off, adjusting the heating system temperature, turning the air conditioning on, turning the air conditioning off, or adjusting the air conditioning temperature;

providing a speech command to said speaker-independent speech recognition engine, said speech command corresponding to said instruction set;

said speaker-independent speech recognition engine assigning said speech command to a recognition grammar, said speech command and said recognition grammar corresponding to said instruction set;

transmitting said speech command to said speaker-independent speech recognition engine;

said speaker-independent speech recognition engine receiving said speech command and selecting the corresponding recognition grammar upon receiving said speech command;

said computer retrieving said instruction set corresponding to said recognition grammar selected by said speaker-independent speech recognition engine;

said computer accessing said at least one remote system-identified by said instruction set to prompt said at least one remote system to execute said at least one pre-selected function;

said at least one remote system executing said at least one pre-selected function;
and

said computer periodically polling said at least one remote system to determine whether said at least one remote system is operational or out of service.

REMARKS

One important feature of Applicant's claimed invention is that it can be used to access and control a remote system based on instructions provided by a user in the form of speech commands. For instance, by uttering certain speech commands, a user can direct the claimed invention to remotely access various home or office-based systems, such as lighting, security, and heating and air-conditioning systems, and control specific functions of the systems, such as turning a system on or off, or modulating the power level of the system. (*See, i.e.*, Specification, p. 37, ¶ 0094). Moreover, the system of the claimed invention can periodically access the remote systems to determine whether the system is functioning properly. (*See, i.e.*, Specification, pp. 37-38, ¶ 0095).

Applicant has amended independent claims 1 and 9 and has added new independent claim 16 to emphasize this feature. Specifically, claims 1 and 9, as amended, and claim 16 include "said computer accessing said at least one remote system-identified by said instruction set to prompt said at least one remote system to execute said at least one pre-selected function." Additionally, Applicant has amended those claims depending from independent claims 1 and 9 to further emphasize aspects of this feature.

This feature is not claimed by U.S. Patent No. 7,076,431 to Kurganov ("the '431 Patent"). Rather, the claims of the '431 Patent are directed to other aspects of Applicant's invention and, thus, Applicant's pending claims are no longer coextensive in scope with those of the '431 Patent.

Accordingly, in view of the foregoing amendments and remarks, Applicant respectfully requests that the Examiner withdraw the rejection based on statutory double patenting and enter a timely Notice of Allowance.

Objections to the Abstract:

Applicant has amended the Abstract, as shown in the "Amendments to the Abstract" section above, to emphasize the features of the claimed invention. Accordingly, in view of the amendments, Applicant respectfully requests that the Examiner withdraw the objections.

CONCLUSION


Applicant believes that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check or credit card payment form being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

Date 6-29-07

By 

FOLEY & LARDNER LLP
Customer Number: 27433
Telephone: (312) 832-5113
Facsimile: (312) 832-4700

Scott R. Kaspar
Attorney for Applicant
Registration No. 54,583

Electronic Patent Application Fee Transmittal

Application Number:	11409703			
Filing Date:	24-Apr-2006			
Title of Invention:	Robust voice browser system and voice activated device controller			
First Named Inventor/Applicant Name:	Alexander Kurganov			
Filer:	Scott Richard Kaspar			
Attorney Docket Number:	078616-1028			
Filed as Small Entity				
Utility Filing Fees				
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:				
Extension - 2 months with \$0 paid	2252	1	225	225

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				225

Electronic Acknowledgement Receipt

EFS ID:	1925177
Application Number:	11409703
International Application Number:	
Confirmation Number:	2765
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	27433
Filer:	Scott Richard Kaspar
Filer Authorized By:	
Attorney Docket Number:	078616-1028
Receipt Date:	29-JUN-2007
Filing Date:	24-APR-2006
Time Stamp:	17:21:47
Application Type:	Utility

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$225
RAM confirmation Number	2293
Deposit Account	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
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1	Extension of Time	Amendment_Transmittal.pdf	27841	no	3
Warnings:					
Information:					
2	Amendment - After Non-Final Rejection	Amendment.pdf	204754	no	13
Warnings:					
Information:					
3	Fee Worksheet (PTO-06)	fee-info.pdf	8152	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			240747		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Kurganov
Title: ROBUST VOICE BROWSER
SYSTEM AND VOICE
ACTIVATED DEVICE
CONTROLLER
Appl. No.: 11/409,703
Filing Date: 4/24/2006
Examiner: Susan Iris McFadden
Art Unit: 2626
Confirmation Number: 2765

AMENDMENT TRANSMITTAL

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

Sir:

Transmitted herewith is an amendment in the above-identified application.

- Small Entity status under 37 C.F.R. § 1.9 and § 1.27 has been established by a previous assertion of Small Entity status.
- Assertion of Small Entity status is enclosed.

[X] The fee required for additional claims is calculated below:

	Claims As Amended	-	Previously Paid For	=	Extra Claims Present	x	Rate	=	Additional Claims Fee	
Total Claims:	16	-	20	=	0	x	\$50.00	=	\$0.00	
Independent Claims:	3	-	3	=	0	x	\$200.00	=	\$0.00	
First presentation of any Multiple Dependent Claims:		+					\$360.00	=	\$0.00	
CLAIMS FEE TOTAL									=	\$0.00

[X] Applicant hereby petitions for an extension of time under 37 C.F.R. §1.136(a) for the total number of months checked below:

[] Extension for response filed within the first month:	\$120.00	\$0.00
[X] Extension for response filed within the second month:	\$450.00	\$450.00
[] Extension for response filed within the third month:	\$1,020.00	\$0.00
[] Extension for response filed within the fourth month:	\$1,590.00	\$0.00
[] Extension for response filed within the fifth month:	\$2,160.00	\$0.00
EXTENSION FEE TOTAL:		\$450.00
[] Statutory Disclaimer Fee under 37 C.F.R. 1.20(d):	\$130.00	\$0.00
CLAIMS, EXTENSION AND DISCLAIMER FEE TOTAL:		\$450.00
[X] Small Entity Fees Apply (subtract ½ of above):		\$225.00
Extension Fees Previously Paid:		\$0.00
TOTAL FEE:		\$225.00

A credit card payment form in the amount of \$225.00 is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to

Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by the credit card payment form being unsigned, providing incorrect information resulting in a rejected credit card transaction, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

If any extensions of time are needed for timely acceptance of papers submitted herewith, applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date 6-29-2007

By 

FOLEY & LARDNER LLP
321 N. Clark Street
Suite 2800
Chicago, IL 60610
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Scott R. Kaspar
Attorney for Applicant
Registration No. 54,583

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

PATENT APPLICATION FEE DETERMINATION RECORD					Application or Docket Number 11409703		
Substitute for Form PTO-875 Effective December 8, 2004							
APPLICATION AS FILED - PART I							
(Column 1)			(Column 2)		(Column 3)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	OTHER THAN SMALL ENTITY	
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	150.00	OR	N/A	
SEARCH FEE (37 CFR 1.16(d), (f), or (m))	N/A	N/A	N/A	\$250	OR	N/A	
EXAMINATION FEE (37 CFR 1.16(e), (g), or (n))	N/A	N/A	N/A	\$100	OR	N/A	
TOTAL CLAIMS (37 CFR 1.16(f))	15	minus 20 =	X\$ 25 =		OR	X\$50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	X100 =		OR	X200 =	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 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).				OR		
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(i))			+180=		OR	+360=	
			TOTAL	500	OR	TOTAL	
* If the difference in column 1 is less than zero, enter "0" in column 2.							
APPLICATION AS AMENDED - PART II							
(Column 1)		(Column 2)		(Column 3)		(Column 4)	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	OTHER THAN SMALL ENTITY
Total (37 CFR 1.16(j))	16	Minus	20	X\$ 25 =		OR	X\$50 =
Independent (37 CFR 1.16(k))	3	Minus	3	X100 =		OR	X200 =
Application Size Fee (37 CFR 1.16(s))						OR	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(i))				+180=		OR	+360=
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE
(Column 1)		(Column 2)		(Column 3)		(Column 4)	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	OTHER THAN SMALL ENTITY
Total (37 CFR 1.16(j))		Minus		X\$ 25 =		OR	X\$50 =
Independent (37 CFR 1.16(k))		Minus		X100 =		OR	X200 =
Application Size Fee (37 CFR 1.16(s))						OR	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(i))				+180=		OR	+360=
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>							

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/409,703	04/24/2006	Alexander Kurganov	078616-1028	2765

27433 7590 02/01/2007
FOLEY & LARDNER LLP
321 NORTH CLARK STREET
SUITE 2800
CHICAGO, IL 60610-4764

EXAMINER

MCFADDEN, SUSAN IRIS

ART UNIT PAPER NUMBER

2626

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/01/2007	PAPER

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

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 11/409,703	Applicant(s) KURGANOV ET AL.	
	Examiner Susan McFadden	Art Unit 2626	

-- 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 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, 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 24 April 2006.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) 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

- 4) Claim(s) 1-15 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-15 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 24 April 2006 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).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).
 a) All b) Some * c) None of:
 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) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because it is the same as US 6,721,705 and 7076431. Correction is required. See MPEP § 608.01(b).

Double Patenting

2. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

3. Claims 1-8 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 19-25 of prior U.S. Patent No. 7,076,431. This is a double patenting rejection.

4. Claims 9-15 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 26-32 of prior U.S. Patent No. 7,076,431. This is a double patenting rejection.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: a method for retrieving information from pre-selected web sites by uttering speech commands into a voice enabled device and for providing to users retrieved information in an audio form via said voice enabled device,

Art Unit: 2626

said method comprising the steps of: providing a computer operatively connected to the internet, said computer further being operatively connected to at least one speaker-independent speech recognition engine and to at least one speech synthesis engine; providing a voice enabled device operatively connected to said computer, said voice enabled device configured to receive speech commands from users; providing at least one instruction set stored in a database operatively connected to said computer, said instruction set comprising: a plurality of pre-selected web site addresses, each said web site address identifying a web site containing said information to be retrieved; providing a speech command to said speaker-independent speech recognition engine, said speech command corresponding to said instruction set; said speaker-independent speech recognition engine assigning said speech command to a recognition grammar, said speech command and said recognition grammar corresponding to said instruction set; transmitting said speech command to said speaker-independent speech recognition engine; said speaker-independent speech recognition engine receiving said speech command and selecting the corresponding recognition grammar upon receiving said speech command; said computer retrieving said instruction set corresponding to said recognition grammar selected by said speaker-independent speech recognition engine; said computer accessing at least one of said plurality of web sites identified by said instruction set to obtain said information to be retrieved, said computer first accessing said first web site of said plurality of web sites and, if said information to be retrieved is not found at said first web site, said computer sequentially accessing said plurality of web sites until said information to be retrieved is found or until said plurality of web sites

Art Unit: 2626

has been accessed; said speech synthesis engine producing an audio message containing any retrieved information from said pre-selected web sites; and said speech synthesis engine transmitting said audio message to said users via said voice enabled device.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan McFadden whose telephone number is 571-272-7621. The examiner can normally be reached on Monday-Friday, 9:30-6:00.

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.

Application/Control Number: 11/409,703
Art Unit: 2626

Page 5

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.


Susan McFadden
Primary Examiner
Art Unit 2626

January 23, 2007

Notice of References Cited	Application/Control No. 11/409,703	Applicant(s)/Patent Under Reexamination KURGANOV ET AL.	
	Examiner Susan McFadden	Art Unit 2626	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-6,424,945	07-2002	Sorsa, Mika T.	704/270.1
*	B US-6,721,705	04-2004	Kurganov et al.	704/270.1
*	C US-7,076,431	07-2006	Kurganov et al.	704/275
	D US-			
	E US-			
	F US-			
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	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.



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



Bib Data Sheet

CONFIRMATION NO. 2765

SERIAL NUMBER	FILING OR 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.	
11/409,703	04/24/2006 RULE	704	2626	078616-1028	
APPLICANTS					
Alexander Kurganov, Buffalo Grove, IL; Valery Zhukoff, Deerfield, IL;					
** CONTINUING DATA *****					
This application is a CON of 10/821,690 04/09/2004 PAT 7,076,431 which is a CON of 09/776,996 02/05/2001 PAT 6,721,705 which claims benefit of 60/180,344 02/04/2000 and claims benefit of 60/233,068 09/15/2000 <i>sm</i>					
** FOREIGN APPLICATIONS *****					
IF REQUIRED, FOREIGN FILING LICENSE GRANTED** SMALL ENTITY **					
** 05/16/2006					
Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no		STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119 (a-d) conditions <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after met					
Verified and Acknowledged		IL	4	15	2
Allowance <i>[Signature]</i> Examiner's Signature <i>SM</i> Initials					
ADDRESS					
27433					
TITLE					
Robust voice browser system and voice activated device controller					
FILING FEE RECEIVED 500	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			<input type="checkbox"/> All Fees	
				<input type="checkbox"/> 1.16 Fees (Filing)	
				<input type="checkbox"/> 1.17 Fees (Processing Ext. of time)	
				<input type="checkbox"/> 1.18 Fees (Issue)	
				<input type="checkbox"/> Other _____	
				<input type="checkbox"/> Credit	

Index of Claims



Application/Control No.

11/409,703

Examiner

Susan McFadden

Applicant(s)/Patent under Reexamination

KURGANOV ET AL.

Art Unit

2626

√	Rejected
=	Allowed

-	(Through numeral) Cancelled
+	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date			
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Search Notes (continued)



Application/Control No.

11/409,703

Examiner

Susan McFadden

Applicant(s)/Patent under Reexamination

KURGANOV ET AL.

Art Unit

2626

SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
Searched WEST	1/23/2007	SM

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

WEST Search History

DATE: Tuesday, January 23, 2007

Hide?	Set Name	Query	Hit Count
	<i>DB=USPT; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L6	(speech adj (recognition and synthesis) and command and (Internet or web adj site or web-site) and grammar and audio adj message).clm.	1
<input type="checkbox"/>	L5	L2 and audio adj message	3
<input type="checkbox"/>	L4	L2 and audio adj message	3
<input type="checkbox"/>	L3	L2 and audio	15
<input type="checkbox"/>	L2	L1 and voice adj browser	15
<input type="checkbox"/>	L1	speech adj (recognition and synthesis) and command and (Internet or web adj site or web-site) and grammar	75

END OF SEARCH HISTORY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Kurganov et al.
Title: ROBUST VOICE BROWSER
SYSTEM AND VOICE
ACTIVATED DEVICE
CONTROLLER
Appl. No.: 11/409,703
Filing Date: 4/24/2006
Examiner: Richemond Dorvil
Art Unit: 2626
Confirmation Number: 2765

**REVOCATION AND POWER OF ATTORNEY AND
CHANGE OF CORRESPONDENCE ADDRESS**

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

Sir:

Applicant's attorney respectfully requests that the records of the United States Patent and Trademark Office in connection with the above-identified application be changed to show the following customer number for all future communications by virtue of the attached Power of Attorney to Prosecute Applications Before the U.S. Patent and Trademark Office (PTO/SB/80) and by the enclosed Statement under 3.73(b).

Correspondence Customer Number: 27433

Respectfully submitted,

Date October 6, 2006

By 

FOLEY & LARDNER LLP
Customer Number: 27433
Telephone: (312) 832-4576
Facsimile: (312) 832-4700

Scott R. Kaspar
Attorney for Applicant
Registration No. 54,583

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(b)

Applicant/Patent Owner: Alexander Kurganov et al.

Application No.: 11/409,703 Filed: 4/24/2006

Patent No.: _____ Issue Date: _____

Docket Number: 078616-1028

Entitled: ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE
CONTROLLER

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

states that it is:

1. the assignee of the entire right, title, and interest; or
2. an assignee of less than the entire right, title, and interest
The extent (by percentage) of its ownership interest is %

in the patent application/patent identified above by virtue of either:

- 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 **011795/0293** or for which a copy thereof is attached.

OR

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


1. 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.
2. 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.
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.

- Additional documents in the chain of title are listed on a supplemental sheet.

- Copies of assignments or other documents in the chain of title are attached.

NOTE: A separate copy (i.e., a true copy of the original document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded 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.

	<u>October 6, 2006</u>
Signature	Date
<u>Scott R. Kaspar</u>	<u>(312) 832-4576</u>
Printed or Typed Name	Telephone Number
<u>Attorney for Applicant</u>	_____
Title	

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 1.14. 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.

ASSIGNMENT

WHEREAS, We, Alexander Kurganov and Valery Zhukoff have invented certain new and useful improvements in the following: **Robust Voice Browser System and Voice Activated Device Controller** for which we have made application for United States Letters Patent; and,

WHEREAS, Assignee, Webley Systems, Inc., a corporation organized and existing under the laws of Illinois, having its principal place of business at **570 Lake Cook Road, Suite 406, Deerfield, IL 60015** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives the entire right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefore, and all provisionals, divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof, and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

We further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

We further authorize and direct our attorneys to insert below* the serial number and filing date of said application now identified as Case Docket No. **47242-00027** as soon as the same shall have been made known to them by the United States Patent Office.

*Serial Number: 09/776,996
Filing Date: February 5, 2001

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 4th day of

May, 2001.

[Handwritten Signature]

Name: Alexander Kurganov
Address: 2099 Sheridan Road
Buffalo Grove, Illinois 60089

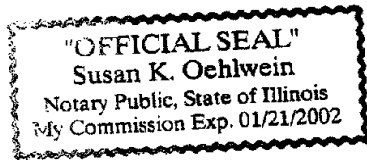
STATE OF Illinois)
COUNTY OF Lake) ss.

On this 4th day of May, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared, known by me to be the person of the above name who signed and sealed the foregoing instrument, and acknowledged the same to be his own free act and deed.

[Handwritten Signature: Susan K. Oehlwein]

Notary Public
My Commission Expires:

[seal]



IN WITNESS WHEREOF, I have hereunto set my hand and seal this 4th day of May, 2001.

Valery Zhukoff

Name: **Valery Zhukoff**
Address: **821 Rosemary Terrace**
Deerfield, IL 60015

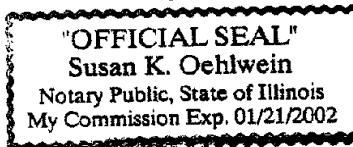
STATE OF Illinois)
) ss.
COUNTY OF Lake)

On this 4th day of May, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared , known by me to be the person of the above name who signed and sealed the foregoing instrument, and acknowledged the same to be his own free act and deed.

Susan K. Oehlwein

Notary Public
My Commission Expires:

[seal]



Electronic Acknowledgement Receipt

EFS ID:	1240840
Application Number:	11409703
Confirmation Number:	2765
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor:	Alexander Kurganov
Customer Number:	47670
Filer:	Scott Richard Kaspar/Karenina Oliver
Filer Authorized By:	Scott Richard Kaspar
Attorney Docket Number:	015749-0140
Receipt Date:	06-OCT-2006
Filing Date:	24-APR-2006
Time Stamp:	16:28:42
Application Type:	Utility
International Application Number:	

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part	Pages
1	Change of Address	078616-1028_POA_Chg_Ad rs.pdf	321566	no	1

Warnings:					
Information:					
2	Assignee showing of ownership per 37 CFR 3.73(b).	078616-1028_Assignment_Statement.pdf	64328	no	1
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73(b).	078616-1028_Assignment.pdf	104289	no	3
Warnings:					
Information:					
Total Files Size (in bytes):			490183		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><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.</p> <p><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.</p>					

042406

16138 U.S. PTO

113256 U.S. PTO 11/409703

042406

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	015749-0140
	First Inventor	Alexander Kurganov
	Title	Robust Voice Browser System...
	Express Mail Label No.	EV 649544830 US

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small>	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
--	---

1. **Fee Transmittal Form** (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. **Applicant claims small entity status.**
See 37 CFR 1.27.
3. **Specification** [Total Pages 45]
Both the claims and abstract must start on a new page
(For information on the preferred arrangement, see MPEP 608.01(a))
4. **Drawing(s)** (35 U.S.C. 113) [Total Sheets 4]
5. **Oath or Declaration** [Total Sheets 4]
 - a. Newly executed (original or copy)
 - b. A copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
name in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. **Application Data Sheet.** See 37 CFR 1.76
7. **CD-ROM or CD-R** in duplicate, large table or
Computer Program (Appendix)
 Landscape Table on CD
8. **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

- ACCOMPANYING APPLICATION PARTS**
9. **Assignment Papers** (cover sheet & document(s))
Name of Assignee _____
 10. **37 CFR 3.73(b) Statement** **Power of Attorney**
(when there is an assignee)
 11. **English Translation Document** (if applicable)
 12. **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
 Copies of citations attached.
 13. **Preliminary Amendment**
 14. **Return Receipt Postcard** (MPEP 503)
(Should be specifically itemized)
 15. **Certified Copy of Priority Document(s)**
(if foreign priority is claimed)
 16. **Nonpublication Request** under 35 U.S.C. 122(b)(2)(B)(i).
Applicant must attach form PTO/SB/35 or equivalent.
 17. **Other:** _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

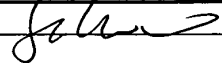
Continuation Divisional Continuation-in-part (CIP) of prior application No.: 10/821,690.....

Prior application information: Examiner McFadden, Susan Iris Art Unit: 2655

19. CORRESPONDENCE ADDRESS

The address associated with Customer Number: 47670 OR Correspondence address below

Name	
Address	
City	State Zip Code
Country	Telephone Email

Signature		Date	April 24, 2006
Name (Print/Type)	Scott Kaspar	Registration No. (Attorney/Agent)	54,583

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		Application Number	TBA	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	April 24, 2006	
		First Named Inventor	Alexander Kurganov	
		Examiner Name	TBA	
		Art Unit	TBA	
TOTAL AMOUNT OF PAYMENT	(\$)	500	Attorney Docket No.	015749-0140

METHOD OF PAYMENT (check all that apply)

Check
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 None
 Other (please identify): _____

Deposit Account
 Deposit Account Number: 11-0404
 Deposit Account Name: Kelley Drye & Warren

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1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	500
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)** **Multiple Dependent Claims**
15 - 20 or HP = 0 x _____ = _____ **Fee (\$)** **Fee Paid (\$)**
 HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
2 - 3 or HP = 0 x _____ = _____ **Fee (\$)** **Fee Paid (\$)**
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3. APPLICATION SIZE FEE

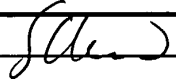
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Non-English Specification, \$130 fee (no small entity discount) **Fees Paid (\$)**

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Signature		Registration No. (Attorney/Agent) 54,583
Name (Print/Type)	Scott Kaspar	Telephone 312-857-7088
		Date April 24, 2006

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042406

16138 U.S. PTO

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UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	015749-0140
	First Inventor	Alexander Kurganov
	Title	Robust Voice Browser System...
	Express Mail Label No.	EV 649544830 US

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small>	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
--	---

1. **Fee Transmittal Form** (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. **Applicant claims small entity status.**
See 37 CFR 1.27.
3. **Specification** [Total Pages 45]
Both the claims and abstract must start on a new page
(For information on the preferred arrangement, see MPEP 608.01(a))
4. **Drawing(s)** (35 U.S.C. 113) [Total Sheets 4]
5. **Oath or Declaration** [Total Sheets 4]
 - a. Newly executed (original or copy)
 - b. A copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
name in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. **Application Data Sheet.** See 37 CFR 1.76
7. **CD-ROM or CD-R** in duplicate, large table or
Computer Program (Appendix)
 Landscape Table on CD
8. **Nucleotide and/or Amino Acid Sequence Submission**
(if applicable, items a. - c. are required)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
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 - ii. Paper
 - c. Statements verifying identity of above copies

- ACCOMPANYING APPLICATION PARTS**
9. **Assignment Papers** (cover sheet & document(s))

Name of Assignee _____
 10. **37 CFR 3.73(b) Statement** **Power of Attorney**
(when there is an assignee)
 11. **English Translation Document** (if applicable)
 12. **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
 Copies of citations attached.
 13. **Preliminary Amendment**
 14. **Return Receipt Postcard** (MPEP 503)
(Should be specifically itemized)
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 16. **Nonpublication Request** under 35 U.S.C. 122(b)(2)(B)(i).
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18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

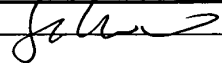
Continuation Divisional Continuation-in-part (CIP) of prior application No.: 10/821,690.....

Prior application information: Examiner McFadden, Susan Iris Art Unit: 2655

19. CORRESPONDENCE ADDRESS

The address associated with Customer Number: 47670 OR Correspondence address below

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Address	
City	State Zip Code
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Signature		Date	April 24, 2006
Name (Print/Type)	Scott Kaspar	Registration No. (Attorney/Agent)	54,583

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<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	April 24, 2006
TOTAL AMOUNT OF PAYMENT (\$) 500		First Named Inventor	Alexander Kurganov
		Examiner Name	TBA
		Art Unit	TBA
		Attorney Docket No.	015749-0140

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 Other (please identify): _____

Deposit Account
 Deposit Account Number: 11-0404
 Deposit Account Name: Kelley Drye & Warren

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3. APPLICATION SIZE FEE

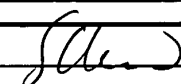
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE


*APPLICATION FOR UNITED STATES
LETTERS PATENT*

FOR

**ROBUST VOICE BROWSER SYSTEM AND
VOICE ACTIVATED DEVICE CONTROLLER**

BY

Alexander Kurganov
Valery Zhukoff

EXPRESS MAIL MAILING LABEL	
NUMBER	EV 649544830 US
DATE OF DEPOSIT	April 24, 2006
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	4-24-06
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CROSS-REFERENCE TO RELATED APPLICATIONS

[001] This application is a continuation of U.S. Patent Application No. 10/821,690, filed April 9, 2004, now allowed, which is a continuation of U.S. Patent Application No. 09/776,996, filed February 5, 2001 and issued as U.S. Patent No. 6,721,705 on April 13, 2004, which claims the benefit of priority to U.S. Provisional Application No. 60/180,344, filed February 4, 2000, entitled "Voice-Activated Information Retrieval System" and U.S. Provisional Application No. 60/233,068, filed September 15, 2000, entitled "Robust Voice Browser System and Voice Activated Device Controller," all of which are herein incorporated by reference in their entirety.

FIELD OF THE INVENTION

[002] The present invention relates to a robust and highly reliable system that allows users to browse web sites and retrieve information by using conversational voice commands. Additionally, the present invention allows users to control and monitor other systems and devices that are connected the Internet or any other network by using voice commands.

BACKGROUND OF THE INVENTION

[003] Currently, three options exist for a user who wishes to gather information from a web site accessible over the Internet. The first option is to use a desktop or a laptop computer connected to a telephone line via a modem or connected to a network with Internet access. The second option is to use a Personal Digital Assistant (PDA) that has the capability of connecting to the Internet either through a modem or a wireless connection. The third option is to use one of the newly designed web-phones or web-pagers that are now being offered on the market. Although each of these options provide a user with access to the Internet to browse web sites, each of them have their own drawbacks.

[004] Desktop computers are very large and bulky and are difficult to transport. Laptop computers solve this inconvenience, but many are still quite heavy and are inconvenient to carry. Further, laptop computers cannot be carried and used everywhere a user travels. For instance, if a user wishes to obtain information from a remote location where no electricity or communication lines are installed, it would be nearly impossible to use a laptop computer. Oftentimes, information is needed on an immediate basis where a computer is not accessible. Furthermore, the use of laptop or desktop computers to access the Internet requires either a direct or a dial-up connection tan an Internet Service Provider (ISP). Oftentimes, such connections are not available when a user desires to connect to the Internet to acquire information.

[005] The second option for remotely accessing web sites is the use of PDAs. These devices also have their own set of drawbacks. First, PDAs with the ability to connect to the Internet and access web sites are not readily available. As a result, these PDAs tend to be very expensive. Furthermore, users are usually required to pay a special service fee to

enable the web browsing feature of the PDA. A further disadvantage of these PDAs is that web sites must be specifically designed to allow these devices to access information on the web site. Therefore, a limited number of web sites are available that are accessible by these web-enabled PDAs. Finally, it is very common today for users to carry cell phones, however, users must also carry a separate PDA if they require the ability to gather information from various web sites. Users are therefore subjected to added expenses since they must pay for both cellular telephone service and also for the web-enabling service for the PDA. This results in a very expensive alternative for the consumer.

[006] The third alternative mentioned above is the use of web-phones or web-pagers. These devices suffer many of the same drawbacks as PDAs. First, these devices are expensive to purchase. Further, the number of web sites accessible to these devices is limited since web sites must be specifically designed to allow access by these devices. Furthermore, users are often required to pay an additional fee in order to gain wireless web access. Again, this service is expensive. Another drawback of these web-phones or web-pagers is that as technology develops, the methods used by the various web sites to allow access by these devices may change. These changes may require users to purchase new web-phones or web-pagers or have the current device serviced in order to upgrade the firmware or operating system stored within the device. At the least, this would be inconvenient to users and may actually be quite expensive.

[007] Therefore, a need exists for a system that allows users to easily access and browse the Internet from any location. Such a system would only require users to have access to any type of telephone and would not require users to subscribe to multiple services.

[008] In the rapidly changing area of Internet applications, web sites change frequently. The design of the web site may change, the information required by the web site in order to

perform searches may change, and the method of reporting search results may change. Web browsing applications that submit search requests and interpret responses from these web sites based upon expected formats will produce errors and useless responses when such changes occur. Therefore, a need exists for a system that can detect modifications to web sites and adapt to such changes in order to quickly and accurately provide the information requested by a user through a voice enabled device, such as a telephone.

[009] When users access web sites using devices such as personal computers, delays in receiving responses are tolerated and are even expected, however, such delays are not expected when a user communicates with a telephone. Users expect communications over a telephone to occur immediately with a minimal amount of delay time. A user attempting to find information using a telephone expects immediate responses to his search requests. A system that introduces too much delay between the time a user makes a request and the time of response will not be tolerated by users and will lose its usefulness. Therefore, it is important that a voice browsing system that uses telephonic communications selects web sites that provide rapid responses since speed is an important factor for maintaining the system's desirability and usability. Therefore, a need exists for a system that accesses web sites based upon their speed of operation.

SUMMARY OF THE INVENTION

[0010] It is an object of an embodiment of the present invention to allow users to gather information from web sites by using voice enabled devices, such as wireline or wireless telephones.

[0011] An additional object of an embodiment of the present invention is to provide a system and method that allows the searching and retrieving of publicly available information by controlling a web browsing server using naturally spoken voice commands.

[0012] It is an object of another embodiment of the present invention to provide a robust voice browsing system that can obtain the same information from several web sites based upon a ranking order. The ranking order is automatically adjusted if the system detects that a given web site is not functioning, is too slow, or has been modified in such a way that the requested information cannot be retrieved any longer.

[0013] A still further object of an embodiment of the present invention is to allow users to gather information from web sites from any location where a telephonic connection can be made.

[0014] Another object of an embodiment of the present invention is to allow users to browse web sites on the Internet using conversational voice commands spoken into wireless or wireline telephones or other voice enabled devices.

[0015] An additional object of an embodiment of the present invention is to provide a system and method for using voice commands to control and monitor devices connected to a network.

[0016] It is an object of an embodiment of the present invention to provide a system and method which allows devices connected to a network to be controlled by conversational

voice commands spoken into any voice enabled device interconnected with the same network.

[0017] The present invention relates to a system for acquiring information from sources on a network, such as the Internet. A voice browsing system maintains a database containing a list of information sources, such as web sites, connected to a network. Each of the information sources is assigned a rank number which is listed in the database along with the record for the information source. In response to a speech command received from a user, a network interface system accesses the information source with the highest rank number in order to retrieve information requested by the user.

[0018] The a preferred embodiment of the present invention allows users to access and browse web sites when they do not have access to computers with Internet access. This is accomplished by providing a voice browsing system and method that allows users to browse web sites using conversational voice commands spoken into any type of voice enabled device (i.e., any type of wireline or wireless telephone, IP phone, wireless PDA, or other wireless device). These spoken commands are then converted into data messages by a speech recognition software engine running on a user interface system. These data messages are then sent to and processed by a network interface system. This network interface system then generates the proper requests that are transmitted to the desired web site over the Internet. Responses sent from the web site are received and processed by the network interface system and then converted into an audio message via a speech synthesis engine or a pre-recorded audio concatenation application and finally transmitted to the user's voice enabled device.

[0019] A preferred embodiment of the voice browser system and method uses a web site polling and ranking methodology that allows the system to detect changes in web sites and

adapt to those changes in real-time. This enables the voice browser system of a preferred embodiment to deliver highly reliable information to users over any voice enabled device. This ranking system also enables the present invention to provide rapid responses to user requests. Long delays before receiving responses to requests are not tolerated by users of voice-based systems, such as telephones. When a user speaks into a telephone, an almost immediate response is expected. This expectation does not exist for non-voice communications, such as email transmissions or accessing a web site using a personal computer. In such situations, a reasonable amount of transmission delay is acceptable. The ranking system of implemented by a preferred embodiment of the present invention ensures users will always receive the fastest possible response to their request.

[0020] An alternative embodiment of the present invention allows users to control and monitor the operation of a variety of household devices connected to a network using speech commands spoken into a voice enabled device.

BRIEF DESCRIPTION OF THE DRAWINGS

[0021] FIG. 1 is a depiction of the voice browsing system of the first embodiment of the present invention;

[0022] FIG. 2 is a block diagram of a database record used by the first preferred embodiment of the present invention;

[0023] FIG. 3 is a block diagram of a media server used by the preferred embodiment;

[0024] FIG. 4 is a block diagram of a web browsing server used by the preferred embodiment; and

[0025] FIG. 5 is a depiction of the device browsing system of the second embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0026] A first embodiment of the present invention is a system and method for allowing users to browse information sources, such as web sites, by using naturally spoken, conversational voice commands spoken into a voice enabled device. Users are not required to learn a special language or command set in order to communicate with the voice browsing system of the present invention. Common and ordinary commands and phrases are all that is required for a user to operate the voice browsing system. The voice browsing system recognizes naturally spoken voice commands and is speaker-independent; it does not have to be trained to recognize the voice patterns of each individual user. Such speech recognition systems use phonemes to recognize spoken words and not predefined voice patterns.

[0027] The first embodiment allows users to select from various categories of information and to search those categories for desired data by using conversational voice commands. The voice browsing system of the first preferred embodiment includes a user interface system referred to as a media server. The media server contains a speech recognition software engine. This speech recognition engine is used to recognize natural, conversational voice commands spoken by the user and converts them into data messages based on the available recognition grammar. These data messages are then sent to a network interface system. In the first preferred embodiment, the network interface system is referred to as a web browsing server. The web browsing server then accesses the appropriate information source, such as a web site, to gather information requested by the user.

[0028] Responses received from the information sources are then transferred to the media

server where speech synthesis engine converts the responses into audio messages that are transmitted to the user. A more detailed description of this embodiment will now be provided.

[0029] Referring to FIG. 1, a database 100 designed by Webley Systems Incorporated is connected to one or more web browsing servers 102 as well as to one or more media servers 106. The database may store information on magnetic media, such as a hard disk drive, or it may store information via other widely acceptable methods for storing data, such as optical disks. The database 100 contains a separate set of records for each web site accessible by the system. An example of a web site record is shown in FIG. 2. Each web site record 200 contains the rank number of the web site 202, the associated Uniform Resource Locator (URL) 204, and a command that enables the appropriate "extraction agent" 206 that is required in order to generate proper requests sent to and to format data received from the web site. The database record 200 also contains the timestamp 208 indicating the last time the web site was accessed. The extraction agent is described in more detail below. The database 100 categorizes each database record 200 according to the type of information provided by each web site. For instance, a first category of database records 200 may correspond to web sites that provide "weather" information. The database 100 may also contain a second category of records 200 for web sites that provide "stock" information. These categories may be further divided into subcategories. For instance, the "weather" category may contain subcategories depending upon type of weather information available to a user, such as "current weather" or "extended forecast". Within the "extended forecast" subcategory, a list of web site records may be stored that provide weather information for multiple days. The use of subcategories may allow the web browsing feature to provide more accurate, relevant, and up-to-date information to the user by

accessing the most relevant web site. The number of records contained in each category or subcategory is not limited. In the preferred embodiment, three web site records are provided for each category.

[0030] Table 1 below depicts two database records 200 that are used with the preferred embodiment. These records also contain a field indicating the “category” of the record, which is “weather” in each of these examples.

TABLE 1

category: weather
URL: URL=http://cgi.cnn.com/cgi-bin/weather/redirect? zip= zip
rank: 1
command: web_dispatch.pl weather_cnn
browsingserver: wportall
browsingServerBackup: wportal2
dateTime: Dec 21 2000 2:15PM

category: weather
URL: URL=http://weather.lycos.com/wcfiveday.asp?city=zip
rank: 2
command: web_dispatch.pl weather_lycos
browsingServer: wportall
browsingserverBackup: wportal2
dateTime: Dec 21 2000 1:45PM

[0031] The database also contains a listing of pre-recorded audio files used to create concatenated phrases and sentences. Further, database 100 may contain customer profile information, system activity reports, and any other data or software servers necessary for the testing or administration of the voice browsing system.

[0032] The operation of the media servers 106 will now be discussed in relation to FIG. 3. The media servers 106 function as user interface systems. In the preferred embodiment, the media servers 106 contain a speech recognition engine 300, a speech synthesis engine

302, an Interactive Voice Response (IVR) application 304, a call processing system 306, and telephony and voice hardware 308 required to communicate with the Public Switched Telephone Network (PSTN) 116. In the preferred embodiment, each media server is based upon Intel's Dual Pentium III 730 MHz microprocessor system.

[0033] The speech recognition function is performed by a speech recognition engine 300 that converts voice commands received from the user's voice enabled device 112 (i.e., any type of wireline or wireless telephone, Internet Protocol (IP) phones, or other special wireless units) into data messages. In the preferred embodiment, voice commands and audio messages are transmitted using the PSTN 116 and data is transmitted using the TCP/IP communications protocol. However, one skilled in the art would recognize that other transmission protocols may be used for either voice or data. Other possible transmission protocols would include SIP/VoIP (Session Initiation Protocol/Voice over IP), Asynchronous Transfer Mode (ATM) and Frame Relay. A preferred speech recognition engine is developed by Nuance Communications of 1380 Willow Road, Menlo Park, California 94025 (www.nuance.com). The Nuance engine capacity is measured in recognition units based on CPU type as defined in the vendor specification. The natural speech recognition grammars (i.e., what a user can say that will be recognized by the speech recognition engine) were developed by Webley Systems.

[0034] Table 2 below provides a partial source code listing of the recognition grammars used by the speech recognition engine of the preferred embodiment for obtaining weather information.

TABLE 2

?WHAT_IS ?the weather ?[info information report conditions]

```

? ( (?like in )
]
UScities:n
{<param1 $n.zip> <param2 $n.city> <param3
$n.state>}
( (area code) AREA_CODE:n ) {<param1 $n>}
( AREA_CODE:n (area code) ) {<param1 $n>}
( (zip ?code) ZIP_CODE:n ) {<param1 $n>}
( ZIP_CODE:n (zip ?code) ) {<param1 $n>}
]
)
) {<menu 194>}

```

[0035] The media server 106 uses recognition results generated by the speech recognition engine 300 to retrieve a web site record 200 stored in the database 100 that can provide the information requested by the user. The media server 106 processes the recognition result data identifying keywords that are used to search the web site records 200 contained in the database 100. For instance, if the user's request was "What is the weather in Chicago?", the keywords "weather" and "Chicago" would be recognized. A web site record 200 with the highest rank number from the "weather" category within the database 100 would then be selected and transmitted to the web browsing server 102 along with an identifier indicating that Chicago weather is being requested.

[0036] The media servers 106 also contain a speech synthesis engine 302 that converts the data retrieved by the web browsing servers 102 into audio messages that are transmitted to the user's voice enabled device 112. A preferred speech synthesis engine is developed by Lernout and Hauspie Speech Products, 52 Third Avenue, Burlington, Massachusetts 01803 (www.lhsl.com).

[0037] A further description of the web browsing server 102 will be provided in relation to FIG. 4. The web browsing servers 102 provide access to any computer network such as the

Internet 110. These servers are also capable of accessing databases stored on Local Area Networks (LANs) or Wide Area Networks (WANs). The web browsing servers receive responses from web sites and extract the data requested by the user. This task is also known as “content extraction.” The web browsing servers 102 also perform the task of periodically polling or “pinging” various web sites and modifying the ranking numbers of these web sites depending upon their response and speed. This polling feature is further discussed below. The web browsing server 102 is comprised of a content extraction agent 400, a content fetcher 402, a polling and ranking agent 404, and the content descriptor files 406. Each of these are software applications and will be discussed below.

[0038] Upon receiving a web site record 200 from the database 100 in response to a user request, the web browsing server 102 invokes the “content extraction agent” command 206 contained in the record 200. The content extraction agent 400 allows the web browsing server 102 to properly format requests and read responses provided by the web site 114 identified in the URL field 204 of the web site record 200. Each content extraction agent command 206 invokes the content extraction agent and identifies a content description file associated with the web page identified by the URL 204. This content description file directs the extraction agent where to extract data from the accessed web page and how to format a response to the user utilizing that data. For example, the content description for a web page providing weather information would indicate where to insert the “city” name or ZIP code in order to retrieve Chicago weather information. Additionally, the content description file for each supported URL indicates the location on the web page where the response information is provided. The extraction agent 400 uses this information to properly extract from the web page the information requested by the user.

[0039] Table 3 below contains source code for a content extraction agent 400 used by the preferred embodiment.

TABLE 3

```
#!/usr/local/www/bin/sybper15
#$Header:
/usr/local/cvsroot/webley/agents/service/web_dispatch.pl, v
1.6
# Dispatches all web requests

#http://wcorp.itn.net/cgi/flstat?carrier=ua&flightno=155&mo
nabbr=jul&date=
6&stamp=OhLN~PdbuuE*itn/ord, itn/cb/sprint_hd
#http://cgi.cnnfn.com/flightview/rlm?airline=amt&number=300

require "config_tmp.pl";

# check parameters
die "Usage: $0 service [params]\n" if $#ARGV < 1;
#print STDERR @ARGV;
* get parameters
my ( $service, @param ) = @ARGV;

# check service
my %Services = (
    weather_cnn => 'webget.pl weather_cnn',
    weather_lycos => 'webget.pl
weather_lycos',
    weather_weather => 'webget.pl
weather_weather',
    weather_snap => 'webget.pl
weather_snap',
    weather_infospace => 'webget.pl
weather_infospace',
    stockQuote_yahoo => 'webget.pl stock',
    flightstatusitn => 'webget.pl
flight_delay',
    yellowPages_yahoo => 'yp_data.pl',
    yellowPages_yahoo => 'yp_data.pl',
    newsHeaders_newsreal => 'news.pl',
    newsArticle_newsreal => 'news.pl',

# test param
```

```

my $date = 'date';
chop ( $date );
my ( $short_date ) = $date =~ /\s+(\w{3}\s+\d{1,2})\s+\/;
my %Test = (
    weather_cnn => '60053',
    weather_lycos => '60053',
    weather_weather => '60053',
    weather_snap => '60053',
    weather_infospace => '60053',
    stockQuote_yahoo => 'msft',
    flightStatus_itn => 'ua 155 '.

$ short_date,
    yellowPages_yahoo => 'tires 60015',
    newsHeaders_newsreal => '1',
    newsArticle_newsreal => '1 1',

die "$date: $0: error: no such service: $service (check this
script) \n"
unless $Services{$service };

# prepare absolute path to run other scripts
my ( $path, $script ) = $0 =~ m|(.*/) ([^/]*);

# store the service to compare against datatable
my $service_stored = $service;
# run service
while( !( $response = '$path$Services{$service }@param' ) )
{
    # response failed
    # check with test parameters
    $response = '$path$Services{$service }$Test{$service
}';
#    print "test: $path$Services{$service }$Test{$service
}";
    if ( $response ) {
        $service = &switch_service ( $service );
#        print "Wrong parameter values were supplied:
$service -
@param\n";
#        die "$date: $0: error: wrong parameters: $service
-
@param\n";
    }
    else {
        # change priority and notify
        $service = &increase_attempt( $service );
    }
}

```

```

}
# output the response
print $response;

sub increase_attempt {
    my ( $service ) = @_;
    my ( $service_name ) = split ( /_/, $service );
    print STDERR "$date: $0: attn: changing priority for
service:
$service\n";
    # update priority
    &db_query( "update mcServiceRoute "
                . "set priority = ( select max( priority )
from
mcServiceRoute
                . "where service = '$service_name' ) + 1,
"
                . "date = getdate(), "
                . "attempt = attempt + 1 "
                . "where route = '$script $service'" );
    # print "---$route====\n";
    # find new route
    my $route = @{{&db_query( "select route from
mcServiceRoute "
                            . "where service =
'$service name'
                            . "and attempt < 5
"
                            . "order by
priority " )
                }->[ 0 ]{route } };
    &db_query( "update mcServiceRoute "
                . "set attempt = 0 "
                . "where route = '$script $service'"
                if ( $route eq "$script $service"
                    or $route eq "$script $service_stored" );
    ( $service_name, $service ) = split( /\s+/, $route );
    die "$date: $0: error: no route for the service:
$service (add
more) \n"
        unless $service;
    return $service;
}
sub switch_service {
    my ( $service ) = @_;
    my ( $service_name ) = split( /_/, $service );
    print STDERR "$date: $0: attn: changing priority for

```

```

service:
$service\n";
    # update priority
    &db_query( "update mcServiceRoute "
                . "set priority = ( select max ( priority )
from
mcServiceRoute "
                . "where service = '$service_name' ) + 1,
"
                . "date = getdate() "
                . "where route = '$script $service' " );
#    print "---$route===\n";
#    find new route
my $route = @{@&db_query( "select route from
mcServiceRoute "
                        . "where service =
'$service name' "
                        . "and attempt < 5
"
                        . "order by
priority "
                        . "}> 1 0 ){route };
die "$date: $0: error: there is the only service:
$route (add
more) \n"
    if ( $route eq "$script $service"
        or $route eq "$script $service_stored" );
( $service name, $service ) = split( /\s+/, $route );
die "$date: $0: error: no route for the service:
$service (add
more) \n"
    unless $service;
return $service;
}

```

[0074] Table 4 below contains source code of the content fetcher 402 used with the content extraction agent 400 to retrieve information from a web site.

TABLE 4

```

#!/usr/local/www/bin/sybperl5
#-T
# -w

```



```

# $Header:
/usr/local/cvsroot/webley/agents/service/webget.pl,v 1.4
# Agent to get info from the web.
# Parameters: service_name Eservice_parameters] , i.e. stock
msft or weather
60645
# configuration stored in files service_name.ini
# if this file is absent the configuration is received from
mcServices table
# This script provides autoupdate to datatable if the .ini
file is newer.

$debug = 1;
use URI::URL;
use LWP::UserAgent;
use HTTP::Request::Common;
use Vail::VarList;
use Sybase::CTlib;
use HTTP::cookies;
#print "Sybase::CTlib $DB_USR, $DB_PWD, $DB_SRV;";
open( STDERR, ">>$0.log" ) if $debug;
#open( STDERR, ">&STDOUT" );
$log = 'date';
#$response = './url.pl "http://cgi.cnn.com/cgi-bin/weather/redirect?zip=60605";
#$response = 'pwd';
#print STDERR "pwd = $response\n";
#$response = 'ls';
#print STDERR "is = $response\n";
chop( $log );
$log .= "pwd=" . 'pwd';
chop( $log );

#$debug2 = 1;
my $service = shift;
$log .= " $service: ". join( ':', @ARGV ) . "\n";
print STDERR $log if $debug;
#$response = './url.pl
"http://cgi.cnn.com/cgi-bin/weather/redirect?zip=60605";
my @ini = &read_ini ( $service );
chop( @ini );
my $section = "";
do { $section = &process_section( $section ) } while $section;
#$response = './url.pi
"http://cgi.cnn.com/cgi-bin/weather/redirect?zip=60605";
exit;

sub read_ini {

```

```

my ( $service ) = my @ini = 0;
# first, try to read file
$0 =~ m|^ (.*) [^/]*;
$service = $1 . $service;
if ( open( INI, "$service.ini" ) ) {
    @ini = ( <INI> );
    return @ini unless ( $DB_SRV );
    # update datatable
    my $file_time = time - int( ( -M "$service.ini" )

* 24 *
3600 )
#
    print "time $file_time\n";
    my $dbh = new Sybase::CTlib $DB_USR, $DB_PWD,
$DB_SRV;
    unless ( $dbh ) {
        print STDERR "webget.pl: Cannot connect to
dataserver $DB_SRV:$DB_USR:$DB_PWD\n";
        return @ini;
    }
    my @row_refs = $dbh->ct_sql( "select lastUpdate
from
mcServices where service = '$service'", undef, 1 );
    if ( $dbh->{Rc } == cs_FAIL ) {
        print STDERR "webget.pl: DB select from
mcServices
failed\n";
        return @ini;
    }
    unless ( defined @row_refs ) {
        # have to insert
        my ( @ini_escaped ) = map {
            ( my $x = $_ ) =~ } s/^\^\'\/g
        $dbh->ct_sql( "insert mcServices values(
'$service'
'@ini_escaped', $file_time ) );
        if ( $dbh->{Rc } == CS_FAIL ) {
            print STDERR "webget.pl: DB insert to
mcServices failed\n";
        }
        return @ini;
    }
#
    print "time $file_time:". $row_refs [ 0 ]-
> { 'lastUpdate'
} . "\n"
    if ( $file_time > $row_refs [ 0 ]-> { 'lastUpdate' } )
{
    # have to update

```

```

        my ( @ini_escaped ) = map {
            ( my $x = $_ ) =~ s/^\s//g;
            $x;
        } @ini;
        $dbh->ct_sql( "update mcServices set config =
'@ini_escaped', lastUpdate = $file_time where service =
'$service'" );
        if ( $dbh->{RC } == CS_FAIL ) {
            print STDERR "webget.pl: DB update to
mcServices failed\n";
        }
    }
    return @ini;
}
else {
    print STDERR "$0: WARNING: $service.ini n/a in ".
'pwd'
        . "Try to read DB\n";
}
# then try to read datatable
die "webget.pl: Unable to find service $service\n"
unless ( $DB_SRV
);
    my $dbh = new Sybase::CTlib $DB_USR, $DB_PWD, $DB_SRV;
    die "webget.pl: Cannot connect to dataserver
$DB_SRV:$DB_USR:$DB_PWD\n" unless ( $dbh );
    my @row_refs = $dbh->ct_sql( "select config from
mcServices where
service = '$service'", undef, 1 );
    die "webget.pl: DB select from mcServices failed\n" if
$dbh->{RC }
== CS_FAIL;
    die "webget.pl: Unable to find service $service\n"
unless ( defined
@row_refs );
    $row_refs [ 0 ]->{'config' } =~ s/\n /\n\r/g;
    @ini = split( /\r/, $row_refs [ 0 ]->{'config' } );
    return @ini;
}
#####
sub process_section {
    my ( $prev_section ) = my ( $section, $output, $content );
    my %Param;
    my %content;
    # print "#####\n";
    foreach ( @ini ) {
        # print;
    }
}

```

```

# chop;
s/\s+$/;
s/^\s+//;
# get section name
if ( /~\[(.*)\]/ ) {
#
    print "$_ : $section:$prev_section\n";
    last if $section;
    next if $1 eq "print";
#
    next if $prev_section ne " and $prev_section
ne$1;

    if ( $prev_section eq $1 ) {
        $prev_section = "";
        next;
    }
    $section $1;
}
# get parameters
push( @{$Param{$1}}, $2 ) if $section and
/([^\=]+)=(.*)/;
}
#
print"+++++\n";
return 0 unless $section;
#
print "section $section\n";
# substitute parameters with values
map { $Param{URL }->[ 0 ] = s/$Param{Input }->[ $_
]/$ARGV[ $_
]/g
} 0 .. $#{$Param{Input }};

# get page content
( $content{'TIME' }, $content ) = &geturlcontent(
${$Param{URL
}}[ 0 ] );

# filter it
map {
    if ( /\^( [^\"]+ )\("[^\"]*\)"\// or
/([^\v]+)\v([^\v*]\v/)
{
        my $out = $2; $content = s/$1/$out/g;
    }
} @{$Param{"Pre-filter" }};

#print STDERR $content;
# do main regular expression
unless( @values = $content =~
/ ${$Param{Regular_expression} } [ 0

```

```

\/) {
    &die_hard( ${Param{Regular_expression}} [ 0 ],
$content
);
    return $section;
}

%content = map { ( $Param{Output }->[ $_ ], $values[ $_
])
} 0 .. ${Param{Output }};

# filter it
map {
    if ( / ( [^\"]+ )\' ([^\"]+ )\'([^\"]*) \'/
        or / ( [^\v]+ )\v ( [^\v]+ )\v ( (^\v) *) \v/ ) {
        my $out = $3;
        $content{$1 } =~ s/$2/$out/g;
    }
} @ { $Param{ "Post-filter" } };

# calculate it
map
    if ( / ( [^=]+ ) = ( . * ) / ) {
        my $eval = $2;
        map { $eval =- s/$/$Content{ $ } / g
        } keys %Content;
        $content{$1 } = eval( $eval );
    }
} @ { $Param{ Calculate } };

# read section [print]
foreach $i ( 0 .. $*ini ) {
    next unless $ini[ $i ] =~ /^\[.+\/;
    foreach ( $i + 1 .. $#ini ) {
        last if $ini[ $_ ] =~ /^\[.+\/;
        $output .= $ini[ $_ ] . "\n";
    }
    last;
}
# prepare output
map { $output =~ s/$_/$Content{ $_ } / g
} keys %Content;
print $output;
return 0;
}
#####

```

```

sub get_url content {
    my ( $url ) = @_;
    print STDERR $url if $debug;
#   $response = './url.pl $url';
    $response = './url.pl $url';
    return( $time - time, $response );
    my $ua = LWP::UserAgent->new;
    $ua->agent( 'Mozilla/4.0 [en] (X11; I; FreeBSD 2.2.8-
STABLE i386)'
);
#   ua->proxy( ['http', 'https'],
'http://proxy.webley:3128/' );
#   $ua->no_proxy( 'webley', 'vail' );
    my $cookie = HTTP::Cookies->new;
    $ua->cookie_jar( $cookie );
    $url = url $url;
    print "$url\n" if $debug2;
    my $time = time;
    my $res = $ua->request( GET $uri );
    print "Response: " . ( time - $time ) . "sec\n" if
$debug2;
    return( $time - time, $res->content );
}
#####
sub die_hard {
    my( $re, $content ) =
my ( $re_end, $pattern );
    while( $content =~ /$re/ ) {
        if ( $re =~ s/ ( \ ( [^\ ( ) ] + \ ) [^\ ( ) ] *$ ) // ) {
            $re_end = $1 . $re_end;
        }
        else {
            $re_end = $re;
            last;
        }
    }
    $content =~ /$re/;
    print STDERR "The regular expression did not match:\n
$ re\n
Possible misuse:
$re_end: \n
Matched:
$&\n
Mismatched:
$'\n
" if $debug;
        if ( $debug ) {

```

```

print STDERR "Content:\n $content\n" unless
$';
    }
}

```

#####

[0075] Table 5 below contains the content descriptor file source code for obtaining weather information from the web site www.cnn.com that is used by the extraction agent 400 of the preferred embodiment.

TABLE 5

```

[cnn]
Input=_zip

```

```

URL=http://cgi.cnn.com/cgi-bin/weather/redirect?zip=zip

```

```

Pre-filter="\n"
Pre-filter="<[^<>]+>"
Pre-filter=^s+//
Pre-filter="(\\|)!"

```

```

Output=_location
Output=first_day_name
Output=first_day_weather
Output=first_day_high_F
Output=first_day_high_c
Output=first_day_low_F
Output=first_day_low_c
Output=second_day_name
Output=second_day_weather
Output=second_day_high_F
Output=second_day_high_c
Output=second_day_low_F
Output=second_day_low_c
Output=third_day_name
Output=third_day_weather
Output=third_day_high_F
Output=third_day_high_c
Output=third_day_low_F
Output=third_day_low_c

```

Output=fourth_day_name
 Output=fourth_day_weather
 Output=fourth_day_high_F
 Output=fourth_day_high_c
 Output=fourth_day_low_F
 Output=fourth_day_low_c
 Output=undef
 Output=_current_time
 Output=_current_month
 Output=_current_day
 Output=_current_weather
 Output=_current_temperature_F
 Output=_current_temperature_c
 Output=_humidity
 Output=_wind
 Output=_pressure
 Output=_sunrise
 Output=_sunset

Regular_expression=Author (.+) Four Day Forecast
 (\S+) (\S+) HIGH
 (\s+) F (\S+) C LOW (\S+) F (\S+) C (\S+) (\S+) HIGH (\S+) F
 (\S+) C LOW
 (\S+) F (\S+) C (\S+) (\S+) HIGH (\S+) F (\S+) C LOW (\S+) F
 (\S+) C (\S+)
 (\S+) HIGH (\S+) F (\S+) C LOW (\S+) F (\S+) C (.+) Current
 Conditions(.+)
 !local!, (\S+) (\S+) (.+) Temp: (\S+) F, (\S+) C Rel.
 Humidity: (\S+) Wind:
 (.+) Pressure: (.+) Sunrise: (.+) Sunset: (.+) Related Links

Post-filter=_current_weather"p/"partly"
 Post-filter=_current_weather"l/"little"
 Post-filter=_current_weather"m/"mostly"
 Post-filter=_current_weathen"t-/"thunder"
 Post-filter=_wind"N"North"
 Post-filter=_wind"E"East"
 Post-filter=_wind"s"South"
 Post-filter=_wind"W"West"
 Post-filter=_wind/mph/miles per hour/
 Post-filter=_wind/kph! /kilometers per hour/
 Post-filter=_wind"s+!"",

[print]
 Current weather in _location is _current_weather.
 Temperature is _current_temperature_F Fahrenheit,
 _current_temperature_C

Celsius.
Humidity is _humidity.
Wind from the _wind.

[0076] Table 6 below contains the content descriptor file source code for obtaining weather information from the web site www.lycos.com that is used by the extraction agent 400 of the preferred embodiment.

TABLE 6

[lycos]

Input=zip
Input=_city

URL=http://weather.lycos.com/wcfiveday.asp?city=zip

Pre-filter="\n"
Pne-filter="</TD>"td"
Pre-filter="<!.*?_>"
Pre-filter="
" br_ "
Pre-filter="/alt"/>alt="/
Pre-filter="<[^<>]+>"
Pre-filter=" "
Pre-filter="/s+//

Output=_location
Output=_current_weather
Output=_current_temperature_F
Output=_humidity
Output=_winddir
Output=_windspeed
Output=_windmeasure
Output=_pressure
Output=first_day_name
Output=second_day_name
Output=third_day_name
Output=fourth_day_name
Output=fifth_day_name
Output=first_day_weather
Output=second_day_weather
Output=third_day_weather

Output=fourth_day_weather
 Output=fifth_day_weather
 Output=first_day_high_F
 Output=first_day_low_F
 Output=second_day_high_F
 Output=second_day_low_F
 Output=third_day_high_F
 Output=third_day_low_F
 Output=fourth_day_high_F
 Output=fourth_day_low_F
 Output=fifth_day_high_F
 Output=fifth_day_low_F
 Output=_windkmh

Regular expression=Guide My Lycos (.+) Click image to enlarge

alt=([^\"]+)"(?: Temp: (\d+)(?:.+)F _br_ Humidity:
 (\S+) (?: .+) Wind:
 br

Output =_current_temperature_C

Post-filter=_location"_br_"
 Post-filter=_current_weather"p/"partly"
 Post-filter=_current_weather"m/"mostly"
 Post-filter=_current_weather"t-/"thunder"
 Post-filter=_winddir"@ " at"
 Post-filter=_winddir/mpH/miles per hour/
 Post-filter=_wind/kph!/kilometers per hour/

Calculate=_current_temperature_C=int ((_current_temperature_F -32) *5/9)

Calculate=_windkmh=int (_windspeed*1.6)

[print]

The current weather in _location is _current_weather.
 The current temperature is _current_temperature_F Fahrenheit
 _current_temperature_C Celsius.
 Humidity is _humidity.

Winds _winddir.

[0077] Once the web browsing server 102 accesses the web site specified in the URL 204 and retrieves the requested information, the information is forwarded to the media server

106. The media server uses the speech synthesis engine 302 to create an audio message that is then transmitted to the user's voice enabled device 112. In the preferred embodiment, each web browsing server 102 is based upon Intel's Dual Pentium III 730 MHz microprocessor system.

[0078] Referring to FIG. 1, the operation of the robust voice browser system will be described. A user establishes a connection between his voice enabled device 112 and a media server 106. This may be done using the Public Switched Telephone Network (PSTN) 116 by calling a telephone number associated with the voice browsing system 118. Once the connection is established, the media server 106 initiates an interactive voice response (WR) application 304. The IVR application plays audio messages to the user presenting a list of options, such as, "stock quotes", "flight status", "yellow pages", "weather", and "news". These options are based upon the available web site categories and may be modified as desired. The user selects the desired option by speaking the name of the option into the voice enabled device 112.

[0079] As an example, if a user wishes to obtain restaurant information, he may speak into his telephone the phrase "yellow pages". The FIR application would then ask the user what he would like to find and the user may respond by stating "restaurants". The user may then be provided with further options related to searching for the desired restaurant. For instance, the user may be provided with the following restaurant options, "Mexican Restaurants", "Italian Restaurants", or "American Restaurants". The user then speaks into the telephone 112 the restaurant type of interest. The IVR application running on the media server 106 may also request additional information limiting the geographic scope of the restaurants to be reported to the user. For instance, the IVR application may ask the user to identify the zip code of the area where the restaurant should be located. The media

server 106 uses the speech recognition engine 300 to interpret the speech commands received from the user. Based upon these commands, the media server 106 retrieves the appropriate web site record 200 from the database 100. This record and any additional data, which may include other necessary parameters needed to perform the user's request, are transmitted to a web browsing server 102. A firewall 104 may be provided that separates the web browsing server 102 from the database 100 and media server 106. The firewall provides protection to the media server and database by preventing unauthorized access in the event the firewall for web browsing server 108 fails or is compromised. Any type of firewall protection technique commonly known to one skilled in the art could be used, including packet filter, proxy server, application gateway, or circuit-level gateway techniques.

[0080] The web browsing server 102 then uses the web site record and any additional data and executes the extraction agent 400 and relevant content descriptor file 406 to retrieve the requested information.

[0081] The information received from the responding web site 114 is then processed by the web browsing server 102 according to the content descriptor file 406 retrieval by the extraction agent. This processed response is then transmitted to the media server 106 for conversion into audio messages using either the speech synthesis software 302 or selecting among a database of prerecorded voice responses contained within the database 100.

[0082] As mentioned above, each web site record contains a rank number 202 as shown in FIG. 2. For each category searchable by a user, the database 100 may list several web sites, each with a different rank number 202. As an example, three different web sites may be listed as searchable under the category of "restaurants". Each of those web sites will be assigned a rank number such as 1, 2, or 3. The site with the highest rank (i.e., rank = 1)

will be the first web site accessed by a web browsing server 102. If the information requested by the user cannot be found at this first web site, then the web browsing server 102 will search the second ranked web site and so forth down the line until the requested information is retrieved or no more web sites left to check.

[0083] The web site ranking method and system of the present invention provides robustness to the voice browser system and enables it to adapt to changes that may occur as web sites evolve. For instance, the information required by a web site 114 to perform a search or the format of the reported response data may change. Without the ability to adequately monitor and detect these changes, a search requested by a user may provide an incomplete response, no response, or an error. Such useless responses may result from incomplete data being provided to the web site 114 or the web browsing server 102 being unable to recognize the response data messages received from the searched web site 114.

[0084] The robustness and reliability of the voice browsing system of the present invention is further improved by the addition of a polling mechanism. This polling mechanism continually polls or “pings” each of the sites listed in the database 100. During this polling function, a web browsing server 102 sends brief data requests or “polling digital data” to each web site listed in database 100. The web browsing server 102 monitors the response received from each web site and determines whether it is a complete response and whether the response is in the expected format specified by the content descriptor file 406 used by the extraction agent 400. The polled web sites that provide complete responses in the format expected by the extraction agent 400 have their ranking established based on their “response time”. That is, web sites with faster response times will be assigned higher rankings than those with slower response times. If the web browsing server 102 receives no response from the polled web site or if the response received is not in the

expected format, then the rank of that web site is lowered. Additionally, the web browsing server contains a warning mechanism that generates a warning message or alarm for the system administrator indicating that the specified web site has been modified or is not responsive and requires further review.

[0085] Since the web browsing servers 102 access web sites based upon their ranking number, only those web sites that produce useful and error-free responses will be used by the voice browser system to gather information requested by the user. Further, since the ranking numbers are also based upon the speed of a web site in providing responses, only the most time efficient sites are accessed. This system assures that users will get complete, timely, and relevant responses to their requests. Without this feature, users may be provided with information that is not relevant to their request or may not get any information at all. The constant polling and re-ranking of the web sites used within each category allows the voice browser of the present invention to operate efficiently. Finally, it allows the voice browser system of the present invention to dynamically adapt to changes in the rapidly evolving web sites that exist on the Internet.

[0086]:It should be noted that the web sites accessible by the voice browser of the preferred embodiment may use any type of mark-up language, including Extensible Markup Language (XML), Wireless Markup Language (WML), Handheld Device Markup Language (HDML), Hyper Text Markup Language (HTML), or any variation of these languages.

[0087] A second embodiment of the present invention is depicted in FIG. 5. This embodiment provides a system and method for controlling a variety of devices 500 connected to a network 502 by using conversational speech commands spoken into a voice enabled device 504 (i.e., wireline or wireless telephones, Internet Protocol (IP) phones, or

other special wireless units). The networked devices may include various household devices. For instance, voice commands may be used to control household security systems, VCRs, TVs, outdoor or indoor lighting, sprinklers, or heating and air conditioning systems. [0088] Each of these devices 500 is connected to a network 502. These devices 500 may contain embedded microprocessors or may be connected to other computer equipment that allow the device 500 to communicate with network 502. In the preferred embodiment, the devices 500 appear as “web sites” connected to the network 502. This allows a network interface system, such as a device browsing server 506, a database 508, and a user interface system, such as a media server 510, to operate similar to the web browsing server 102, database 100 and media server 106 described in the first preferred embodiment above. A network 502 interfaces with one or more network interface systems, which are shown as device browsing servers 506 in FIG. 5. The device browsing servers perform many of the same functions and operate in much the same way as the web browsing servers 102 discussed above in the first preferred embodiment. The device browsing servers 506 are also connected to a database 508.

[0089] Database 508 lists all devices that are connected to the network 502. For each device 500, the database 508 contains a record similar to that shown in FIG. 2. Each record will contain at least a device identifier, which may be in the form of a URL, and a command to “content extraction agent” contained in the device browsing server 506. Database 508 may also include any other data or software necessary to test and administer the device browsing system.

[0090] The content extraction agent operates similarly to that described in the first embodiment. A device descriptor file contains a listing of the options and functions available for each of the devices 500 connected on the network 502. Furthermore, the

device descriptor file contains the information necessary to properly communicate with the networked devices 500. Such information would include, for example, communication protocols, message formatting requirements, and required operating parameters.

[0091] The device browsing server 506 receives messages from the various networked devices 500, appropriately formats those messages and transmits them to one or more media servers 510 which are part of the device browsing system. The user's voice enabled devices 504 can access the device browsing system by calling into a media server 510 via the Public Switched Telephone Network (PSTN) 512. In the preferred embodiment, the device browsing server is based upon Intel's Dual Pentium III 730 MHz microprocessor system.

[0092] The media servers 510 act as user interface systems and perform the functions of natural speech recognition, speech synthesis, data processing, and call handling. The media server 510 operates similarly to the media server 106 depicted in FIG. 3. When data is received from the device browser server 506, the media server 510 will convert the data into audio messages via a speech synthesis engine that are then transmitted to the voice enabled device of the user 504. Speech commands received from the voice enabled device of the user 504 are converted into data messages via a speech recognition engine running on the media server 510. A preferred speech recognition engine is developed by Nuance Communications of 1380 Willow Road, Menlo Park, California 94025 (www.nuance.com). A preferred speech synthesis engine is developed by Lernout and Hauspie Speech Products, 52 Third Avenue, Burlington, Massachusetts 01803 (www.lhsl.com). The media servers 510 of the preferred embodiment are based on Intel's Dual Pentium III 730 MHz microprocessor system. A specific example for using the system and method of this embodiment of the invention will now be given.

[0093] First, a user may call into a media server 510 by dialing a telephone number associated with an established device browsing system. Once the user is connected, the IVR application of the media server 510 will provide the user with a list of available systems that may be monitored or controlled based upon information contained in database 508.

[0094] For example, the user may be provided with the option to select "Home Systems" or "Office Systems". The user may then speak the command "access home systems". The media server 510 would then access the database 508 and provide the user with a listing of the home subsystems or devices 500 available on the network 502 for the user to monitor and control. For instance, the user may be given a listing of subsystems such as "Outdoor Lighting System", "Indoor Lighting System", "Security System", or "Heating and Air Conditioning System". The user may then select the indoor lighting subsystem by speaking the command "Indoor Lighting System". The IVR application would then provide the user with a set of options related to the indoor lighting system. For instance the media server 510 may then provide a listing such as "Dining Room", "Living Room", "Kitchen", or "Bedroom". After selecting the desired room, the IVR application would provide the user with the options to hear the "status" of the lighting in that room or to "turn on", "turn off", or "dim" the lighting in the desired room. These commands are provided by the user by speaking the desired command into the users voice enabled device 504. The media server 510 receives this command and translates it into a data message. This data message is then forwarded to the device browsing server 506 which routes the message to the appropriate device 500.

[0095] The device browsing system 514 of this embodiment of the present invention also provides the same robustness and reliability features described in the first embodiment.

The device browsing system 514 has the ability to detect whether new devices have been added to the system or whether current devices are out-of-service. This robustness is achieved by periodically polling or “pinging” all devices 500 listed in database 508. The device browsing server 506 periodically polls each device 500 and monitors the response. If the device browsing server 506 receives a recognized and expected response from the polled device, then the device is categorized as being recognized and in-service. However, if the device browsing server 506 does not receive a response from the polled device 500 or receives an unexpected response, then the device 500 is marked as being either new or out-of-service. A warning message or a report may then be generated for the user indicating that a new device has been detected or that an existing device is experiencing trouble.

[0095] Therefore, this embodiment allows users to remotely monitor and control any devices that are connected to a network, such as devices within a home or office. Furthermore, no special telecommunications equipment is required for users to remotely access the device browser system. Users may use any type of voice enabled device (i.e., wireline or wireless telephones, IP phones, or other wireless units) available to them. Furthermore, a user may perform these functions from anywhere without having to subscribe to additional services. Therefore, no additional expenses are incurred by the user.

[0097] The descriptions of the preferred embodiments described above are set forth for illustrative purposes and are not intended to limit the present invention in any manner. Equivalent approaches are intended to be included within the scope of the present invention. While the present invention has been described with reference to the particular embodiments illustrated, those skilled in the art will recognize that many changes and variations may be made thereto without departing from the spirit and scope of the present

invention. These embodiments and obvious variations thereof are contemplated as falling within the scope and spirit of the claimed invention.

CLAIMS

What is claimed is:

1. A method for retrieving information from pre-selected web sites by uttering speech commands into a voice enabled device and for providing to users retrieved information in an audio form via said voice enabled device, said method comprising the steps of:

providing a computer operatively connected to the internet, said computer further being operatively connected to at least one speaker-independent speech recognition engine and to at least one speech synthesis engine;

providing a voice enabled device operatively connected to said computer, said voice enabled device configured to receive speech commands from users;

providing at least one instruction set stored in a database operatively connected to said computer, said instruction set comprising:

a plurality of pre-selected web site addresses, each said web site address identifying a web site containing said information to be retrieved;

providing a speech command to said speaker-independent speech recognition engine, said speech command corresponding to said instruction set;

said speaker-independent speech recognition engine assigning said speech command to a recognition grammar, said speech command and said recognition grammar corresponding to said instruction set;

transmitting said speech command to said speaker-independent speech recognition engine;

said speaker-independent speech recognition engine receiving said speech command and selecting the corresponding recognition grammar upon receiving said speech command;

said computer retrieving said instruction set corresponding to said recognition grammar selected by said speaker-independent speech recognition engine;

said computer accessing at least one of said plurality of web sites identified by said instruction set to obtain said information to be retrieved, said computer first accessing said first web site of said plurality of web sites and, if said information to be retrieved is not found at said first web site, said computer sequentially accessing said plurality of web sites

until said information to be retrieved is found or until said plurality of web sites has been accessed;

said speech synthesis engine producing an audio message containing any retrieved information from said pre-selected web sites; and

said speech synthesis engine transmitting said audio message to said users via said voice enabled device.

2. The method of claim 1 wherein said instruction set further comprises a content descriptor associated with each said web site address, said content descriptor pre-defining a portion of said web site containing said information to be retrieved.

3. The method of claim 1 wherein said instruction set further comprises a ranking from highest to lowest associated with each said web site, said ranking indicating the order in which the plurality of pre-selected web sites are accessed.

4. The method of claim 3 wherein said computer accesses said plurality of web sites based on said ranking, said computer first accessing said web site having the highest ranking.

5. The method of claim 4 further comprising the step of adjusting said rankings associated with said plurality of web sites such that said web site having said information to be retrieved is assigned the highest ranking and any web sites not having said information to be retrieved are assigned lower rankings.

6. The method of claim 1 further comprising the step of periodically polling each said web site to determine whether said web site contains said information to be retrieved.

7. The method of claim 6 wherein the computer periodically polls each said web site without being instructed by said user to determine the availability of each said web site, the duration of time for each said web site to respond to a request from said computer, and changes to the location of said information to be retrieved from each said web site, said computer creating a ranking of said plurality of web sites based on said periodic polling.

8. The method of claim 1 further comprising the step of periodically searching said internet to find new web sites containing said information to be retrieved, and adding said new web sites to said plurality of web sites.

9. A system for retrieving information from pre-selected web sites by uttering speech commands into a phone and for providing to users retrieved information in an audio form via said phone, said system comprising:

a computer, said computer operatively connected to the internet and to at least one phone;

at least one speaker-independent speech recognition engine, said speaker-independent speech recognition engine operatively connected to said computer;

at least one speech synthesis engine, said speech synthesis engine operatively connected to said computer;

a database, said database operatively connected to said computer;

at least one instruction set stored in said database for identifying said information to be retrieved, said instruction set comprising:

a plurality of pre-selected web site addresses, each said web site address identifying a web site containing said information to be retrieved;

a content descriptor associated with each said web site address, said content descriptor pre-defining a portion of said web site containing said information to be retrieved;

a ranking from highest to lowest associated with each said web site address, said ranking indicating the order in which the plurality of pre-selected web sites are accessed;

at least one recognition grammar stored in said database, each said recognition grammar corresponding to each said instruction set and corresponding to a speech command;

said speaker-independent speech recognition engine configured to receive from users via said phone a speech command and to select the corresponding recognition grammar upon receiving said speech command;

said computer configured to retrieve said instruction set corresponding to said recognition grammar selected by said speaker-independent speech recognition device;

said computer further configured to access at least one of said plurality of web sites identified by said instruction set to obtain said information to be retrieved, said computer configured to first access said web site having the highest ranking and, if said information to be retrieved is not found at said web site having the highest ranking, said computer configured to subsequently access said plurality of web sites in order of rankings until said information to be retrieved is found or until said plurality of web sites has been accessed;

said computer further configured to establish or adjust said rankings associated with said plurality of web sites such that said web site having said information to be retrieved is assigned the highest ranking and any web sites not having said information to be retrieved are assigned lower rankings;

said speech synthesis engine configured to produce an audio message containing any retrieved information from said pre-selected web sites, and said speech synthesis engine further configured to transmit said audio message to said users via said phone.

10. The system of claim 9 wherein said phone comprises a standard telephone, a cellular phone, or an IP phone.

11. The system of claim 9 wherein said internet is a local area network.

12. The system of claim 9 wherein said internet is a wide area network.

13. The system of claim 9 wherein said internet is the Internet.

14. The system of claim 9 wherein said computer is configured to establish or adjust said rankings associated with said plurality of web sites when instructed by said user to access said plurality of web sites to retrieve said information.

15. The system of claim 9 wherein said computer is configured to establish or adjust said rankings associated with said plurality of web sites based on periodic polling of each of said web sites without being instructed by said user to determine the availability of each said web site, the duration of time for each said web site to respond to a request from said computer, and changes to the location of said information to be retrieved from each said

web site.

ABSTRACT

The present invention relates to a system for acquiring information from sources on a network, such as the Internet. A voice browsing system maintains a database containing a list of information sources, such as web sites, connected to a network. Each of the information sources is assigned a rank number which is listed in the database along with the record for the information source. In response to a speech command received from a user, a network interface system accesses the information source with the highest rank number in order to retrieve information requested by the user.

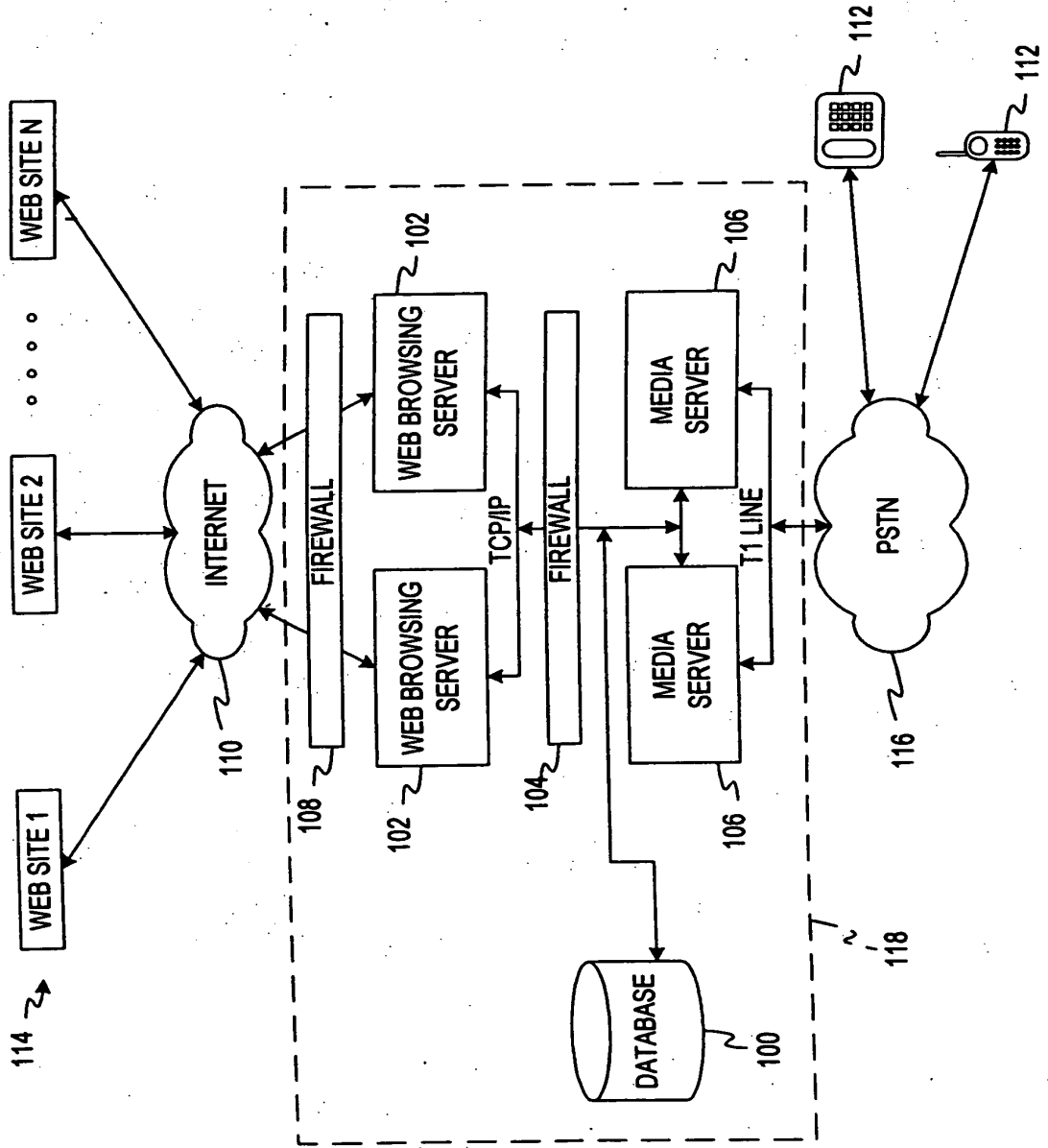


FIG. 1

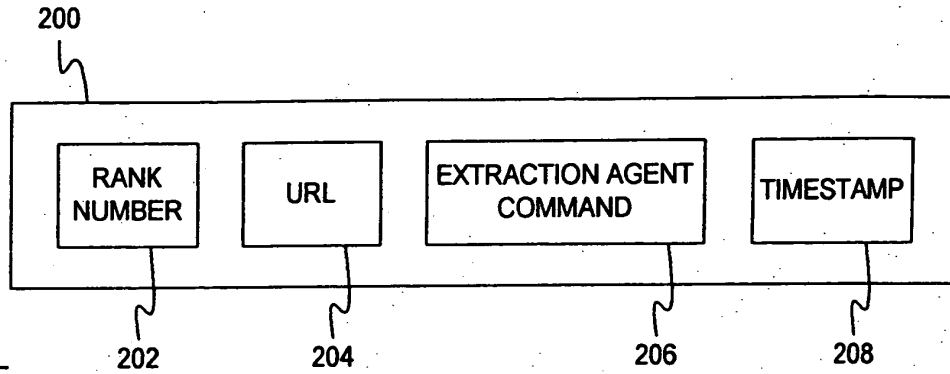


FIG. 2

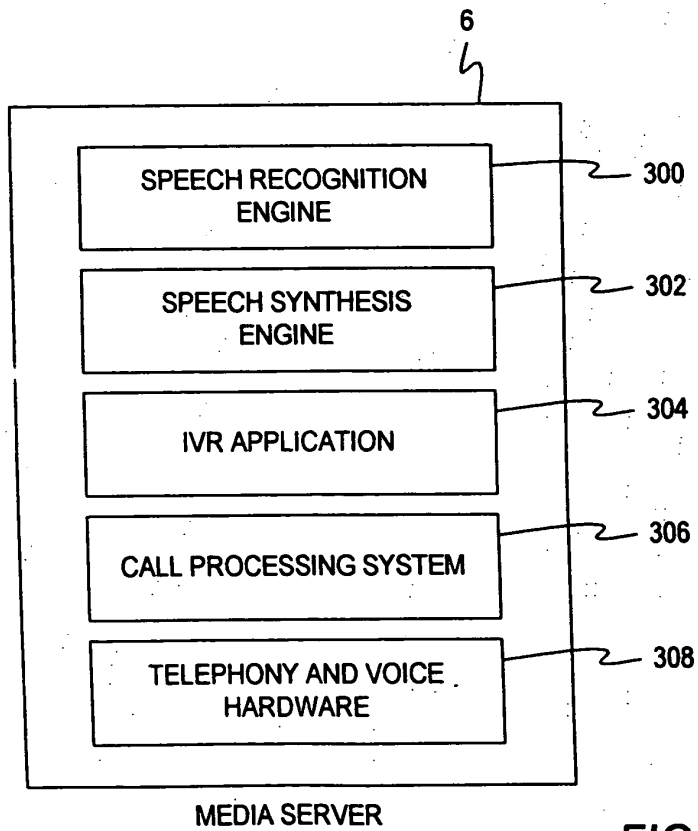


FIG. 3

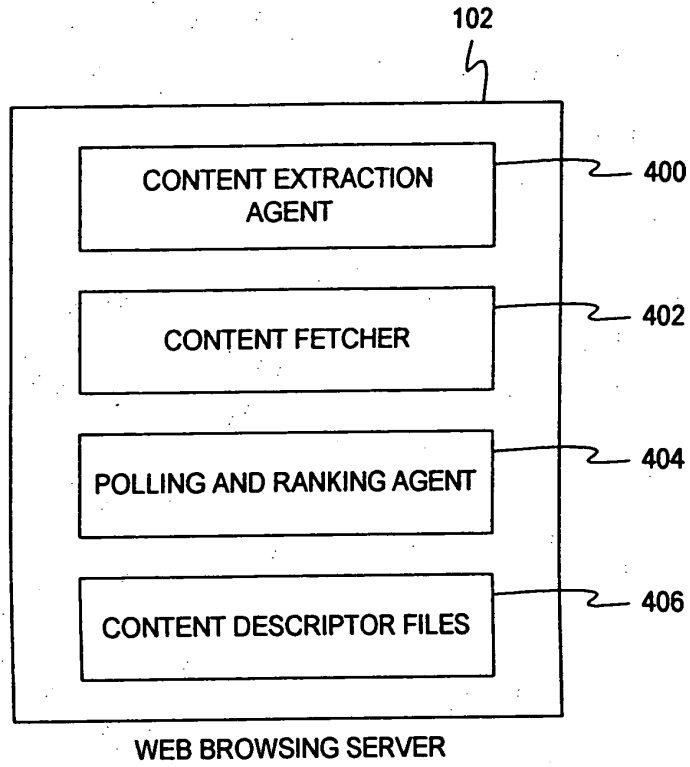


FIG. 4

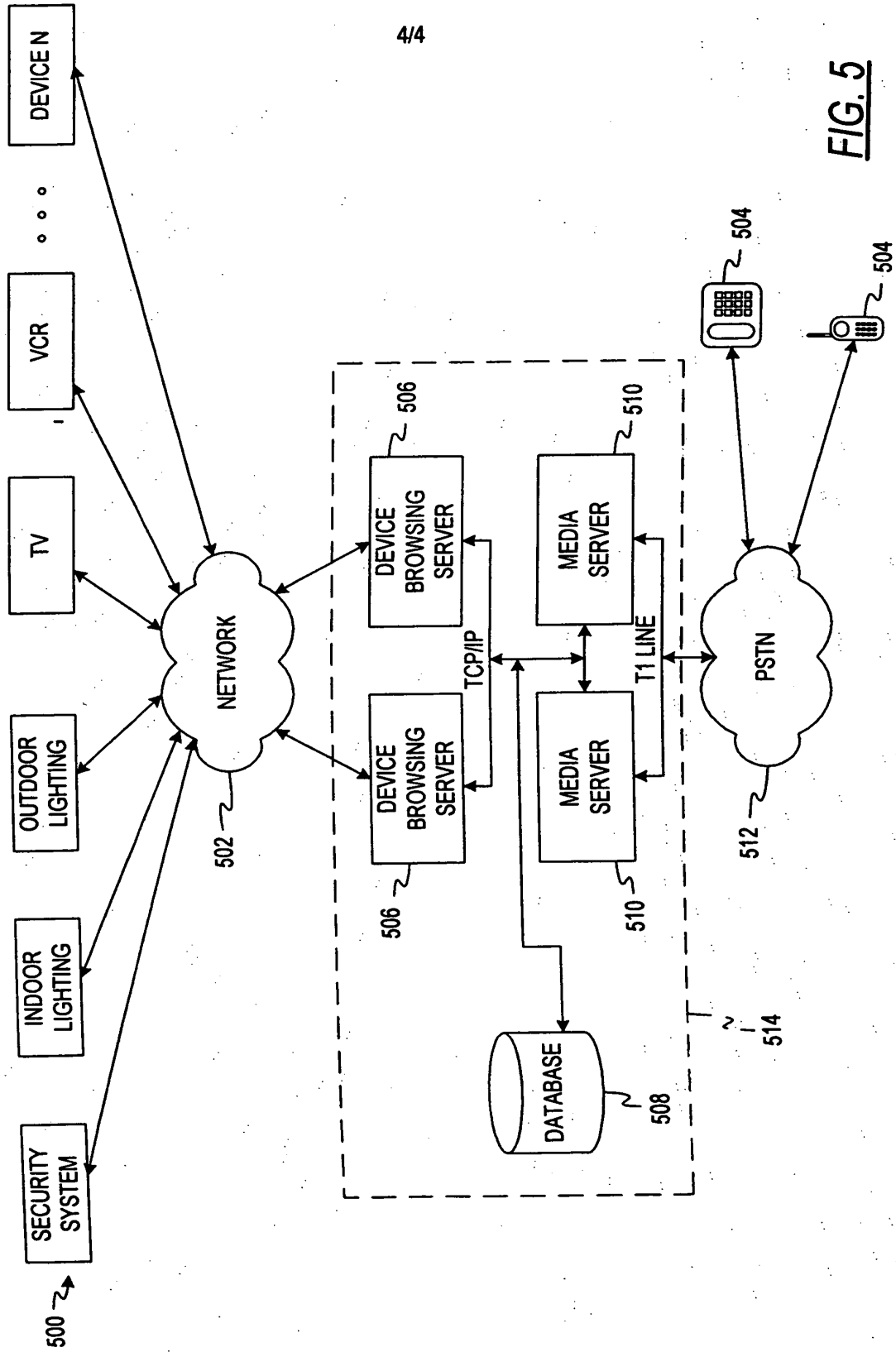


FIG. 5

**RULES 63 AND 67 (37 C.F.R. 1.63 and 1.67)
DECLARATION AND POWER OF ATTORNEY**

FOR UTILITY/DESIGN/CIP/PCT NATIONAL APPLICATIONS

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;
and

I believe that I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER**, the specification of which: (mark only one)

- (a) is attached hereto.
- (b) was filed on February 5, 2001 as Application Serial No. 09/776,996 and was amended on _____ (if applicable)
- (c) was filed as PCT International Application No. PCT/_____ on _____ and was amended on _____ (if applicable).
- (d) was filed on _____ as Application Serial No. _____ and was issued a Notice of Allowance on _____.
- (e) was filed on _____ and bearing attorney docket number _____

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above or as allowed as indicated above.

I acknowledge the duty to disclose all information known to me to be material to the patentability of this application as defined in 37 CFR § 1.56. If this is a continuation-in-part (CIP) application, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability of the application as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

I hereby claim foreign priority benefits under 35 U.S.C. § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate filed by me or my assignee

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disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which my priority is claimed or, (2) if no priority is claimed, before the filing date of this application:

PRIOR FOREIGN PATENTS

<u>Number</u>	<u>Country</u>	<u>Month/Day/Year Filed</u>	<u>Date first laid-open or Published</u>	<u>Date patented or Granted</u>	<u>Priority Claimed</u>	
					<u>Yes</u>	<u>No</u>
NONE						

I hereby claim the benefit under 35 U.S.C. § 120/365 of any United States application(s) listed below and PCT international applications listed above or below:

PRIOR U.S. OR PCT APPLICATIONS

<u>Application No. (series code/serial no.)</u>	<u>Month/Day/Year Filed</u>	<u>Status(pending, abandoned, patented)</u>
60/180,344	February 4, 2000	Pending
60/233,068	September 15, 2000	Pending

I hereby appoint:

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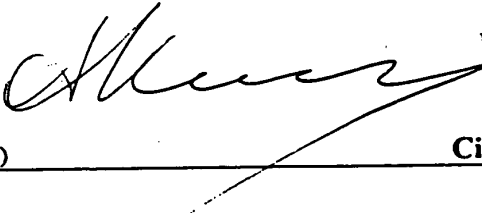
whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct them in writing to the contrary.

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PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

04/26/2006 SSITHIB1 00000020 110404 11409703

01 FC:2011	150.00 DA
02 FC:2111	250.00 DA
03 FC:2311	100.00 DA

PTO-1556
(5/87)

*U.S. Government Printing Office: 2002 — 489-267/80033

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PATENT APPLICATION FEE DETERMINATION RECORD
 Substitute for Form PTO-875 Effective December 8, 2004

Application or Docket Number
 11409703

APPLICATION AS FILED - PART I			SMALL ENTITY		OTHER THAN SMALL ENTITY	
(Column 1)	(Column 2)		RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)
FOR	NUMBER FILED	NUMBER EXTRA				
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	150.00	N/A	300.00
SEARCH FEE (37 CFR 1.18(l), (n), or (m))	N/A	N/A	N/A	250	N/A	500
EXAMINATION FEE (37 CFR 1.18(o), (p), or (q))	N/A	N/A	N/A	100	N/A	200
TOTAL CLAIMS (37 CFR 1.16(i))	15	minus 20 =	X\$ 25 =		X\$50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	X100 =		X200 =	
APPLICATION SIZE FEE (37 CFR 1.16(e))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 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))			+180=		+360=	
			TOTAL	500	TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED - PART II					SMALL ENTITY		OTHER THAN SMALL ENTITY	
(Column 1)	(Column 2)		(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA					
Total (37 CFR 1.16(i))	Minus	**	=	X\$ 25 =		X\$50 =		
Independent (37 CFR 1.16(h))	Minus	***	=	X100 =		X200 =		
Application Size Fee (37 CFR 1.16(s))								
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				+180=		+360=		
				TOTAL ADD'L FEE		TOTAL ADD'L FEE		

(Column 1)	(Column 2)		(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA				
Total (37 CFR 1.16(i))	Minus	**	=	X\$ 25 =		X\$50 =	
Independent (37 CFR 1.16(h))	Minus	***	=	X100 =		X200 =	
Application Size Fee (37 CFR 1.16(s))							
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				+180=		+360=	
				TOTAL ADD'L FEE		TOTAL ADD'L FEE	

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

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

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