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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/269,776	09/19/2016	Alexander Kurganov	10115-05709 US

CONFIRMATION NO. 2723

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

IMPROPER CFR REQUEST

OC000000089196311

Date Mailed: 02/14/2017

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Continuity, Priority Claims, Petitions, and Non-Publication Requests

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The priority or continuity claim has not been entered because it was not filed during the required time period. Applicant may wish to consider filing a petition to accept an unintentionally delayed claim for priority. See 37 CFR 1.55 or 1.78.

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

/hsarwari/

Exhibit F

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/269,776	09/19/2016	2447	1200	10115-05709 US	30	2

CONFIRMATION NO. 2723

FILING RECEIPT

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

Date Mailed: 10/07/2016

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Alexander Kurganov, Buffalo Grove, IL;

Applicant(s)

Parus Holdings, Inc., Bannockburn, IL;

Power of Attorney: None

This application is a CON of 13/462,819 05/03/2012
which is a CON of 12/973,475 12/20/2010 PAT 8185402
which is a CON of 12/030,556 02/13/2008 PAT 7881941
which is a CON of 11/409,703 04/24/2006 PAT 7366466
which is a CON of 10/821,690 04/09/2004 PAT 7076431
which is a CON of 09/776,396 02/05/2001 PAT 6721705
which claims benefit of 60/180,344 02/04/2000
and claims benefit of 60/233,068 09/15/2000

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 10/06/2016

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/269,776**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No
** **SMALL ENTITY** **
Title

Robust voice browser system and voice activated device controller

Preliminary Class

709

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

FIRST INVENTOR:	Alexander Kurganov
APPLICATION NO:	15/269,776
FILING DATE:	September 19, 2016
TITLE:	Robust Voice Browser System and Voice Activated Device Controller
EXAMINER:	Vijay B. Chawan
GROUP ART UNIT:	2658
ATTY. DKT. NO:	10115-05709 US
CONFIRMATION NO:	2723

CERTIFICATE OF EFS-WEB TRANSMISSION

Pursuant to 240 OG 45 and the Legal Framework For EFS-Web, I hereby certify that this follow-on correspondence is being officially submitted through the USPTO EFS-Web system from the Eastern Time Zone of the United States on the local date shown below:

Dated: May 18, 2017 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830

COMMISSIONER FOR PATENTS
OFFICE OF INITIAL PATENT EXAMINATION
CUSTOMER SERVICE CENTER
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

THIRD REQUEST FOR CORRECTED FILING RECEIPT

Sir/Madam:

A first and second Request for Corrected Filing Receipt and Substitute Application Data Sheets were filed on September 20, 2016, and September 21, 2016, respectively, upon noting first that the original Application Data Sheet filed on September 19, 2016, inadvertently requested non-publication of the continuation application, and noting subsequently that this original Application Data Sheet was inconsistent with the correct chain of priority indicated in

the Cross-Reference Section of the continuation application (copy of Cross-Reference Section set forth below and attached as Exhibit A):

This application is a continuation of Application Serial No. 13/462,819, entitled "Robust Voice Browser System and Voice Activated Device Controller," filed May 3, 2012, which is a continuation of Application Serial No. 12/973,475, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed December 20, 2010, which is a continuation of Application Serial No. 12/030,556, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 13, 2008, now U.S. Patent No. 7,881,941, which is a continuation application of Application Serial No. 11/409,703, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 24, 2006, now US Patent No. 7,386,455, which is a continuation application of Application Serial No. 10/821,690, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 9, 2004, now US Patent No. 7,076,431, which is a continuation application of Application Serial No. 09/776,996, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 5, 2001, now US Patent No. 6,721,705, which claims priority to U.S. Provisional Application Serial No. 60/180,344, entitled "Voice Activated Information Retrieval System," filed February 4, 2000 and U.S. Provisional Application No. 60/233,068, filed September 15, 2000, entitled "Robust Voice Browser System and Voice Activated Device Controller, all assigned to the assignee of the present application. The subject matter in the above-identified co-pending and commonly owned applications is incorporated herein by reference.

No response to either the first and second Requests were received from the U.S. Patent Office. A filing receipt that was received on October 7th, 2016, indicated no priority chain and acknowledged a non-publication request (the original Application Data Sheet submitted on September 19, 2016).

Because this continuation application was filed under prioritized examination (track 1), and further to telephone conversations with the U.S. Patent Office's Applications Assistant Unit on February 9, 2017, another Request (third) for Corrected Filing Receipt and Substitute Application Data Sheet was filed on February 10, 2017. This third Request was denied as improper on the basis that the Request was not filed within the allotted time for correcting priority. Yet, Applicant has received no answer to the first and second Requests filed immediately after the continuation application was filed on September 19, 2016. The first and

second Requests were timely filed within the allotted period and the third Request was to follow up.

In the interest of resolving this matter, this third Request is resubmitted with a petition and payment of an appropriate fee although these should not be required. A corrected Filing Receipt indicating the correct chain of priority is respectfully requested.

Respectfully submitted,

Dated: May 18, 2017 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830
Of
PATENT LAW WORKS LLP
201 South Main Street, Suite 250
Salt Lake City, UT 84111
Tel.: (650) 537-4509
Fax: (801) 355-0160
Email: rkuyper@patentlawworks.net

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alexander		Kurganov	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Buffalo Grove	State/Province	IL	Country of Residence	US

Mailing Address of Inventor:

Address 1	c/o Parus Holdings, Inc.		
Address 2	3000 Lakeside Drive, Suite 110S		
City	Bannockburn	State/Province	IL
Postal Code	60015	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	93219		
Email Address	docketing@patentlawworks.net	Add Email	Remove Email

Application Information:

Title of the Invention	Robust Voice Browser System and Voice Activated Device Controller		
Attorney Docket Number	10115-05709 US	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	93219		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	13462819	2012-05-03

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13462819	Continuation of	12973475	2010-12-20	8185402	2012-05-22
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12973475	Continuation of	12030556	2008-02-13	7881941	2011-02-01
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12030556	Continuation of	11409703	2006-04-24	7386455	2008-06-10
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11409703	Continuation of	10821690	2004-04-09	7076431	2006-07-11
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
10821690	Continuation of	09776996	2001-02-05	6721705	2004-04-13
Prior Application Status	Expired			Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
09776996	Claims benefit of provisional	60180344	2000-02-04		
Prior Application Status	Expired			Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
09776996	Claims benefit of provisional	60233068	2000-09-15		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

			Remove
Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (11-15)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Parus Holdings, Inc.

Mailing Address Information For Applicant:

Address 1	3000 Lakeside Drive, Suite 110S		
Address 2			
City	Bannockburn	**State/Province**	IL
Country	US	Postal Code	60015
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (11-15)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Reena Kuyper/			Date (YYYY-MM-DD)	2017-05-18
First Name	Reena	Last Name	Kuyper	Registration Number	33830

Additional Signature may be generated within this form by selecting the Add button.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	15269776
Filing Date:	19-Sep-2016
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Filer:	Reena Kuyper/Jodee Butler
Attorney Docket Number:	10115-05709 US

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
PET. DELAY SUB OR RESTORE PRIORITY-CLAIM	2454	1	850	850
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**850**

Electronic Acknowledgement Receipt	
EFS ID:	29253849
Application Number:	15269776
International Application Number:	
Confirmation Number:	2723
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	93219
Filer:	Reena Kuyper
Filer Authorized By:	
Attorney Docket Number:	10115-05709 US
Receipt Date:	18-MAY-2017
Filing Date:	19-SEP-2016
Time Stamp:	20:15:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$850
RAM confirmation Number	051917INTEFSW20194900
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the Office of Petitions	05709US_20170518_PetitionRePriority.pdf	872782 ce8436698a45233d538125d025f116f01e740911	no	60
Warnings:					
Information:					
2	Request for Corrected Filing Receipt	05709US_20170518_RequestCorrOFR.pdf	95304 8f2646b8986b57f231e4c5f2d3f8647f9ce8fa2b	no	3
Warnings:					
Information:					
3	Application Data Sheet	05709US_20170518_SubstituteADS.pdf	94633 8f47e6e64022693a5d18288467e90560f50b45a3	no	9
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
4	Fee Worksheet (SB06)	fee-info.pdf	30728 d0fa4b7e93c883a0b7b7c0f257a158a2c37a8a65	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1093447		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/269,776	09/19/2016	Alexander Kurganov	10115-05709 US	2723

93219 7590 04/12/2017

Patent Law Works, LLP
201 South Main Street, Suite 250
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EXAMINER
CHAWAN, VIJAY B

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
04/12/2017	ELECTRONIC

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

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

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

docketing@patentlawworks.net
patents@patentlawworks.net

Office Action Summary	Application No. 15/269,776	Applicant(s) KURGANOV, ALEXANDER	
	Examiner Vijay B. Chawan	Art Unit 2658	AIA (First Inventor to File) Status Yes

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *3/13/17*.

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

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

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

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

Disposition of Claims*

5)☒ Claim(s) *1-7,14-22 and 29-40* is/are pending in the application.

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7,14-22 and 29-40* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Terminal Disclaimer

2. The terminal disclaimer filed on 3/13/17 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent Numbers 7881941, 9451084 and 8185402 have been reviewed and are NOT accepted. 2/TDs both disapproved. TD fee not paid and no authorization to charged deposit account, see FP 14.24 and 14.26.07. Also resubmit TDs, and fees are required.

Double Patenting

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

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

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For

more information about eTerminal Disclaimers, refer to

www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

4. Claims 1-7, 14-22, and 29-40 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 9451084. Although the claims at issue are not identical, they are not patentably distinct from each other because the claims of the instant application are similar in scope and content of the patented claims issued to the same applicant.

Application # 15/269776	Patent # 9451084
1. A system for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising: at least one computing device, the computing device operatively coupled to a plurality of communication networks; at least one media server including a speaker-independent-speech-recognition engine,	1. A system for acquiring information from one or more sources maintaining a listing of web sites by receiving speech commands uttered by users into a voice-enabled device and for providing information retrieved from the web sites to the users in an audio form via the voice-enabled device, the system comprising: at least one computing device, the computing device operatively coupled to one or more networks; at least one speaker-independent speech-recognition device,

the speaker-independent-speech-recognition engine operatively connected to the computing device and adapted to receive the naturally-spoken-speech commands and recognize phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user and to generate recognition-results data, the media server processing the recognition-results data to identify key words and using the keywords to search the plurality of information sources; memory operatively associated with the computing device with at least one instruction set for identifying the information to be retrieved from the plurality of sources, the instruction set being associated with the computing device, the instruction set further comprising: an indication of the plurality of sources, each identified by an address, at least one of the plurality sources containing the information to be retrieved; at least one	the speaker-independent speech-recognition device operatively connected to the computing device and configured to receive the speech commands; at least one speech-synthesis device, the speech-synthesis device operatively connected to the computing device; memory operatively associated with the computing device with at least one instruction set for identifying the information to be retrieved, the instruction set being associated with the computing device, the instruction set comprising: a plurality of web site addresses for the listing of web sites, each web site address identifying a web site containing the information to be retrieved; at least one recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction set and corresponding to a speech command, the speech command comprising an information

recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction set and corresponding to a naturally-spoken-speech command, the naturally-spoken-speech command comprising an information request provided by the user, the speaker-independent- speech-recognition device adapted to receive the naturally-spoken-speech command from the particular user via the voice-enabled device and to select the corresponding recognition grammar upon receiving the naturally-spoken-speech command to convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access the one or more communication networks; the computing device adapted to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent-speech-recognition	request provided by the user, the speaker-independent speech-recognition device configured to receive the speech command from the users via the voice-enabled device and to select the corresponding recognition grammar upon receiving the speech command; the computing device configured to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent speech-recognition device; the computing device further configured to access at least one of the plurality of web sites identified by the instruction set to obtain the information to be retrieved, wherein the computing device is further configured to periodically search via the one or more networks to identify new web sites and to add the new web sites to the plurality of web sites, the computing device configured to access a first web site of the plurality of web sites

device and to access at least one of the plurality of information sources identified by the instruction set, in order to obtain at least a part of the information to be retrieved, the computing device further adapted to periodically search by the one or more communication networks to modify the plurality of information sources, the computing device adapted to access the plurality of information sources in a predetermined manner until the information to be retrieved is found; at least one speech-synthesis device, the speech-synthesis device operatively connected to the computing device; the speech synthesis device configured to produce an audio message containing any resulting information retrieved from the plurality of information sources, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.	and, if the information to be retrieved is not found at the first web site, the computer configured to access the plurality of web sites remaining in an order defined for accessing the listing of web sites until the information to be retrieved is found in at least one of the plurality of web sites or until the plurality of web sites have been accessed; the speech synthesis device configured to produce an audio message containing any retrieved information from the plurality of web sites, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.

2. The system of claim 1, wherein the plurality of communication networks include Internet.	2. The system of claim 1, wherein the one or more networks include the Internet.
3. The system of claim 1, wherein the plurality of communication networks include a local-area network.	3. The system of claim 1, wherein the one or more networks include a local-area network
4. The system of claim 1, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.	4. The system of claim 1, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.
5. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.	5. The system of claim 1, wherein the speaker-independent speech recognition device is configured to analyze phonemes to recognize the speech commands.

6. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to recognize the naturally-spoken-speech commands.	6. The system of claim 1, wherein the speaker-independent speech-recognition device is configured to recognize naturally spoken speech commands.
7. The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre- defining a portion of the information source containing the information to be retrieved.	7. The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each web site address, the content descriptor pre-defining a portion of the web site containing the information to be retrieved.
14. The system of claim 1, further comprising: a database operatively connected to the computing device, the database adapted to store the information gathered from the information sources in response to the information requests.	14. The system of claim 1, further comprising: a database operatively connected to the computing device, the database configured to store the information gathered from the web sites in response to the information requests.
15. The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.	15. The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.

5. Claims 1-7, 14-22, and 29-40, are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 9-11, 13 and 15 of U.S. Patent No. 8185402. Although the claims at issue are not identical, they are not patentably distinct from each other because the claims of the instant application are similar in scope and content of the patented claims issued to the same applicant.

Application # 15/269776	Patent # 8185402
1. A system for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising: at least one computing device, the computing device operatively coupled to a plurality of communication networks; at least one media server including a speaker-independent-speech-recognition engine, the speaker-independent-speech-recognition engine operatively connected to the computing device and adapted to	9. A system for retrieving information from 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

receive the naturally-spoken-speech commands and recognize phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user and to generate recognition-results data, the media server processing the recognition-results data to identify key words and using the keywords to search the plurality of information sources; memory operatively associated with the computing device with at least one instruction set for identifying the information to be retrieved from the plurality of sources, the instruction set being associated with the computing device, the instruction set further comprising: an indication of the plurality of sources, each identified by an address, at least one of the plurality sources containing the information to be retrieved; at least one recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction	operatively connected to said computer, said database containing a plurality of web site addresses; 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 web sites are accessed; said speaker-independent speech recognition engine configured to receive from users via said phone a speech command; said computer configured to access at least one of said plurality of web sites associated with said speech command 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

set and corresponding to a naturally-spoken-speech command, the naturally-spoken-speech command comprising an information request provided by the user, the speaker-independent- speech-recognition device adapted to receive the naturally-spoken-speech command from the particular user via the voice-enabled device and to select the corresponding recognition grammar upon receiving the naturally-spoken-speech command to convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access the one or more communication networks; the computing device adapted to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent-speech-recognition device and to access at least one of the plurality of information sources identified by the instruction set, in order to obtain 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 web sites, and said speech synthesis engine further configured to transmit said audio message to said users via said phone.

least a part of the information to be retrieved, the computing device further adapted to periodically search by the one or more communication networks to modify the plurality of information sources, the computing device adapted to access the plurality of information sources in a predetermined manner until the information to be retrieved is found; at least one speech-synthesis device, the speech-synthesis device operatively connected to the computing device; the speech synthesis device configured to produce an audio message containing any resulting information retrieved from the plurality of information sources, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.	
2. The system of claim 1, wherein the plurality of communication networks include	13. The system of claim 9 wherein said internet is the Internet.

Internet.	
3. The system of claim 1, wherein the plurality of communication networks include a local-area network.	11. The system of claim 9 wherein said internet is a local area network.
4. The system of claim 1, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.	10. The system of claim 9 wherein said phone comprises a standard telephone, a cellular phone, or an IP phone.
5. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.	
6. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to recognize the	

naturally-spoken-speech commands.	
7. The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre- defining a portion of the information source containing the information to be retrieved.	
12. The system of claim 11, wherein the computing device is adapted to consider the criteria with respect to one another when modifications to the pre-defined order for access are based on more than one of the plurality of criteria.	
13. The system of claim 12, wherein the computing device is adapted to access the plurality of information sources in the order pre-defined to retrieve the information requested by the user, the computing device further configured to access first the information source that is highest in the order pre-defined.	

14. The system of claim 1, further comprising: a database operatively connected to the computing device, the database adapted to store the information gathered from the information sources in response to the information requests.	
15. The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.	

6. Claims 1-7, 14-22, and 29-40 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 9-11, 13 and 15 of U.S. Patent No. 7881941 Although the claims at issue are not identical, they are not patentably distinct from each other because The claims of the instant application are similar in scope and content of the patented claims issued to the same applicant.

Application # 15/269776	Patent # 7881941
1. A system for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled	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

device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising: at least one computing device, the computing device operatively coupled to a plurality of communication networks; at least one media server including a speaker-independent-speech-recognition engine, the speaker-independent-speech-recognition engine operatively connected to the computing device and adapted to receive the naturally-spoken-speech commands and recognize phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user and to generate recognition-results data, the media server processing the recognition-results data to identify key words and using the keywords to search the plurality of information sources; memory operatively associated with the computing device with at least one	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

instruction set for identifying the information to be retrieved from the plurality of sources, the instruction set being associated with the computing device, the instruction set further comprising: an indication of the plurality of sources, each identified by an address, at least one of the plurality sources containing the information to be retrieved; at least one recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction set and corresponding to a naturally-spoken-speech command, the naturally-spoken-speech command comprising an information request provided by the user, the speaker-independent- speech-recognition device adapted to receive the naturally-spoken-speech command from the particular user via the voice-enabled device and to select the corresponding recognition grammar upon receiving the naturally-spoken-speech command to	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

convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access the one or more communication networks; the computing device adapted to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent-speech-recognition device and to access at least one of the plurality of information sources identified by the instruction set, in order to obtain at least a part of the information to be retrieved, the computing device further adapted to periodically search by the one or more communication networks to modify the plurality of information sources, the computing device adapted to access the plurality of information sources in a predetermined manner until the information to be retrieved is found; at least one speech-synthesis device, the speech-synthesis device operatively connected to	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

the computing device; the speech synthesis device configured to produce an audio message containing any resulting information retrieved from the plurality of information sources, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.	further configured to transmit said audio message to said users via said phone.
2. The system of claim 1, wherein the plurality of communication networks include Internet.	13. The system of claim 9 wherein said internet is the Internet.
3. The system of claim 1, wherein the plurality of communication networks include a local-area network.	11. The system of claim 9 wherein said internet is a local area network.
4. The system of claim 1, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or	10. The system of claim 9 wherein said phone comprises a standard telephone, a cellular phone, or an IP phone.

other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.	
5. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.	
6. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to recognize the naturally-spoken-speech commands.	
7. The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre- defining a portion of the information source containing the information to be retrieved.	
12. The system of claim 11, wherein the	

computing device is adapted to consider the criteria with respect to one another when modifications to the pre-defined order for access are based on more than one of the plurality of criteria.	
13. The system of claim 12, wherein the computing device is adapted to access the plurality of information sources in the order pre-defined to retrieve the information requested by the user, the computing device further configured to access first the information source that is highest in the order pre-defined.	
14. The system of claim 1, further comprising: a database operatively connected to the computing device, the database adapted to store the information gathered from the information sources in response to the information requests.	

Method claims 16-22, 29-40 are similar to system claims 1-15 and are also subject to the Double Patenting Rejection to the system claims above.

Response to Arguments

7. Please see the remarks directed toward the Terminal Disclaimers above.

Conclusion

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

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vijay B. Chawan whose telephone number is (571)272-7601. The examiner can normally be reached on Monday through Thursday 6:30-5:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an

interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

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

Information regarding the status of 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.

/Vijay B. Chawan/
Primary Examiner, Art Unit 2658

Vbc
4/1/2017

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

U.S.PATENTS

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EXAMINER SIGNATURE

Examiner Signature	/VIJAY B CHAWAN/	Date Considered	03/31/2017

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

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	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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

OR

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

☐ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Reena Kuyper/	Date (YYYY-MM-DD)	2016-12-19
Name/Print	Reena Kuyper	Registration Number	33830

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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WEST Search History for Application 15269776

Creation Date: 2017040118:10

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
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((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427 20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)	USPT	36	OR	YES		12-08-2016
(kurganov-$.in.)	USPT	26	OR	YES		12-08-2016
((kurganov-$.in.) and voice)	PGPB,	38	OR	YES		12-08-2016

	USPT					
((kurganov-$.in.) and voice)	PGPB, USPT	38	OR	YES		12-08-2016
((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	42	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information)) and (recogni$6 near2 grammar))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	19	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information) and (recogni$6 near2 grammar)) and poll$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	7	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information) and (recogni$6 near2 grammar) and poll$3) and (speech near2 synthes$6))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	7	OR	YES		12-08-2016
(((kurganov-$.in.) and voice))	USPT	15	OR	YES		12-08-2016
(((kurganov-$.in.) and voice))	PGPB	23	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) McFadden	PGPB, USPT	6628	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) and s$-McFadden.xa.	PGPB, USPT	0	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) and s$-McFadden.xp.	PGPB, USPT	0	OR	YES		12-08-2016

(H04M2201/40 | H04M3/4938 | H04M2201/39 | H04M2203/609 | H04M3/382 | H04M2201/60 | H04M2203/105 | H04M3/4878 | H04M3/493 | H04M3/4931 | H04M7/12).CPC.	PGPB, USPT	11646	OR	YES		12-08-2016
(G10L15/26 | G10L15/265 | G10L15/22 | G10L15/222 | G10L25/48).CPC.	PGPB, USPT	10728	OR	YES		12-08-2016
(G06F3/16 | G06F17/30873 | G06F2216/15).CPC.	PGPB, USPT	5594	OR	YES		12-08-2016
(704/270.1 | 704/275 | 704/200 | 704/270 | 704/246 | 704/272).CCLS.	PGPB, USPT	10840	OR	YES		12-08-2016
(379/88.17 | 379/88.01).CCLS.	PGPB, USPT	3264	OR	YES		12-08-2016
(707/707707/999.01 | 707/999.101 | 707/999.102).CCLS.	PGPB, USPT	13063	OR	YES		12-08-2016
(709/205 | 709/219 | 709/227).CCLS.	PGPB, USPT	31584	OR	YES		12-08-2016
(713/168 | 713/182 | 713/186).CCLS.	PGPB, USPT	13521	OR	YES		12-08-2016
(715/733 | 719/310 | 726/3).CCLS.	PGPB, USPT	9664	OR	YES		12-08-2016
(707/707 | 707/999.01 | 707/999.101 | 707/999.102).CCLS.	PGPB, USPT	23374	OR	YES		12-08-2016
((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427 20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	91	OR	YES		04-01-2017
((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427	PGPB	13	OR	YES		04-01-2017

20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)						
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(kurganov-$.in.)	USPT	27	OR	YES		04-01-2017
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((kurganov-$.in.) and voice)	PGPB, USPT	40	OR	YES		04-01-2017
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(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information)) and (recogni$6 near2 grammar))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	19	OR	YES		04-01-2017
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information) and (recogni$6 near2 grammar)) and poll$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	7	OR	YES		04-01-2017
		7	OR	YES		04-01-2017

(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information) and (recogni$6 near2 grammar) and poll$3) and (speech near2 synthes$6))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS					
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(((kurganov-$.in.) and voice))	PGPB	24	OR	YES		04-01-2017
(((kurganov-$.in.) and voice)) McFadden	PGPB, USPT	6779	OR	YES		04-01-2017
(((kurganov-$.in.) and voice)) and s$-McFadden.xa.	PGPB, USPT	0	OR	YES		04-01-2017
(((kurganov-$.in.) and voice)) and s$-McFadden.xp.	PGPB, USPT	0	OR	YES		04-01-2017
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((379/88.17) | (379/88.01)).CCLS.	PGPB, USPT	3265	OR	YES		04-01-2017
((707/707707) | (707/999.101) | (707/999.102)).CCLS.	PGPB, USPT	13063	OR	YES		04-01-2017
((709/205) | (709/219) | (709/227)).CCLS.	PGPB, USPT	31620	OR	YES		04-01-2017

((713/168) | (713/182) | (713/186)).CCLS.	PGPB, USPT	13528	OR	YES		04-01-2017
((715/733) | (719/310) | (726/3)).CCLS.	PGPB, USPT	9668	OR	YES		04-01-2017
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BIB DATA SHEET

CONFIRMATION NO. 2723

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
15/269,776	09/19/2016 RULE	704	2658	10115-05709 US

APPLICANTS
Parus Holdings, Inc., Bannockburn, IL;

INVENTORS
Alexander Kurganov, Buffalo Grove, IL;

** **CONTINUING DATA** **********

** **FOREIGN APPLICATIONS** **********

** **IF REQUIRED, FOREIGN FILING LICENSE GRANTED** ** SMALL ENTITY **
10/06/2016

Foreign Priority claimed		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
☐ Yes ☑ No	☐ Met after Allowance	IL	4	30	2
35 USC 119(a-d) conditions met ☐ Yes ☑ No					
Verified and Acknowledged /VIJAY B CHAWAN/ Examiner's Signature	Initials				

ADDRESS

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

TITLE

Robust voice browser system and voice activated device controller

FILING FEE RECEIVED		
1200	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15269776	KURGANOV, ALEXANDER
	Examiner	Art Unit
	VIJAY B CHAWAN	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L 15/26, 15/265, 15/22, 15/222, 25/48	12-8-16	vbc
H04M 2201/40, 3/4938, 2201/39, 2203/609, 3/382, 2201/60, 2203/105	12-8-16	vbc
G06F 3/16, 17/30873, 2216/15	vbc	12-8-16

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	270.1, 275, 200, 270, 246, 272	vbc	12-8-16
379	88.17, 88.01	vbc	12-8-16
707	707, 999.01, 999.101, 999.102	vbc	12-8-16
709	205, 219, 227	vbc	12-8-16
713	168, 182, 186	vbc	12-8-16
715	733	vbc	12-8-16
719	310	vbc	12-8-16
726	3	vbc	12-8-16

SEARCH NOTES		
Search Notes	Date	Examiner
See attached PLUS and WEST searches	vbc	12-8-16
See attached updated WEST search	vbc	4-1-17

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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15269776	KURGANOV, ALEXANDER
	Examiner	Art Unit
	VIJAY B CHAWAN	2658

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

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

CLAIM		DATE								
Final	Original	12/08/2016	04/01/2017							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	-							
	9	✓	-							
	10	✓	-							
	11	✓	-							
	12	✓	-							
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	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
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	29	✓	-							
	30	✓	✓							
	31		✓							
	32		✓							
	33		✓							
	34		✓							
	35		✓							
	36		✓							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15269776	KURGANOV, ALEXANDER
	Examiner	**Art Unit**
	VIJAY B CHAWAN	2658

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

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

CLAIM		DATE								
Final	Original	12/08/2016	04/01/2017							
	37		✓							
	38		✓							
	39		✓							
	40		✓							

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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/V.B.C/	3	4058838		1977-11-15	Crager et al.	
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/V.B.C/	5	4158750		1979-06-19	Sakoe et al.	
/V.B.C/	6	4313035		1982-01-26	Jordan	
/V.B.C/	7	4327251		1982-04-27	Fomenko et al.	
/V.B.C/	8	4340783		1982-07-20	Sugiyama et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	9	4340797		1982-07-20	Takano et al.	
/V.B.C/	10	4340800		1982-07-20	Ueda et al.	
/V.B.C/	11	4371752		1983-02-01	Matthews	
/V.B.C/	12	4481574		1984-11-06	DeFino et al.	
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/V.B.C/	16	4523055		1985-06-11	Hohl et al.	
/V.B.C/	17	4549047		1985-10-22	Brian et al.	
/V.B.C/	18	4584434		1986-04-22	Hashimoto	
/V.B.C/	19	4585906		1986-04-29	Matthews et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

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	Attorney Docket Number	10115-05709 US

/V.B.C/	20	4596900		1985-06-24	Jackson	
/V.B.C/	21	4602129		1986-07-22	Matthews et al.	
/V.B.C/	22	4635253		1987-01-06	Urui et al.	
/V.B.C/	23	4652700		1987-03-24	Matthews et al.	
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/V.B.C/	25	4713837		1987-12-15	Gordon	
/V.B.C/	26	4747127		1988-05-24	Hansen et al.	
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/V.B.C/	29	4757525		1988-07-12	Matthews et al.	
/V.B.C/	30	4761807		1988-08-02	Matthews et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
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	First Named Inventor	Alexander Kurganov
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	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	31	4763317		1988-08-09	Lehman et al.	
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/V.B.C/	33	4771425		1988-09-13	Baran et al.	
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/V.B.C/	40	4837798		1989-06-06	Cohen et al.	
/V.B.C/	41	4847891		1989-07-11	Kotani	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	42	4850012		1989-07-18	Mehta et al.	
/V.B.C/	43	4852149		1989-07-25	Zwick et al.	
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/V.B.C/	51	4903291		1990-02-20	Tsurufuji et al.	
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

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	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	53	4907079		1990-03-06	Turner et al.	
/V.B.C/	54	4918722		1990-04-17	Duehren et al.	
/V.B.C/	55	4922518		1990-05-01	Gordon et al.	
/V.B.C/	56	4922520		1990-05-01	Bernard et al.	
/V.B.C/	57	4922526		1990-05-01	Morganstein et al.	
/V.B.C/	58	4926462		1990-05-15	Ladd et al.	
/V.B.C/	59	4930150		1990-05-29	Katz	
/V.B.C/	60	4933966		1990-06-12	Hird et al.	
/V.B.C/	61	4935955		1990-06-19	Neudorfer	
/V.B.C/	62	4935958		1990-06-19	Morganstein et al.	
/V.B.C/	63	4941170		1990-07-10	Herbst	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	64	4942598		1990-07-17	Davis	
/V.B.C/	65	4953204		1990-08-28	Cuschleg Jr. et al.	
/V.B.C/	66	4955047		1990-09-04	Morganstein et al.	
/V.B.C/	67	4956835		1990-09-11	Grover	
/V.B.C/	68	4959854		1990-09-25	Cave et al.	
/V.B.C/	69	4967288		1990-10-30	Mizutori et al.	
/V.B.C/	70	4969184		1990-11-06	Gordon et al.	
/V.B.C/	71	4972462		1990-11-20	Shibata	
/V.B.C/	72	4974254		1990-11-27	Perine et al.	
/V.B.C/	73	4975941		1990-12-04	Morganstein et al.	
/V.B.C/	74	4985913		1991-01-15	Shalom	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	75	4994926		1991-02-19	Gordon et al.	
/V.B.C/	76	4996704		1991-02-26	Brunson	
/V.B.C/	77	5003575		1991-03-26	Chamberlin et al.	
/V.B.C/	78	5003577		1991-03-26	Ertz et al.	
/V.B.C/	79	5008926		1991-04-16	Misholi	
/V.B.C/	80	5020095		1991-05-28	Morganstein et al.	
/V.B.C/	81	5027384		1991-06-25	Morganstein	
/V.B.C/	82	5029196		1991-07-02	Morganstein	
/V.B.C/	83	5036533		1991-07-30	Carter et al.	
/V.B.C/	84	5054054		1991-10-01	Pessia et al.	
/V.B.C/	85	5065254		1991-11-12	Hishida	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	86	5086385		1992-02-04	Launey et al.	
/V.B.C/	87	5095445		1992-03-10	Sekiguchi	
/V.B.C/	88	5099509		1992-03-24	Morganstein et al.	
/V.B.C/	89	5109405		1992-04-28	Morganstein	
/V.B.C/	90	5128984		1992-07-07	Katz	
/V.B.C/	91	5131024		1992-07-14	Pugh et al.	
/V.B.C/	92	5133004		1992-07-21	Heileman, Jr.	
/V.B.C/	93	5146452		1992-09-08	Pekarske	
/V.B.C/	94	5166974		1992-11-24	Morganstein et al.	
/V.B.C/	95	5179585		1993-01-12	MacMillan et al.	
/V.B.C/	96	5193110		1993-03-09	Jones et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	97	5195086		1993-03-16	Baumgartner et al.	
/V.B.C/	98	5233600		1993-08-03	Pekarske	
/V.B.C/	99	5243643		1993-09-07	Sattar et al.	
/V.B.C/	100	5243645		1993-09-07	Bissell et al.	
/V.B.C/	101	5249219		1993-09-28	Morganstein et al.	
/V.B.C/	102	5255305		1993-10-19	Sattar	
/V.B.C/	103	5263084		1993-11-16	Chaput et al.	
/V.B.C/	104	5276729		1994-01-04	Higuchi et al.	
/V.B.C/	105	5287199		1994-02-15	Zoccolillo	
/V.B.C/	106	5291302		1994-03-01	Gordon et al.	
/V.B.C/	107	5291479		1994-03-01	Vaziri et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	108	5303298		1994-04-12	Morganstein et al.	
/V.B.C/	109	5307399		1994-04-26	Dai et al.	
/V.B.C/	110	5309504		1994-05-03	Morganstein	
/V.B.C/	111	5325421		1994-06-28	Hou et al.	
/V.B.C/	112	5327486		1994-07-05	Wolff et al.	
/V.B.C/	113	5327529		1994-07-05	Fults et al.	
/V.B.C/	114	5329578		1994-07-12	Brennan et al.	
/V.B.C/	115	5333266		1994-07-26	Boaz et al.	
/V.B.C/	116	5347574		1994-09-13	Morganstein	
/V.B.C/	117	5355403		1994-10-11	Richardson, Jr. et al.	
/V.B.C/	118	5359598		1994-10-25	Steagall et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	119	5365524		1994-11-15	Hiller et al	
/V.B.C/	120	5365574		1994-11-15	Hunt et al.	
/V.B.C/	121	5375161		1994-12-20	Fuller et al.	
/V.B.C/	122	5384771		1995-01-24	Isidoro et al.	
/V.B.C/	123	5404231		1995-04-04	Bloomfield	
/V.B.C/	124	5408526		1995-04-18	McFarland et al.	
/V.B.C/	125	5414754		1995-05-09	Pugh et al.	
/V.B.C/	126	5416834		1995-05-16	Bales et al.	
/V.B.C/	127	5426421		1995-06-20	Gray	
/V.B.C/	128	5432845		1995-07-11	Burd et al.	
/V.B.C/	129	5436963		1995-07-25	Fitzpatrick et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	130	5459584		1995-10-17	Gordon et al.	
/V.B.C/	131	5463684		1995-10-31	Morduch et al.	
/V.B.C/	132	5475791		1995-12-12	Schalk et al.	
/V.B.C/	133	5479487		1995-12-26	Hammond	
/V.B.C/	134	5495484		1996-02-27	Self et al.	
/V.B.C/	135	5497373		1996-03-05	Hulen et al.	
/V.B.C/	136	5499288		1996-03-12	Hunt et al.	
/V.B.C/	137	5515427		1996-05-07	Carlsen et al.	
/V.B.C/	138	5517558		1996-05-14	Schalk	
/V.B.C/	139	5526353		1996-06-11	Henley et al.	
/V.B.C/	140	5533115		1996-07-02	Hollenbach et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	141	5537461		1996-07-16	Bridges et al.	
/V.B.C/	142	5555100		1996-09-10	Bloomfield et al.	
/V.B.C/	143	5559611		1996-09-24	Bloomfield et al.	
/V.B.C/	144	5559859		1996-09-24	Dai et al.	
/V.B.C/	145	5566236		1996-10-15	Melampy et al.	
/V.B.C/	146	5603031		1997-02-11	White et al.	
/V.B.C/	147	5608786		1997-03-04	Gordon	
/V.B.C/	148	5610910		1997-03-11	Focsaneanu et al.	
/V.B.C/	149	5610970		1997-03-11	Fuller et al.	
/V.B.C/	150	5611031		1997-03-11	Hertzfeld et al.	
/V.B.C/	151	5630079		1997-05-13	McLaughlin	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	152	5652789		1997-07-29	Miner et al.	
/V.B.C/	153	5657376		1997-08-12	Espeut et al.	
/V.B.C/	154	5659597		1997-08-19	Bareis et al.	
/V.B.C/	155	5666401		1997-09-09	Morganstein et al.	
/V.B.C/	156	5675507		1997-10-07	Bobo, II	
/V.B.C/	157	5675811		1997-10-07	Broedner et al.	
/V.B.C/	158	5689669		1997-11-18	Lynch et al.	
/V.B.C/	159	5692187		1997-11-25	Goldman et al.	
/V.B.C/	160	5699486		1997-12-16	Tullis et al.	
/V.B.C/	161	5712903		1997-01-27	Bartholomew et al.	
/V.B.C/	162	5719921		1998-02-17	Vysotsky et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	163	5721908		1998-02-24	Lagarde et al.	
/V.B.C/	164	5724408		1998-03-03	Morganstein	
/V.B.C/	165	5737395		1998-04-07	Irribarren	
/V.B.C/	166	5742596		1998-04-21	Baratz et al.	
/V.B.C/	167	5742905		1998-04-21	Pepe et al.	
/V.B.C/	168	5752191		1998-05-12	Fuller et al.	
/V.B.C/	169	5758322		1998-05-26	Rongley	
/V.B.C/	170	5761294		1998-06-02	Shaffer et al.	
/V.B.C/	171	5764639		1998-06-09	Staples et al.	
/V.B.C/	172	5764736		1998-06-09	Shachar et al.	
/V.B.C/	173	5764910		1998-06-09	Shachar	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	174	5774860		1998-06-30	Bayya et al.	
/V.B.C/	175	5787298		1998-07-28	Broedner et al.	
/V.B.C/	176	5793993		1998-08-11	Broedner et al.	
/V.B.C/	177	5794205		1998-08-11	Walters et al.	
/V.B.C/	178	5796791		1998-08-18	Polcyn	
/V.B.C/	179	5799063		1998-08-25	Krane	
/V.B.C/	180	5799065		1998-08-25	Junqua et al.	
/V.B.C/	181	5809282		1998-09-15	Cooper et al.	
/V.B.C/	182	5809481		1998-09-15	Baron et al.	
/V.B.C/	183	5812796		1998-09-22	Broedner et al.	
/V.B.C/	184	5819220		1998-10-06	Sarukkai et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	185	5819306		1998-10-06	Goldman et al.	
/V.B.C/	186	5822727		1998-10-13	Garberg et al.	
/V.B.C/	187	5823879		1998-10-20	Goldberg et al.	
/V.B.C/	188	5832063		1998-11-03	Vysotsky et al.	
/V.B.C/	189	5832440		1998-11-03	Woodbridge	
/V.B.C/	190	5835570		1998-11-10	Wattenbarger	
/V.B.C/	191	5838682		1998-11-17	Dekelbaum et al.	
/V.B.C/	192	5867494		1999-02-02	Krishnaswamy et al.	
/V.B.C/	193	5867495		1999-02-02	Elliott et al.	
/V.B.C/	194	5870550		1999-02-09	Wesinger Jr. et al.	
/V.B.C/	195	5873080		1999-02-16	Coden et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	196	5881134		1999-03-09	Foster et al.	
/V.B.C/	197	5881135		1999-03-09	Watts et al.	
/V.B.C/	198	5884032		1999-03-16	Bateman et al.	
/V.B.C/	199	5884262		1999-03-16	Wise et al.	
/V.B.C/	200	5884266		1999-03-16	Dvorak	
/V.B.C/	201	5890123		1999-03-30	Brown et al.	
/V.B.C/	202	5905476		1999-05-18	McLaughlin et al.	
/V.B.C/	203	5914951		1999-06-22	Bentley et al.	
/V.B.C/	204	5915001		1999-06-22	Uppaluru	
/V.B.C/	205	5917817		1999-06-29	Dunn et al.	
/V.B.C/	206	5940598		1999-08-17	Strauss et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	207	5943399		1999-08-24	Bannister et al.	
/V.B.C/	208	5946389		1999-08-31	Dold	
/V.B.C/	209	5953392		1999-09-14	Rhie et al.	
/V.B.C/	210	5974124		1999-10-26	Schlueter et al.	
/V.B.C/	211	5974413		1999-10-26	Beauregard et al.	
	212	5991292		1999-11-23	Focsaneanu et al.	
	213	5995615		1999-11-30	Miloslavsky	
	214	5999525		1999-12-07	Krishnaswamy et al.	
	215	5999611		1999-12-07	Tatchell et al.	
	216	5999965		1999-12-07	Kelly	
	217	6012088		2000-01-04	Li et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

	218	6014437		2000-01-11	Acker et al.	
	219	6014626		2000-01-11	Cohen	
	220	6018710		2000-01-25	Wynblatt et al.	
/V.B.C/	221	6021181		2000-02-01	Miner et al.	
/V.B.C/	222	6021190		2000-02-01	Fuller et al.	
/V.B.C/	223	6031904		2000-02-29	An et al.	
/V.B.C/	224	6038305		2000-03-14	McAllister et al.	
/V.B.C/	225	6044107		2000-03-28	Gatherer et al.	
/V.B.C/	226	6047053		2000-04-04	Miner et al.	
/V.B.C/	227	6052372		2000-04-18	Gittins et al.	
/V.B.C/	228	6067516		2000-05-23	Levay et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	229	6078580		2000-06-20	Mandalia et al.	
/V.B.C/	230	6081518		2000-06-27	Bowman-Amuah	
/V.B.C/	231	6081782		2000-06-27	Rabin	
/V.B.C/	232	6091808		2000-07-18	Wood et al.	
/V.B.C/	233	6101472		2000-08-08	Giangarra et al.	
/V.B.C/	234	6104803		2000-08-15	Weser et al.	
/V.B.C/	235	6115737		2000-09-05	Ely et al.	
/V.B.C/	236	6115742		2000-09-05	Franklin et al.	
/V.B.C/	237	6130933		2000-10-10	Miloslavsky	
/V.B.C/	238	6131095		2000-10-10	Low et al.	
/V.B.C/	239	6137863		2000-10-24	Brown et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	240	6157705		2000-12-05	Perrone	
/V.B.C/	241	6161128		2000-12-12	Smyk	
/V.B.C/	242	6178399		2001-01-23	Takebayashi et al.	
/V.B.C/	243	6185535		2001-02-06	Hedin et al.	
/V.B.C/	244	6188683		2001-02-13	Lang et al.	
/V.B.C/	245	6195357		2001-02-27	Polcyn	
/V.B.C/	246	6199076		2001-03-06	Logan et al.	
/V.B.C/	247	6201814		2001-03-13	Greenspan	
/V.B.C/	248	6201863		2001-03-13	Miloslavsky	
/V.B.C/	249	6208638		2001-03-27	Rieley	
/V.B.C/	250	6215858		2001-04-10	Bartholomew et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.B.C/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

/V.B.C/	251	6230132		2001-05-08	Class et al.	
/V.B.C/	252	6233318		2001-05-15	Picard et al.	
/V.B.C/	253	6243373		2001-06-05	Turock	
/V.B.C/	254	6252944		2001-06-26	Hansen II et al.	
/V.B.C/	255	6269336		2001-07-31	Ladd et al.	
/V.B.C/	256	6285745		2001-09-04	Bartholomew et al.	
/V.B.C/	257	6327572		2001-12-04	Morton et al.	
/V.B.C/	258	6330538		2001-12-11	Breen	
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	Attorney Docket Number	10115-05709 US

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Examiner Signature	/VIJAY B CHAWAN/	Date Considered	03/31/2017

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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

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

Signature	/Reena Kuyper/	Date (YYYY-MM-DD)	2016-12-19
Name/Print	Reena Kuyper	Registration Number	33830

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/269,776	09/19/2016	Alexander Kurganov	10115-05709 US

CONFIRMATION NO. 2723

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

POA ACCEPTANCE LETTER

OC000000089982695

Date Mailed: 03/20/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/13/2017.

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.

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/qtran/

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

FIRST INVENTOR:	Alexander Kurganov et al.
APPLICATION NO:	15/269,776
FILING DATE:	September 19, 2016
TITLE:	Robust Voice Browser System and Voice Activated Device Controller
EXAMINER:	Vijay B. Chawan
GROUP ART UNIT:	2658
ATTY. DKT. NO:	10115-05709 US
CONFIRMATION NO:	2723

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Pursuant to 240 OG 45 and the Legal Framework For EFS-Web, I hereby certify that this follow-on correspondence is being officially submitted through the USPTO EFS-Web system from the Eastern Time Zone of the United States on the local date shown below:

Dated: March 13th, 2017 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

AMENDMENT A

Responsive to the Non-Final Office Action mailed on December 13, 2016, which sets a shortened statutory period for response that expires on March 13, 2017, please enter the following amendment and consider the following remarks.

IN THE SPECIFICATION

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Please change the title from "Robust Voice Browser System and Voice Activated Device Controller" to --Acquiring Information from Sources Responsive to Naturally-Spoken-Speech Commands Provided by A Voice-Enabled Device--.

IN THE CLAIMS

All pending claims are reproduced below.

1. (Currently Amended) A system for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising:

(a) at least one computing device, the at least one computing device operatively coupled to a plurality of communication networks;

(b) at least one ~~media server including a~~ speaker-independent ~~speech-recognition engine, the speaker-independent~~ speech-recognition engine operatively ~~connected~~ coupled to the computing device ~~and adapted to receive the naturally-spoken-speech commands and recognize phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user and to generate recognition results data, the media server processing the recognition results data to identify key words and using the key words to search the plurality of information sources~~;

(c)memory ~~operatively associated with~~ accessible to the at least one computing device ~~with~~ and storing at least ~~one~~:

(i) an instruction set ~~for~~ identifying the information to be retrieved from the plurality of sources, the instruction set ~~being associated with the computing device, the instruction set further~~ comprising: an indication of the plurality of sources, each identified by an address, ~~at least one of the plurality sources containing the~~ and each identifying certain information to be retrieved~~;~~ from the address, and

(ii) at least one ~~recognition grammar associated with the computing device, each~~ recognition grammar corresponding to each instruction set and corresponding to a naturally-spoken-speech command~~, the naturally-spoken-speech command comprising~~ including an information request ~~provided by~~ of the user, ~~the~~

(d) wherein the at least one speaker-independent-speech-recognition ~~device~~ engine is adapted (i) to receive the naturally-spoken-speech command from the ~~particular user via the~~ voice-enabled device via a first of the plurality of communication networks, (ii) to recognize phenomes in the naturally-spoken-speech commands to understand spoken words, and (iii) to generate recognition results data,

(e)wherein the at least one computing device is adapted to (i) to select the corresponding at least one recognition grammar upon receiving the naturally-spoken-speech command and to convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access a second of the ~~one or more~~ plurality of communication networks; ~~the computing device adapted~~ and (ii) to retrieve the instruction set corresponding to the recognition grammar provided by the at least one speaker-independent-speech-recognition ~~device~~ engine and to access ~~at least one of~~ the ~~plurality of~~ information ~~sources~~ source identified by the instruction set~~, in order~~ to obtain at least a part of the information to be retrieved~~, the computing device further adapted to periodically search by the one or more communication networks to modify the plurality of information sources, the computing device adapted to access the plurality of information sources in a predetermined manner until the information to be retrieved is found;~~ and

(f) at least one speech-synthesis device~~, the speech-synthesis device~~ operatively ~~connected~~ coupled to the at least one computing device~~;~~, the at least one speech-synthesis device configured to produce an audio message ~~containing~~ relating to any resulting information retrieved from the plurality of information sources, and ~~the speech synthesis device further configured~~ to transmit the audio message to the users via the voice-enabled device.

2. (Currently Amended) The system of claim 1, wherein the plurality of communication networks ~~include~~ includes the Internet.

3. (Original) The system of claim 1, wherein the plurality of communication networks include a local-area network.

4. (Currently Amended) The system of claim 1, wherein the voice-enabled device is ~~at least one of~~ a ~~standard~~ telephone~~, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message~~.

5. (Currently Amended) The system of claim 1, wherein the speaker-independent-speech-recognition ~~device~~ engine is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.

6. (Currently Amended) The system of claim 1, wherein the speaker-independent-speech-recognition ~~device~~ engine is adapted to recognize the naturally-spoken-speech commands.

7. (Original) The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre-defining a portion of the information source containing the information to be retrieved.

8. Canceled.

9. Canceled.

10. Canceled.

11. Canceled.

12. Canceled.

13. Canceled.

14. (Original) The system of claim 1, further comprising:

a database operatively connected to the computing device, the database adapted to store the information gathered from the information sources in response to the information requests.

15. (Original) The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.

16. (Currently Amended) A method for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the ~~system~~ method comprising:

(a) providing at least one computing device, the computing device operatively coupled to a plurality of communication networks;

(b) providing at least one ~~media server including a speaker-independent-speech-recognition engine, the~~ speaker-independent-speech-recognition engine operatively ~~connected~~ coupled to the at least one computing device ~~and receiving, by the media server, the naturally-spoken-speech commands and recognizing phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user to generate recognition-results data, and processing, by the media server, the recognition-results data to identify key words and using the key words to search the plurality of information sources;~~

(c)providing memory ~~operatively associated with~~ accessible to the computing device ~~with~~ storing at least ~~one~~

(i) an instruction set ~~and~~ identifying the information to be retrieved from the plurality of sources, the instruction set ~~being associated with the computing device, the instruction set further~~ comprising: an indication of the plurality of sources, each identified by an address, ~~at least one of the plurality sources containing the~~ and each identifying certain information to be retrieved~~;~~ from the address, and

(ii) at least one ~~recognition grammar associated with the computing device, each~~ recognition grammar corresponding to each instruction set and corresponding to a naturally-spoken-speech command~~, the naturally-spoken-speech command comprising~~ including an information request ~~provided by~~ of the user,

(d) the at least one speaker-independent- speech-recognition ~~device adapted to receive~~ engine:

(i) receiving the naturally-spoken-speech command from the ~~particular user via the~~ voice-enabled device via a first of the communication networks,

(ii) recognizing phenomes in the naturally-spoken-speech commands to understand spoken words, and ~~to select~~

(iii) generating recognition-results data,

(e) the least one computing device programmed to:

(i) select the corresponding at least one recognition grammar upon receiving the naturally-spoken-speech command ~~to~~ and convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access a second of the one ~~or more~~ communication networks; ~~by the computing device~~ and

(iii) retrieve ~~retrieving~~ the instruction set corresponding to the recognition grammar provided by the at least one speaker-independent-speech-recognition device and ~~accessing~~ access ~~at least one of the plurality of~~ the information ~~sources~~ source identified by the instruction set~~, in order~~ to obtain at least a part of the information to be retrieved~~;~~

~~periodically searching by the computing device and the one or more communication networks, to modify the plurality of information sources;~~

~~using the computing device to access the plurality of information sources in a predetermined manner until the information to be retrieved is found;~~ and

(f) providing at least one speech-synthesis device ~~and~~ operatively ~~connecting~~ connected to the at least one computing device, and by the at least one speech synthesis device;

(i) ~~producing~~ produce an audio message ~~containing~~ relating to any resulting information retrieved from the plurality of information sources, and ~~by the speech synthesis device~~

(ii) transmit ~~transmitting~~ the audio message to the ~~users via the~~ voice-enabled device.

17. (Currently Amended) The method of claim 16, wherein the plurality of communication networks ~~include~~ includes the Internet.

18 (Original) The method of claim 16, wherein the plurality of communication networks include a local-area network.

19. (Currently Amended) The method of claim 16, wherein the voice-enabled device is ~~at least one of a standard~~ telephone~~, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message~~.

20. (Currently Amended) The method of claim 16, wherein the speaker-independent-speech-recognition ~~device~~ engine is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.

21. (Currently Amended) The method of claim 16, wherein the speaker-independent-speech-recognition ~~device~~ engine is adapted to recognize the naturally-spoken-speech commands.

22. (Original) The method of claim 16, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre-defining a portion of the information source containing the information to be retrieved.

23. Canceled.

24. Canceled.

25. Canceled.

26. Canceled.

27. Canceled.

28. Canceled.

29. (Original) The method of claim 16, further comprising:

providing a database and operatively connected the database to the computing device and storing the information gathered from the information sources in response to the information requests in the database.

30. (Original) The method of claim 29, wherein each recognition grammar and each instruction set are stored in the database.

Please add the following new claims:

31. (New) The system of claim 1, wherein the voice-enabled device is an IP telephone.

32. (New) The system of claim 1, wherein the voice-enabled device is a cellular phone.

33. (New) The system of claim 1, wherein the voice-enabled device is a personal computer.

34. (New) The system of claim 1, wherein the voice-enabled device is a media player appliance.

35. (New) The system of claim 1, wherein the voice-enabled device is a television or other video display device.

36. (New) The method of claim 16, wherein the voice-enabled device is an IP telephone.

37. (New) The method of claim 16, wherein the voice-enabled device is a cellular phone.

38. (New) The method of claim 16, wherein the voice-enabled device is a personal computer.

39. (New) The method of claim 16, wherein the voice-enabled device is a media player appliance.

40. (New) The method of claim 16, wherein the voice-enabled device is a television or other video display device.

REMARKS

Claims 1-30 were presented for examination. Claims 1-30 stand rejected in the Office Action dated December 13, 2016 (herein, "OA"). By this amendment, claims 8-13 and 23-28 are canceled, without prejudice, claims 1-2, 4-6, 16-17, and 19-21 are amended and new claims 31-40 are added. The amendments to the claims 1) reorganize the claim elements to further clarify them; 2) conform the claim language to address antecedent bases; and 3) delete superfluous repetitive claim language. The new claims are directed to a recitation of separate claim elements deleted from a single claim that previously recited multiple elements. No new matter is introduced by these claims. Claims 1-7, 14-22, and 29-40 are now pending upon entry of this amendment.

Response to Objections for Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. Respectfully, the title has been changed to --Acquiring Information from Sources Responsive to Naturally-Spoken-Speech Commands Provided by A Voice-Enabled Device--. If the Examiner prefers another title, a suggestion is welcomed. The Examiner is respectfully requested to withdraw the objection to the existing title.

Response to Double Patenting Rejection

Claims 1-30 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 9,451,084. Respectfully, claims 8-13 and 23-28 (of the claims 1-30) are canceled, without prejudice. Therefore, this double-patenting rejection

only applies to the pending claims. Although the claims are different, a terminal disclaimer is submitted to obviate the double-patenting rejection. Accordingly, the Examiner is requested to withdraw the double patenting rejection.

Claims 1-4, 8 and 9 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 9-11, 13 and 15 of U.S. Patent No. 8,185,402. Claims 8 and 9 are canceled, without prejudice. Therefore, this double-patenting rejection only applies to claims 1-4. Although the claims are different, a terminal disclaimer is submitted to obviate the double-patenting rejection. Accordingly, the Examiner is requested to withdraw the double patenting rejection.

Claims 1-4, 8 and 9 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 9-11, 13 and 15 of U.S. Patent No. 7,881,941. Claims 8 and 9 are canceled, without prejudice. Therefore this double-patenting rejection only applies to claims 1-4. Although the claims are different, a terminal disclaimer is submitted to obviate the double-patenting rejection. Accordingly, the Examiner is requested to withdraw the double patenting rejection.

CONCLUSION

Favorable consideration and allowance of all pending claims is requested. If any outstanding issues remain, the Examiner is encouraged to contact the undersigned.

Respectfully submitted,
ALEXANDER KURGANOV ET AL.

Dated: March 13th, 2017 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830
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Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
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Application Number	15/269,776
Filing Date	September 19, 2016
First Named Inventor	Alexander Kurganov
Title	Robust Voice Browser System and Voice Activated Device Controller
Art Unit	2658
Examiner Name	Vijay B. Chawan
Attorney Docket Number	10115-05709 US

SIGNATURE of Applicant or Patent Practitioner

Signature	/Reena Kuyper/	Date (Optional)	03-13-2017
Name	Reena Kuyper	Registration Number	33830
Title (if Applicant is a juristic entity)	Agent for Applicant		
Applicant Name (if Applicant is a juristic entity)	Parus Holdings, Inc.		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of One (1) forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

■ Practitioners associated with Customer Number: 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).

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OR

☐

Firm or Individual Name			
Address			
City		State	Zip
Country			
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	Robert C. McConnell	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.**

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 10115-05663 US

In re Application of: Alexander Kurganov

Application No.: 15/269,776

Filed: September 19, 2016

For: Robust Voice Browser System and Voice Activated Device Controller

The applicant, Parus Holdings, Inc., owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 9451084 & 8185402 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

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

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

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 33,830

/Reena Kuyper/ — Signature
03-13-2017 — Date

Reena Kuyper — Typed or printed name

Of Patent Law Works — Title
(385) 232-7854 — Telephone Number

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

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 10115-05663 US

In re Application of: Alexander Kurganov

Application No.: 15/269,776

Filed: September 19, 2016

For: Robust Voice Browser System and Voice Activated Device Controller

The applicant, Parus Holdings, Inc., owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 7881941 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

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

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

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 33,830

/Reena Kuyper/ — Signature
03-13-2017 — Date

Reena Kuyper — Typed or printed name

Of Patent Law Works — Title
(385) 232-7854 — Telephone Number

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

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

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

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

Electronic Patent Application Fee Transmittal

Application Number:	15269776
Filing Date:	19-Sep-2016
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Filer:	Reena Kuyper/Jodee Butler
Attorney Docket Number:	10115-05709 US

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
		Total in USD ($)		**160**

Electronic Acknowledgement Receipt	
EFS ID:	28618627
Application Number:	15269776
International Application Number:	
Confirmation Number:	2723
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	93219
Filer:	Reena Kuyper
Filer Authorized By:	
Attorney Docket Number:	10115-05709 US
Receipt Date:	13-MAR-2017
Filing Date:	19-SEP-2016
Time Stamp:	20:00:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$160
RAM confirmation Number	031417INTEFSW20034300
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	05709US20170313_Amendment_A.pdf	110105 d4a1164fef53368d6836ba47e1a59d82b5fe168d	no	15
Warnings:					
Information:					
2	Power of Attorney	05709US20170313_POA.pdf	215953 d457d7ecbdd13056140753b06656abd99e4beeb8	no	3
Warnings:					
Information:					
3	Statutory disclaimers per MPEP 1490	05709US20170313_TerminalDisclaimer.pdf	81573 808fef60b7df1eb06055c8122e14c6b47478b4e5	no	3
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30641 10e80bc0a4f92b5b087adf020710a0235664ae1f	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	438272		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/269,776	Filing Date 09/19/2016	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

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

APPLICATION AS AMENDED – PART II

AMENDMENT	03/13/2017	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 28	Minus	** 30	= 0	X $40 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

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

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

LIE
LINDA HUMES

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/269,776	09/19/2016	Alexander Kurganov	10115-05709 US

CONFIRMATION NO. 2723

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

IMPROPER CFR REQUEST

OC000000089196311

Date Mailed: 02/14/2017

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Continuity, Priority Claims, Petitions, and Non-Publication Requests

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The priority or continuity claim has not been entered because it was not filed during the required time period. Applicant may wish to consider filing a petition to accept an unintentionally delayed claim for priority. See 37 CFR 1.55 or 1.78.

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

/hsarwari/

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

FIRST INVENTOR:	Alexander Kurganov
APPLICATION NO:	15/269,776
FILING DATE:	September 19, 2016
TITLE:	Robust Voice Browser System and Voice Activated Device Controller
EXAMINER:	Vijay B. Chawan
GROUP ART UNIT:	2658
ATTY. DKT. NO:	10115-05709 US
CONFIRMATION NO:	2723

CERTIFICATE OF EFS-WEB TRANSMISSION

Pursuant to 240 OG 45 and the Legal Framework For EFS-Web, I hereby certify that this follow-on correspondence is being officially submitted through the USPTO EFS-Web system from the Eastern Time Zone of the United States on the local date shown below:

Dated: February 10th, 2017 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830

COMMISSIONER FOR PATENTS
OFFICE OF INITIAL PATENT EXAMINATION
CUSTOMER SERVICE CENTER
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Sir/Madam:

Further to the Request for Corrected Filing Receipt and Substitute Application Data Sheet filed on September 21, 2016, for which no response has yet been received, and further to subsequent telephone conversations with the U.S. Patent Office's Applications Assistant Unit on February 9, 2017, based on the assumption that the Request filed on September 21, 2016, has not yet been considered, the undersigned respectfully submits that this application is under

prioritized examination (track 1), and requests a Corrected Filing receipt to reflect the correct chain of priority, submitted again in the attached Request for Corrected Data Sheet (with underlining that indicates the added chain of priority) and accompanied by a copy of the first page of the continuation application filed (with the correct chain of priority noted in the cross-reference to related applications, *see* attached Exhibit A and below).

> *This application is a continuation of Application Serial No. 13/462,819, entitled "Robust Voice Browser System and Voice Activated Device Controller," filed May 3, 2012, which is a continuation of Application Serial No. 12/973,475, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed December 20, 2010, which is a continuation of Application Serial No. 12/030,556, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 13, 2008, now U.S. Patent No. 7,881,941, which is a continuation application of Application Serial No. 11/409,703, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 24, 2006, now US Patent No. 7,386,455, which is a continuation application of Application Serial No. 10/821,690, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 9, 2004, now US Patent No. 7,076,431, which is a continuation application of Application Serial No. 09/776,996, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 5, 2001, now US Patent No. 6,721,705, which claims priority to U.S. Provisional Application Serial No. 60/180,344, entitled "Voice Activated Information Retrieval System," filed February 4, 2000 and U.S. Provisional Application No. 60/233,068, filed September 15, 2000, entitled "Robust Voice Browser System and Voice Activated Device Controller, all assigned to the assignee of the present application. The subject matter in the above-identified co-pending and commonly owned applications is incorporated herein by reference.*

This corrected Application Data Sheet submitted again replaces and corrects the priority data noted in the Domestic Benefit/National Stage Information Section of the Substitute Application Data Sheet filed on September 21, 2016, with the proper chain of priority indicated in the cross-reference section indicated above.

The changes are also indicated in a Marked-Up Application Data Sheet submitted herewith. A corrected Filing Receipt indicating the correct chain of priority is respectfully requested.

Respectfully submitted,
ALEXANDER KURGANOV

Dated: February 10th, 2017 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830
Of
PATENT LAW WORKS LLP
201 South Main Street, Suite 250
Salt Lake City, UT 84111
Tel.: (650) 537-4509
Fax: (801) 355-0160
Email: rkuyper@patentlawworks.net

Exhibit A

ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of Application Serial No. 13/462,819, entitled "Robust Voice Browser System and Voice Activated Device Controller," filed May 3, 2012, which is a continuation of Application Serial No. 12/973,475, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed December 20, 2010, which is a continuation of Application Serial No. 12/030,556, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 13, 2008, now U.S. Patent No. 7,881,941, which is a continuation application of Application Serial No. 11/409,703, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 24, 2006, now US Patent No. 7,386,455, which is a continuation application of Application Serial No. 10/821,690, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 9, 2004, now US Patent No. 7,076,431, which is a continuation application of Application Serial No. 09/776,996, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 5, 2001, now US Patent No. 6,721,705, which claims priority to U.S. Provisional Application Serial No. 60/180,344, entitled "Voice Activated Information Retrieval System," filed February 4, 2000 and U.S. Provisional Application No. 60/233,068, filed September 15, 2000, entitled "Robust Voice Browser System and Voice Activated Device Controller, all assigned to the assignee of the present application. The subject matter in the above-identified co-pending and commonly owned applications is incorporated herein by reference.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alexander		Kurganov	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Buffalo Grove	State/Province	IL	Country of Residence	US

Mailing Address of Inventor:

Address 1	c/o Parus Holdings, Inc.		
Address 2	3000 Lakeside Drive, Suite 110S		
City	Bannockburn	**State/Province**	IL
Postal Code	60015	**Country**	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	93219		
Email Address	docketing@patentlawworks.net	Add Email	Remove Email

Application Information:

Title of the Invention	Robust Voice Browser System and Voice Activated Device Controller		
Attorney Docket Number	10115-05709 US	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		**Suggested Figure for Publication (if any)**	

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	93219		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	13462819	2012-05-03

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13462819	Continuation of	12973475	2010-12-20	8185402	2012-05-22
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12973475	Continuation of	12030556	2008-02-13	7881941	2011-02-01
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12030556	Continuation of	11409703	2006-04-24	7386455	2008-06-10
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11409703	Continuation of	10821690	2004-04-09	7076431	2006-07-11
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
10821690	Continuation of	09776996	2001-02-05	6721705	2004-04-13
Prior Application Status	Expired			Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
09776996	Claims benefit of provisional	60180344	2000-02-04		
Prior Application Status	Expired			Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
09776996	Claims benefit of provisional	60233068	2000-09-15		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

			Remove
Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Parus Holdings, Inc.

Mailing Address Information For Applicant:

Address 1	3000 Lakeside Drive, Suite 110S		
Address 2			
City	Bannockburn	**State/Province**	IL
Country	US	Postal Code	60015
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Reena Kuyper/			Date (YYYY-MM-DD)	2017-02-10
First Name	Reena	Last Name	Kuyper	Registration Number	33830

Additional Signature may be generated within this form by selecting the Add button.

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This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	28329797
Application Number:	15269776
International Application Number:	
Confirmation Number:	2723
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	93219
Filer:	Reena Kuyper
Filer Authorized By:	
Attorney Docket Number:	10115-05709 US
Receipt Date:	10-FEB-2017
Filing Date:	19-SEP-2016
Time Stamp:	19:46:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	05709US20170210_RequestCorrOFR.pdf	61123 454f5f26d41d6168eca0fb36a9fa513cd2a76bf7	no	5

Warnings:

Information:					
2	Application Data Sheet	05709US20170210_Substitute ADS.pdf	108565 ee5c1aa098c45c3a56b006c25b399f6de4f6e8b7	no	9
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
			Total Files Size (in bytes):	169688	

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

PTO/SB/08a (01-10)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	0174465		1876-03-07	Bell	
	2	3728486		1973-04-17	Kraus	
	3	4058838		1977-11-15	Crager et al.	
	4	4100377		1978-07-11	Flanagan	
	5	4158750		1979-06-19	Sakoe et al.	
	6	4313035		1982-01-26	Jordan	
	7	4327251		1982-04-27	Fomenko et al.	
	8	4340783		1982-07-20	Sugiyama et al.	

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	Art Unit	2658
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	Attorney Docket Number	10115-05709 US

	9	4340797		1982-07-20	Takano et al.	
	10	4340800		1982-07-20	Ueda et al.	
	11	4371752		1983-02-01	Matthews	
	12	4481574		1984-11-06	DeFino et al.	
	13	4489438		1984-12-18	Hughes	
	14	4500751		1985-02-19	Darland et al.	
	15	4513390		1985-04-23	Walter et al.	
	16	4523055		1985-06-11	Hohl et al.	
	17	4549047		1985-10-22	Brian et al.	
	18	4584434		1986-04-22	Hashimoto	
	19	4585906		1986-04-29	Matthews et al.	

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	20	4596900		1985-06-24	Jackson	
	21	4602129		1986-07-22	Matthews et al.	
	22	4635253		1987-01-06	Urui et al.	
	23	4652700		1987-03-24	Matthews et al.	
	24	4696028		1987-09-22	Morganstein et al.	
	25	4713837		1987-12-15	Gordon	
	26	4747127		1988-05-24	Hansen et al.	
	27	4748656		1988-05-31	Gibbs et al.	
	28	4755932		1988-07-05	Diedrich	
	29	4757525		1988-07-12	Matthews et al.	
	30	4761807		1988-08-02	Matthews et al.	

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	31	4763317		1988-08-09	Lehman et al.	
	32	4769719		1988-09-06	Endo	
	33	4771425		1988-09-13	Baran et al.	
	34	4776016		1988-10-04	Hansen	
	35	4782517		1988-11-01	Bernardis et al.	
	36	4792968		1988-12-20	Katz	
	37	4799144		1989-01-17	Parruck et al.	
	38	4809321		1989-02-28	Morganstein et al.	
	39	4811381		1989-03-07	Woo et al.	
	40	4837798		1989-06-06	Cohen et al.	
	41	4847891		1989-07-11	Kotani	

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	Art Unit	2658
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	Attorney Docket Number	10115-05709 US

	42	4850012		1989-07-18	Mehta et al.	
	43	4852149		1989-07-25	Zwick et al.	
	44	4852170		1989-07-25	Bordeaux	
	45	4866758		1989-09-12	Heinzelmann	
	46	4873719		1989-10-10	Reese	
	47	4879743		1989-11-07	Burke et al.	
	48	4893333		1990-01-09	Baran et al.	
	49	4893335		1990-01-09	Fuller et al.	
	50	4903289		1990-02-20	Hashimoto	
	51	4903291		1990-02-20	Tsurufuji et al.	
	52	4905273		1990-02-27	Gordon et al.	

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	53	4907079		1990-03-06	Turner et al.	
	54	4918722		1990-04-17	Duehren et al.	
	55	4922518		1990-05-01	Gordon et al.	
	56	4922520		1990-05-01	Bernard et al.	
	57	4922526		1990-05-01	Morganstein et al.	
	58	4926462		1990-05-15	Ladd et al.	
	59	4930150		1990-05-29	Katz	
	60	4933966		1990-06-12	Hird et al.	
	61	4935955		1990-06-19	Neudorfer	
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	63	4941170		1990-07-10	Herbst	

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	64	4942598		1990-07-17	Davis	
	65	4953204		1990-08-28	Cuschleg Jr. et al.	
	66	4955047		1990-09-04	Morganstein et al.	
	67	4956835		1990-09-11	Grover	
	68	4959854		1990-09-25	Cave et al.	
	69	4967288		1990-10-30	Mizutori et al.	
	70	4969184		1990-11-06	Gordon et al.	
	71	4972462		1990-11-20	Shibata	
	72	4974254		1990-11-27	Perine et al.	
	73	4975941		1990-12-04	Morganstein et al.	
	74	4985913		1991-01-15	Shalom	

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	75	4994926		1991-02-19	Gordon et al.	
	76	4996704		1991-02-26	Brunson	
	77	5003575		1991-03-26	Chamberlin et al.	
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	79	5008926		1991-04-16	Misholi	
	80	5020095		1991-05-28	Morganstein et al.	
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	83	5036533		1991-07-30	Carter et al.	
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	85	5065254		1991-11-12	Hishida	

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	86	5086385		1992-02-04	Launey et al.	
	87	5095445		1992-03-10	Sekiguchi	
	88	5099509		1992-03-24	Morganstein et al.	
	89	5109405		1992-04-28	Morganstein	
	90	5128984		1992-07-07	Katz	
	91	5131024		1992-07-14	Pugh et al.	
	92	5133004		1992-07-21	Heileman, Jr.	
	93	5146452		1992-09-08	Pekarske	
	94	5166974		1992-11-24	Morganstein et al.	
	95	5179585		1993-01-12	MacMillan et al.	
	96	5193110		1993-03-09	Jones et al.	

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	Attorney Docket Number	10115-05709 US

	97	5195086		1993-03-16	Baumgartner et al.	
	98	5233600		1993-08-03	Pekarske	
	99	5243643		1993-09-07	Sattar et al.	
	100	5243645		1993-09-07	Bissell et al.	
	101	5249219		1993-09-28	Morganstein et al.	
	102	5255305		1993-10-19	Sattar	
	103	5263084		1993-11-16	Chaput et al.	
	104	5276729		1994-01-04	Higuchi et al.	
	105	5287199		1994-02-15	Zoccolillo	
	106	5291302		1994-03-01	Gordon et al.	
	107	5291479		1994-03-01	Vaziri et al.	

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	108	5303298		1994-04-12	Morganstein et al.	
	109	5307399		1994-04-26	Dai et al.	
	110	5309504		1994-05-03	Morganstein	
	111	5325421		1994-06-28	Hou et al.	
	112	5327486		1994-07-05	Wolff et al.	
	113	5327529		1994-07-05	Fults et al.	
	114	5329578		1994-07-12	Brennan et al.	
	115	5333266		1994-07-26	Boaz et al.	
	116	5347574		1994-09-13	Morganstein	
	117	5355403		1994-10-11	Richardson, Jr. et al.	
	118	5359598		1994-10-25	Steagall et al.	

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	119	5365524		1994-11-15	Hiller et al	
	120	5365574		1994-11-15	Hunt et al.	
	121	5375161		1994-12-20	Fuller et al.	
	122	5384771		1995-01-24	Isidoro et al.	
	123	5404231		1995-04-04	Bloomfield	
	124	5408526		1995-04-18	McFarland et al.	
	125	5414754		1995-05-09	Pugh et al.	
	126	5416834		1995-05-16	Bales et al.	
	127	5426421		1995-06-20	Gray	
	128	5432845		1995-07-11	Burd et al.	
	129	5436963		1995-07-25	Fitzpatrick et al.	

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	130	5459584		1995-10-17	Gordon et al.	
	131	5463684		1995-10-31	Morduch et al.	
	132	5475791		1995-12-12	Schalk et al.	
	133	5479487		1995-12-26	Hammond	
	134	5495484		1996-02-27	Self et al.	
	135	5497373		1996-03-05	Hulen et al.	
	136	5499288		1996-03-12	Hunt et al.	
	137	5515427		1996-05-07	Carlsen et al.	
	138	5517558		1996-05-14	Schalk	
	139	5526353		1996-06-11	Henley et al.	
	140	5533115		1996-07-02	Hollenbach et al.	

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	Attorney Docket Number	10115-05709 US

	141	5537461		1996-07-16	Bridges et al.	
	142	5555100		1996-09-10	Bloomfield et al.	
	143	5559611		1996-09-24	Bloomfield et al.	
	144	5559859		1996-09-24	Dai et al.	
	145	5566236		1996-10-15	Melampy et al.	
	146	5603031		1997-02-11	White et al.	
	147	5608786		1997-03-04	Gordon	
	148	5610910		1997-03-11	Focsaneanu et al.	
	149	5610970		1997-03-11	Fuller et al.	
	150	5611031		1997-03-11	Hertzfeld et al.	
	151	5630079		1997-05-13	McLaughlin	

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	152	5652789		1997-07-29	Miner et al.	
	153	5657376		1997-08-12	Espeut et al.	
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	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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	47	PureSpeech, "Meet the Voice of Juggler!", pp. 1-3, the date of November 18, 1996 is shown at the top of Page 1.	☐
	48	PureSpeech's Juggler, Teleconnect, December 1996 issue, p. 36.	☐
	49	PUTZ, Steve, "Interactive Information Services Using World-Wide Web Hypertext, First Int'l Conference on World-Wide Web (May 25-27, 1994), 10 pages.	☐
	50	Reply Brief of Appellant Parus Holdings, Inc., submitted on September 6, 2016, to the United States Court of Appeal for the Federal Circuit, 40 pages.*	☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15269776
	Filing Date	2016-09-19
	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

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

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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

OR

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

☐ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Reena Kuyper/	Date (YYYY-MM-DD)	2016-12-19
Name/Print	Reena Kuyper	Registration Number	33830

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Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

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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.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
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	First Named Inventor	Alexander Kurganov
	Art Unit	2658
	Examiner Name	Vijay B. Chawan
	Attorney Docket Number	10115-05709 US

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6459910		2002-10-01	Houston	
	2	6477240		2002-11-05	Lim et al.	
	3	6490627		2002-12-03	Kaira et al.	
	4	6505163		2003-01-07	Zhang et al.	
	5	6529948		2003-03-04	Bowman-Amuah	
	6	6532444		2003-03-11	Weber	
	7	6539359		2003-03-25	Ladd et al.	
	8	6546393		2003-04-08	Khan	

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	9	6560604		2003-05-06	Fascenda	
	10	6584439		2003-06-24	Geihufe et al.	
	11	6587822		2003-07-01	Brown et al.	
	12	6593944		2003-07-15	Nicolas et al.	
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	14	6594692		2003-07-15	Reisman	
	15	6606611		2003-08-12	Khan	
	16	6618039		2003-09-09	Grant et al.	
	17	6618726		2003-09-09	Colbath et al.	
	18	6618763		2003-09-09	Steinberg	
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	21	6665640		2003-12-16	Bennett et al.	
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	23	6704024		2004-03-09	Robotham et al.	
	24	6718015		2004-04-06	Berstis	
	25	6721705		2004-04-13	Kurganov et al.	
	26	6724868		2004-04-20	Pradhan et al.	
	27	6732142		2004-05-04	Bates et al.	
	28	6763388		2004-07-13	Tsimelzon	
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	31	6785266		2004-08-31	Swartz	
	32	6807257		2004-10-19	Kurganov	
	33	6812939		2004-11-02	Flores et al.	
	34	6823370		2004-11-23	Kredo et al.	
	35	6888929		2005-05-03	Saylor et al.	
	36	6922733		2005-07-26	Kuiken et al.	
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	38	6964012		2005-11-08	Zirngibl et al.	
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	42	6999804		2006-02-14	Engstrom et al.	
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	46	7076431		2006-07-11	Kurganov et al.	
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	50	7327723		2008-02-05	Kurganov	
	51	7386455		2008-06-10	Kurganov	
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	56	8131267		2012-03-06	Lichorowicz et al.	
	57	8185402		2012-05-22	Kurganov et al.	
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	60	8838074		2014-09-16	Kurganov	
	61	8843141		2014-09-23	Kurganov	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear

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FOREIGN PATENT DOCUMENTS

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	1							☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	ROSS, Randy, "Retrieve E-mail from a Telephone", October 7,1996, pp. 1-2, available at http://resna.org/ProfessOrg?Sigs?SIGSites/sig11/archive/juggler.htm (accessed on December 8,2006). Printout indicates that the article was originally printed in PC World.	☐
	2	SARTORI, M., "Speech Recognition", April 1995, pp. 1-9, Mercury Communications, available at www.gar.co. ukltechnologLwatch/speech.htm (accessed Mar. 15, 2005).	☐
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	4	SCHMANDT et al., "Phone Shell: The Telephone as Computer Terminal", ACM Multimedia, 1993, 11 pgs.	☐
	5	SCHMANDT et al., "Phone Slave: A Graphical Telecommunictions Interface", Proceedings of the SID, 1985, vol. 26/1, pp. 79-82.	☐

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	6	Secretarial Branch Exchanged, IBM Technical Disclosure Bulletin, vol. 26 (5), October 1983, pp. 2645-47.	☐
	7	SHIMAMURA, et al., "Review of the Electrical Communication Laboratories", vol. 418 (33), No.1, Tokyo, Japan, 1985, pp.31-39.	☐
	8	The VMX Systems Product Reference Manual: Product Description Volume, May 1994, vol. 1, release 7.1, VMX, Inc. (Octel Communications Corp.) San Jose, CA USA.	☐
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	10	VMXworks Product Reference Manual: Volume 3 Programmer's Guide, July 1994, vols. 3 & 4, Release 3.1, Octel Communications corp., Milpitas, CA, USA.	☐
	11	Wikipedia Definition of "Internet", available at http://en.wikipedia.org/wiki/Internet. Retrieved on February 10, 2016, pp. 24-26.	☐
	12	Wildfire Communication, Inc., Harvard Business School, March 21, 1996, Publ. No. 9-396-305, pp. 1-22.	☐
	13	WordPerfect: New Telephony Features Boost Office, WordPerfect Office TechBrief, 1994, Info-World Publishing. Co., vol. 10, Issue 2, pp. 2-3.	☐
	14	YANG, C., "INETPhone - Telephone Services and Servers on the Internet", April 1995, University of North Texas, pp. 1-6.	☐

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IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

FIRST INVENTOR:	Alexander Kurganov
APPLICATION NO:	15/269,776
FILING DATE:	September 19, 2016
TITLE:	Robust Voice Browser System and Voice Activated Device Controller
EXAMINER:	Vijay B. Chawan
GROUP ART UNIT:	2658
ATTY. DKT. NO:	10115-05709 US
CONFIRMATION NO:	2723

CERTIFICATE OF EFS-WEB TRANSMISSION

Pursuant to 240 OG 45 and the Legal Framework For EFS-Web, I hereby certify that this follow-on correspondence is being officially submitted through the USPTO EFS-Web system from the Eastern Time Zone of the United States on the local date shown below:

Dated: December 19th, 2016 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

TRANSMITTAL FOR INFORMATION DISCLOSURE STATEMENT

In compliance with the Applicant's duty under 37 CFR § 1.56, the following information is brought to the attention of the Examiner. The items are listed on the attached form PTO/SB/08a. With the exception of the asterisked foreign publications and NPL, copies of the listed items are not attached, as each of the non-asterisked items were cited by or submitted to the Patent Office in the prior application (Application Serial No. 13/462,819), from which the present application claims priority under §120. *See* 37 C.F.R. 1.98(d).

The items identified in this Information Disclosure Statement may or may not be "material" pursuant to 37 CFR § 1.56 and the submission thereof by Applicant shall not be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicant as such.

The filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information, as defined in 37 CFR § 1.56, exists. The attached Information Disclosure Statement is being filed in accordance with 37 CFR §1.97 and 1.98.

Respectfully submitted,
ALEXANDER KURGANOV ET AL.

Dated: December 19th, 2016 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830
of
PATENT LAW WORKS LLP
201 South Main Street, Suite 250
Salt Lake City, UT 84111
Tel.: (385) 232-7854
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(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Veröffentlichungsnummer:
(11) Publication number:
(11) Numéro de publication:

0 572 544

Internationale Anmeldung veræffentlicht durch die Weltorganisation fßr geistiges Eigentum unter der Nummer:

WO 92/15166 (art.158 des EP*f*).

International application published by the World Intellectual Property Organisation under number:

WO 92/15166 (art.158 of the EPC).

Demande internationale publieà par l'Organisation Mondiale de la Propriàtà sous le numàro:

WO 92/15166 (art.158 de la CBE).

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(11) (C) **1,329,852**

(21) 612,217

(22) 1989/09/21

(45) 1994/05/24

(52) 379-4
C.L. CR. 350-11

BREVETS
MARQUES DE COMMERCE
DROITS D'AUTEUR
DESSINS INDUSTRIELS
TOPOGRAPHIES DE CIRCUITS INTÉGRÉS

(51) INTL.CL.[5] H04N-001/32; H04N-001/44; H04N-001/21; H04M-011/00

(19)(CA) **CANADIAN PATENT** (12)

PATENTS
TRADE-MARKS
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INDUSTRIAL DESIGN
INTEGRATED CIRCUIT TOPOGRAPHY

(54) Facsimile Telecommunications System and Method

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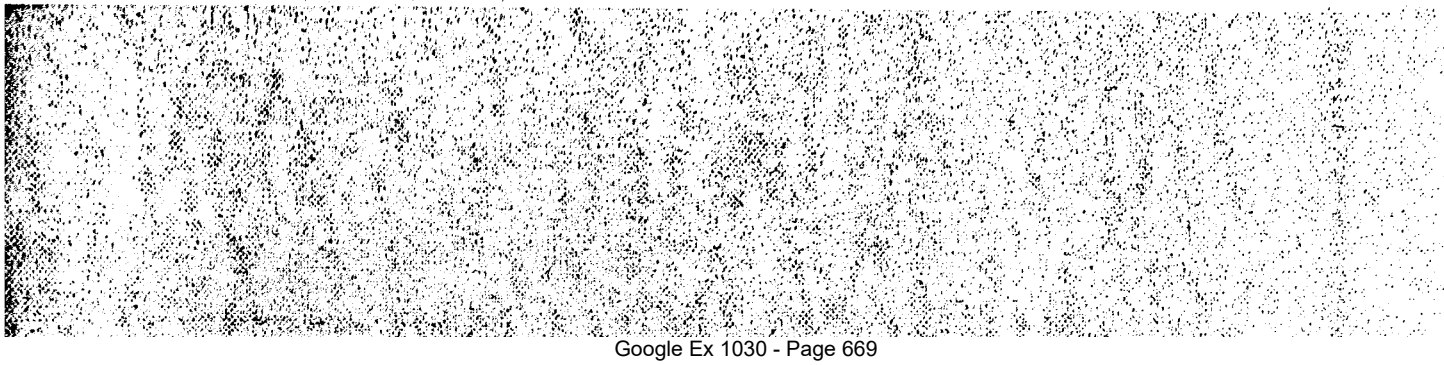
(30) (US) U.S.A. 248,798 1988/09/22

(57) 32 Claims



Facsimile Telecommunications System and Method

Field of the Invention

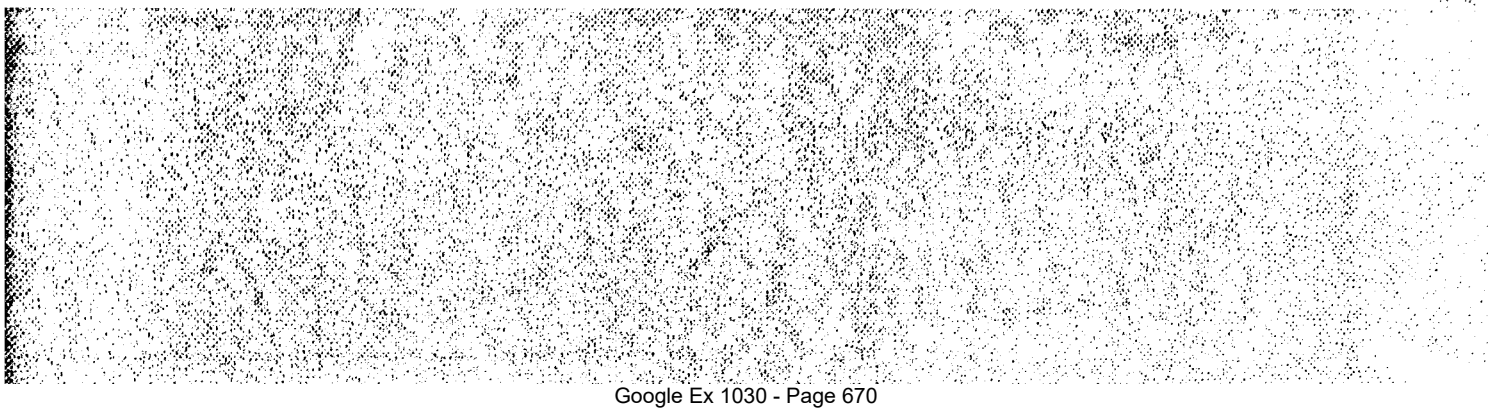
The field of this invention is telecommunications systems used in connection with facsimile transmissions. More specifically, this invention relates to a system and method for enhancing ease of facsimile transmissions and providing features relative to facsimile transmissions not heretofore available.

Background of the Invention

The electronic transmission of documents by way of facsimile (fax) systems employing public and private switched telephone networks has become both commonplace and, often, an essential component in many business activities. In such a setting, it is very common for the fax terminals (fax machines) to be kept quite busy during a major fraction of the business day. Moreover, where sender and recipient are in different time zones, the "business day" can approach 24 hours, particularly in international activities. It is common for fax users to "broadcast" documents to a number of different recipients, that is, send the same message to several different fax machines. It is also true that the contents of some faxed documents are of such a sensitive nature that the originator or addressee would like to have a measure of control over who might see those documents as they move from the receiving machine to the hands of the actual addressee.

These circumstances present a number of practical problems for a fax user. In order to make a successful fax transmission it is necessary that the receiving machine be available at the time that the transmitting machine attempts to contact it. If the receiving machine is already in use handling another message, the transmitter will receive a "busy" signal. The originator's only recourse is to continue initiating telephone calls until contact can be established. This is a "hit or miss" process at best and can be very wasteful of the originating operator's time.

Some, rather expensive, fax machines have digital memories which will allow them to memorize the document to be transmitted and to be programmed to make multiple redials in an effort to establish contact in an automatic way. However, this is limited to only one or two documents and, more importantly, it ties up the transmitting machine until the effort is successful or abandoned. This is hardly an acceptable solution if that machine has other documents to send or receive.



There are other conditions which can result in a failure to transmit even though a telephone connection has been established. Perhaps the most common of these is the absence of paper in the receiving machine. In such situations, repeated attempts to "redial" will lead to repeated toll charges with each attempt, with no actual success until the receiving machine is serviced (which may be some time if the machine is operating unattended because it is nighttime half-way around the world).

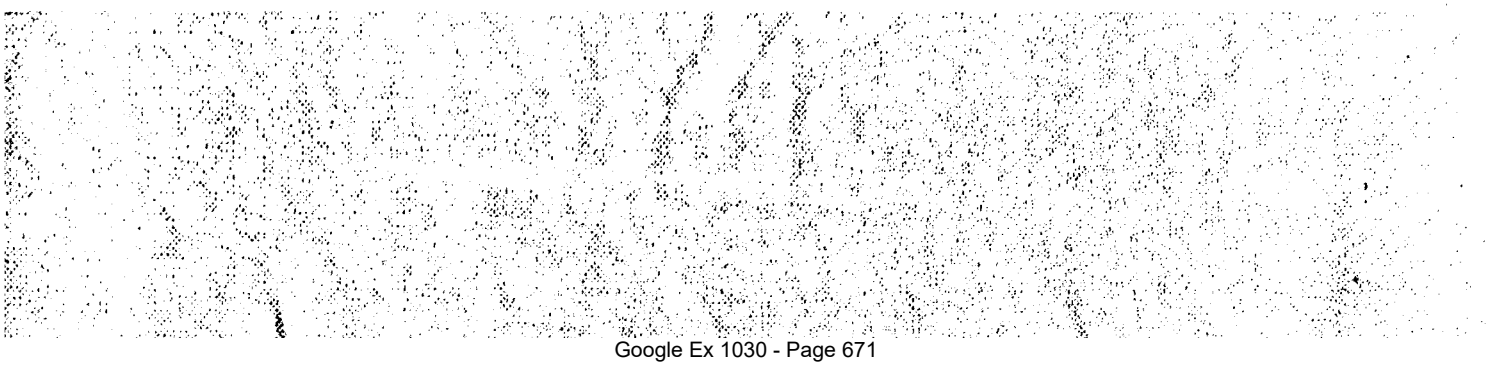
Busy machines which are destined to receive messages are affected by the converse problem. Since they and the prospective transmitting machines must engage in (perhaps, automated) "telephone tag", they are used very inefficiently. When a transmitting machine gets a busy signal, even if it automatically redials, it can only guess at when the receiving machine will be available. Thus, the receiving machine will likely remain idle for some fraction of the time until such an attempt is made.

The practice of broadcasting documents to a number of addressees obviously compounds these problems and adds still others of its own. Even if one does not encounter busy signals or impaired machines, convenient broadcasting demands an expensive memory-type fax machine on the transmitting end. Such machines read in the document once and then proceed to automatically dial the various recipient machines. This process ties up the sending machine and its telephone line and makes them unavailable for incoming calls. This, of course, exacerbates the busy signal problem for those units trying to contact the sending machine.

The security of sensitive documents is still another problem. Once contact is established between two fax machines, the transmission of the document proceeds automatically, irrespective of who may be standing by the receiving machine at the time. In a busy office, the contents of these documents are accessible to the fax operator and anyone else who happens to be in the vicinity.

It is also common for individuals to wish to deliver fax documents to a recipient who is not currently available through a known machine (eg. a person on a business trip). This is a very inconvenient situation in that it requires that the paper documents be held until the traveler phones in from a remote machine. It further requires that there be someone available at that time who has knowledge of and access to the documents intended for the recipient.

Still another concern is adequate accounting control over the billing of calls. Typically, many businesses wish to be



able to track the costs of both fax machine use and the associated telephone charges. While telephone charges can be ascribed from telephone company records, in the present environment these must be related to records of the number of pages transmitted per call and so forth, separately maintained by the fax machine or its attendants.

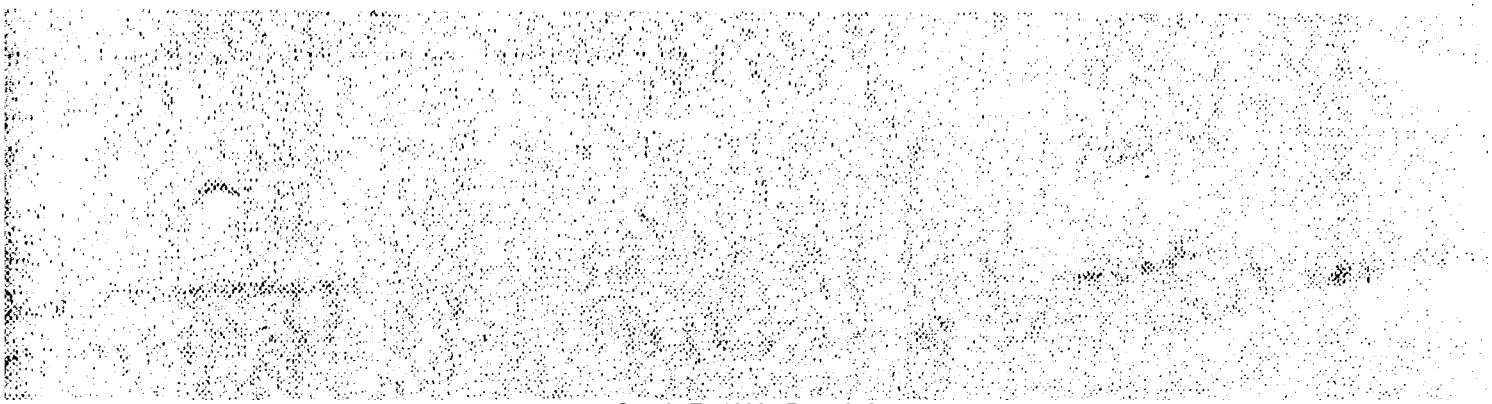
Summary of the Invention

The objects of this invention are to address these many shortcomings of present fax systems and to provide an integrated system for their solution. Furthermore, the intention is to achieve this in a way which is fundamentally compatible with existing fax terminal machines. The basic approach is to provide special computer-based fax Store And Forward Facilities (SAFF's) as an integral part of a switched telephone network system. All fax transmissions entered into the network are routed to such a facility, typically geographically near the originating machine, where they are temporarily stored or "spooled" by the computer in a mass storage buffer, such as a magnetic disk.

The fax message from the originating machine is intended for a destination machine, which may or may not be in a position to immediately answer the call. If the destination machine is within the service region of that SAFF, the system then proceeds to attempt to call the destination fax machine. If the destination machine is within the service area of a different SAFF, the system forwards the fax document data to that facility by long-distance lines, in which case this second facility attempts to call the destination machine. In either case, if contact is established and the message is delivered immediately, the system directs a printed report back to the originating fax machine confirming delivery to the destination machine, and other pertinent data.

If, on the other hand, the delivery cannot be completed immediately due to a busy signal, a machine fault (eg, receiving machine out of paper) or any other reason, the spooled document is saved and the system makes periodic attempts to contact the destination machine and complete the transmission.

In the meantime, the system sends a printed report back to the originating machine acknowledging that the message has been entered into the system, indicating the reason the delivery is being delayed, stating the protocol the system will take to deliver the message, and providing a reference number or "Message Code" which identifies the message and may be used at a later time to trace the status of the document.



Placing the delivering spooling system geographically near the destination machine has the advantage of more economical use of any long-distance lines that may be involved. These lines are used only to move the message from the originator to the spooling system in the vicinity of the destination, which is virtually certain to be successful on the first try. Subsequent attempts to contact the destination machine can be handled more or less locally and need not tie up the bulk of the long-distance facilities.

If the delayed delivery is ultimately successful, the system will send a printed delivery report to the originating machine. On the other hand, if the delivery attempt protocol has gone through its whole cycle without success, a report will be sent to the originator indicating that the delivery procedure has failed and requesting instructions as to how to proceed (eg. try again, redirect the message to an alternate number, or delete the message).

An important feature of the system is that it recognizes all of the documents that are spooled in the system at a given time for a given destination machine. These are identified and linked together to form a message queue for that machine. In this way, once contact is established, all of the waiting messages can be "dumped" to that machine in a continuous batch. Furthermore, if new messages arrive while that dump is occurring, they are simply appended to the end of the active queue and are transmitted when their turn comes. This has the advantage of greatly enhancing the utilization efficiency of a busy destination machine.

Since all outgoing fax documents are temporarily stored at the facility near the originating machine, it is also practical to provide for automatic broadcasting of documents to multiple destinations. Lists of "broadcast groups" of phone numbers can be programmed into the facility by users, or a list of destination phone numbers entered "by hand" at the time of a call. The SAFF can then broadcast the message to every machine of the selected list. This is a great advantage to broadcast users in that they need only tie up their machines for one outgoing transmission, the one to the SAFF. The SAFF copies the message to all of the destination machines as outlined above. In the meantime, the originating machine is available for receiving or transmitting other documents.

Similarly, since the documents are stored near the originator, the system can permit messages which have already been sent to be copied to other destinations after the fact, without the necessity of resending the message to the SAFF. Likewise, since the messages are also spooled in a facility near the destination, the system also provides the recipient with

the option of forwarding or redirecting documents to still other destinations, as if the recipient were the originator. The system can also accept and store messages destined for a fictitious destination or "Mail Box". Thus, individuals who are traveling can, at their convenience, dial into the system and pick up any waiting documents.

Closely akin to these features is the ability to have the originator of a transmission include the requirement that the recipient provide a security code, such as a PIN number, in order to release the document from the spool to the destination machine. In this case, the SAFF sends a written report to the destination machine advising that a secure message is waiting for a particular recipient and the fax identification of the originating machine. The recipient must then call in to the SAFF and key in the security code to initiate the delivery of the document. Since the document is spooled, the delivery easily may be delayed until the recipient is available to supply the code.

Finally, since the documents and their delivery are both under the control of the telephone system, as a special service the telephone call accounting system can provide both time and charges for the telephone services rendered and fax information, such as pages transmitted, sorted according to the originator's clients. This can greatly facilitate the fax user who wishes to do cost accounting or to bill clients for costs incurred.

Brief Description of the Drawings

Other objects and advantages of the present invention will be apparent from the following Detailed Description of the preferred embodiments thereof and from the attached Drawings of which:

Fig. 1 illustrates the inter-relationships of the principal elements of a connection between two SAFFs.

Fig. 2 shows a more detailed view of the various systems within a single SAFF, such as those shown in Figure 1.

Fig. 3 illustrates the major components of the Originate Function in the SAFFs shown in Figures 1 and 2.

Fig. 4 illustrates the major components of the Answer Function in the SAFFs shown in Figures 1 and 2.

Figs. 5a and b show a flow chart describing the general processing steps required to handle a fax or voice message

incoming to the Originate Function of a SAFF, as described particularly in Figures 2 and 3.

Figs. 6a and b show a flow chart describing the general processing steps required to handle the delivery of a fax message incoming to the Answer Function of a SAFF, as described particularly in Figures 2 and 4.

Fig. 7 shows a flow chart of the general processing steps required to handle a service request in the General Service unit of a SAFF, as described particularly in Figure 2.

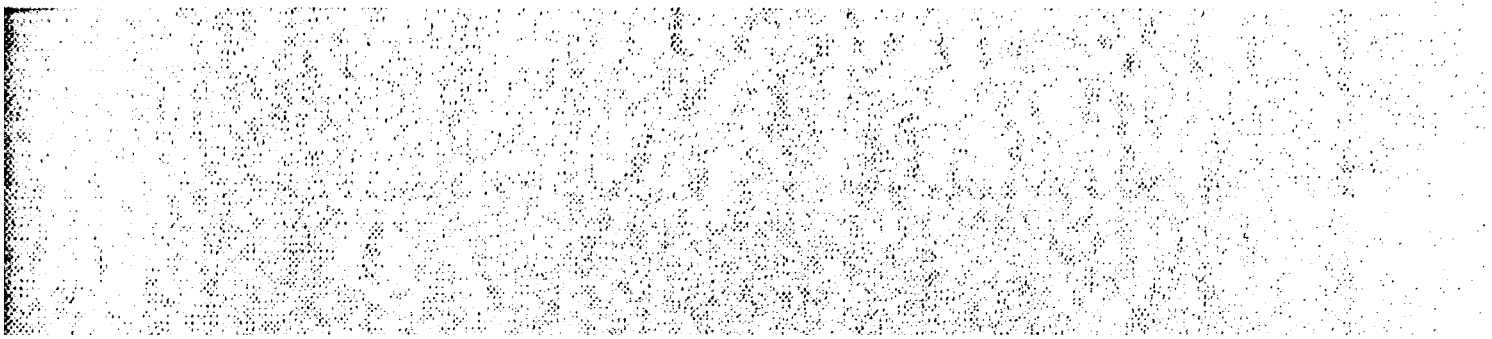
Detailed Description

Introduction

The preferred embodiment of this invention is a multi-function, interactive facsimile transmission system which is integrated into a switched telephone distribution network, where "network" is taken broadly to mean the entire system required to complete a communication from an originator to an answerer. This embodiment provides a comprehensive computerized fax message management system based on automated fax Store And Forward Facilities (SAFF) embedded in the network. This system requires no modifications to existing facsimile machines, but rather, relies on the network to provide the enhanced services.

The system contains several components which actually transmit the fax messages and related information, provide written fax reports to users about the status of messages within the system, allow user intervention in the sequence of automatic actions of the system, provide an accounting of services rendered for both the customer and the telephone company, and control and supervise all of these activities.

In the preferred embodiment, it is presumed that the SAFF's are placed at the interface between the local telephone delivery system and the long-distance delivery system, as indicated in Figures 1 and 2. In this setting, the SAFF system can be controlled and its services offered by either one. However, it is obvious that useful systems can be constructed where the SAFF exists as close to the user as a component of his or her own in-house telephone system (such as a PBX or Centrex) or as remotely as a single, independent, stand-alone SAFF serving a wide geographical area. It is also obvious that commercially viable systems can be constructed which provide subsets of the features of the preferred embodiment. The choice of site/control setting and service features might be driven by any number of economic, market, or legal



considerations, which would militate toward offering the system at an alternate location in the network, or in a "stripped down" form.

To more clearly understand the present invention, it is useful to consider the manner in which a fax transmission occurs in the traditional setting. Here the communication between two machines is initiated when the destination machine answers a telephone call directly from the originating machine. Typically, there is an exchange of digital data identifying the sending and receiving machines to each other and establishing the fax mode or format to be used. If this exchange is satisfactory, then the actual image transmission takes place. Otherwise, the call is terminated, usually with some form of written diagnostic to the respective users.

Message Interception

In the present invention, all fax transmissions initiated by a subscriber to the fax management system are first intercepted by an "originator" SAFF; that is, the SAFF which directly services the originating fax machine. Figure 1 shows two exemplary SAFFs 8 and 18, with interconnections between the SAFFs and with subscriber fax machines being diagrammatically indicated. Thus in Figure 1, the SAFF 8 includes an originate function 9 coupled over telephone lines 4 to originating fax machines 1. Likewise, the SAFF 18 includes an originate function 22 coupled over telephone lines 26 to originating fax machines 30. Each of the SAFFs 8 and 18 also includes respective answer function blocks 12 and 19 respectively connected over telephone lines 6, 24 to fax machines 3, 28. Each of the SAFFs 8, 18 also includes service interfaces 10, 21 coupled via telephone lines 5, 25 to telephones 2, 29. The function and purpose of the service interfaces is more fully explained hereafter, and they are under control of status and control blocks 11 and 21.

Access to the system of Figure 1 can be obtained much the same as access to a specific long-distance company's network. That is, subscribers such as 1 in Figure 1 can dial a unique access code at the time a call is initiated, or a telephone line dedicated to a fax terminal may be permanently routed to the SAFF system, in this case the SAFF 8 of Figure 1. Either way, one accesses SAFF Directed Lines 4 and the SAFF 8 itself in the process of dialing the destination fax machine.

The SAFF 8 then answers the phone in place of the destination machine, such as one of 28 shown in Figure 1 as serviced by SAFF 18. For the moment, this SAFF 8 near the originator becomes the proxy for the destination machine 28. While

noting the actual destination telephone number, the SAFF 8 engages the originating machine in the same digital dialogue that would have occurred if a direct connection to the destination machine had actually been made. Thus, it echoes back the destination telephone number, to identify the intended destination machine, and agrees to accept the fax format requested by the originating machine.

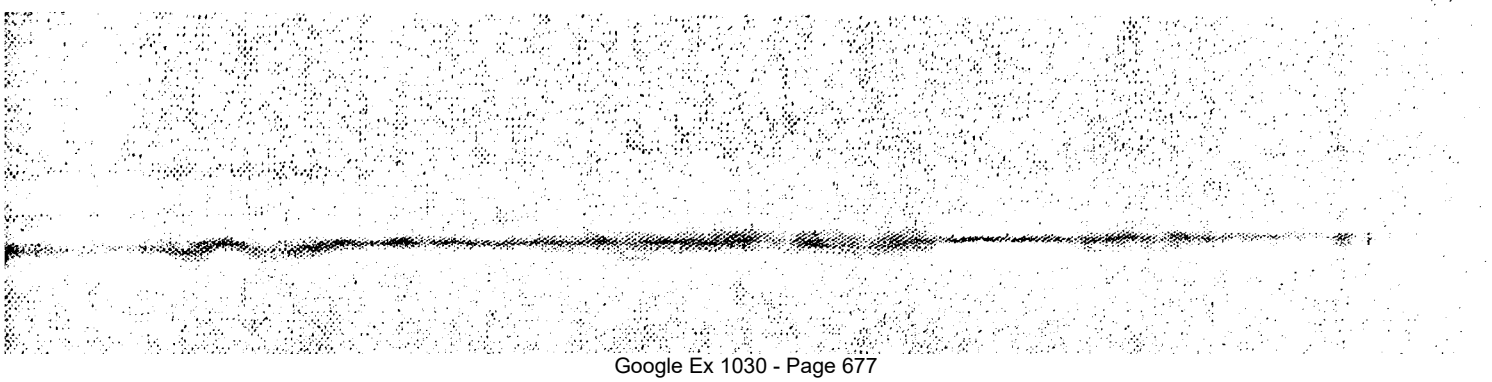
This causes the originating machine 1 to respond by transmitting the fax document image data. The originating machine's identification, the destination machine's telephone number, the fax format, and the document image data are all stored on a mass storage device 67 (in Figure 3), such as a computer magnetic disk unit. Furthermore, a unique alphameric Message Code is assigned to the block of data to identify it while it is resident in the SAFF system. This Message Code is related to the file name for the stored data.

Delivery

At this point the SAFF 8 initiates two actions. The first is to generate an "Acceptance Record" of the transaction to this point. This record, in one form or another, will be returned to the originator as will be described below. The second step is to begin to deliver the fax message to the destination machine 28.

The details of the delivery process depend to some degree on the geographic location of the destination within the network. A single SAFF can, in principle, service a broad geographical area. However, in the preferred embodiment, communications beyond a certain limiting distance involve at least two SAFFs, one 8 near the originator 1 and the other, a "destination SAFF", 18 near the recipient 28 of the document. The choice of one, two, or more SAFFs is determined by network economics, or other considerations, and is not essential to the invention.

For the sake of this discussion, we will define a "local" message to imply that the originating and the destination machines are serviced by the same SAFF. (Although, this does not preclude the possibility that the two machines are some considerable distance apart and connected by a toll call.) On the other hand, we will define a "long-distance" message to mean that the originating and destination fax machines are serviced by different SAFFs and, thus, one SAFF must exchange data with the other, perhaps through intermediaries. Similarly, the term "near" used in connection with a SAFF refers to being within the service area of that SAFF.



Each SAFF 8, 18 has two clearly defined roles: the "Originate Function" 9, 22 for handling data with an originating machine, and the "Answer Function" 19, 12 for handling data with a destination machine. The details of these two subsystems are illustrated in Figures 3 and 4 respectively. In the local message mode, the connection between the Originate Function, such as 9, and the Answer Function, such as 12, is linked within the single SAFF 8 by way of a Local Call Loop-back connection 13, between the two Functions. In the long-distance mode, the Originate Function 9 of SAFF 8, near the originator, is linked to the Answer Function 19 of another SAFF 18, near the destination, by long-distance lines, such as 14, or 16 for SAFF 18. Thus, processing a long-distance message involves the same basic steps as a local message, except that the activity is shared interactively between at least two different SAFFs.

Originate Function

With this understanding of SAFF functions, the following detailed discussion will illustrate the operation of the system in the long-distance case, since it is the more complex, and therefore provides a more comprehensive example. Figures 1, 2, 3, and 4 all show elements of the SAFF system in varying degrees of detail and all will be referred to in the following. It will be noted that some critical elements are shown in more than one of the Figures.

As an example, it is assumed that one of the subscribers 1 attached to SAFF 8 wishes to send a fax message to one of the subscribers 28 attached to SAFF 18. The subscriber 1 places the call to the destination machine 28 which is routed over SAFF Directed Lines 4 to the Originate Function 9 of SAFF 8. These signals originate within the SAFF system and they are picked up by the On-net Interface 64 which is part of the Originate Function, as shown in Figure 3. This Interface signals the Originate Host Computer 70 of the incoming call and the Host responds by directing the incoming data to a Mass Storage Unit 67 where it is stored in a file 68.

During this storage process the Host directs two other activities. It creates a call status record file 69 (Figure 3) in mass storage, recording the time and date of the origination, the telephone number of the calling machine, the telephone number of the destination machine, any security or other special services requested, various housekeeping information, and it assigns the Message Code number which locates not only the status file but also the fax data file associated with it. The Host also passes the destination machine's telephone number to the Outbound Control unit 74 which proceeds to

connect the originating SAFF 8 with the nearest available SAFF 18 to the destination through a long-distance interface 75 over long-distance circuits 79 (14 in Figure 1). In the process of establishing this connection, the Outbound Control unit employs an algorithm which examines the number and kind of available trunk resources and chooses the most efficient combination of these lines for the task required.

Answer Function

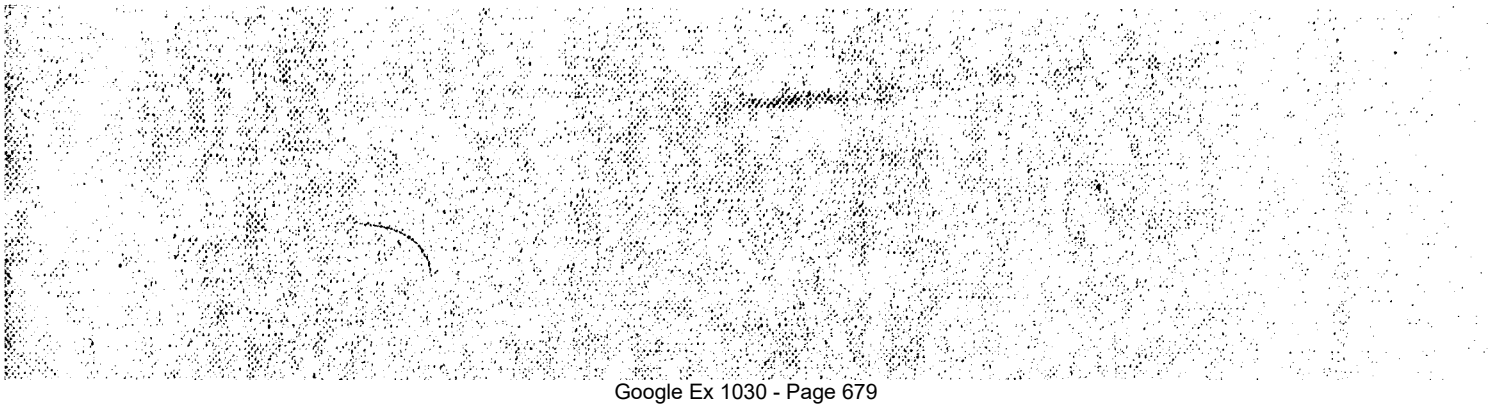
The originating SAFF 8 then proceeds to transmit the originator and destination telephone numbers, the stored fax image, the Message Code, and other housekeeping data to the destination SAFF 18. These data are sent by the most expedient mechanism offered by the long-distance service. For example, if this service employs digital communications, the fax data may well be transmitted at a significantly higher rate than it was originally received into the system.

The fax data is received by the Long-distance Interface 95 (Figure 4) in the Answer Function 19 of the destination SAFF. This unit signals the Answer Host Computer 85 of the incoming data. The Host then routes these data to its Mass Storage facility 87. (It should be noted for later reference that the originator SAFF and the destination SAFF now both have a copy of these data.) The Host notes whether other messages are pending for the destination machine and either opens a Delivery Queue file 88, or appends the new message to the existing Queue File.

The Host also records the arrival time and other pertinent information about the fax message in a Call Status file 90 in Mass Storage unit 87, and sends a status update back to the originating SAFF 8 by way of the Status and Control Interface 84, and the System Status and Control Unit 11 via Long-distance Trunks 15.

It then signals the Local Interface 83 to dial the destination machine's (81 in Figure 4) telephone number on ordinary outgoing local lines 24, 82. If the destination fax's line is available, the destination SAFF now becomes the proxy for the originating fax machine and engages the destination machine in the necessary preliminary digital dialogue.

If this is successful, the document image, including the source and destination identification information, the Message Code, and the entry and delivery times, is played back from storage and delivered to the destination. A "Delivery Record" is then created by the Answer Host 85 which indicates the date and time of delivery, and any other pertinent data. The

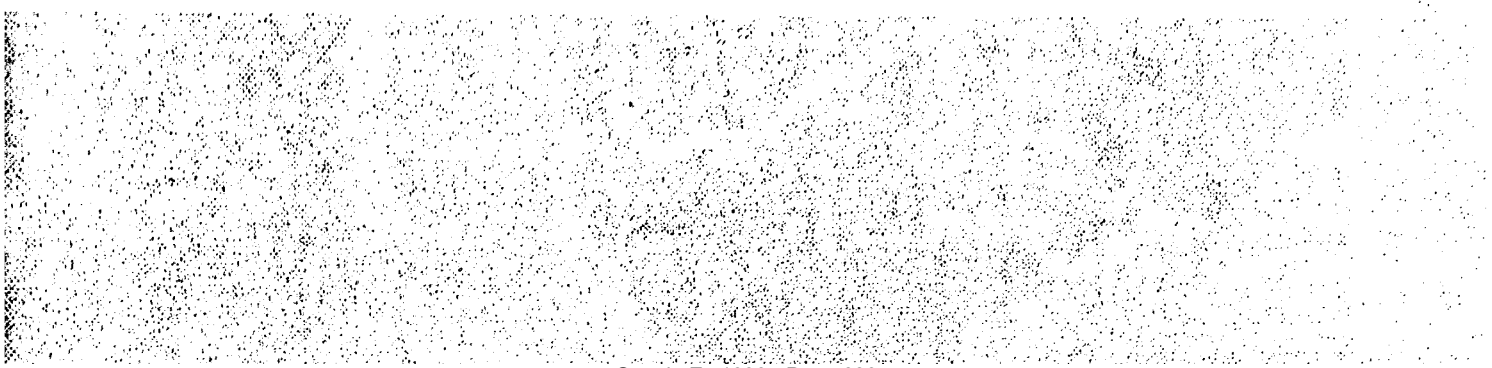


Delivery Record is sent back to the originating SAFF 8, again by way of the Status and Control Interface 84, and the System Status and Control Unit 11, via Long-distance Trunks 15. The originator SAFF 8 then appends this information to the Acceptance Record to form a complete "Transaction File". The originating SAFF 8 then sends this file, as a delivery receipt or report, back to the originating machine 1, 60, as a fax document.

If the destination machine's line is busy, or the contact fails for some other reason, the destination SAFF's Host Computer 85 will enter a sequence whereby it will attempt to contact the destination machine and transmit the document on a predetermined schedule for a specific period of time or number of tries. As this sequence is entered, a "Retry Record" is generated documenting the situation and the system's response to it. This record contains the reason that the delivery was delayed and it indicates which protocol the system will use to attempt to deliver the message. This is transmitted back to the originating SAFF 8, as described above, and appended to the previously described Acceptance Record to form a Transaction File which is then sent as a fax message back to the originator. The assigned Message Code is a part of every transaction report and may be used at any time to trace the status of undelivered documents, as will be described shortly.

If the retry effort is ultimately successful, a Delivery Record is appended to the Transaction File which is sent back to the originating machine. If the effort fails after reaching the predetermined limit, this is also recorded, appended, and sent back to the originator. In this case, the originator is given the option of dialing back into the system within a certain length of time (typically several hours) and instructing the destination SAFF as to how to dispose of the document (eg. repeat retry sequence, forward to a different telephone number, or delete the message).

This process is handled by using an ordinary touchtone phone to dial a multipurpose (perhaps, toll free) fax system "Service Number"; which will be referred to here and in later sections. This might be a unique number for every SAFF, or it might be a standardized number common to many localities, except perhaps for area code, such as is 555-1212 for calling "Information". This Service Number is answered by the General Service Control units (10 in Figure 1, 50 in Figure 2) of the SAFF to which the call is directed. This unit contains an automated voice response system that presents a menu of the available services and prompts the user to select the desired choices by pressing particular numbers on the touchtone keypad. In an advanced embodiment, a computer-based voice



recognition system replaces the keypad and accepts verbal commands in a conversational way.

The General Service Control unit 50 can communicate with its own System Status and Control unit 11, and through that unit, any other such unit 11, 20 via Long-distance Trunks 15. Through these connections, both inquiries relating to messages in the system and instructions as to their disposition may be addressed to the entire SAFF system.

Having selected the "failed-connection message disposition" choice, the user is prompted to key in the Message Code. The system verbally repeats the code and the delivery discrepancy for verification, and then presents a menu of disposition options for the user to select with the keypad.

If the user does not take advantage of this "what to do now" opportunity within the time limit, the message is retransmitted back to the originator with a report. It is then erased from both the originator and destination SAFF files after a suitable delay (typically six hours). If the originator wishes to resend the message during this "grace" period, it may be recovered and resent to the original destination or forwarded to another destination(s), as will be described later.

In each of the various cases where the SAFFs automatically direct fax message status reports (such as, the Acceptance, Delivery, or Retry records above), the system can be programmed to accumulate records from all calls over a period of time (eg. an hour) at the originator SAFF and deliver them as a single fax document at the end of the period or upon request by the originator. This has the advantage of reducing the number of report calls and the subsequent burden on the originating fax machine. The originator SAFF will enter a retry sequence if it finds the originator's line busy or the machine unavailable when it attempts to deliver reports. This is a persistent sequence which it will continue trying for direct contact at intervals of an hour or so for a considerable length of time (eg. 72 hours). It also places a copy of the report in the originator's Mail Box (described below) so that the originator may recover it in between SAFF delivery attempts.

It should also be noted that the originator has the option of dialing the Service Number at any time and inquiring about the status of a given message. Here again, the voice response system prompts, presents menus, and uses the Message Code to locate and report on the current location and condition of the message. A written record can be directed to the originating or destination fax machine, if desired.

Another feature of the system is that the act of accepting and storing an incoming message at the originator SAFF, and the act of dialing and forwarding that message to the destination by the destination SAFF, can overlap in time. That is, if the originator SAFF has lines available, once the initial connection dialogue between the originator and the SAFF is complete, the SAFF may immediately make its first attempt to contact the destination SAFF and, thus, the destination machine, while it is beginning to spool the document.

If this immediate contact is successful, then the message is passed from the originator SAFF 8 to the destination SAFF 18 to the destination machine 28 directly from the Originate Host Computer's memory 70 while the two SAFFs are still in the process of spooling the document to disk. This is facilitated by a "write-through pipeline" whereby the Originate Host 70 passes the incoming fax data through directly to the Outbound Control unit 74 at the same time it is being written to mass storage. It is held in a temporary memory buffer in the Outbound unit until it is clear whether or not an immediate connection to the destination machine is possible. At that point the temporary buffer fax data is either sent and then deleted, or merely deleted. The net effect is that the spooling process only adds a few seconds delay in the message delivery over the traditional direct machine-to-machine contact when the destination machine is readily available.

On the other hand, if lines are limited, the originating SAFF can choose to delay until suitable lines are available. This has the advantage of improving communications resource management and enhancing the efficiency of the telephone system's line usage over the direct contact scheme.

The foregoing describes the basic fax SAFF message handling system and from this discussion several advantages should be apparent. The originating machine always functions as if it makes contact and delivers documents on the first try, thus immediately freeing the machine and the attendant personnel for sending or receiving other transmissions. Likewise, the telephone system only handles one call across its local and long-distance lines from the originating machine to the destination SAFF, since the state of the destination machine has no impact on the call. This significantly improves the efficiency of line usage when messages are addressed to busy fax terminals.

Although some additional calls are needed to deliver the various reports, these require very little long-distance time, as they are transmitted over the circuits as highly compressed coded messages. It is the nearby originating SAFF that translates them into "plain language" for fax delivery as a local

message. As pointed out, additional savings in these local messages can be gained by compiling multiple reports and delivering them in bulk as a single call. It should be noted that the delivery of reports to an originator is a cooperative process between the Originate Function and the Answer Function of the originate SAFF. The Originate Function 9 actually generates these reports and passes them through the Local Call Loop-back 13 (76 in Figure 3) to the Answer Function 12 for delivery as an ordinary fax message.

In addition to these basic features, the design of the system also provides for a number of additional services and advantages which are described below.

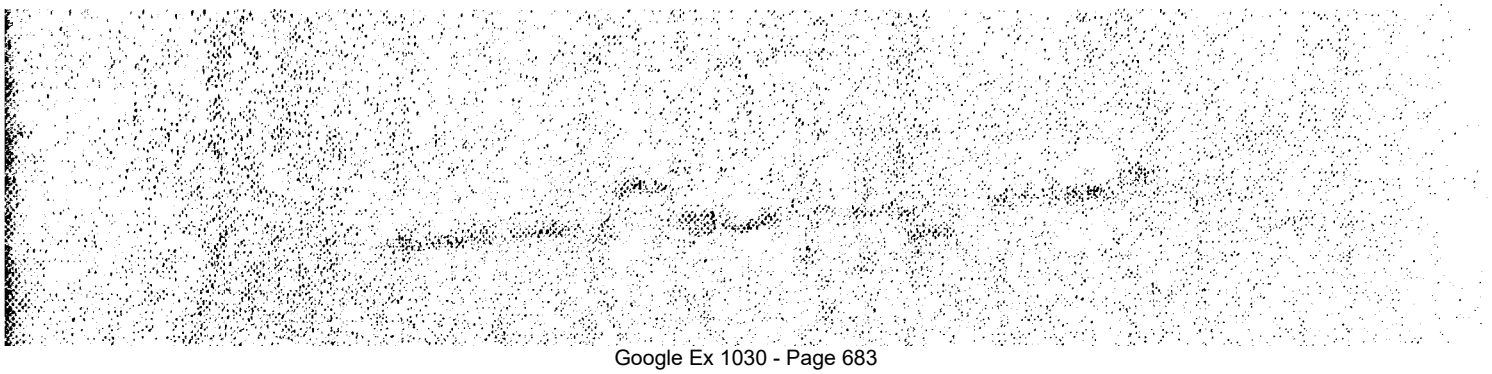
Message Queuing

As pointed out, all fax messages directed to a particular telephone number are spooled by the Answer Function of the destination SAFF, as detailed in Figure 4. The Host Computer 85 controlling this function monitors the incoming messages and links all undelivered messages for a given telephone number into a message Delivery Queue file 88. The computer also compiles a constantly updated, ordered catalog of the file names of the messages waiting for each fax machine.

Consequently, when messages arrive at a rate faster than they can be delivered, for whatever reason, they are held in this queue for delivery. As soon as the destination SAFF establishes contact with the destination machine, it begins sending the entire queue of messages in a single, essentially uninterrupted transmission. Messages that arrive while the transmission is in progress are appended to the end of the queue.

This scheme eliminates the "trial and error" dial and redial attempts that result from a number of independent incoming calls competing in an uncoordinated way for the single destination line. It can significantly enhance the efficiency of the destination fax machine and the long-distance and local telephone circuits connected to a busy machine.

When the queue exceeds a certain limiting size, the destination SAFF will periodically insert and send a "Queue Report" (as a fax document) to the destination machine showing a list of the waiting messages. This list shows the originating machine identification, the time entered into the originator SAFF, the number of pages in the document, and the approximate time that the message will be delivered based on its position in the queue.



The user can advance a particular message to the head of the queue by calling the fax Service Number and supplying the desired message number, by using the voice response menus. The General Service unit 50 directs these instruction to the System Status and Control Unit 11, which in turn directs them to the Answer Function Host 85 through its Status and Control Interface 84.

Alternately, the originator can designate a priority level to a given fax message at the time it is dialed in (eg. by using a different access code). In this case, the destination SAFF will insert higher priority messages ahead of lower priority messages in the queue as they are received. The originator would normally pay a premium price for this service.

Another originator option is the time of delivery. If desired, the originator can specify the time of day which the message should be delivered. In this case the message is forwarded to the destination SAFF directly, but is not entered into the queue until the specified time. This can be used in combination with an assigned high priority to insert the message at the head of the queue at the appointed time.

When messages are finally delivered to the destination machine they are not immediately erased from the spool file 88 at the destination SAFF. Rather, they are maintained in a "Delivered Message" directory 90 for a period of time (typically six hours). A feature offered by this action is the opportunity for the subscribing recipient of a message to make additional copies, redirect, or forward copies of selected messages to other destinations. This is accomplished by calling the Service Number and selecting the appropriate choices from the voice response menus.

Security and Mail Boxes

It is not uncommon for documents of a sensitive nature to be sent by facsimile from place to place. This is often a problem, especially in a busy office or where a machine is nominally unattended during the transmission, in that the originator has no control over who may be standing by the machine when the document prints out, or who may leaf through a stack of faxes piled up in a hopper right after lunch.

This is a problem which others have attempted to deal with in a variety of ways. For example, Bond, U.S. Pats. 3,594,495 and 3,641,432, discloses a "radio facsimile postal system" which features the direct delivery of documents to specific addressees by facsimile via communications

satellites. In this system, intended as a replacement for or supplement to the ordinary "paper" postal system, fax messages were directed from special public fax terminals operated by the post office to a central satellite earth-station. Here the messages were sorted according to their geographical destination for concentration and uplinking to a satellite servicing that area. The satellite then broadcasts all of the uplinked messages back to Earth.

In principle, anyone with a radio receiver in the satellite's service area could access any of the messages, so Bond built in a "privacy code" which operated with the receiver to allow the message to print out only on the desired machine. In reality, this privacy code was nothing more than an addressing signal which enables the selected fax receiving system. Thus, Bond's system is merely a restricted version of the services presently provided to fax users by the telephone networks. His privacy code function is the same as a telephone number: it selects which of a plurality of fax machines will actually receive the message. Unfortunately, his approach leads to exactly the security dilemma facing telephone fax users.

Chapman, U.S. Pat. 4,106,060, has approached the problem in a somewhat different way. He too discloses a facsimile-based mail system. However, in his system, the messages are directed by whatever means to a "paper" post office near the addressee, rather than the addressee's home or place of business. This post office then makes a paper copy of the the fax message, places it in an envelope, and delivers it to the addressee as ordinary mail. This is a reasonably effective solution to the security problem, but it can only be relied upon to provide "next day" delivery, and there are a number of other, competing alternatives for document delivery service on that time scale.

In the present invention the security problem is addressed by a control variation of the destination SAFF queuing system. Messages which the originator wishes to designate as secure are temporarily directed to a auxiliary storage file 54, 89 in the Answer Function of the destination SAFF called a "Mail Box". Instead of being delivered to the destination machine, a report is sent to that machine indicating that a secure message is waiting for a particular addressee. Optionally, a voice message may be directed to a designated telephone number by the General Service Control 50.

This feature works in the following way. Each individual SAFF is assigned its own unique telephone exchange code or codes (typically indicated by the first three digits of a seven digit local number). Thus, the SAFF appears to the

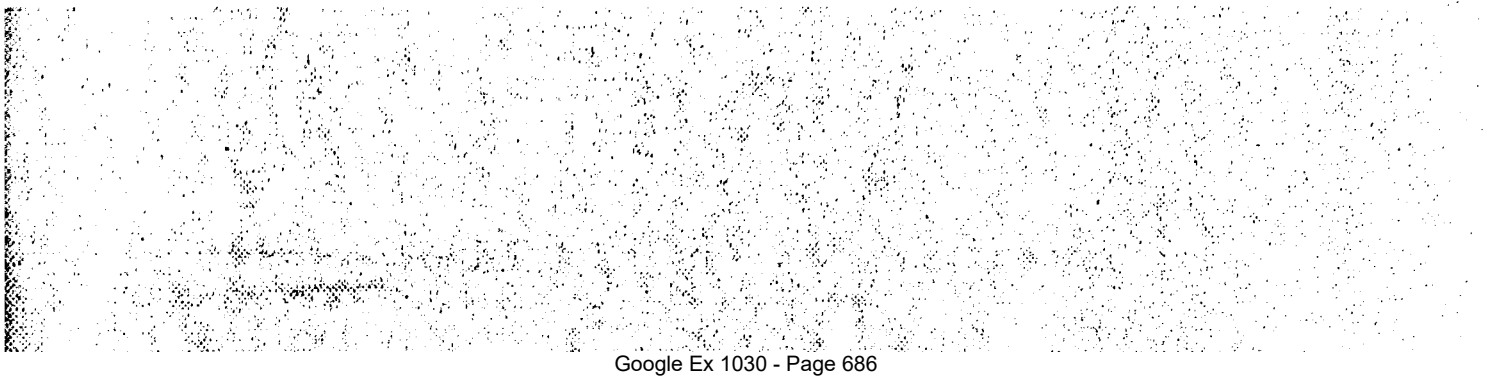
world as if it were a distinct telephone exchange(s), separate from all other exchanges in that area code region. All subscriber's to a given SAFF are assigned their fax telephone numbers with that exchange prefix. Subscribing individuals wishing Mail Boxes (typically associated with a "default" fax machine) are issued "fictitious" telephone numbers which actually terminate in fax Mail Boxes, rather than in an actual telephone line.

Mail Box numbers are published so that correspondents may use them. In addition, each individual is also given a secret security code or PIN number which will access his or her box. The host computer managing the SAFF maintains a list that relates each fictitious number with the individual's name, the security code, and the real telephone number of the default destination machine. This default machine is the one to which messages and reports will normally be sent, when appropriate.

An originator wishing to send a secure message merely dials the (fictitious) Mail Box telephone number at the time the document is sent. The system directs the message to the Mail Box file 89 in the destination SAFF associated with that number, and the Answer Host 85 sends a "Message Waiting" report to the default destination fax machine through the Local Interface 83. If more than one message is in the Mail Box queue, then this report lists them all.

In order to get the fax document actually sent to the destination, the security code must be sent back to the destination SAFF. Typically, this would be done by the addressee dialing his or her own Mail Box number. Since this call originates from a "normal" telephone 34 over Ordinary Local Lines 40, rather than the fax's SAFF Directed Lines 38, the call is directed to the Off-net Incoming Screener 48 in the (destination) SAFF which functions in conjunction with a mailbox service control 49. This unit recognizes that the call is not a fax transmission and thus treats it as a voice service request. A voice response system then prompts the caller to key in the security code. When the correct code is supplied, the SAFF system announces the number of messages waiting and, if desired, the message codes of each. Mail Box contents are maintained in a queue 89 just as are "regular" spool files. Thus, the user is also given the opportunity to reorder the messages within a Mail Box Delivery queue, through the System Status and Control units 11, 20 in the same way as other messages.

The system finally permits the addressee to make a selection of messages for immediate release, and provides an opportunity to "redirect" them to a fax machine 3 other than the default machine over ordinary local lines 39. The SAFF then



releases the selected documents and moves them to the head of the appropriate destination Delivery Queue 88 for immediate delivery.

When messages are accepted into the SAFF system and arrive at a mail box, The Answer Function of the destination SAFF issues a "Posting Report" which is directed back to the Originator in the manner described for other reports. The report is similar to a Delivery Report, except that it indicates that the message has been received by the mail box. When the Mail Box Queue is actually read by the addressee the Destination SAFF sends an actual Delivery Report to the originator indicating the date and time of delivery and so forth.

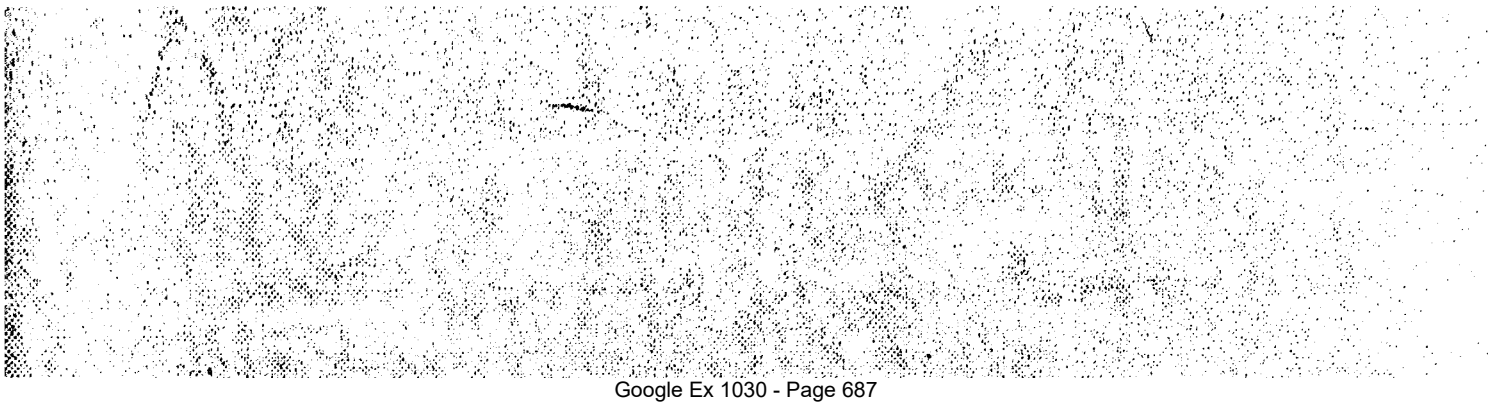
Another advantage of the Mail Box system is that it can provide a convenient way for individuals who are away from their "home" machine to still have access to their documents. Such individuals may call in to their Mail Box number to hear from the voice response unit whether they have any messages waiting. By use of the redirection feature, messages sent to a fax Mail Box can be accessed by an individual with the security code from any telephone with a fax machine.

For example, a person on a business trip can have all his or her fax documents directed to their Mail Box. Upon arriving at a hotel that has a fax machine, the traveler places a call to the Mail Box number and supplies the information outlined above, including the telephone number of the hotel fax machine. The SAFF then calls the hotel machine and dumps the queue of waiting documents.

Broadcasting

The queuing, Mail Boxes, and security codes are all derivative benefits of the spooling of messages at the destination SAFF. There is a counterpart advantage to the originator SAFF's spooling as well. Since the originator SAFF maintains a copy of each message, that copy can be used to broadcast messages to multiple destinations.

This can be initiated in a number of ways. For example, the user can dial in a code prefix indicating that a list of destination numbers is to follow. The numbers are then entered and finally another code is entered to signal "end of list". The Originate Host 70 recognizes these inputs and attaches them to the message which follows. As an alternative, the user can store different numbered broadcast telephone lists in the Originate SAFF mass storage files 69 (entered much as described above) and invoke them simply by dialing a two or three digit "short-cut" code. In either



case, from there the fax transmission to the originator SAFF proceeds normally.

Upon reception of the list and the document, the originator SAFF proceeds to open as many local loop-back or long-distance lines as it can to deliver the broadcast message to the various destinations, essentially simultaneously. Although the originator is billed for making a number of different calls, in fact the originating machine is only tied up for the time required to make one call. Furthermore, the full power of the delivery system is asserted for each destination machine, including reporting, redials, queuing, and so forth.

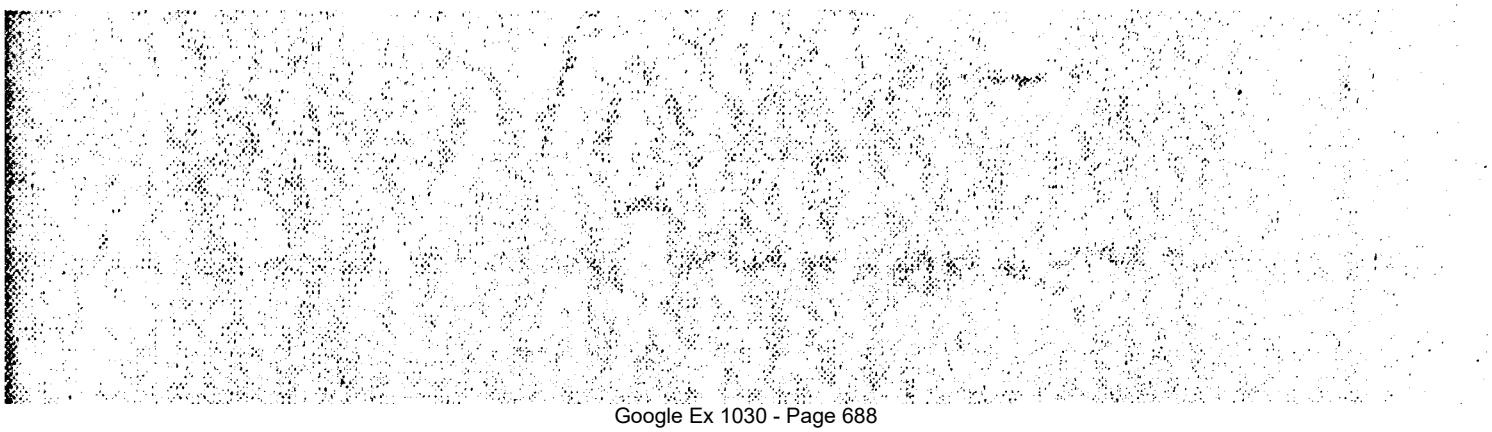
A feature related to broadcasting is the redirection of messages by the originator. Since fax messages are spooled at the originator SAFF and held for a period of time even after delivery (typically six hours), the originator can dial the Service Number any time during this period and direct a copy of the spooled message to be sent to other destination machines.

Communications With Non-subscribers

Thus far, the discussion has presumed that both the originator and answerer were subscribers to the SAFF system. It is quite reasonable to assume that subscribers will wish to send or receive fax messages with non-subscribers, as well. While the services provided by the SAFF are more limited in such cases, nevertheless, the system both anticipates and enhances communications with non-subscribers for the benefit of the subscribers.

When a subscriber originates a call to a non-subscriber the delivery process is almost identical to subscriber-to-subscriber calls. The fax data is forwarded to the Answer Function of the appropriate destination SAFF and delivery is pursued, all in the usual way. For the benefit of the subscribing originator, the message is stored in the usual way at the destination SAFF until delivery is completed. If multiple SAFF-processed messages arrive before the delivery is complete, a temporary Delivery Queue will be created and used as required. However, since the non-subscriber will have no account in the system, attempts to use the Service Number to manipulate the queue, forward messages, make multiple copies, and use the other special services available to a subscribing answerer, will be unsuccessful.

Calls originated by a non-subscriber directed to a subscribing answerer move by a somewhat different mechanism. As noted, each SAFF appears to the world as a distinct telephone



exchange and all subscriber's to a given SAFF are assigned their fax telephone numbers with that exchange prefix. Consequently, all calls directed to a SAFF subscriber eventually end up at the subscriber's SAFF, whether they originated from within the SAFF system network or not. Messages originating "off-network" can arrive by any route. For example, they may be truly local calls, or they may be long-distance calls which arrive over any available long-distance network.

In any case, messages originating from a non-subscriber 33 are delivered to the answering fax machine's SAFF by the local lines 39 provided by the local telephone company. They are answered by the SAFF's Off-net Incoming Screener 48, which, upon noting that they are fax transmissions, directs the calls to the Originate Function 9 of that SAFF. From that point, the call is treated as if it were a local fax call and it is passed over to the Answer Function 12 via the Local Call Loop-back 13 for delivery to the subscriber.

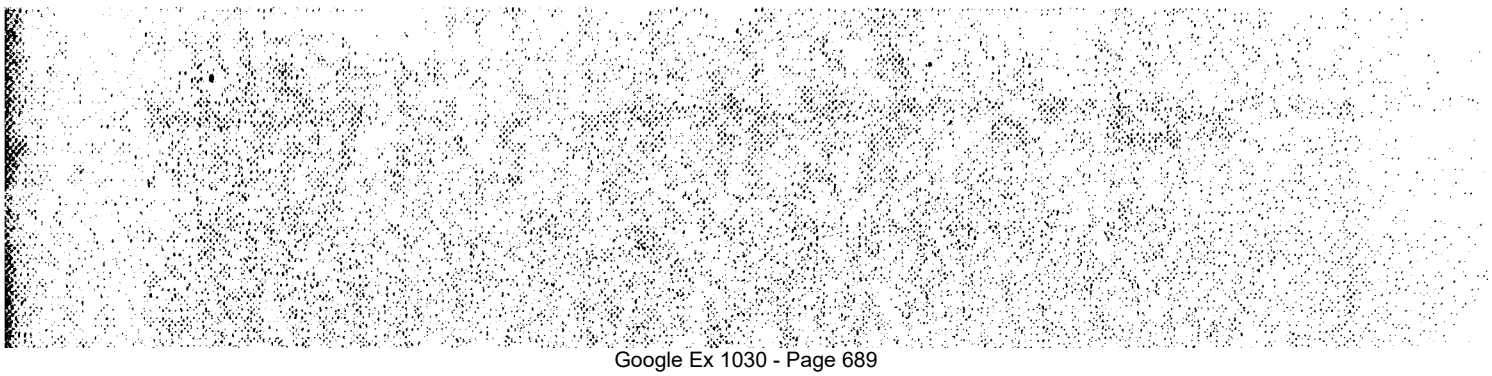
In this situation an Acceptance Record will be returned to the originating machine, but no further originator services are provided. On the other hand, the answering subscriber has the full range of Answer Function available.

Charges and Detailed Billing

Normally, the Originate Function of the originator SAFF has ultimate responsibility for the management of outgoing messages. It initiates all connections to the Answer Functions of the various SAFFs with which it must communicate. It is the node to which all reports concerning message status and disposition must flow. It interrogates Answer SAFFs when extraordinary updates are required. Consequently, the Originate Function is also the focus of charging data.

The telephone company presumably charges for all of the various services provided by this system. The method, algorithm, and rates are determined by actual costs and applicable regulations. Typically, the user would be billed for telephone connect time, toll charges, extraordinary services, such as those provided by calling the Service Number, the amount of mass storage space consumed as a function of time, and so forth.

One of the user services for which a special charge might be made is a subscriber's customer specific billing system. In this option the user can "flag" each fax transmission with a keyed-in prefix which contains a user customer, client, or project number. This number is stored as a key field in the



Transaction File for that call. Thus, when the telephone bill is prepared, the billing computer can sort the subscriber's bill on this field and present the user with a list of all fax messages, total usage time, number of pages, and related charges, all grouped by the subscriber's own customers, clients, or projects. Furthermore, it can accept the subscriber's particular algorithm for billing calls to customers or clients and generate a column showing what the subscriber will bill for the service (as a separate matter from what the SAFF system and the telephone company have billed the subscriber). This can be of great assistance in attributing costs and billing customers for services rendered.

Software Control

In the preferred embodiment, each of the principal units of the SAFF such as described in Figures 2,3, and 4 is controlled by its own computer processing unit or units. These units are interrupt-driven computers which are connected together by the System Status and Control unit 11. This unit is an electronic switch yard for control communications between the Originate, Answer, and other units within a given SAFF, as well as the the other SAFFs in the system through the control long-distance trunks 15. While there are many tasks which the various control processors must perform to handle fax operations, the primary ones are intercepting incoming calls, either for fax forwarding or service requests, and delivering the fax messages to their destinations. The general software organization of these principal activities is shown in Fig. 5, 6, and 7. It should be noted that these figures are simplified and intended to be generally descriptive. For example, some procedures illustrated here as sequential (for the sake of simplicity) can actually be performed concurrently. Likewise, not every function of the system is represented in detail. Generally speaking, similar results also can be obtained with a number of other obvious arrangements of the functional blocks.

Broadly speaking, fax messages addressed to the Originate Function of a SAFF arise either through the special SAFF Directed Local Lines 4 (Figures 2 and 3) as a result of direct connection or dialing a special access code, or they arise from Ordinary Local Lines (off-net lines) 39, 40, 63. Those which arrive via off-net lines are processed first by the Off-net Screener 48, which may direct them to either the Originate Function 9 or to Mail Box Service 49. Figure 5, therefore combines all three of these related functions.

At the outset one of the two incoming call interfaces 64 and 65 signals the Host Computer 70 that it is beginning to

process a call at 100 in Figure 5a. These units have their own buffer capability and can tolerate some delay before the Host responds. Ultimately the Host must decide whether it is responding to an on-net or off-net call 101. If it is an off-net call there are two possibilities (excluding wrong numbers) 102: it may either be a fax call, in which case it is from a non-subscriber to a subscriber, or it is a mail box service call. If it is a fax call then the billing for services must be directed to the subscribing destination addressee 112. From that point it is handled like an on-net call as will be described shortly.

If it is not a fax call then it is presumed to be a mail box service call 103, and the caller is presented with the voice response menu 104 for such service. The user responds to these prompts with a touchtone keypad, or verbally, 105 and a decision ladder, shown succinctly as 107 selects the desired implementation routine 108, 109, 110 (for brevity only three typical choices are shown, and this element is actually a loop which will permit multiple commands). The chosen routine passes parameters to a command parser 121 (Figure 5b) which prepares an command statement which is then sent 122 to the System Status and Control unit 11, through the interface 72. This command will be passed to the Answer Host 85 through its interface 84 for actual action on the Mail Box Queue 89. If the service requires a response to the caller the transmission path is reversed. When the operation is completed 123 the call is terminated.

If on the other hand, the original call is found at 101 to be an on-net call, billing is generally directed at the originator 113 and the Host 70 begins the opening digital dialogue 114 with the calling machine, acting in place of the destination machine. This dialogue includes gathering and storing the fax identifications, originating and destination telephone numbers and so forth 116. The Host opens a Transaction File and links it to a data file 117 for the expected data, and then stores all of the call and file information 118 keyed to the Message Code. The destination telephone number and other information are passed almost immediately 119 to the Outbound Controller 74, which then opens a temporary buffer to hold the fax message in case immediate contact can be established, and it attempts to establish that contact through the destination SAFF.

In pursuing this contact, the Outbound Controller 74 examines the status of available trunks. If trunks are available, it will immediately attempt to connect with the destination SAFF, otherwise it will defer the call until a trunk is available. In the event of a broadcast message, the Outbound Controller will select the number of trunks to use

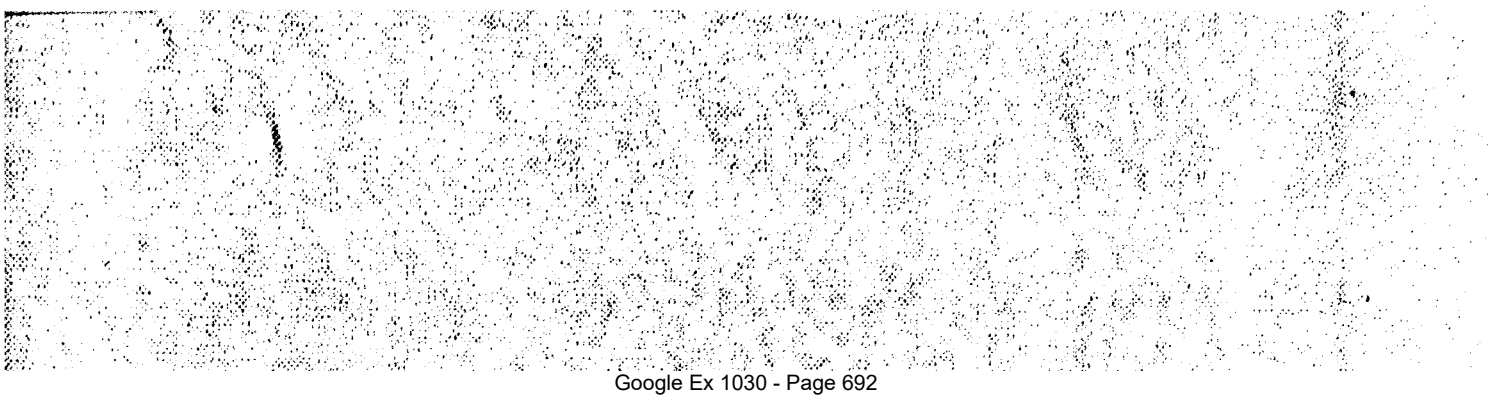
simultaneously based on the percentage of the trunks already in use, in order to avoid tying up all of the SAFF's outgoing capacity with a single message task. Other considerations can affect these usage choices depending on the details of the setting of the system.

The Host then enters a loop which gets the incoming fax data 125 (Figure 5b) from the On-net 64 or Off-net 65 Interface's buffer and stores each byte in the fax data file 126 while sending another copy 127 to the Outbound controller 74 until the incoming data is complete 128. The Host then checks 129 with the Outbound controller to see if it was successful in making immediate connection with the destination machine. If it was successful and a satisfactory transfer occurred, then a Delivery Report is sent back 132 to the originating machine before it leaves the line. Otherwise, an Acceptance Report is sent 131, and in either case the outcome is reported 133 to the Transaction File and the call is terminated 134.

A complementary set of activities occurs in the Answer Function of the destination SAFF as described in Figure 6a and b. Here an incoming call is detected 136 by the Inbound Control 92 (Figure 4). The Answer Host Computer 85 then opens a new fax data and Transaction file for the message if there is no current queue for that destination machine, or it prepares to append the data to an existing queue 137. The various call and file parameters are linked and stored 138 and the call parameters are passed through 139 to the Local Interface 83, which then decides 141 whether the call is addressed to a "real" fax number, or a fictitious number terminating in a mail box. If the number is real the Local Interface attempts to contact the destination machine for immediate delivery.

The Host then enters a loop where it gets the incoming data 147, stores it 148 in the fax Delivery Queue, and passes it through 149 to the Local Interface buffer. When the Host determines that the fax transfer is complete 150, it then checks 152 (Figure 6b) to see if the Local Interface has been able to make immediate delivery. If it has, the Host initiates the transmission of the Delivery Report 167 back through its Status and Control Interface 84 to the System Control and Status unit 11, which in turn updates the Transaction File and sends it back to the originator SAFF over Trunk 15. It is this communication which ultimately results in the immediate Delivery Report described previously. The transaction in then terminated 169.

If immediate connect is not established a Retry Report is sent 153 back through the System Status and Control unit and the Retry sequence begins. The Retry criteria can be varied



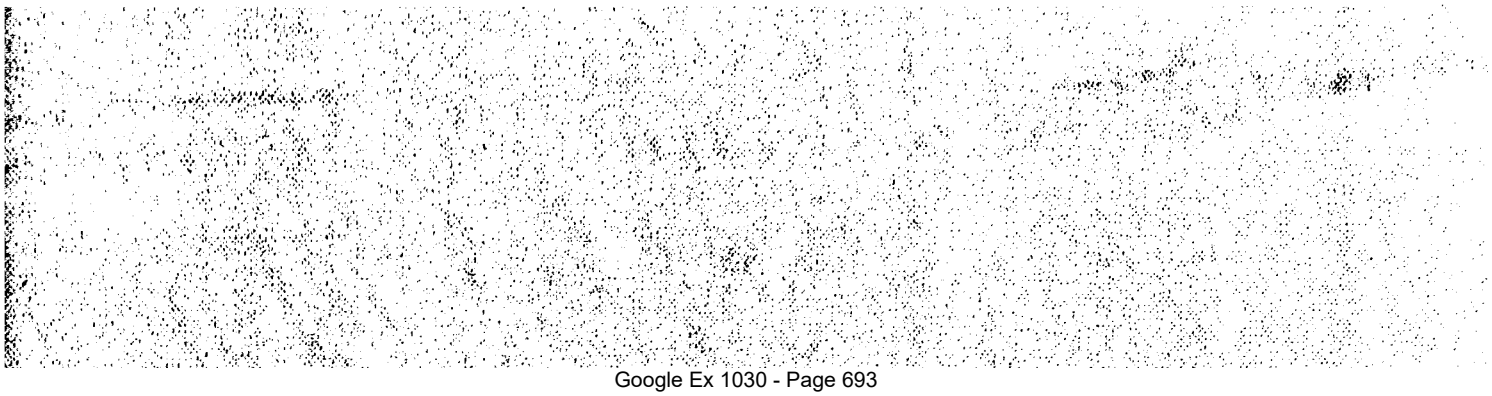
154, both in place and with the SAFF setting. For example, if the SAFF is integrated into a local exchange, the SAFF can actually monitor the desired line and simply wait for it to become available. In other settings it will be necessary for the SAFF to actually redial at prescribed intervals. In any case attempts to connect are made 155 and if they are not successful 156 a counter or timer is checked 159 to see if the retry limit has been exceeded. If not, the process is repeated and if so, a Failed Delivery Report 160 is sent back through the system and the effort terminated 170.

If the retry effort is successful the Delivery Queue is retrieved 158 and message by message 162 the queue is dumped, with a pause 163 after each message to confirm receipt, send a Delivery Report 164 and to check for end of queue 165. If a message fails during the queue dump the retry sequence at 154 is resumed at the failure point and the process repeated to a conclusion. When the last message has been received satisfactorily, the transaction is terminated 168.

If it is determined at 141 (Figure 6a) that this is a mail box call, a loop is entered which gets the fax data 142 and stores it 143 in the appropriate Mail Box Queue. When the end of message is detected 144, a Posting Report 145 is sent back through the system and a Message Waiting Report 146 is sent forward through the system to the default destination machine.

General Service calls always arrive on Ordinary Local Lines 5. Upon detection and answering 172, the voice response menu is presented 173 to the user. As with the Mail Box Service, the user keys in responses or gives them orally 174 and a decision ladder 175 identifies the desired service routine such as 177, 178, or 179. Here again only a few of the possible choices have been shown for sake of illustration and looping for multiple service requests is provided. The selected service routine generates command parameters which are parsed 181 as system commands and sent 182 to the System Status and Control unit 11 for execution. Upon completion of all requests the call is terminated 183.

What has been described are the presently preferred embodiments of a system and method for providing a comprehensive interactive facsimile message management system embedded in a switched telephone network. It should be apparent that many modifications to the system and the method are possible without departing from the true spirit and scope of the invention.



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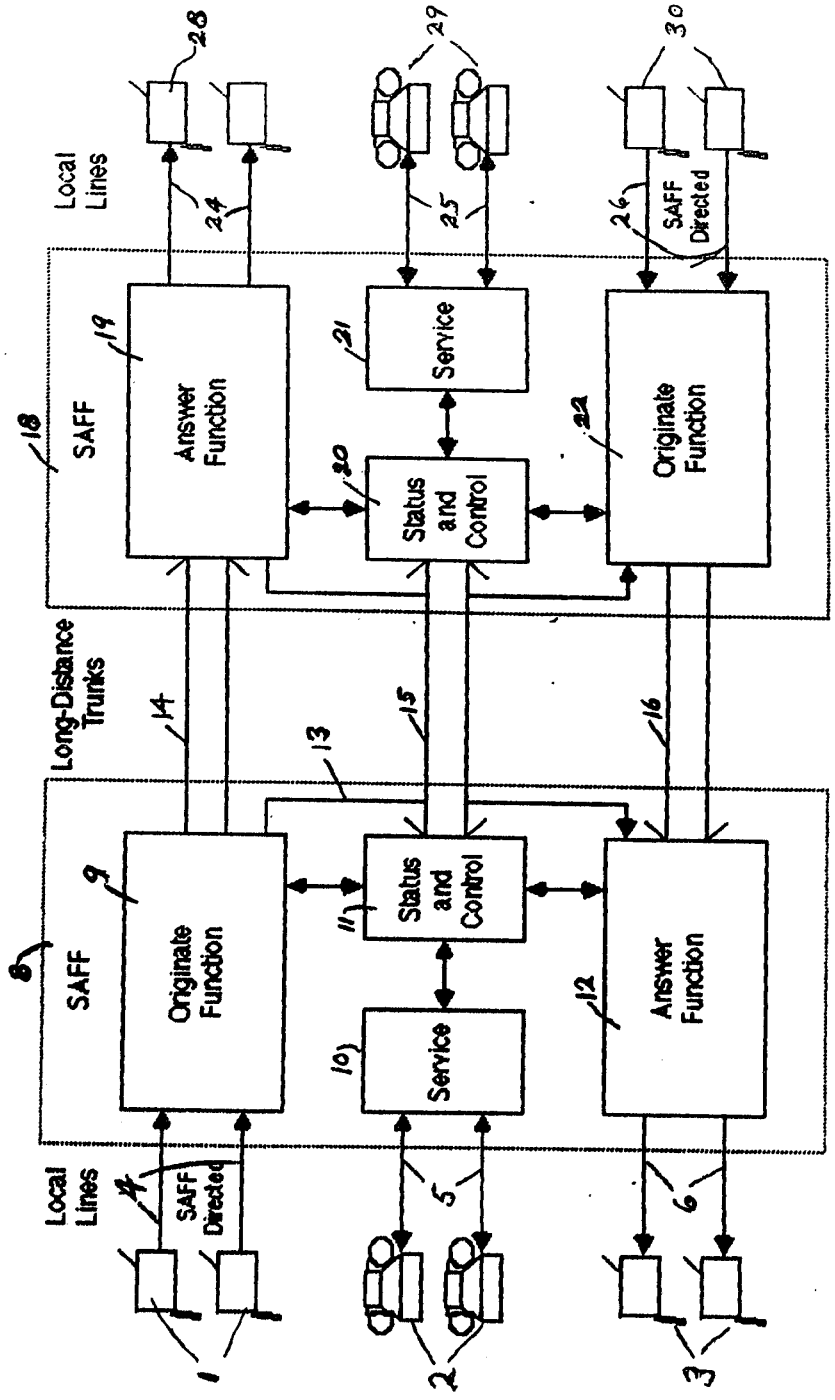

Fig 1

Gowling, Strathy & Henderson

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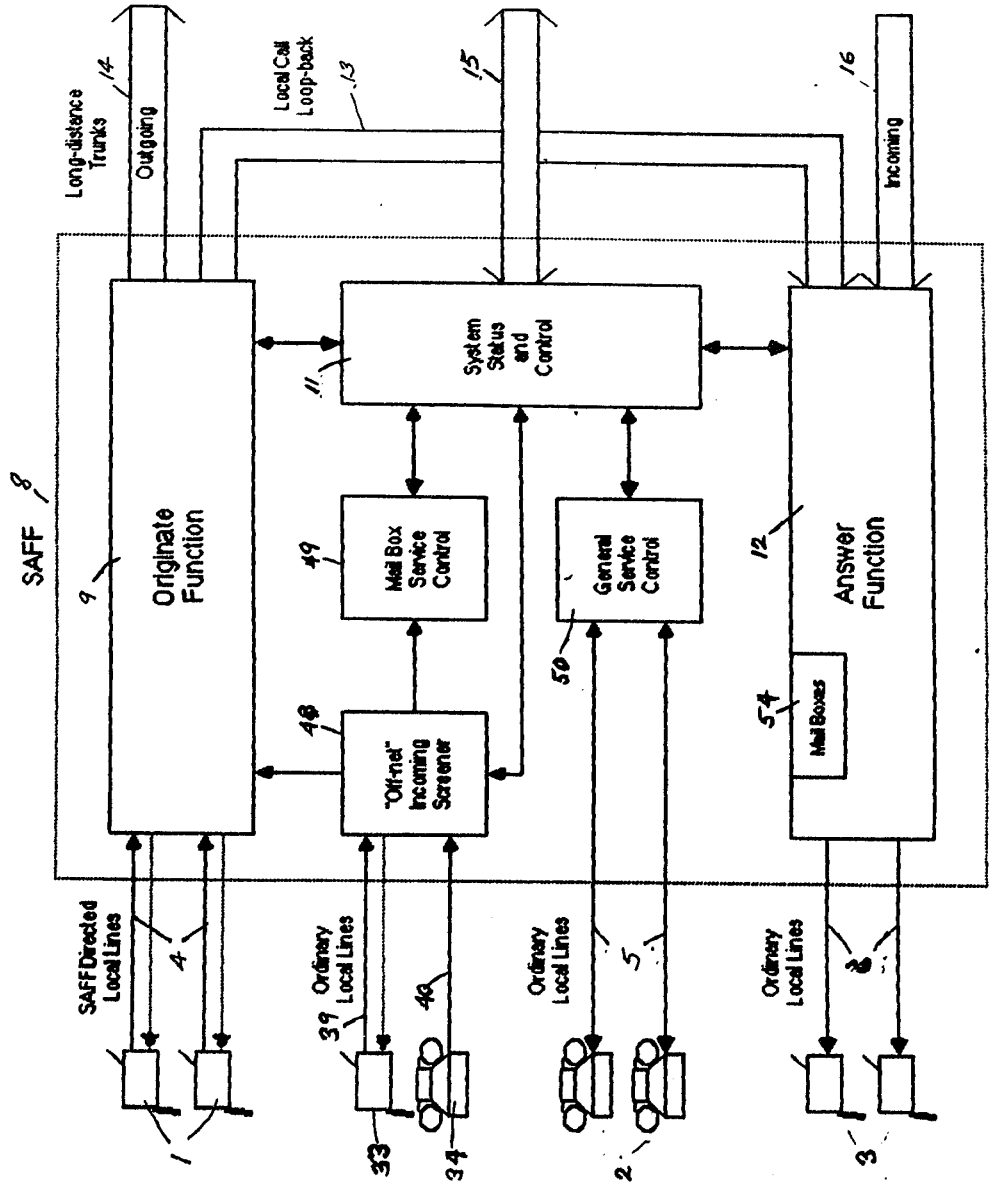

Fig 2

Gowling, Strathy & Henderson

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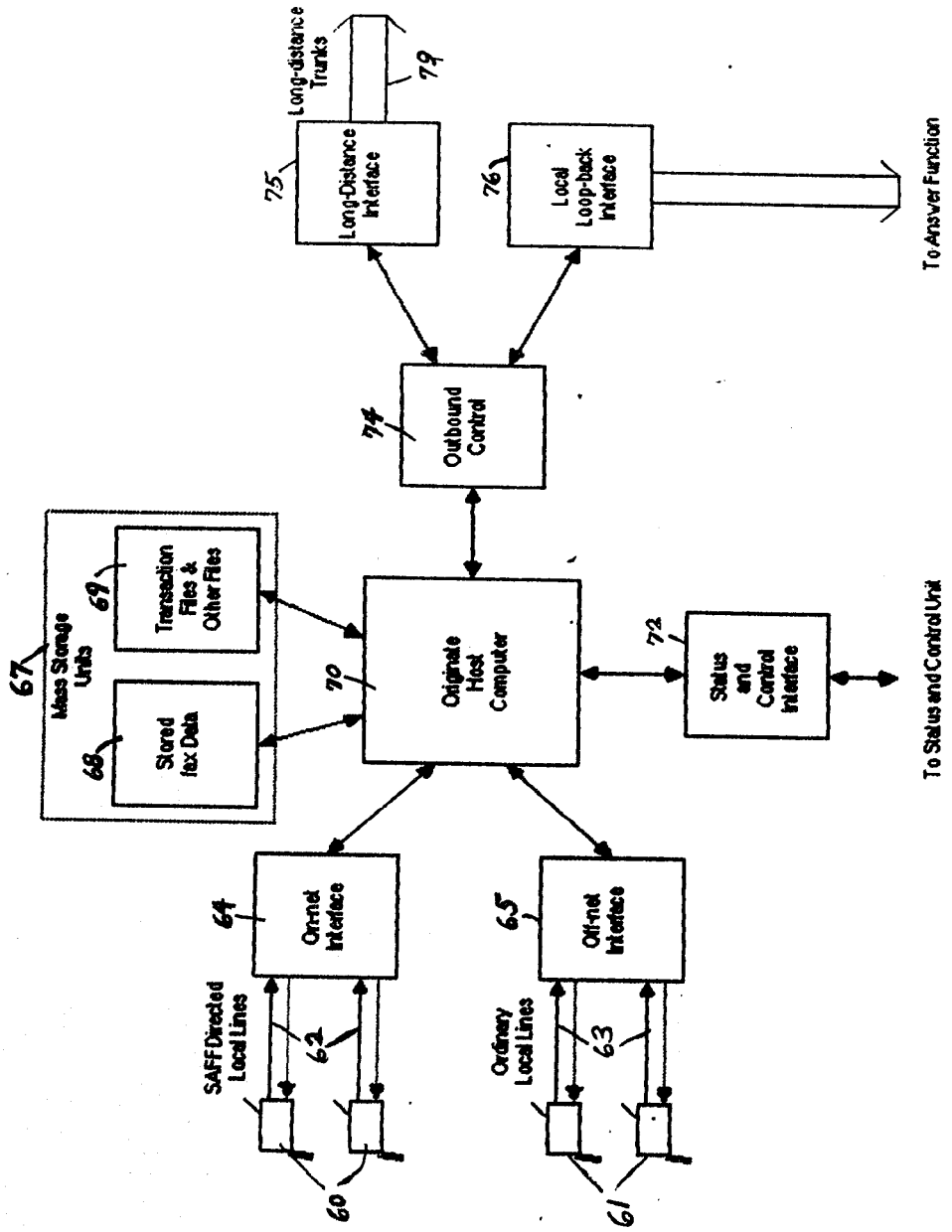

Fig. 3

Gowling, Strathy & Henderson

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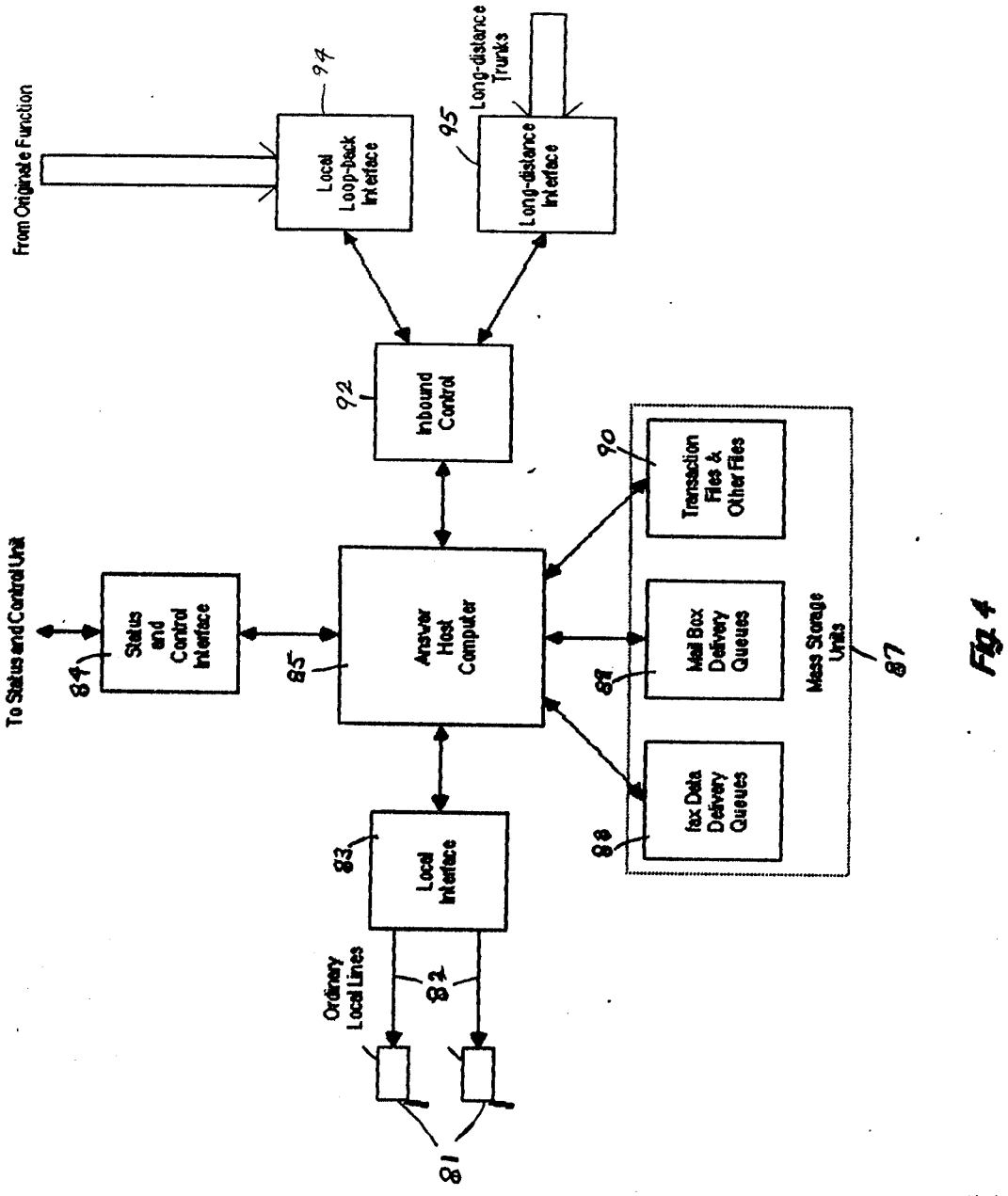

Fig. 1

Gowling, Strathy & Henderson

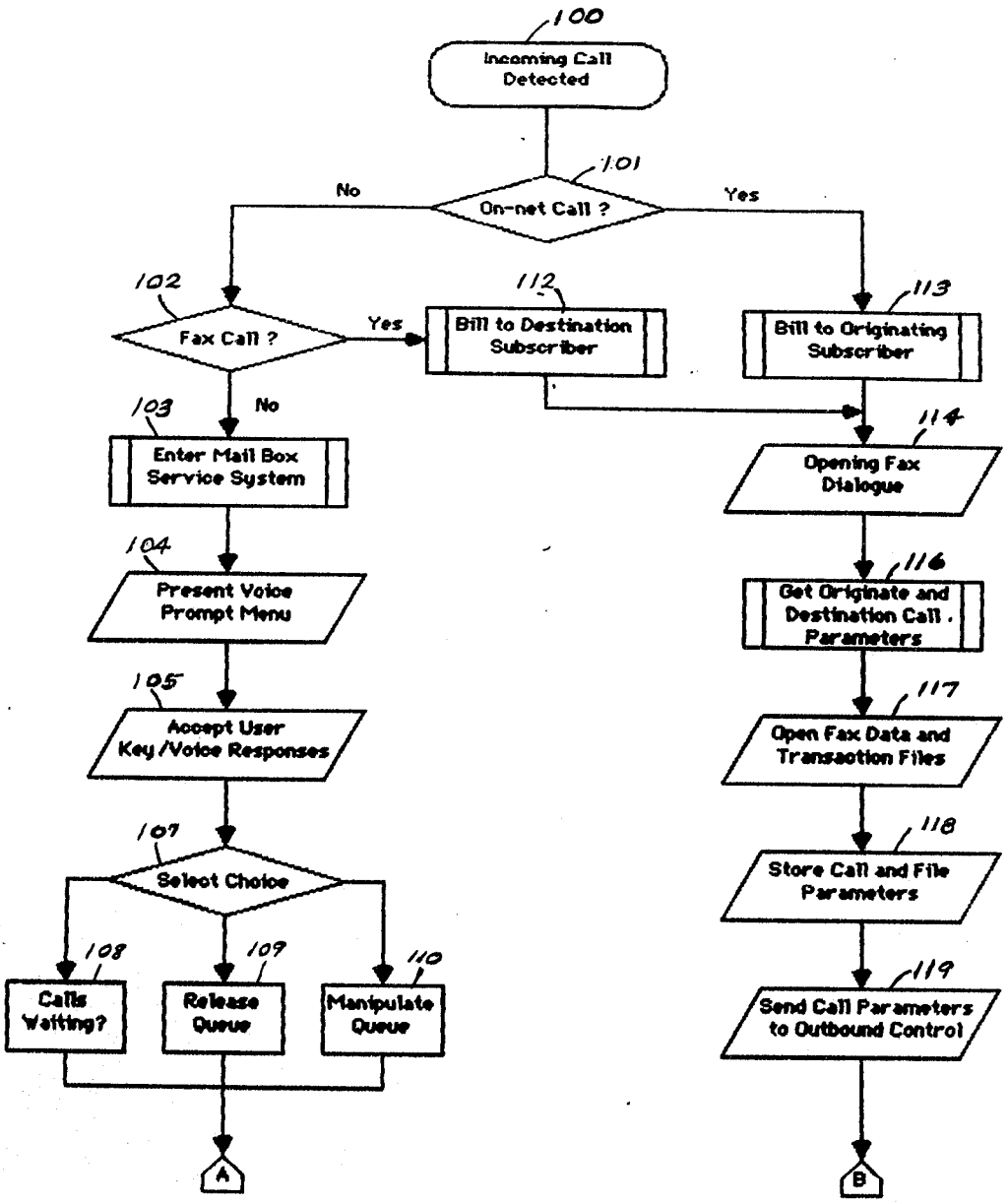

Fig. 5a

Gowling, Strathy & Henderson

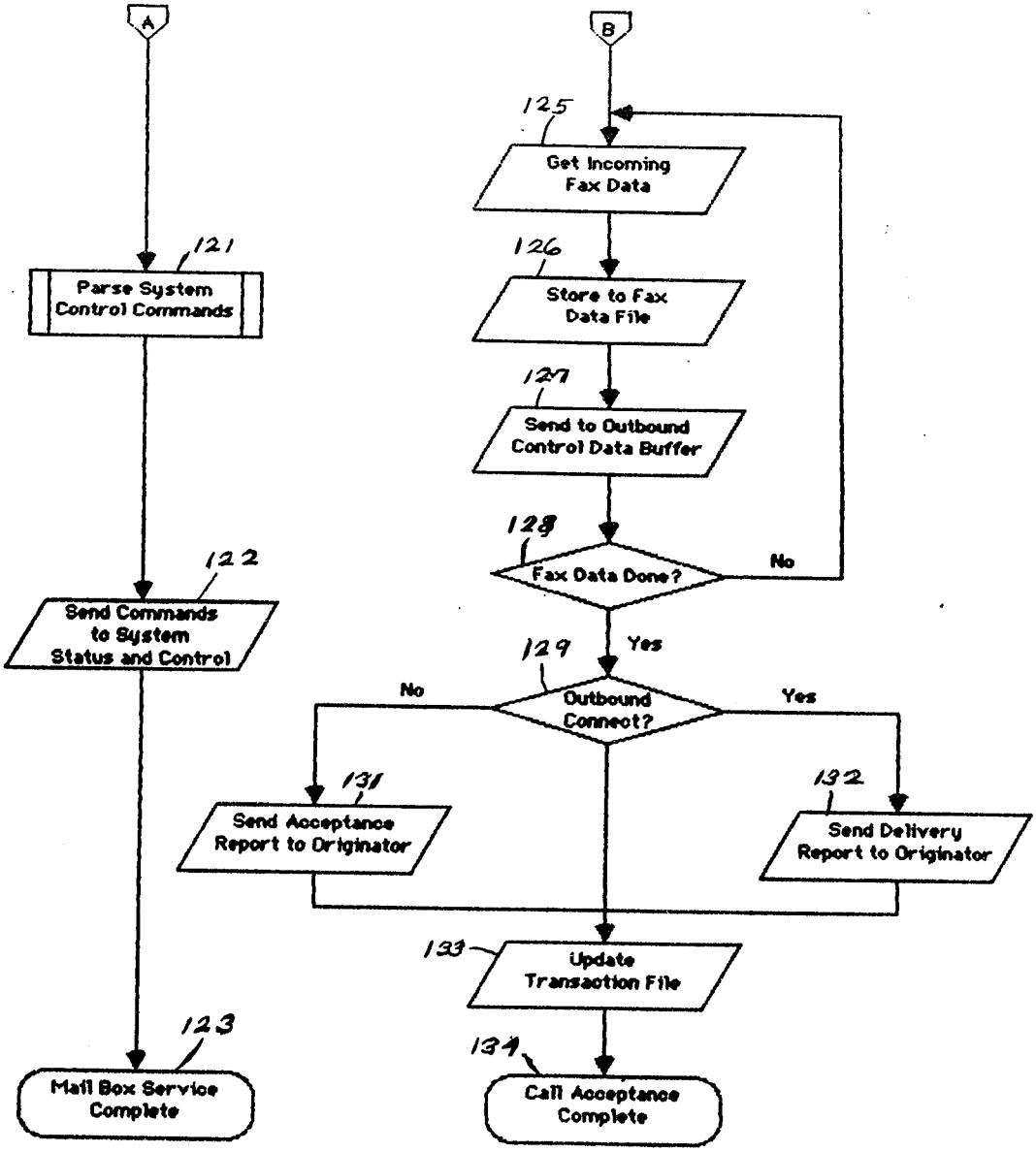

Fig. 5b

Gowling, Strathy & Henderson

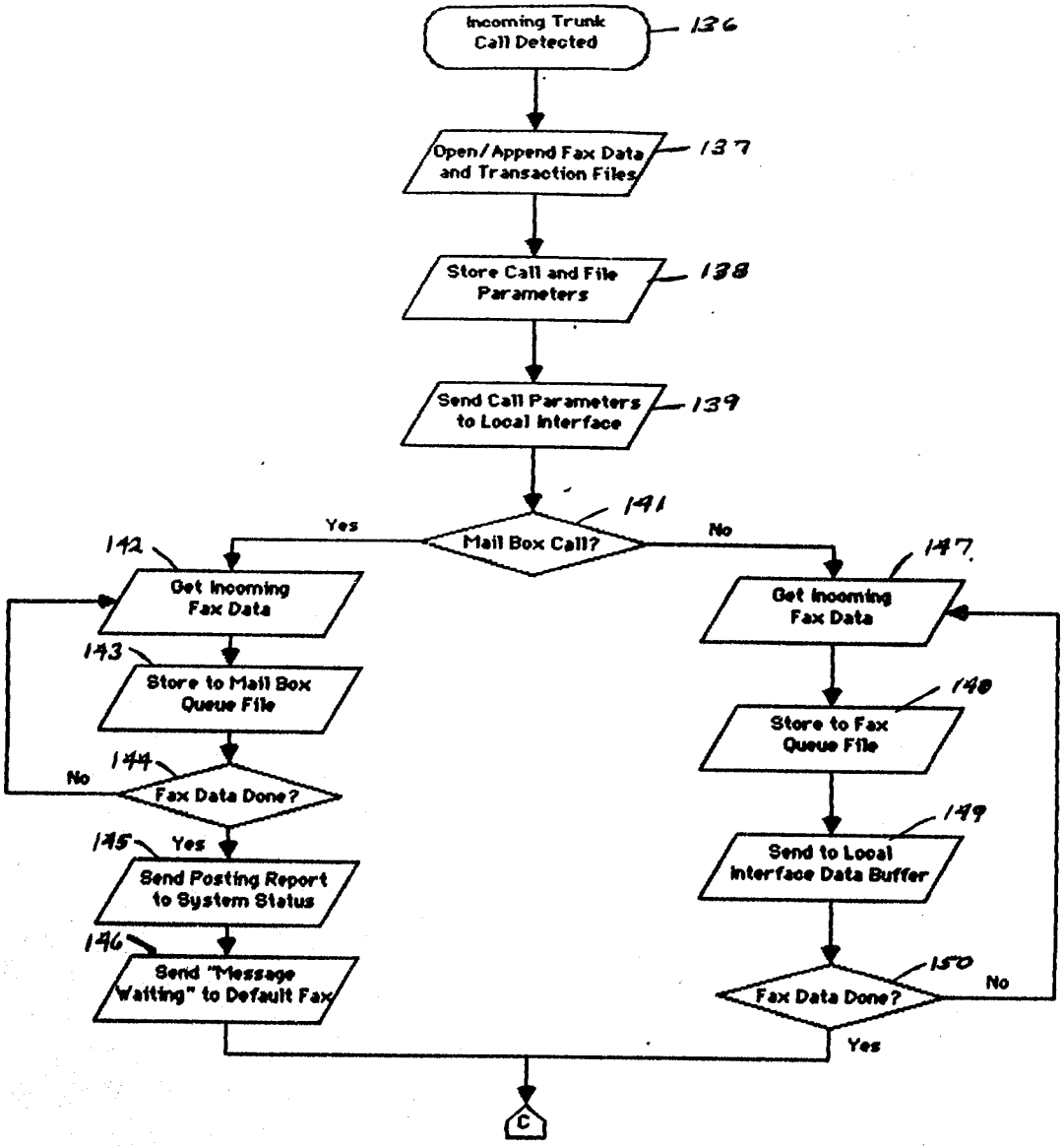

Fig. 6a

Gowling, Strathy & Henderson

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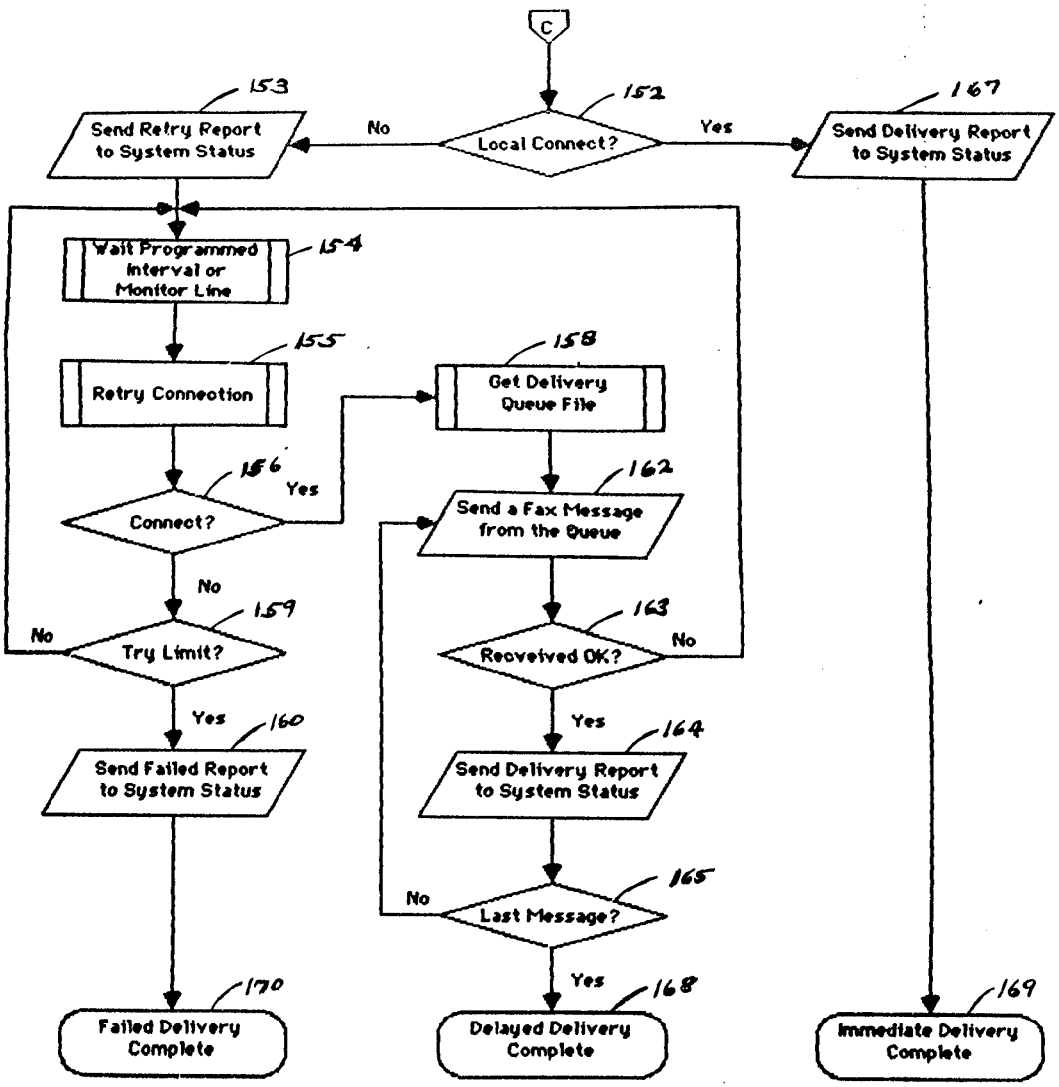

Fig. 6b

Gowling, Strathy & Henderson

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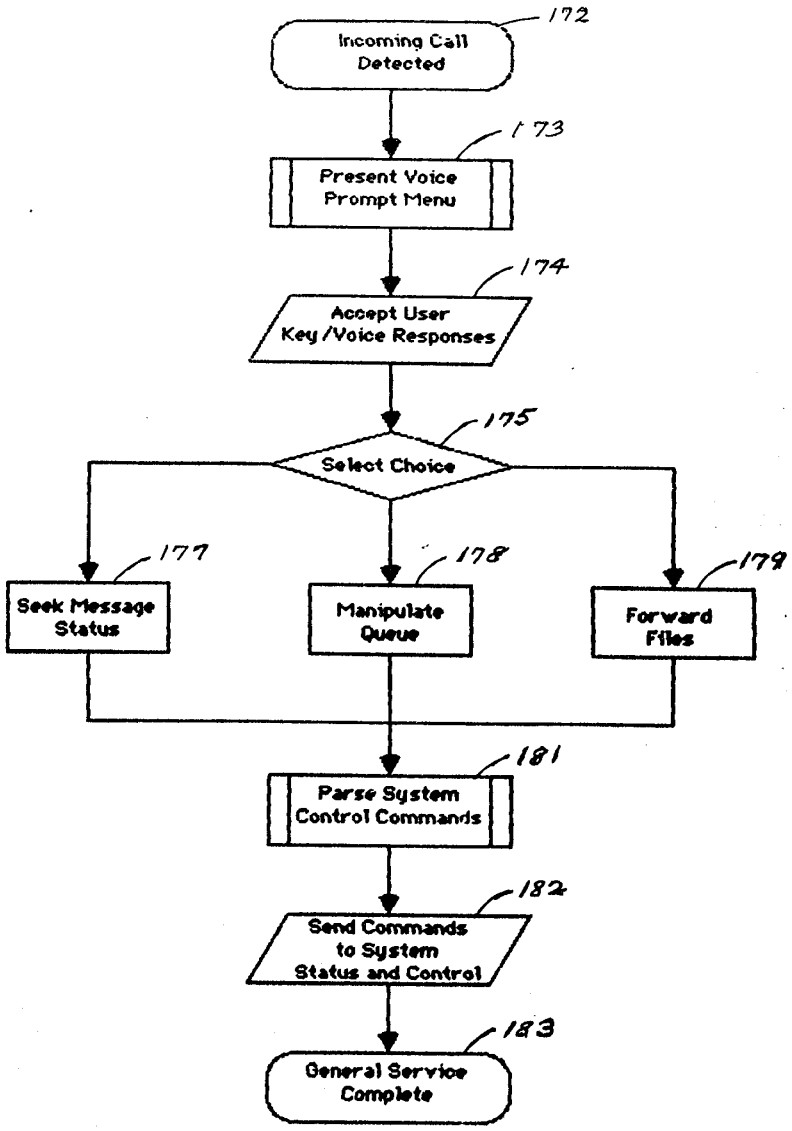


Fig. 7

Gowling, Strathy & Henderson

CLAIMS

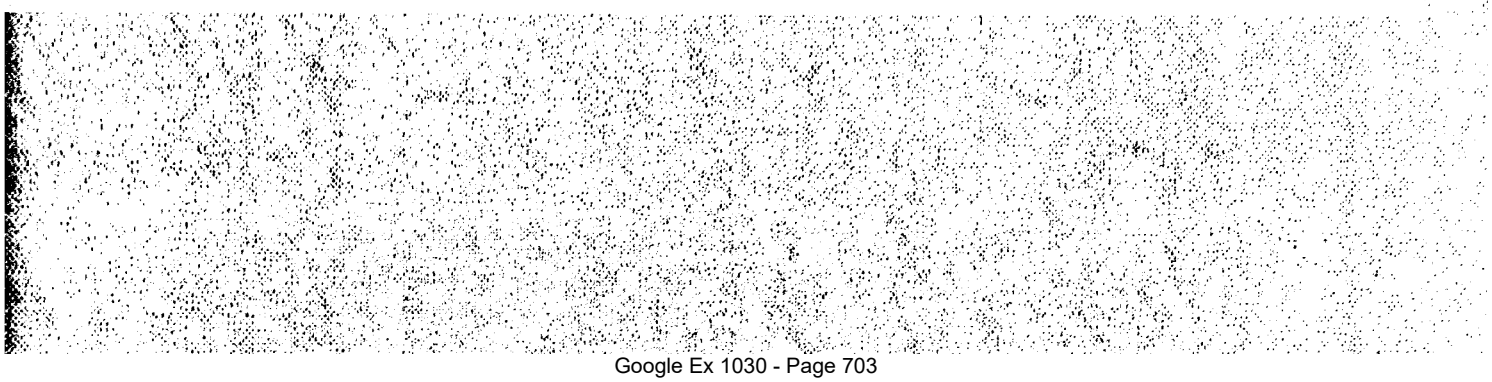
1. A system for facilitating facsimile communications between a transmitting facsimile machine and at least one intended receiving facsimile machine, comprising at least one store and forward facility, means coupling the at least one store and forward facility to the switched telephone network for receiving transmissions from a transmitting facsimile machine, said store and forward facility including computer means for controlling its operation and including mass storage means for storing facsimile transmissions together with information identifying the transmitting facsimile machine and the at least one intended receiving facsimile machine under control of said computer means, said store and forward facility also including means coupling it to the switched telephone network for transmitting facsimile messages stored in the mass storage means to at least one intended receiving facsimile machine.

2. The system of claim 1 wherein said computer means is programmed such that if the at least one intended receiving facsimile machine is busy or otherwise unable to receive a transmission at the time the store and forward facility attempts to transmit a facsimile message stored in the mass storage means, the store and forward facility periodically retries transmitting the facsimile message to the at least one intended receiving facsimile machine.

3. The system of claim 2 wherein said computer means is additionally programmed to establish a linked queue in said mass storage means spooling all stored facsimile messages intended for a particular receiving facsimile machine, and transmitting all the spooled facsimile messages intended for that particular receiving facsimile machine upon successfully making contact with the intended receiving facsimile machine.

4. The system of claim 1 wherein said computer means of said at least one store and forward facility is programmed, upon successful completion of a facsimile transmission to an intended receiving facsimile machine, to transmit a message to the transmitting facsimile machine confirming delivery of the transmission to the intended receiving facsimile machine.

5. The system of claim 2 wherein said computer means of said at least one store and forward facility is programmed, upon being unsuccessful in making a transmission to an intended receiving facsimile machine, to transmit a message to the transmitting facsimile machine indicating that the message has been entered into the mass storage means at the store and forward facility, and at least also indicating the reason for



a delay in transmitting the message to the intended receiving facsimile machine.

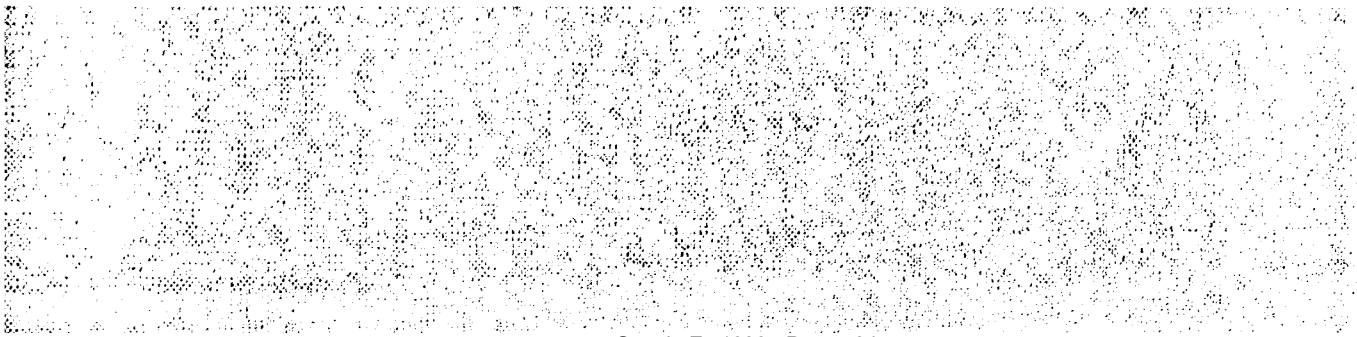
6. The system of claim 1 wherein the at least one store and forward facility includes means for receiving broadcast instructions from a user at a transmitting facsimile machine and associating those broadcast instructions with a facsimile message received from the transmitting facsimile machine and stored in the mass storage means, and for transmitting the stored facsimile message to a plurality of receiving facsimile machines in accordance with the broadcast instructions.

7. A system in accordance with claim 1 wherein said mass storage means additionally includes mailboxes associated with particular system subscribers and wherein facsimile messages received and stored by the mass storage means and intended for receiving facsimile machines associated with those subscribers are stcred in the respective mailboxes, said store and forward facility being responsive to instructions received from a subscriber to transmit the facsimile messages stored in that subscriber's mailbox to any particular facsimile machine designated in the instructions by the subscriber, whereby a subscriber who is traveling or otherwise away from the fixed location of his facsimile machine may have facsimile messages intended for receipt by his facsimile machine collected, and retrieve them from any location where any other facsimile machine is situated.

8. A system in accordance with claim 1 wherein said computer means of said at least one store and forward facility is programmed to retain a facsimile message in the mass storage means for a predetermined time period even after successful transmission of the facsimile message to an intended receiving facsimile machine, and wherein the store and forward facility is responsive to instructions received from either originating or receiving subscribers to retransmit the facsimile message to another intended receiving facsimile machine.

9. A system in accordance with claim 1 for use in system operation wherein individual subscribers may be provided with unique PIN numbers, wherein individual subscriber PIN numbers are stored in the mass storage means, and wherein the store and forward facility recognizes an incoming facsimile message that is security coded by a transmitting facsimile machine, and wherein the security coded facsimile message is sent to an intended receiving facsimile machine only upon receipt from the intended receiving facsimile machine of the appropriate subscriber PIN number.

10. A system in accordance with claim 9 where said computer means is programmed such that, upon receipt by the store



and forward facility of a security coded facsimile message from a transmitting facsimile machine, the store and forward facility sends a transmission to an intended receiving facsimile machine indicating that the store and forward facility is holding a security coded facsimile message, whereby a subscriber at the intended receiving facsimile machine is prompted to input to the store and forward facility his PIN in order to have the facsimile message transmitted to the intended receiving facsimile machine.

11. A method for facilitating facsimile communications between a transmitting facsimile machine and at least one intended receiving facsimile machine, comprising the steps of providing at least one store and forward facility having computer means for controlling its operation and having mass storage means for storing facsimile messages, coupling the at least one store and forward facility to the switched telephone network for receiving facsimile messages from transmitting facsimile machines, recording received facsimile messages in the mass storage means together with information indicating the transmitting facsimile machine and the intended receiving facsimile machine, and transmitting facsimile messages stored in the mass storage means to intended receiving facsimile machines.

12. A method in accordance with claim 11 including the step that if an intended receiving facsimile machine is busy or otherwise unavailable to receive at the time the at least one store and forward facility attempts contact to transmit a facsimile message, of periodically retrying to transmit the facsimile message to the intended receiving facsimile machine.

13. A method in accordance with claim 11 including the step of establishing a linked queue in the mass storage means spooling all stored facsimile messages intended for a particular receiving facsimile machine, and transmitting all the spooled facsimile messages intended for that particular receiving facsimile machine upon successfully making contact with the intended receiving facsimile machine.

14. A method in accordance with claim 11 including the step, upon successful completion of a facsimile transmission to an intended receiving facsimile machine, of transmitting a message to the transmitting facsimile machine confirming delivery of the transmission to the intended receiving facsimile machine.

15. A method in accordance with claim 11 including the step, upon being unsuccessful in making a transmission to an intended receiving facsimile machine, of transmitting a message to the transmitting facsimile machine indicating that the message has been entered into the mass storage means at the store and forward facility, and at least also indicating in the message the reason for a delay in successfully transmitting the message to the intended receiving facsimile machine.

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16. A method in accordance with claim 11 including the step of providing the at least one store and forward facility with means for receiving broadcast instructions from a user at a transmitting facsimile machine and associating those broadcast instructions with a facsimile message received from the transmitting facsimile machine and stored in the mass storage means, and including the step of transmitting the stored facsimile message to a plurality of receiving facsimile machines in accordance with the broadcast instructions.

17. A method in accordance with claim 11 including the step of defining mailboxes in the mass storage means associated with particular system subscribers, and including the step of storing facsimile messages intended for those particular system subscribers in their respective mailboxes, and further including the step, in response to instructions received from a system subscriber, of transmitting facsimile messages stored in that subscriber's mailbox to a facsimile machine designated by that subscriber in the instructions.

18. A method in accordance with claim 11 including the step of retaining facsimile messages in the mass storage means for a predetermined time period after successful delivery of the facsimile messages to intended receiving facsimile machines, and, in response to instructions received from either the transmitting or receiving facsimile machines with respect to a particular facsimile message, the step of retransmitting that particular facsimile message to additional intended receiving facsimile machines.

19. A method in accordance with claim 11 including the step of providing subscribers with unique individual PIN numbers, storing the individual PIN numbers in the mass storage means, recognizing an incoming facsimile message from a transmitting facsimile machine which has been security coded, transmitting to the intended receiving facsimile machine for the security coded message a message indicating that the store and forward facility is holding a security coded message, and transmitting to the intended receiving facsimile machine the security coded message only after receipt by the store and forward facility from the intended receiving facsimile machine of the unique PIN number of a subscriber associated with that intended receiving facsimile machine.

20. A method for facilitating facsimile communications between a transmitting facsimile machine and at least one intended receiving facsimile machine, comprising the steps of providing a plurality of store and forward facilities at geographically spaced locations each having computer means for controlling its operation and having mass storage means for storing facsimile messages, coupling each store and forward

facility to the switched telephone network for both receiving from and transmitting to a plurality of facsimile machines associated with each store and forward facility facsimile messages, recording in the mass storage means each facsimile message transmitted from an associated facsimile machine together with information indicating the transmitting facsimile machine and the intended receiving facsimile machine, and transmitting facsimile messages stored in the mass storage means to intended receiving facsimile machines if those intended receiving facsimile machines are associated with the store and forward facility which received the facsimile message from a transmitting facsimile machine, or to another of the plurality of store and forward facilities if the intended receiving facsimile machine is associated with the another store and forward facility.

21. A method in accordance with claim 20 including the step that if an intended receiving facsimile machine is busy or otherwise unavailable to receive at the time a store and forward facility attempts contact to transmit a facsimile message, or periodically retrying to transmit the facsimile message to the intended receiving facsimile machine.

22. A method in accordance with claim 21 including the step of establishing a linked queue in each mass storage means spooling all stored facsimile messages intended for a particular receiving facsimile machine, and transmitting all the spooled facsimile messages intended for that particular receiving facsimile machine upon successfully making contact with the intended receiving facsimile machine.

23. A method in accordance with claim 22 including the step, upon successful completion of a facsimile transmission to an intended receiving facsimile machine, of transmitting a message to the transmitting facsimile machine, either directly or through another store and forward facility associated with that particular transmitting facsimile machine, confirming delivery of the transmission to the intended receiving facsimile machine.

24. A method in accordance with claim 23 including the step, upon being unsuccessful in making a transmission to an intended receiving facsimile machine, of transmitting a message to the transmitting facsimile machine, either directly or through another store and forward facility associated with that particular transmitting facsimile machine, indicating that the message has been entered into the mass storage means at one of the store and forward facilities, and at least also indicating the reason for a delay in successfully transmitting the message to the intended receiving facsimile machine.

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25. A method in accordance with claim 24 including the step of providing the store and forward facilities with means for receiving broadcast instructions from a user at a transmitting facsimile machine and associating those broadcast instructions with a facsimile message received from the transmitting facsimile machine and stored in the mass storage means, and including the step of transmitting the stored facsimile message to a plurality of receiving facsimile machines in accordance with the broadcast instructions, either directly or through additional store and forward facilities associated with particular ones of the plurality of intended receiving facsimile machines.

26. A method in accordance with claim 25 including the step of defining mailboxes in the mass storage systems of each store and forward facility associated with particular system subscribers associated with particular store and forward facilities, and including the step of storing facsimile messages intended for those particular system subscribers in their respective mailboxes, and further including the step, in response to instructions received from a system subscriber, of transmitting facsimile messages stored in that subscriber's mailbox to a facsimile machine designated by that subscriber in the instructions.

27. A method in accordance with claim 26 including the step of retaining facsimile messages in the mass storage means for a predetermined time period after successful delivery of the facsimile messages to intended receiving facsimile machines, and, in response to instructions received from either the transmitting or receiving facsimile machines with respect to a particular facsimile message, the step of retransmitting that particular facsimile message to additional intended receiving facsimile machines.

28. A method in accordance with claim 27 including the step of providing subscribers with unique individual PIN numbers, storing the individual Pin number in the mass storage means of a store and forward facility associated with a particular subscriber, recognizing an incoming facsimile message from a transmitting facsimile machine which has been security coded, transmitting to the intended receiving facsimile machine for the security coded message a message indicating that the store and forward facility is holding a security coded message, and transmitting to the intended receiving facsimile machine the security coded message only after receipt by the store and forward facility from the intended receiving facsimile machine of the unique PIN number of a subscriber associated with that intended receiving facsimile machine.

29. A system in accordance with claim 1 wherein said computer means is programmed to store in the mass storage means relevant charging parameters including number of pages, destination and special system feature options provided for each facsimile message sent by a subscriber and received by a subscriber from a non-subscriber, and to generate charging summaries for subscribers periodically from the stored charging parameters.

30. A method in accordance with claims 11 or 20 including the step of storing in the mass storage means relevant charging parameters including number of pages, destination and special system feature options provided for each facsimile message sent by a subscriber and received by a subscriber from a non-subscriber, and generating charging summaries for subscribers periodically from the stored charging parameters.

31. A method in accordance with claims 11 or 20 including the step, upon receipt of a facsimile message from a transmitting facsimile machine, of immediately attempting delivery of the facsimile message to an intended receiving machine at the same time the message is being recorded in the mass storage means.

32. A method in accordance with claims 11 or 20 including the step that when an additional facsimile message intended for a particular receiving facsimile machine is received by a store and forward facility while that facility is in communication with that particular facsimile machine, the additional facsimile message is immediately appended to a message queue for the particular facsimile machine and delivered as part of the communication with that particular facsimile machine.

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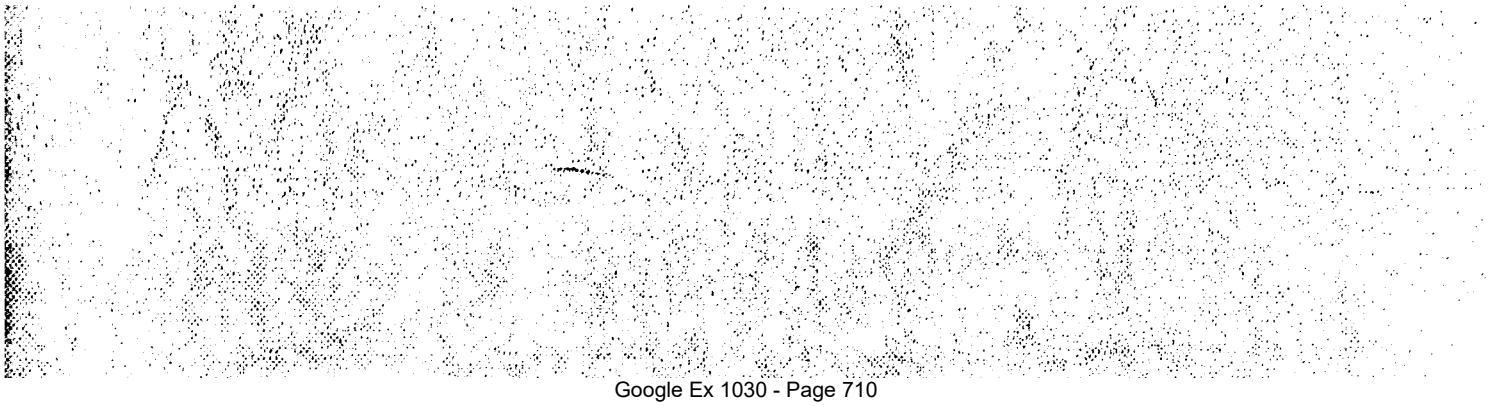
Abstract of The Disclosure

A system and method for facilitating facsimile transmissions has one or more store and forward facilities, each associated with a plurality of subscriber facsimile machines, typically coupled over the switched telephone network. The store and forward facilities include a computer for controlling operations and mass data storage equipment. A subscriber to the system delivers an outgoing facsimile message to the store and forward facility with which it is associated, which records the fax message together with data as to originating facsimile machine and destination facsimile machine. The store and forward facility then delivers the facsimile message to the intended receiver facsimile machine, either directly or through another store and forward facility. If unsuccessful on an initial attempt, the store and forward facility periodically retrys to send the facsimile message. The system also provides spooling of all facsimile messages for an intended receiver machine, which are all transmitted upon making connection with the receiver machine. Subscriber mailboxes are provided as part of the mass storage, which can be accessed by a subscriber to have his messages delivered to any facsimile machine he designates. Secure facsimile transmission is achieved through use of subscriber PIN numbers. Broadcasting, redirecting messages and cost accounting can also be achieved by the system and method.



Electronic Patent Application Fee Transmittal

Application Number:	15269776
Filing Date:	19-Sep-2016
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Filer:	Reena Kuyper/Esther Kim
Attorney Docket Number:	10115-05709 US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt	
EFS ID:	27840198
Application Number:	15269776
International Application Number:	
Confirmation Number:	2723
Title of Invention:	Robust voice browser system and voice activated device controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	93219
Filer:	Reena Kuyper
Filer Authorized By:	
Attorney Docket Number:	10115-05709 US
Receipt Date:	19-DEC-2016
Filing Date:	19-SEP-2016
Time Stamp:	20:48:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$180
RAM confirmation Number	122016INTEFSW20530700
Deposit Account	
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	05709US_IDSPART1.pdf	186929 ca5a8234b44666b23981a1dea33112b1bc846784	no	37
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	Information Disclosure Statement (IDS) Form (SB08)	05709US_IDSPART2.pdf	87169 394f110b5fd08ec3805c1f6f64322a1e67a437fb	no	11
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Transmittal Letter	05709US_Transmittal.pdf	69979 5d535914bed66c39951ec274ab4623f5dac52af2	no	3
Warnings:					
Information:					
4	Foreign Reference	05709US_FP1.pdf	16489 6ba80d02734da4ad9d988264ac35647ba37ee4aa	no	1
Warnings:					
Information:					
5	Foreign Reference	05709US_FP4.pdf	3533768 89a52556cc5d0ae23d808be39b65ad4efdc40f29	no	42
Warnings:					
Information:					
6	Non Patent Literature	05709US_NPL06.pdf	381706 fb5bcea2e99583fac0a4bca2536208063b429238	no	53

Warnings:					
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7	Non Patent Literature	05709US_NPL25_JointAppendixPART1.pdf	6408775 cafe29bf7b61ef27f198175fce79ab443c31858e	no	205
Warnings:					
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8	Non Patent Literature	05709US_NPL25_JointAppendixPART2.pdf	3053685 fad08770c24f161d6b766f22411778f185bef282	no	201
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Information:					
9	Non Patent Literature	05709US_NPL50_ReplyBrief.pdf	336346 ec2f71ea4691d16fd3a85eeea486daf7ccf6761b	no	40
Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	30121 10761459dcca45f942a759214099ab3e85b41c97	no	2
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/269,776	09/19/2016	Alexander Kurganov	10115-05709 US	2723

93219 7590 12/13/2016

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

EXAMINER
CHAWAN, VIJAY B

ART UNIT	PAPER NUMBER
2658	

NOTIFICATION DATE	DELIVERY MODE
12/13/2016	ELECTRONIC

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

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

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

docketing@patentlawworks.net
patents@patentlawworks.net

Office Action Summary	Application No. 15/269,776	Applicant(s) KURGANOV, ALEXANDER	
	Examiner Vijay B. Chawan	Art Unit 2658	AIA (First Inventor to File) Status Yes

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *9/19/16*.

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

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

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

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

Disposition of Claims*

5)☒ Claim(s) *1-30* is/are pending in the application.

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-30* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*,

686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

4. Claims 1-30 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 9451084. Although the claims at issue are not identical, they are not patentably distinct from each other because The claims of the instant application are similar in scope and content of the patented claims issued to the same applicant.

Application # 15/269776	Patent # 9451084
1. A system for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising: at least one computing device, the computing device operatively coupled to a plurality of communication networks; at least one media server including a speaker-independent-speech-recognition engine, the speaker-independent-speech-recognition engine operatively connected to the computing device and adapted to	1. A system for acquiring information from one or more sources maintaining a listing of web sites by receiving speech commands uttered by users into a voice-enabled device and for providing information retrieved from the web sites to the users in an audio form via the voice-enabled device, the system comprising: at least one computing device, the computing device operatively coupled to one or more networks; at least one speaker-independent speech-recognition device, the speaker-independent speech-recognition device operatively connected to the computing device and configured to

receive the naturally-spoken-speech commands and recognize phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user and to generate recognition-results data, the media server processing the recognition-results data to identify key words and using the keywords to search the plurality of information sources; memory operatively associated with the computing device with at least one instruction set for identifying the information to be retrieved from the plurality of sources, the instruction set being associated with the computing device, the instruction set further comprising: an indication of the plurality of sources, each identified by an address, at least one of the plurality sources containing the information to be retrieved; at least one recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction	receive the speech commands; at least one speech-synthesis device, the speech-synthesis device operatively connected to the computing device; memory operatively associated with the computing device with at least one instruction set for identifying the information to be retrieved, the instruction set being associated with the computing device, the instruction set comprising: a plurality of web site addresses for the listing of web sites, each web site address identifying a web site containing the information to be retrieved; at least one recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction set and corresponding to a speech command, the speech command comprising an information request provided by the user, the speaker-independent speech-recognition device configured to receive the speech

set and corresponding to a naturally-spoken-speech command, the naturally-spoken-speech command comprising an information request provided by the user, the speaker-independent- speech-recognition device adapted to receive the naturally-spoken-speech command from the particular user via the voice-enabled device and to select the corresponding recognition grammar upon receiving the naturally-spoken-speech command to convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access the one or more communication networks; the computing device adapted to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent-speech-recognition device and to access at least one of the plurality of information sources identified by the instruction set, in order to obtain at	command from the users via the voice-enabled device and to select the corresponding recognition grammar upon receiving the speech command; the computing device configured to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent speech-recognition device; the computing device further configured to access at least one of the plurality of web sites identified by the instruction set to obtain the information to be retrieved, wherein the computing device is further configured to periodically search via the one or more networks to identify new web sites and to add the new web sites to the plurality of web sites, the computing device configured to access a first web site of the plurality of web sites and, if the information to be retrieved is not found at the first web site, the computer configured to access the plurality of web

least a part of the information to be retrieved, the computing device further adapted to periodically search by the one or more communication networks to modify the plurality of information sources, the computing device adapted to access the plurality of information sources in a predetermined manner until the information to be retrieved is found; at least one speech-synthesis device, the speech-synthesis device operatively connected to the computing device; the speech synthesis device configured to produce an audio message containing any resulting information retrieved from the plurality of information sources, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.	sites remaining in an order defined for accessing the listing of web sites until the information to be retrieved is found in at least one of the plurality of web sites or until the plurality of web sites have been accessed; the speech synthesis device configured to produce an audio message containing any retrieved information from the plurality of web sites, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.
2. The system of claim 1, wherein the plurality of communication networks include	2. The system of claim 1, wherein the one or more networks include the Internet.

Internet.	
3. The system of claim 1, wherein the plurality of communication networks include a local-area network.	3. The system of claim 1, wherein the one or more networks include a local-area network
4. The system of claim 1, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.	4. The system of claim 1, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.
5. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.	5. The system of claim 1, wherein the speaker-independent speech recognition device is configured to analyze phonemes to recognize the speech commands.
6. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to recognize the	6. The system of claim 1, wherein the speaker-independent speech-recognition device is configured to recognize naturally

naturally-spoken-speech commands.	spoken speech commands.
7. The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre- defining a portion of the information source containing the information to be retrieved.	7. The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each web site address, the content descriptor pre-defining a portion of the web site containing the information to be retrieved.
8. The system of claim 1, wherein the computing device is further configured to periodically poll each of the plurality of information sources without being instructed by the user to determine at least one or more of 1) the availability of each information source, 2) the duration of time for each information source to respond to a request from the computing device, and changes to the location of the information to be retrieved from each information source, the computing device further configured to create the order of access to the plurality of information sources based	8. The system of claim 1, wherein the computing device is further configured to periodically poll each of the web sites without being instructed by the user to determine at least one or more of 1) the availability of each web site, 2) the duration of time for each web site to respond to a request from the computing device, and changes to the location of the information to be retrieved from each web site, the computing device further configured to create the order of access to the plurality of web sites based on the periodic polling.

on the periodic polling.	
9. The system of claim 1, wherein the computing device is adapted to search each of the new information sources without being instructed by the user to determine the availability of each new information source, the duration of time for each new information source to respond to a request from the computer, and changes to the location of the information to be retrieved from each new information source, the computing device further adapted to create an order for access to the modified plurality of information sources based on the periodic searches.	9. The system of claim 1, wherein the computing device is configured to search each of the new web sites without being instructed by the user to determine the availability of each new web site, the duration of time for each new web site to respond to a request from the computer, and changes to the location of the information to be retrieved from each new web site, the computing device further configured to create an order for access to the plurality of new web sites based on the periodic searches.
12. The system of claim 11, wherein the computing device is adapted to consider the criteria with respect to one another when modifications to the pre-defined order for access are based on more than one of the plurality of criteria.	12. The system of claim 11, wherein the computing device is configured to weigh the criteria with respect to one another for access are based on more than one of the plurality of criteria.
13. The system of claim 12, wherein the	13. The system of claim 12, wherein the

computing device is adapted to access the plurality of information sources in the order pre-defined to retrieve the information requested by the user, the computing device further configured to access first the information source that is highest in the order pre-defined.	computing device is configured to access the plurality of web sites in the order pre-defined to retrieve the information requested by the user, the computing device further configured to access first the web site that is highest in the order pre-defined.
14. The system of claim 1, further comprising: a database operatively connected to the computing device, the database adapted to store the information gathered from the information sources in response to the information requests.	14. The system of claim 1, further comprising: a database operatively connected to the computing device, the database configured to store the information gathered from the web sites in response to the information requests.
15. The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.	15. The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.

5. Claims 1-4, 8 and 9 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 9-11, 13 and 15 of U.S. Patent No. 8185402. Although the claims at issue are not identical, they are not patentably distinct from each

other because The claims of the instant application are similar in scope and content of the patented claims issued to the same applicant.

Application # 15/269776	Patent # 8185402
1. A system for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising: at least one computing device, the computing device operatively coupled to a plurality of communication networks; at least one media server including a speaker-independent-speech-recognition engine, the speaker-independent-speech-recognition engine operatively connected to the computing device and adapted to receive the naturally-spoken-speech commands and recognize phenomes in the naturally-spoken-speech commands to	9. A system for retrieving information from 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, said database containing a plurality of web site addresses; a content descriptor

understand spoken words by a particular user and to generate recognition-results data, the media server processing the recognition-results data to identify key words and using the keywords to search the plurality of information sources; memory operatively associated with the computing device with at least one instruction set for identifying the information to be retrieved from the plurality of sources, the instruction set being associated with the computing device, the instruction set further comprising: an indication of the plurality of sources, each identified by an address, at least one of the plurality sources containing the information to be retrieved; at least one recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction set and corresponding to a naturally-spoken-speech command, the naturally-spoken-speech command comprising an	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 web sites are accessed; said speaker-independent speech recognition engine configured to receive from users via said phone a speech command; said computer configured to access at least one of said plurality of web sites associated with said speech command 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

information request provided by the user, the speaker-independent- speech-recognition device adapted to receive the naturally-spoken-speech command from the particular user via the voice-enabled device and to select the corresponding recognition grammar upon receiving the naturally-spoken-speech command to convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access the one or more communication networks; the computing device adapted to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent-speech-recognition device and to access at least one of the plurality of information sources identified by the instruction set, in order to obtain at least a part of the information to be retrieved, the computing device further adapted to periodically search by the one	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 web sites, and said speech synthesis engine further configured to transmit said audio message to said users via said phone.

or more communication networks to modify the plurality of information sources, the computing device adapted to access the plurality of information sources in a predetermined manner until the information to be retrieved is found; at least one speech-synthesis device, the speech-synthesis device operatively connected to the computing device; the speech synthesis device configured to produce an audio message containing any resulting information retrieved from the plurality of information sources, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.	
2. The system of claim 1, wherein the plurality of communication networks include Internet.	13. The system of claim 9 wherein said internet is the Internet.
3. The system of claim 1, wherein the	11. The system of claim 9 wherein said

plurality of communication networks include a local-area network.	internet is a local area network.
4. The system of claim 1, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.	10. The system of claim 9 wherein said phone comprises a standard telephone, a cellular phone, or an IP phone.
5. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.	
6. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to recognize the naturally-spoken-speech commands.	
7. The system of claim 1, wherein the instruction set further comprises: a content	

descriptor associated with each information-source address, the content descriptor pre- defining a portion of the information source containing the information to be retrieved.	
8. The system of claim 1, wherein the computing device is further configured to periodically poll each of the plurality of information sources without being instructed by the user to determine at least one or more of 1) the availability of each information source, 2) the duration of time for each information source to respond to a request from the computing device, and changes to the location of the information to be retrieved from each information source, the computing device further configured to create the order of access to the plurality of information sources based on the periodic polling.	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.
9. The system of claim 1, wherein the computing device is adapted to search	15. The system of claim 9 wherein said computer is configured to establish or

each of the new information sources without being instructed by the user to determine the availability of each new information source, the duration of time for each new information source to respond to a request from the computer, and changes to the location of the information to be retrieved from each new information source, the computing device further adapted to create an order for access to the modified plurality of information sources based on the periodic searches.	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.
12. The system of claim 11, wherein the computing device is adapted to consider the criteria with respect to one another when modifications to the pre-defined order for access are based on more than one of the plurality of criteria.	
13. The system of claim 12, wherein the computing device is adapted to access the plurality of information sources in the order pre-defined to retrieve the information	

requested by the user, the computing device further configured to access first the information source that is highest in the order pre-defined.	
14. The system of claim 1, further comprising: a database operatively connected to the computing device, the database adapted to store the information gathered from the information sources in response to the information requests.	
15. The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.	

6. Claims 1-4, 8 and 9 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 9-11, 13 and 15 of U.S. Patent No. 7881941 Although the claims at issue are not identical, they are not patentably distinct from each other because The claims of the instant application are similar in scope and content of the patented claims issued to the same applicant.

Application # 15/269776	Patent # 7881941

1. A system for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising: at least one computing device, the computing device operatively coupled to a plurality of communication networks; at least one media server including a speaker-independent-speech-recognition engine, the speaker-independent-speech-recognition engine operatively connected to the computing device and adapted to receive the naturally-spoken-speech commands and recognize phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user and to generate recognition-results data, the media server processing the recognition-results data to identify key	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

words and using the keywords to search the plurality of information sources; memory operatively associated with the computing device with at least one instruction set for identifying the information to be retrieved from the plurality of sources, the instruction set being associated with the computing device, the instruction set further comprising: an indication of the plurality of sources, each identified by an address, at least one of the plurality sources containing the information to be retrieved; at least one recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction set and corresponding to a naturally-spoken-speech command, the naturally-spoken-speech command comprising an information request provided by the user, the speaker-independent- speech-recognition device adapted to receive the naturally-spoken-speech command from	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

the particular user via the voice-enabled device and to select the corresponding recognition grammar upon receiving the naturally-spoken-speech command to convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access the one or more communication networks; the computing device adapted to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent-speech-recognition device and to access at least one of the plurality of information sources identified by the instruction set, in order to obtain at least a part of the information to be retrieved, the computing device further adapted to periodically search by the one or more communication networks to modify the plurality of information sources, the computing device adapted to access the plurality of information sources in a	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

predetermined manner until the information to be retrieved is found; at least one speech-synthesis device, the speech-synthesis device operatively connected to the computing device; the speech synthesis device configured to produce an audio message containing any resulting information retrieved from the plurality of information sources, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.	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.
2. The system of claim 1, wherein the plurality of communication networks include Internet.	13. The system of claim 9 wherein said internet is the Internet.
3. The system of claim 1, wherein the plurality of communication networks include a local-area network.	11. The system of claim 9 wherein said internet is a local area network.
4. The system of claim 1, wherein the	10. The system of claim 9 wherein said

voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.	phone comprises a standard telephone, a cellular phone, or an IP phone.
5. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.	
6. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to recognize the naturally-spoken-speech commands.	
7. The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre- defining a portion of the information source containing the	

information to be retrieved.	
8. The system of claim 1, wherein the computing device is further configured to periodically poll each of the plurality of information sources without being instructed by the user to determine at least one or more of 1) the availability of each information source, 2) the duration of time for each information source to respond to a request from the computing device, and changes to the location of the information to be retrieved from each information source, the computing device further configured to create the order of access to the plurality of information sources based on the periodic polling.	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.
9. The system of claim 1, wherein the computing device is adapted to search each of the new information sources without being instructed by the user to determine the availability of each new information source, the duration of time for	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

each new information source to respond to a request from the computer, and changes to the location of the information to be retrieved from each new information source, the computing device further adapted to create an order for access to the modified plurality of information sources based on the periodic searches.	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.
12. The system of claim 11, wherein the computing device is adapted to consider the criteria with respect to one another when modifications to the pre-defined order for access are based on more than one of the plurality of criteria.	
13. The system of claim 12, wherein the computing device is adapted to access the plurality of information sources in the order pre-defined to retrieve the information requested by the user, the computing device further configured to access first the information source that is highest in the order pre-defined.	

14. The system of claim 1, further comprising: a database operatively connected to the computing device, the database adapted to store the information gathered from the information sources in response to the information requests.	
15. The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.	

Method claims 1-30 are similar to system claims and are also subject to the Double Patenting Rejection to the system claims above.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see attached form PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vijay B. Chawan whose telephone number is (571) 272-7601. The examiner can normally be reached on Monday Through Thursday 6:30-5:00.

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).

/Vijay B. Chawan/
Primary Examiner, Art Unit 2658

vbc
12/8/16

Notice of References Cited	Application/Control No. 15/269,776	Applicant(s)/Patent Under Reexamination KURGANOV, ALEXANDER	
	Examiner Vijay B. Chawan	Art Unit 2658	Page 1 of 2

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	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.

Notice of References Cited	Application/Control No. 15/269,776	Applicant(s)/Patent Under Reexamination KURGANOV, ALEXANDER	
	Examiner Vijay B. Chawan	Art Unit 2658	Page 2 of 2

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	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

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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.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15269776	KURGANOV, ALEXANDER
	Examiner	Art Unit
	VIJAY B CHAWAN	2658

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

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

CLAIM		DATE								
Final	Original	12/08/2016								
	1	✓								
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	22	✓								
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	24	✓								
	25	✓								
	26	✓								
	27	✓								
	28	✓								
	29	✓								
	30	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15269776	KURGANOV, ALEXANDER
	Examiner	Art Unit
	VIJAY B CHAWAN	2658

CPC- SEARCHED		
Symbol	Date	Examiner
G10L 15/26, 15/265, 15/22, 15/222, 25/48	12-8-16	vbc
H04M 2201/40, 3/4938, 2201/39, 2203/609, 3/382, 2201/60, 2203/105	12-8-16	vbc
G06F 3/16, 17/30873, 2216/15	vbc	12-8-16

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	270.1, 275, 200, 270, 246, 272	vbc	12-8-16
379	88.17, 88.01	vbc	12-8-16
707	707, 999.01, 999.101, 999.102	vbc	12-8-16
709	205, 219, 227	vbc	12-8-16
713	168, 182, 186	vbc	12-8-16
715	733	vbc	12-8-16
719	310	vbc	12-8-16
726	3	vbc	12-8-16

SEARCH NOTES		
Search Notes	Date	Examiner
See attached PLUS and WEST searches	vbc	12-8-16

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

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. 2723

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
15/269,776	09/19/2016 RULE	704	2658	10115-05709 US

APPLICANTS
Parus Holdings, Inc., Bannockburn, IL;

INVENTORS
Alexander Kurganov, Buffalo Grove, IL;

** **CONTINUING DATA** **********

** **FOREIGN APPLICATIONS** **********

** **IF REQUIRED, FOREIGN FILING LICENSE GRANTED** ** SMALL ENTITY **
10/06/2016

Foreign Priority claimed		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
☐ Yes ☑ No	☐ Met after Allowance	IL	4	30	2
35 USC 119(a-d) conditions met ☐ Yes ☑ No					
Verified and Acknowledged /VIJAY B CHAWAN/ Examiner's Signature	Initials				

ADDRESS

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

TITLE

Robust voice browser system and voice activated device controller

FILING FEE RECEIVED		
1200	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

Most frequently occurring classifications of patents returned from a search Of 15269776 on Nov 15 , 2016

Original Classifications

9	704/270.1
5	704/275
4	1/1
2	379/93.25
2	379/88.17
2	709/219

Cross-Reference Classifications

6	704/E15.045
3	715/234
3	709/217
3	704/275
2	379/93.17
2	709/203
2	709/225
2	707/E17.115
2	379/90.01
2	709/227
2	704/270.1
2	707/999.102
2	707/999.101
2	709/224
2	707/E17.119
2	704/200

Combined Classifications

11	704/270.1
8	704/275
6	704/E15.045
4	709/217
4	1/1
3	379/88.17
3	709/219
3	709/203
3	709/227
3	715/234
2	379/93.25
2	379/93.17
2	709/225
2	707/E17.115
2	370/401
2	379/90.01
2	726/3
2	707/999.102
2	707/999.101
2	704/270
2	709/224
2	707/E17.119
2	707/999.107
2	704/200

WEST Search History for Application 15269776

Creation Date: 2016120815:21

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427 20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	91	OR	YES		12-08-2016
((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427 20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)	PGPB	13	OR	YES		12-08-2016
((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427 20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)	USPT	36	OR	YES		12-08-2016
(kurganov-$.in.)	USPT	26	OR	YES		12-08-2016
((kurganov-$.in.) and voice)	PGPB,	38	OR	YES		12-08-2016

	USPT					
((kurganov-$.in.) and voice)	PGPB, USPT	38	OR	YES		12-08-2016
((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	42	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information)) and (recogni$6 near2 grammar))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	19	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information) and (recogni$6 near2 grammar)) and poll$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	7	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information) and (recogni$6 near2 grammar) and poll$3) and (speech near2 synthes$6))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	7	OR	YES		12-08-2016
(((kurganov-$.in.) and voice))	USPT	15	OR	YES		12-08-2016
(((kurganov-$.in.) and voice))	PGPB	23	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) McFadden	PGPB, USPT	6628	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) and s$-McFadden.xa.	PGPB, USPT	0	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) and s$-McFadden.xp.	PGPB, USPT	0	OR	YES		12-08-2016

(H04M2201/40 | H04M3/4938 | H04M2201/39 | H04M2203/609 | H04M3/382 | H04M2201/60 | H04M2203/105 | H04M3/4878 | H04M3/493 | H04M3/4931 | H04M7/12).CPC.	PGPB, USPT	11646	OR	YES		12-08-2016
(G10L15/26 | G10L15/265 | G10L15/22 | G10L15/222 | G10L25/48).CPC.	PGPB, USPT	10728	OR	YES		12-08-2016
(G06F3/16 | G06F17/30873 | G06F2216/15).CPC.	PGPB, USPT	5594	OR	YES		12-08-2016
(704/270.1 | 704/275 | 704/200 | 704/270 | 704/246 | 704/272).CCLS.	PGPB, USPT	10840	OR	YES		12-08-2016
(379/88.17 | 379/88.01).CCLS.	PGPB, USPT	3264	OR	YES		12-08-2016
(707/707707/999.01 | 707/999.101 | 707/999.102).CCLS.	PGPB, USPT	13063	OR	YES		12-08-2016
(709/205 | 709/219 | 709/227).CCLS.	PGPB, USPT	31584	OR	YES		12-08-2016
(713/168 | 713/182 | 713/186).CCLS.	PGPB, USPT	13521	OR	YES		12-08-2016
(715/733 | 719/310 | 726/3).CCLS.	PGPB, USPT	9664	OR	YES		12-08-2016

WEST Search History for Application 15269776

Creation Date: 2016120816:02

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427 20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	91	OR	YES		12-08-2016
((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427 20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)	PGPB	13	OR	YES		12-08-2016
((6104790 6141413 5764906 5838682 5898839 5926789 5946633 5963908 5983351 6101537 6108406 6112233 6134235 6144991 6282515 6317594 6438601 6687734 6721705 6859776 6950946 7076431 7170993 7185197 7213027 7386455 7526539 7676500 7881941 7974875 7881941 8131555 8185402 8543622 8874446 9324083 9451084 20010047262 20020004721 20020104025 20040153368 20040193427 20050091123 20060190265 20070050413 20070156435 20080189113 20100223300 20100235201 20110091023).pn.)	USPT	36	OR	YES		12-08-2016
(kurganov-$.in.)	USPT	26	OR	YES		12-08-2016
((kurganov-$.in.) and voice)	PGPB,	38	OR	YES		12-08-2016

	USPT					
((kurganov-$.in.) and voice)	PGPB, USPT	38	OR	YES		12-08-2016
((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	42	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information)) and (recogni$6 near2 grammar))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	19	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information) and (recogni$6 near2 grammar)) and poll$3)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	7	OR	YES		12-08-2016
(((natural$5 near3 (spoken or speech or vocal or voice)) and (speaker near2 independent) and (speech near2 command) and (identif$6 near2 information) and (recogni$6 near2 grammar) and poll$3) and (speech near2 synthes$6))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	7	OR	YES		12-08-2016
(((kurganov-$.in.) and voice))	USPT	15	OR	YES		12-08-2016
(((kurganov-$.in.) and voice))	PGPB	23	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) McFadden	PGPB, USPT	6628	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) and s$-McFadden.xa.	PGPB, USPT	0	OR	YES		12-08-2016
(((kurganov-$.in.) and voice)) and s$-McFadden.xp.	PGPB, USPT	0	OR	YES		12-08-2016

(H04M2201/40 ! H04M3/4938 ! H04M2201/39 ! H04M2203/609 ! H04M3/382 ! H04M2201/60 ! H04M2203/105 ! H04M3/4878 ! H04M3/493 ! H04M3/4931 ! H04M7/12).CPC.	PGPB, USPT	11646	OR	YES		12-08-2016
(G10L15/26 ! G10L15/265 ! G10L15/22 ! G10L15/222 ! G10L25/48).CPC.	PGPB, USPT	10728	OR	YES		12-08-2016
(G06F3/16 ! G06F17/30873 ! G06F2216/15).CPC.	PGPB, USPT	5594	OR	YES		12-08-2016
(704/270.1 ! 704/275 ! 704/200 ! 704/270 ! 704/246 ! 704/272).CCLS.	PGPB, USPT	10840	OR	YES		12-08-2016
(379/88.17 ! 379/88.01).CCLS.	PGPB, USPT	3264	OR	YES		12-08-2016
(707/707707/999.01 ! 707/999.101 ! 707/999.102).CCLS.	PGPB, USPT	13063	OR	YES		12-08-2016
(709/205 ! 709/219 ! 709/227).CCLS.	PGPB, USPT	31584	OR	YES		12-08-2016
(713/168 ! 713/182 ! 713/186).CCLS.	PGPB, USPT	13521	OR	YES		12-08-2016
(715/733 ! 719/310 ! 726/3).CCLS.	PGPB, USPT	9664	OR	YES		12-08-2016
(707/707 ! 707/999.01 ! 707/999.101 ! 707/999.102).CCLS.	PGPB, USPT	23374	OR	YES		12-08-2016

Titles of most frequently occurring classifications of patents returned from a search of 15269776 on Nov 15 , 2016

11 704/270.1 (9 OR, 2 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/200 .SPEECH SIGNAL PROCESSING
704/270 ..Application
704/270.1 ...Speech assisted network

8 704/275 (5 OR, 3 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/200 .SPEECH SIGNAL PROCESSING
704/270 ..Application
704/275 ...Speech controlled system

6 704/E15.045 (0 OR, 6 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/E15.001 .SPEECH RECOGNITION (EPO)
704/E15.043 ..Speech to text systems (EPO)
704/E15.045 ...Systems using speech recognizers (EPO)

4 709/217 (1 OR, 3 XR)
Class 709 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING
709/217 .REMOTE DATA ACCESSING

4 1/1 (4 OR, 0 XR)
Class 1/1 NO DATA PATENTS

3 379/88.17 (2 OR, 1 XR)
Class 379 TELEPHONIC COMMUNICATIONS
379/67.1 .AUDIO MESSAGE STORAGE, RETRIEVAL, OR SYNTHESIS
379/88.17 ..Interaction with an external nontelephone network (e.g., Internet)

3 709/219 (2 OR, 1 XR)
Class 709 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING
709/217 .REMOTE DATA ACCESSING
709/219 ..Accessing a remote server

3 709/203 (1 OR, 2 XR)
Class 709 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING
709/201 .DISTRIBUTED DATA PROCESSING
709/203 ..Client/server

3 709/227 (1 OR, 2 XR)
Class 709 ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING
709/227 .COMPUTER-TO-COMPUTER SESSION/CONNECTION ESTABLISHING

3 715/234 (0 OR, 3 XR)
Class 715 DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT, OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING
715/200 .PRESENTATION PROCESSING OF DOCUMENT
715/234 ..Structured document (e.g., HTML, SGML, CDA, CDA, etc.)

2 379/93.25 (2 OR, 0 XR)

```
          Class 379     TELEPHONIC COMMUNICATIONS
          379/90.01     .TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE ELECTRICAL
SYSTEM OR SIGNALLING (E.G., COMPOSITE)
          379/93.01     ..Having transmission of a digital message signal over a
telephone line
          379/93.17     ...Having station display
          379/93.25     ....Having remote database (e.g., videotex system)

  2  379/93.17     (0 OR, 2 XR)
          Class 379     TELEPHONIC COMMUNICATIONS
          379/90.01     .TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE ELECTRICAL
SYSTEM OR SIGNALLING (E.G., COMPOSITE)
          379/93.01     ..Having transmission of a digital message signal over a
telephone line
          379/93.17     ...Having station display

  2  709/225       (0 OR, 2 XR)
          Class 709     ELECTRICAL COMPUTERS AND DIGITAL PROCCESSING SYSTEMS:
MULTICOMPUTER DATA TRANSFERRING
          709/223       .COMPUTER NETWORK MANAGING
          709/225       ..Computer network access regulating

  2  707/E17.115   (0 OR, 2 XR)
          Class 707     DATA PROCESSING:  DATABASE AND FILE MANAGEMENT OR DATA
STRUCTURES
          707/E17.001   .INFORMATION RETRIEVAL; DATABASE STRUCTURES THEREFORE (EPO)
          707/E17.107   ..Retrieval from the Internet, e.g., browsers, etc. (EPO)
          707/E17.112   ...By using information identifiers, e.g., encoding URL in
specific indicia, browsing history, etc. (EPO)
          707/E17.115   ....URL specific, e.g., using aliases, detecting broken or
misspelled links, etc. (EPO)

  2  370/401       (1 OR, 1 XR)
          Class 370     MULTIPLEX COMMUNICATIONS
          370/351       .PATHFINDING OR ROUTING
          370/389       ..Switching a message which includes an address header
          370/400       ...Having a plurality of nodes performing distributed
switching
          370/401       ....Bridge or gateway between networks

  2  379/90.01     (0 OR, 2 XR)
          Class 379     TELEPHONIC COMMUNICATIONS
          379/90.01     .TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE ELECTRICAL
SYSTEM OR SIGNALLING (E.G., COMPOSITE)

  2  726/3         (1 OR, 1 XR)
          Class 726     INFORMATION SECURITY
          726/2         .ACCESS CONTROL OR AUTHENTICATION
          726/3         ..Network

  2  707/999.102   (0 OR, 2 XR)
          Class 707     DATA PROCESSING:  DATABASE AND FILE MANAGEMENT OR DATA
STRUCTURES
          707/999.1     .DATABASE SCHEMA OR DATA STRUCTURE (707/100)
          707/999.102   ..Generating database or data structure (e.g., via user
interface) (707/102)

  2  707/999.101   (0 OR, 2 XR)
          Class 707     DATA PROCESSING:  DATABASE AND FILE MANAGEMENT OR DATA
STRUCTURES
          707/999.1     .DATABASE SCHEMA OR DATA STRUCTURE (707/100)
          707/999.101   ..Manipulating data structure (e.g., compression,
compaction, compilation) (707/101)
```

```
  2  704/270        (1 OR, 1 XR)
           Class 704      DATA PROCCESSING: SPEECH SIGNAL PROCCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200          .SPEECH SIGNAL PROCCESSING
           704/270          ..Application

  2  709/224        (0 OR, 2 XR)
           Class 709      ELECTRICAL COMPUTERS AND DIGITAL PROCCESSING SYSTEMS:
MULTICOMPUTER DATA TRANSFERRING
           709/223          .COMPUTER NETWORK MANAGING
           709/224          ..Computer network monitoring

  2  707/E17.119    (0 OR, 2 XR)
           Class 707      DATA PROCCESSING:  DATABASE AND FILE MANAGEMENT OR DATA
STRUCTURES
           707/E17.001    .INFORMATION RETRIEVAL; DATABASE STRUCTURES THEREFORE (EPO)
           707/E17.107    ..Retrieval from the Internet, e.g., browsers, etc. (EPO)
           707/E17.119    ...Browsing optimization (EPO)

  2  707/999.107    (1 OR, 1 XR)
           Class 707      DATA PROCCESSING:  DATABASE AND FILE MANAGEMENT OR DATA
STRUCTURES
           707/999.1      .DATABASE SCHEMA OR DATA STRUCTURE (707/100)
           707/999.107    ..Application of database or data structure (e.g.,
distributed, multimedia, image) (707/104.1)

  2  704/200        (0 OR, 2 XR)
           Class 704      DATA PROCCESSING: SPEECH SIGNAL PROCCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
           704/200          .SPEECH SIGNAL PROCCESSING
```

PLUS Search Results for S/N 15269776, Searched Tue Nov 15 11:56:48 EST 2016

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6104790 99
6141413 99
5764906 99
5838682 99
5898839 99
5926789 99
5946633 99
5963908 99
5983351 99
6101537 99
6108406 99
6112233 99
6134235 99
6144991 99
6282515 99
6317594 99
6438601 99
6687734 99
6721705 99
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6950946 99
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7185197 99
7213027 99
7386455 99
7526539 99
7676500 99
7881941 99
7974875 99
7881941 99
8131555 99
8185402 99
8543622 99
8874446 99
9324083 99
9451084 99
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20020104025 99
20040153368 99
20040193427 99
20050091123 99
20060190265 99
20070050413 99
20070156435 99
20080189113 99
20100223300 99
20100235201 99
20110091023 99

UNITED STATES PATENT AND TRADEMARK OFFICE

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

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

MAILED
OCT 12 2016
OFFICE OF PETITIONS

Doc Code: TRACK1.GRANT

Decision Granting Request for Prioritized Examination (Track I or After RCE)	Application No.: 15/269,776

1. THE REQUEST FILED September 19, 2016 IS **GRANTED.**

The above-identified application has met the requirements for prioritized examination
A. ☒ for an original nonprovisional application (Track I).
B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination.** The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;
B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims**, or a multiple dependent claim;
C. filing a **request for continued examination**;
D. filing a notice of appeal;
E. filing a request for suspension of action;
F. mailing of a notice of allowance;
G. mailing of a final Office action;
H. completion of examination as defined in 37 CFR 41.102; or
I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to Brian W. Brown at 571-272-5338.

/Brian W. Brown/
[*Signature*]

Petitions Examiner, Office of Petitions
(Title)

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/269,776	09/19/2016	2447	1200	10115-05709 US	30	2

CONFIRMATION NO. 2723

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

FILING RECEIPT

OC000000088323417

Date Mailed: 10/07/2016

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Alexander Kurganov, Buffalo Grove, IL;

Applicant(s)

Parus Holdings, Inc., Bannockburn, IL;

Power of Attorney: None

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 10/06/2016
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/269,776**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No
**** SMALL ENTITY ****
Title

Robust voice browser system and voice activated device controller

Preliminary Class

709

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/269,776

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	30 minus 20 =	* 10	x 40 =	400	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x 210 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	1130		TOTAL	

APPLICATION AS AMENDED - PART II

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

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/269,776	09/19/2016	Alexander Kurganov	10115-05709 US

CONFIRMATION NO. 2723

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

INFORMAL NOTICE

OC000000086323418

Date Mailed: 10/07/2016

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Alexander Kurganov

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

/tle/

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

FIRST INVENTOR:	Alexander Kurganov
APPLICATION NO:	15/269,776
FILING DATE:	September 19, 2016
TITLE:	Robust Voice Browser System and Voice Activated Device Controller
EXAMINER:	Not Yet Assigned
GROUP ART UNIT:	Not Yet Assigned
ATTY. DKT. NO:	10115-05709 US
CONFIRMATION NO:	2723

CERTIFICATE OF EFS-WEB TRANSMISSION

Pursuant to 240 OG 45 and the Legal Framework For EFS-Web, I hereby certify that this follow-on correspondence is being officially submitted through the USPTO EFS-Web system from the Eastern Time Zone of the United States on the local date shown below:

Dated: September 21st, 2016 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830

COMMISSIONER FOR PATENTS
OFFICE OF INITIAL PATENT EXAMINATION
CUSTOMER SERVICE CENTER
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Sir/Madam:

The priority data as seen in the Domestic Benefit/National Stage Information Section of the original Application Data Sheet filed on September 19, 2016 is inaccurate. Applicant wishes to delete all currently claimed priority data as seen in the original Application Data Sheet and replace it with the priority claims as seen in the Substitute Application Data Sheet and as

disclosed in the Cross-Reference to Related Applications section of the original Specification, which is copied below:

> This application is a continuation of Application Serial No. 13/462,819, entitled "Robust Voice Browser System and Voice Activated Device Controller," filed May 3, 2012, which is a continuation of Application Serial No. 12/973,475, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed December 20, 2010, which is a continuation of Application Serial No. 12/030,556, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 13, 2008, now U.S. Patent No. 7,881,941, which is a continuation application of Application Serial No. 11/409,703, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 24, 2006, now US Patent No. 7,386,455, which is a continuation application of Application Serial No. 10/821,690, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 9, 2004, now US Patent No. 7,076,431, which is a continuation application of Application Serial No. 09/776,996, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 5, 2001, now US Patent No. 6,721,705, which claims priority to U.S. Provisional Application Serial No. 60/180,344, entitled "Voice Activated Information Retrieval System," filed February 4, 2000 and U.S. Provisional Application No. 60/233,068, filed September 15, 2000, entitled "Robust Voice Browser System and Voice Activated Device Controller, all assigned to the assignee of the present application. The subject matter in the

above-identified co-pending and commonly owned applications is incorporated herein by reference.

Applicant also wishes to change the title indicated on the Application Data Sheet from "Personal Voice Based Information Retrieval System" to "Robust Voice Browser System and Voice Activated Device Controller."

The necessary changes are indicated in a Marked-Up Application Data Sheet and a clean Substitute Application Data Sheet.

Please issue a corrected Filing Receipt indicating these changes.

Respectfully submitted,
ALEXANDER KURGANOV

Dated: September 21st, 2016 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830
Of
PATENT LAW WORKS LLP
201 South Main Street, Suite 250
Salt Lake City, UT 84111
Tel.: (650) 537-4509
Fax: (801) 355-0160
Email: rkuyper@patentlawworks.net

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alexander		Kurganov	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Buffalo Grove	State/Province	IL	Country of Residence	US

Mailing Address of Inventor:

Address 1	c/o Parus Holdings, Inc.		
Address 2	3000 Lakeside Drive, Suite 110S		
City	Bannockburn	State/Province	IL
Postal Code	60015	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	93219		
Email Address	docketing@patentlawworks.net	Add Email	Remove Email

Application Information:

Title of the Invention	Robust Voice Browser System and Voice Activated Device Controller		
Attorney Docket Number	10115-05709 US	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	93219		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	13462819	2012-05-03

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

SUBSTITUTE APPLICATION DATA SHEET

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13462819	Continuation of	12973475	2010-12-20	8185402	2012-05-22
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12973475	Continuation of	12030556	2008-02-13	7881941	2011-02-01
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12030556	Continuation of	11409703	2006-04-24	7386455	2008-06-10
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11409703	Continuation of	10821690	2004-04-09	7076431	2006-07-11
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
10821690	Continuation of	09776996	2001-02-05	6721705	2004-04-13
Prior Application Status	Expired			Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
09776996	Claims benefit of provisional	60180344	2000-02-04		
Prior Application Status	Expired			Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
09776996	Claims benefit of provisional	60233068	2000-09-15		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[j] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

SUBSTITUTE APPLICATION DATA SHEET

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

(•) Assignee	( ) Legal Representative under 35 U.S.C. 117	( ) Joint Inventor
( ) Person to whom the inventor is obligated to assign.	( ) Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Parus Holdings, Inc.

Mailing Address Information For Applicant:

Address 1	3000 Lakeside Drive, Suite 110S		
Address 2			
City	Bannockburn	**State/Province**	IL
Country	US	Postal Code	60015
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Robust Voice Browser System and Voice Activated Device Controller	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Reena Kuyper/			Date (YYYY-MM-DD)	2016-09-21
First Name	Reena	Last Name	Kuyper	Registration Number	33830

Additional Signature may be generated within this form by selecting the Add button.

SUBSTITUTE APPLICATION DATA SHEET

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SUBSTITUTE APPLICATION DATA SHEET

Privacy Act Statement

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

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

MARKED UP APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	

Title of Invention	~~Personal Voice-Based Information Retrieval System~~ Robust Voice Browser System and Voice Activated Device Controller

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alexander		Kurganov	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Buffalo Grove	State/Province	IL	Country of Residence	US

Mailing Address of Inventor:

Address 1	c/o Parus Holdings, Inc.		
Address 2	3000 Lakeside Drive, Suite 110S		
City	Bannockburn	State/Province	IL
Postal Code	60015	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	93219		
Email Address	docketing@patentlawworks.net	Add Email	Remove Email

Application Information: Robust Voice Browser System and Voice Activated Device Controller

Title of the Invention	~~Personal Voice-Based Information Retrieval System~~		
Attorney Docket Number	10115-05709 US	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

MARKED UP APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	~~Personal Voice-Based Information Retrieval System~~ Robust Voice Browser System and Voice Activated Device Controller	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

----->☒ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	93219		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

----->Prior Application Status	~~Pending~~	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	~~Continuation of~~	~~12787801~~	~~2010-05-26~~

MARKED UP APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	

Title of Invention	~~Personal Voice-Based Information Retrieval System~~ Robust Voice Browser System and Voice Activated Device Controller

Prior Application Status	~~Abandoned~~	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
~~12787801~~	~~Continuation of~~	~~11771773~~	~~2007-06-29~~

Prior Application Status	~~Patented~~	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
~~11771773~~	~~Continuation of~~	~~09777406~~	~~2001-02-26~~	~~7516190~~	~~2009-04-07~~

Prior Application Status	~~Expired~~	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
~~09777406~~	~~Claims benefit of provisional~~	~~60180343~~	~~2000-02-04~~

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

MARKED UP APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10115-05709 US
		Application Number	
Title of Invention	~~Personal Voice-Based Information Retrieval System~~	Robust Voice Browser System and Voice Activated Device Controller	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

MARKED UP APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	~~Personal Voice-Based Information Retrieval System~~ Robust Voice Browser System and Voice Activated Device Controller	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

(•) Assignee	( ) Legal Representative under 35 U.S.C. 117	( ) Joint Inventor
( ) Person to whom the inventor is obligated to assign.	( ) Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Parus Holdings, Inc.

Mailing Address Information For Applicant:

Address 1	3000 Lakeside Drive, Suite 110S		
Address 2			
City	Bannockburn	**State/Province**	IL
Country	US	Postal Code	60015
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

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If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
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Phone Number		Fax Number	
Email Address			

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Signature:

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See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Reena Kuyper/			Date (YYYY-MM-DD)	2016-09-19
First Name	Reena	Last Name	Kuyper	Registration Number	33830

Additional Signature may be generated within this form by selecting the Add button.

MARKED UP APPLICATION DATA SHEET

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

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		Application Number	
Title of Invention	~~- Personal Voice-Based Information Retrieval System~~	Robust Voice Browser System and Voice Activated Device Controller	

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	15269776
Filing Date:	
Title of Invention:	Personal Voice-Based Information Retrieval System
First Named Inventor/Applicant Name:	Alexander Kurganov
Filer:	Reena Kuyper/Esther Kim
Attorney Docket Number:	10115-05709 US

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	2830	1	70	70
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**70**

Electronic Acknowledgement Receipt

EFS ID:	26997723
Application Number:	15269776
International Application Number:	
Confirmation Number:	2723
Title of Invention:	Personal Voice-Based Information Retrieval System
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	93219
Filer:	Reena Kuyper
Filer Authorized By:	
Attorney Docket Number:	10115-05709 US
Receipt Date:	21-SEP-2016
Filing Date:	
Time Stamp:	21:17:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$70
RAM confirmation Number	6740
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	05709US_RequestForCorrectedFR.pdf	64898 41479979591bb3dc53200113c1942909108106d4	no	3
Warnings:					
Information:					
2	Application Data Sheet	05709US_SubstituteADS.pdf	712813 1b8cca47d2993e3a10cb2aa297a8fb2241af3be8	no	9
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Application Data Sheet	05709US_MarkedUpADS.pdf	160963 e49bc751ecc680552b97cfea34d86dd93021dc0c	no	8
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
4	Fee Worksheet (SB06)	fee-info.pdf	30502 126560c11859c4b74961ec1fdccd303fcb0a3138	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	969176		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 10/04/2016

CCETIN SALE #00000037 Mailroom Dt: 09/21/2016 15269776
01 FC : 2051 70.00 OP

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 10/04/2016

CCETIN ADJ #00000027 Mailroom Dt: 09/21/2016
Seq No: 6740 Sales Acctg Dt: 09/22/2016 15269776
01 FC : 2830 -70.00 OP

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

FIRST INVENTOR:	Alexander Kurganov
APPLICATION NO:	15/269,776
FILING DATE:	September 19, 2016
TITLE:	Robust Voice Browser System and Voice Activated Device Controller
EXAMINER:	Not Yet Known
GROUP ART UNIT:	Not Yet Known
ATTY. DKT. NO:	10115-05709 US
CONFIRMATION NO:	2723

CERTIFICATE OF EFS-WEB TRANSMISSION

Pursuant to 240 OG 45 and the Legal Framework For EFS-Web, I hereby certify that this follow-on correspondence is being officially submitted through the USPTO EFS-Web system from the Eastern Time Zone of the United States on the local date shown below:

Dated: 09/20/2016 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830

COMMISSIONER FOR PATENTS
OFFICE OF INITIAL PATENT EXAMINATION
CUSTOMER SERVICE CENTER
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Sir/Madam:

A Substitute Application Data Sheet is attached which corrects the following error:

☒ Removes the check box for Request Not to Publish as seen on page 2.

Enclosed please find the following supporting document:

☒ Substitute Application Data Sheet (clean) with Request Not to Publish unchecked

REQUEST FOR CORRECTED FILING RECEIPT CONT.

There are no other differences from the substitute and the first Application Data Sheet filed on September 19, 2016.

Please issue a corrected Filing Receipt rectifying these errors.

Respectfully submitted,
ALEXANDER KURGANOV

Dated: 09/20/2016 By: /Reena Kuyper/

Reena Kuyper, Reg. No. 33830
Attorney for Applicant
PATENT LAW WORKS LLP
201 South Main Street, Suite 250
Salt Lake City, UT 84111
Tel.: (650) 537-4509
Fax: (801) 355-0160
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SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alexander		Kurganov	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Buffalo Grove	State/Province	IL	Country of Residence	US

Mailing Address of Inventor:

Address 1	c/o Parus Holdings, Inc.		
Address 2	3000 Lakeside Drive, Suite 110S		
City	Bannockburn	State/Province	IL
Postal Code	60015	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	93219		
Email Address	docketing@patentlawworks.net	Add Email	Remove Email

Application Information:

Title of the Invention	Personal Voice-Based Information Retrieval System		
Attorney Docket Number	10115-05709 US	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	93219		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	12787801	2010-05-26

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
12787801	Continuation of	11771773	2007-06-29

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11771773	Continuation of	09777406	2001-02-26	7516190	2009-04-07

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
09777406	Claims benefit of provisional	60180343	2000-02-04

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

SUBSTITUTE APPLICATION DATA SHEET

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

(•) Assignee	( ) Legal Representative under 35 U.S.C. 117	( ) Joint Inventor
( ) Person to whom the inventor is obligated to assign.	( ) Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Parus Holdings, Inc.

Mailing Address Information For Applicant:

Address 1	3000 Lakeside Drive, Suite 110S		
Address 2			
City	Bannockburn	**State/Province**	IL
Country	US	Postal Code	60015
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Reena Kuyper/			Date (YYYY-MM-DD)	2016-09-20
First Name	Reena	Last Name	Kuyper	Registration Number	33830

Additional Signature may be generated within this form by selecting the Add button.

SUBSTITUTE APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

SUBSTITUTE APPLICATION DATA SHEET

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	26977850
Application Number:	15269776
International Application Number:	
Confirmation Number:	2723
Title of Invention:	Personal Voice-Based Information Retrieval System
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	93219
Filer:	Reena Kuyper
Filer Authorized By:	
Attorney Docket Number:	10115-05709 US
Receipt Date:	20-SEP-2016
Filing Date:	
Time Stamp:	14:23:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	05709US_RequestForCorrectedADS.pdf	60492 228bd0b8265775d38f7239835eb8820eaf919948	no	2

Warnings:

Information:					
2	Application Data Sheet	05709US_SubstituteADS.pdf	702392 c3986db4e7f879ff20d7b22b0ff9c43350e07302	no	8

Warnings:
Information:
This is not an USPTO supplied ADS fillable form

Total Files Size (in bytes):	762884

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

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

First Named Inventor:	Alexander Kurganov	Nonprovisional Application Number (if known):	
Title of Invention:	Robust Voice Browser System and Voice Activated Device Controller		

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

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

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

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, **or** the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

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

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

Signature /Reena Kuyper/	Date 2016-9-19
Name (Print/Typed) Reena Kuyper	Practitioner Registration Number 33830

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☐ *Total of _____ forms are submitted.

Privacy Act Statement

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

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

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alexander		Kurganov	

Residence Information (Select One) ● US Residency Non US Residency Active US Military Service

City	Buffalo Grove	State/Province	IL	Country of Residence	US

Mailing Address of Inventor:

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Address 2	3000 Lakeside Drive, Suite 110S

City	Bannockburn	State/Province	IL
Postal Code	60015	**Country** i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	93219		
Email Address	docketing@patentlawworks.net	Add Email	Remove Email

Application Information:

Title of the Invention	Personal Voice-Based Information Retrieval System		
Attorney Docket Number	10115-05709 US	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		**Suggested Figure for Publication (if any)**	

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	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☒ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	● Customer Number	US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	93219		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	12787801	2010-05-26

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
12787801	Continuation of	11771773	2007-06-29
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11771773	Continuation of	09777406	2001-02-26	7516190	2009-04-07

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
09777406	Claims benefit of provisional	60180343	2000-02-04

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Parus Holdings, Inc.		
Mailing Address Information For Applicant:			
Address 1	3000 Lakeside Drive, Suite 110S		
Address 2			
City	Bannockburn	**State/Province**	IL
Country	US	Postal Code	60015
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
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Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Reena Kuyper/			Date (YYYY-MM-DD)	2016-09-19
First Name	Reena	Last Name	Kuyper	Registration Number	33830

Additional Signature may be generated within this form by selecting the Add button. Add

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10115-05709 US
	Application Number	
Title of Invention	Personal Voice-Based Information Retrieval System	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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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 CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ROBUST VOICE BROWSER SYSTEM AND VOICE ACTIVATED DEVICE CONTROLLER

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of Application Serial No. 13/462,819, entitled "Robust Voice Browser System and Voice Activated Device Controller," filed May 3, 2012, which is a continuation of Application Serial No. 12/973,475, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed December 20, 2010, which is a continuation of Application Serial No. 12/030,556, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 13, 2008, now U.S. Patent No. 7,881,941, which is a continuation application of Application Serial No. 11/409,703, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 24, 2006, now US Patent No. 7,386,455, which is a continuation application of Application Serial No. 10/821,690, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed April 9, 2004, now US Patent No. 7,076,431, which is a continuation application of Application Serial No. 09/776,996, entitled "Robust Voice Browser System And Voice Activated Device Controller," filed February 5, 2001, now US Patent No. 6,721,705, which claims priority to U.S. Provisional Application Serial No. 60/180,344, entitled "Voice Activated Information Retrieval System," filed February 4, 2000 and U.S. Provisional Application No. 60/233,068, filed September 15, 2000, entitled "Robust Voice Browser System and Voice Activated Device Controller, all assigned to the assignee of the present application. The subject matter in the above-identified co-pending and commonly owned applications is incorporated herein by reference.

FIELD OF THE INVENTION

[0002] 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

[0003] 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.

[0004] 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.

[0005] 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.

[0006] 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.

[0007] 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.

[0008] 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.

[0009] 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 allows 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 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, LP 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. l 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 INVENTION

[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.

[0031]

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: wportal1 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: wportal1 browsingServerBackup: wportal2 dateTime: Dec 21 2000 1:45PM

[0032] 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.

[0033] 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.

[0034] 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, Calif. 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.

[0035] 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.

[0036]

TABLE 2

```
?WHAT_IS ?the weather?[info information report conditions]
                ?( (?like in)
                ]
USCities:n
                {<paraml $n.zip> <param2    $n.city> <param3
                $n.state>}
                 (  (area code)  AREA_CODE:n ) {<paraml $n>}
                 (  AREA_CODE:n (area code) ) {paraml $n>}
                 ( (ZIP_CODE:n (zip ?code) ) {<paraml $n>}
                ]
                )
                        ) {<mem 194>}
```

[0037] 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.

[0038] 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, Mass. 01803 (www.lhsl.com).

[0039] 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.

[0040] 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 the 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.

[0041] Table 3 below contains source code for a content extraction agent 400 used by the preferred embodiment.

[0042]

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&flight_no=155&mo
n_abbr=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 %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',
                flightStatus_itn => 'webget.pl
flight_delay',
                yellowPages_yahoo => 'yp_data.pl',
                yellowPages_yahoo => 'yp_data.pl',
                newsHeaders_newreal => 'news.pl',
                newsArticle_newsreal => 'news.pl',
                ) ;
# test param
my $date = 'date';
```

TABLE 3-continued

```
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 =~ ml^ (*/) ([^/]*) | ;

# 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
}" ;
        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 ) ;
        }
```

TABLE 3-continued

```
}

# 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 = ) "
                        . "where route = '$script $service' " )
                    if ( $route eq "$script $service_stored" ) ;
                                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_swervice {
                my ( $service ) = @_;
```

TABLE 3-continued

```
                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 ")
                                } - > [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"
                        nless $service;
                return $service;
}       -
```

[0043] 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/sybper15
#-T
# -w
# $Header:
/usr/local/cvsroote/Webley/agents/service/webget.pl,v 1.4
# Agent to get info from the web.
# Parameters: service_name [service_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_USER, $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 “ ls = $response\n” ;
#$response = ‘ls’;
#print STDERR “ls = $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;
```

TABLE 4-continued

```
#$response = './url/pl
"http://cgi.cnn.com/cgi-bin/weather/redirect?zip=60605" ';
exit;
sub read_ini {
        my ( $service ) = @_;
        my @ini= ( );
        # 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;
                        $x;
                }@ini;
                $dbh-> ct_sql ( "insert mcServices values (
'$service',
'@ini_escaped', $file_time )" );
                if ( $dbh-> {RC } =- CS_FAIL ) {
                        print STDERR "webget,pl: DB insert to
```

TABLE 4-continued

```
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/ \'/ \'\'/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 "webgetlpl: 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: 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' } );
```

TABLE 4-continued

```
        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 ) = &get_url_content (
${$ Param {URL
} } [ 0 ] ) ;
```

TABLE 4-continued

```
        # filter it
        map {
                if ( / \" ([^\"] + ) \" ([^\"]*) \" / or
/ \ / ( [^ \ / ] + ) \ / ( [ ^ \ / ] *) \ / / )
{
                        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 / ([^\ /]+) \ / ([^ \ / ] + ) \ / ( [ ^ \ / ] * ) \ / / ) {
                    my $out = $3;
                  $Content {$1 } =~ s/$2/$out/g;
                }
        _ }@{Param {"Pre-filer" } };

#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 }};
```

TABLE 4-continued

```
        #filter it
        map {
                if ( / ( [ ^ \"] +) \ " ( [^\"]+) \ " ( [ ^ \ " ] * ) \ " /
                      or / ( [^\ / ] + ) \ / ( [ ^ \ / + ) \ / ( [ ^ \ / ] * ) \ / / ) {
                       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 ] =~ /^\ [print \ ] /;
         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-
```

TABLE 4-continued

```
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 $url ) ;
        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
$’; -
        }
}

############################################################
```

[0044] 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
```

TABLE 5-continued

```
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+J C LOW (\S+) F (\S+) C ( .+) Current
Conditions (. +)
! local ! , (\S+) (\S+) (. t) 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 weather"t-/"thunder" -
Post-filter=_wind"N"North"
Post-filter=_wind"E"East "
Post-filter=_wind"S"South " --
Post-filter=_wind"W"West fl
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
Celsium.
Humidity is_humidity.
Wind from the _wind.
```

[0045] 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" "
Pre-filter="</TD>"td"
Pre-filter="<!.*?->""
Pre-filter="<br>"_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
```

TABLE 6-continued

```
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_Farenheit
_current_temperature_C Celcius.
Humidity is _humidity.
Winds _winddir.
```

[0046] 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.

[0047] 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.

[0048] 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.

[0049] 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.

[0050] 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 30 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.

[0051] 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=l) 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.

[0052] 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.

[0053] 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 lime". That is, web sites with faster response times will be 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.

[0054] 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 reranking 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.

[0055] 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.

[0056] 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 (EP) 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.

[0057] 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 discuss above in the first preferred embodiment. The device browsing servers 506 are also connected to a database 508.

[0058] 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.

[0059] 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.

[0060] 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.

[0061] 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. A specific example for using the system and method of this embodiment of the invention will now be given.

[0062] 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.

[0063] 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.

[0064] 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.

[0065] 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.

[0066] 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 system for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising:

at least one computing device, the computing device operatively coupled to a plurality of communication networks;

at least one media server including a speaker-independent-speech-recognition engine, the speaker-independent-speech-recognition engine operatively connected to the computing device and adapted to receive the naturally-spoken-speech commands and recognize phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user and to generate recognition-results data, the media server processing the recognition-results data to identify key words and using the key words to search the plurality of information sources;

memory operatively associated with the computing device with at least one instruction set for identifying the information to be retrieved from the plurality of sources, the instruction set being associated with the computing device, the instruction set further comprising:

an indication of the plurality of sources, each identified by an address, at least one of the plurality sources containing the information to be retrieved;

at least one recognition grammar associated with the computing device, each

recognition grammar corresponding to each instruction set and corresponding to a naturally-spoken-speech command, the naturally-spoken-speech command comprising an information request provided by the user, the speaker-independent-speech-recognition device adapted to receive the naturally-spoken-speech command from the particular user via the voice-enabled device and to select the corresponding recognition grammar upon receiving the naturally-spoken-speech command to convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access the one or more communication networks;

the computing device adapted to retrieve the instruction set corresponding to the recognition grammar provided by the speaker-independent-speech-recognition device and to access at least one of the plurality of information sources identified by the instruction set, in order to obtain at least a part of the information to be retrieved, the computing device further adapted to periodically search by the one or more communication networks to modify the plurality of information sources, the computing device adapted to access the plurality of information sources in a predetermined manner until the information to be retrieved is found;

at least one speech-synthesis device, the speech-synthesis device operatively connected to the computing device; the speech synthesis device configured to produce an audio message containing any resulting information retrieved from the plurality of information sources, and the speech synthesis device further configured to transmit the audio message to the users via the voice-enabled device.

2. The system of claim 1, wherein the plurality of communication networks include Internet.

3. The system of claim 1, wherein the plurality of communication networks include a local-area network.

4. The system of claim 1, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.

5. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.

6. The system of claim 1, wherein the speaker-independent-speech-recognition device is adapted to recognize the naturally-spoken-speech commands.

7. The system of claim 1, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre-defining a portion of the information source containing the information to be retrieved.

8. The system of claim 1, wherein the computing device is further configured to periodically poll each of the plurality of information sources without being instructed by the user to determine at least one or more of 1) the availability of each information source, 2) the duration of time for each information source to respond to a request from the computing

device, and changes to the location of the information to be retrieved from each information source, the computing device further configured to create the order of access to the plurality of information sources based on the periodic polling.

9. The system of claim 1, wherein the computing device is adapted to search each of the new information sources without being instructed by the user to determine the availability of each new information source, the duration of time for each new information source to respond to a request from the computer, and changes to the location of the information to be retrieved from each new information source, the computing device further adapted to create an order for access to the modified plurality of information sources based on the periodic searches.

10. The system of claim 1, wherein the instruction set further comprises a pre-defined order of access associated with each information source address, the pre-defined order of access indicating the order in which the plurality of information sources are accessed.

11. The system of claim 10, wherein the computing device is adapted to modify the pre-defined order for access to a particular information source, based upon at least one of a plurality of criteria, the plurality of criteria comprising: 1) the availability of each information source; 2) the duration of time for each information source to respond to a request from the computing device; and 3) changes to the location of the information to be retrieved from each information source.

12. The system of claim 11, wherein the computing device is adapted to consider the

criteria with respect to one another when modifications to the pre-defined order for access are based on more than one of the plurality of criteria.

13. The system of claim 12, wherein the computing device is adapted to access the plurality of information sources in the order pre-defined to retrieve the information requested by the user, the computing device further configured to access first the information source that is highest in the order pre-defined.

14. The system of claim 1, further comprising:

a database operatively connected to the computing device, the database adapted to store the information gathered from the information sources in response to the information requests.

15. The system of claim 14, wherein each recognition grammar and each instruction set are stored in the database.

16. A method for acquiring information from a plurality of sources in response to receiving naturally-spoken-speech commands provided by users via a voice-enabled device and for providing the information to the users in an audio form via the voice-enabled device, the system comprising:

providing at least one computing device, the computing device operatively coupled to a plurality of communication networks;

providing at least one media server including a speaker-independent-speech-

recognition engine, the speaker-independent-speech-recognition engine operatively connected to the computing device and receiving, by the media server, the naturally-spoken-speech commands and recognizing phenomes in the naturally-spoken-speech commands to understand spoken words by a particular user to generate recognition-results data, and processing, by the media server, the recognition-results data to identify key words and using the key words to search the plurality of information sources;

providing memory operatively associated with the computing device with at least one instruction set and identifying the information to be retrieved from the plurality of sources, the instruction set being associated with the computing device, the instruction set further comprising:

an indication of the plurality of sources, each identified by an address, at least one of the plurality sources containing the information to be retrieved;

at least one recognition grammar associated with the computing device, each recognition grammar corresponding to each instruction set and corresponding to a naturally-spoken-speech command, the naturally-spoken-speech command comprising an information request provided by the user, the speaker-independent-speech-recognition device adapted to receive the naturally-spoken-speech command from the particular user via the voice-enabled device and to select the corresponding recognition grammar upon receiving the naturally-spoken-speech command to convert the naturally-spoken-speech command into a data message for transmission to a network interface adapted to access the one or more communication networks;

by the computing device retrieving the instruction set corresponding to the recognition grammar provided by the speaker-independent-speech-recognition device

and accessing at least one of the plurality of information sources identified by the instruction set, in order to obtain at least a part of the information to be retrieved;

periodically searching by the computing device and the one or more communication networks, to modify the plurality of information sources;

using the computing device to access the plurality of information sources in a predetermined manner until the information to be retrieved is found; and

providing at least one speech-synthesis device and operatively connecting to the computing device, and by the speech synthesis device producing an audio message containing any resulting information retrieved from the plurality of information sources, and by the speech synthesis device transmitting the audio message to the users via the voice-enabled device.

17. The method of claim 16, wherein the plurality of communication networks include Internet.

18 The method of claim 16, wherein the plurality of communication networks include a local-area network.

19. The method of claim 16, wherein the voice-enabled device is at least one of a standard telephone, an IP telephone, a cellular phone, a PDA, a personal computer, a DVD player, a television or other video display device, a CD player, a MP3 player, and any other device capable of transmitting the audio message.

20. The method of claim 16, wherein the speaker-independent-speech-recognition device

is adapted to analyze the phonemes to recognize conversational naturally-spoken-speech commands.

21. The method of claim 16, wherein the speaker-independent-speech-recognition device is adapted to recognize the naturally-spoken-speech commands.

22. The method of claim 16, wherein the instruction set further comprises: a content descriptor associated with each information-source address, the content descriptor pre-defining a portion of the information source containing the information to be retrieved.

23. The method of claim 16, further comprising:

by the computing device, periodically polling each of the plurality of information sources without being instructed by the user to determine at least one or more of 1) the availability of each information source, 2) the duration of time for each information source to respond to a request from the computing device, and changes to the location of the information to be retrieved from each information source, the computing device further configured to create the order of access to the plurality of information sources based on the periodic polling.

24. The method of claim 16, wherein by the computing device searching each of the new information sources without being instructed by the user to determine the availability of each new information source, the duration of time for each new information source to respond to a request from the computer, and changes to the location of the information to be retrieved from each new information source, by the computing device further creating an order for access to the modified plurality of information sources based on the periodic searches.

25. The method of claim 16, wherein the instruction set further comprises a pre-defined order of access associated with each information source address, the pre-defined order of access indicating the order in which the plurality of information sources are accessed.

26. The method of claim 25, wherein by the computing device modifying the pre-defined order for access to a particular information source, based upon at least one of a plurality of criteria, the plurality of criteria comprising: 1) the availability of each information source; 2) the duration of time for each information source to respond to a request from the computing device; and 3) changes to the location of the information to be retrieved from each information source.

27. The method of claim 26, wherein by the computing device, considering the criteria with respect to one another when modifications to the pre-defined order for access are based on more than one of the plurality of criteria.

28. The method of claim 27, wherein by the computing device, accessing the plurality of information sources in the order pre-defined to retrieve the information requested by the user, the computing device further configured to access first the information source that is highest in the order pre-defined.

29. The method of claim 16, further comprising:

providing a database and operatively connected the database to the computing device and storing the information gathered from the information sources in response to the information

requests in the database.

30. The method of claim 29, wherein each recognition grammar and each instruction set are stored in the database.

ABSTRACT OF THE INVENTION

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.

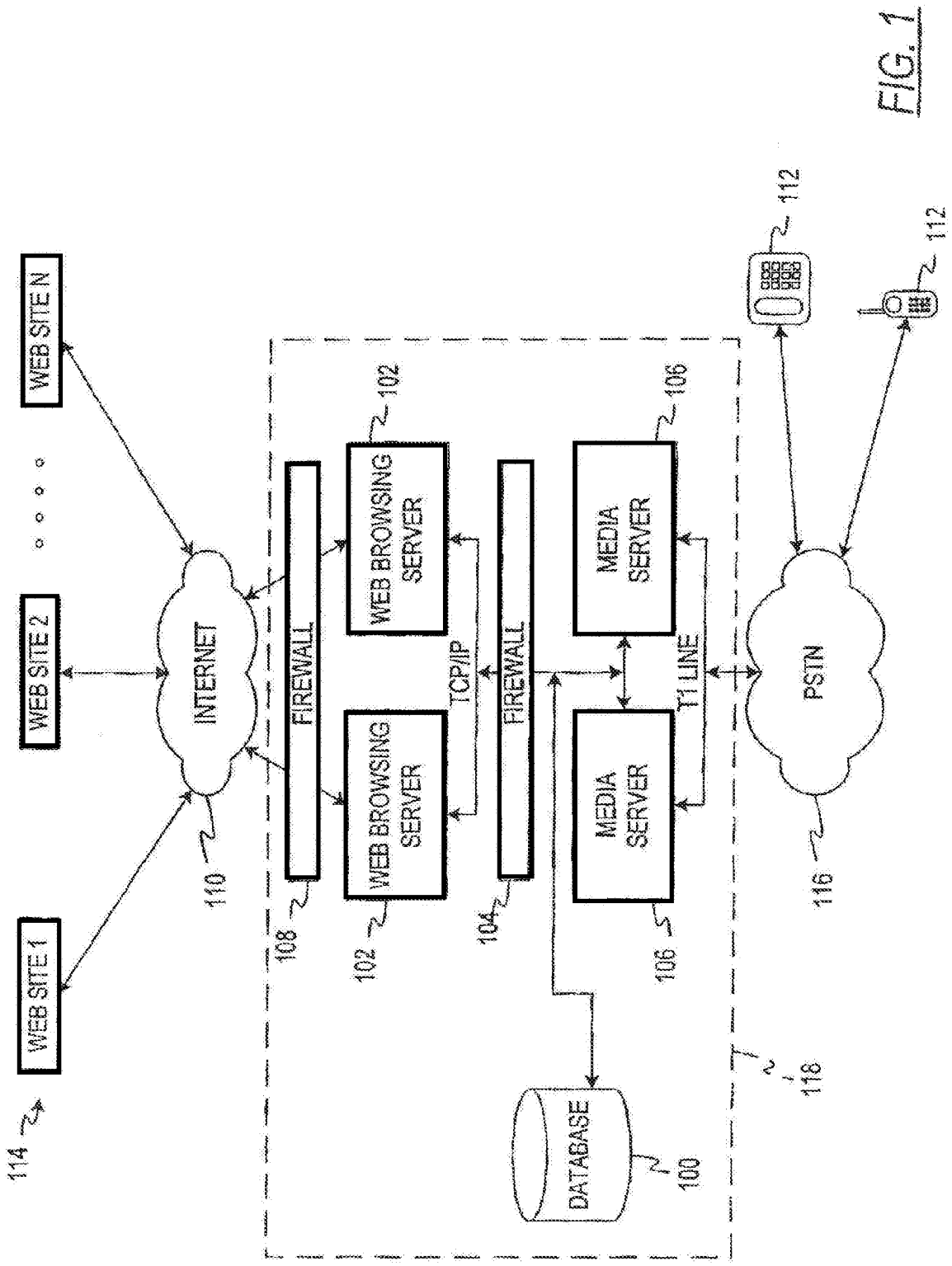
WEB SITE N
WEB SITE 2
WEB SITE 1
114
INTERNET
110
FIREWALL
108
WEB BROWSING SERVER
102
WEB BROWSING SERVER
102
TCP/IP
FIREWALL
104
MEDIA SERVER
106
MEDIA SERVER
106
T1 LINE
DATABASE
100
PSTN
116
112
112
118

FIG. 1

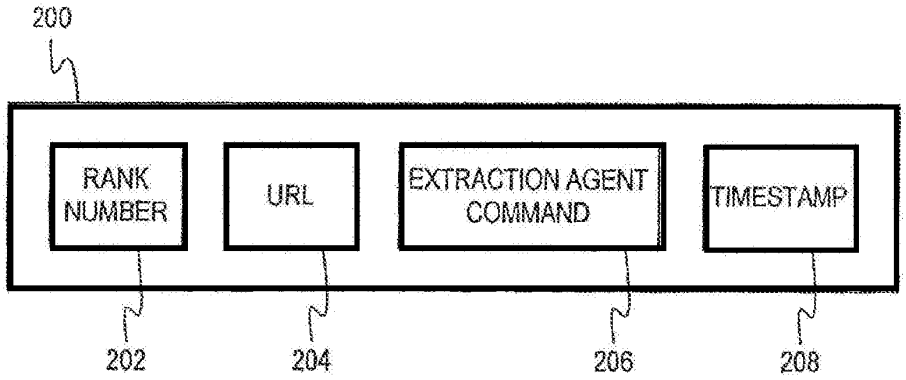
200
RANK NUMBER
URL
EXTRACTION AGENT COMMAND
TIMESTAMP
202
204
206
208

FIG. 2

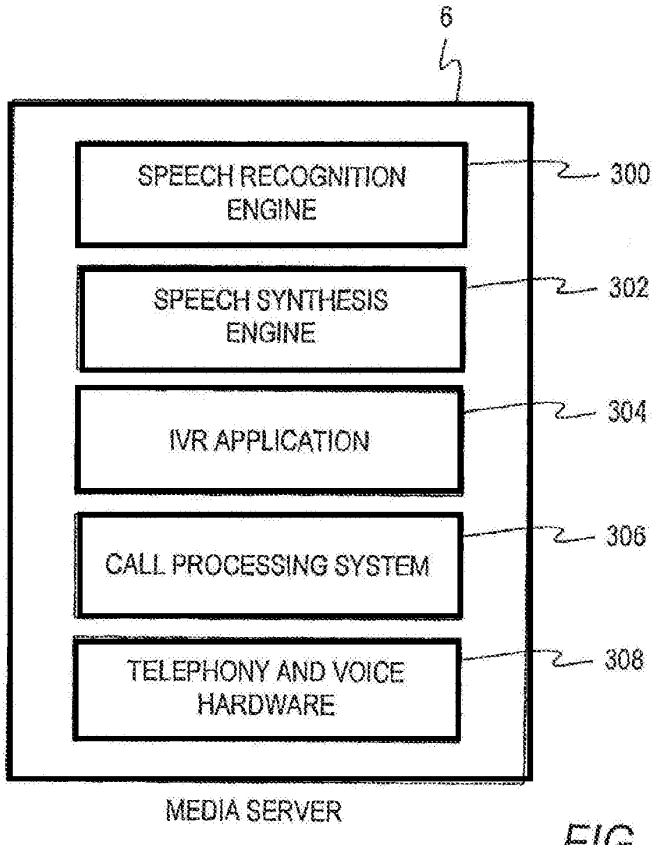
6
SPEECH RECOGNITION ENGINE
300
SPEECH SYNTHESIS ENGINE
302
IVR APPLICATION
304
CALL PROCESSING SYSTEM
306
TELEPHONY AND VOICE HARDWARE
308
MEDIA SERVER

FIG. 3

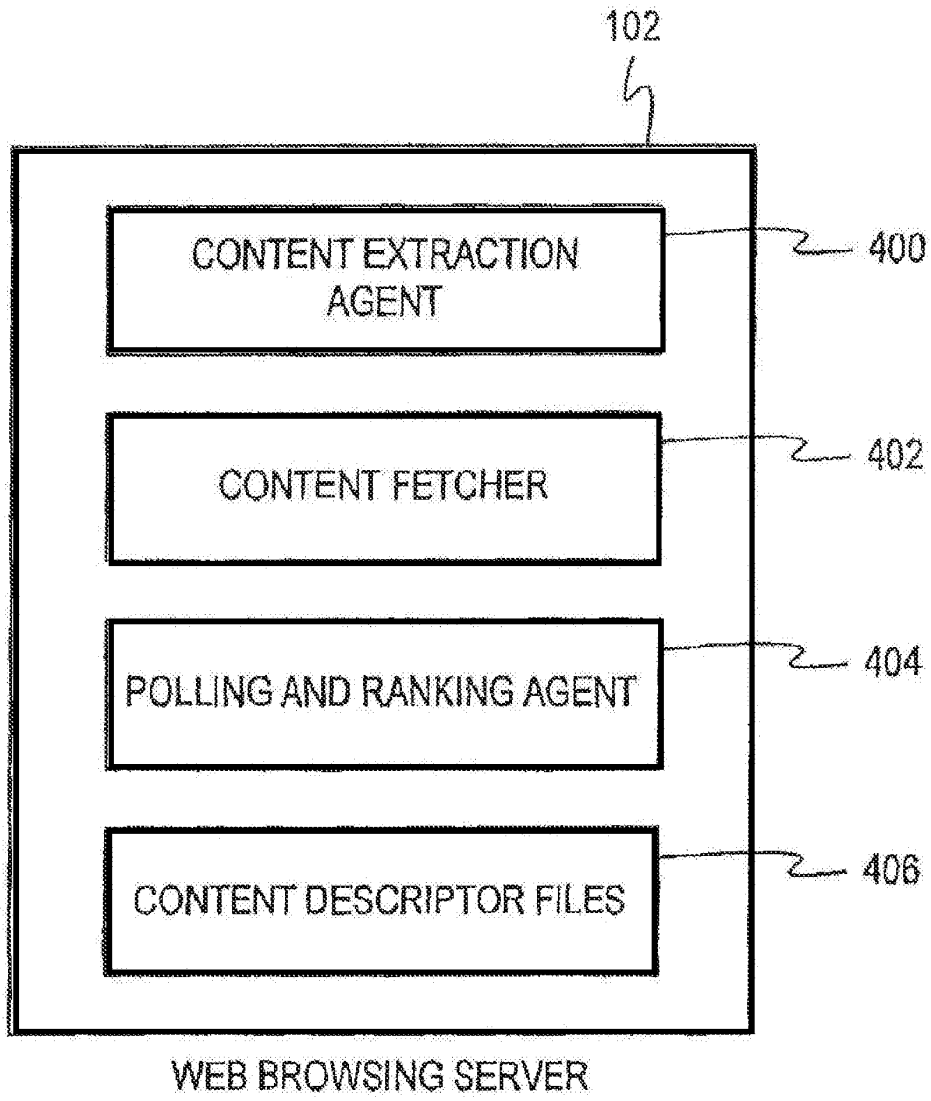
102
CONTENT EXTRACTION AGENT
400
CONTENT FETCHER
402
POLLING AND RANKING AGENT
404
CONTENT DESCRIPTOR FILES
406
WEB BROWSING SERVER

FIG. 4

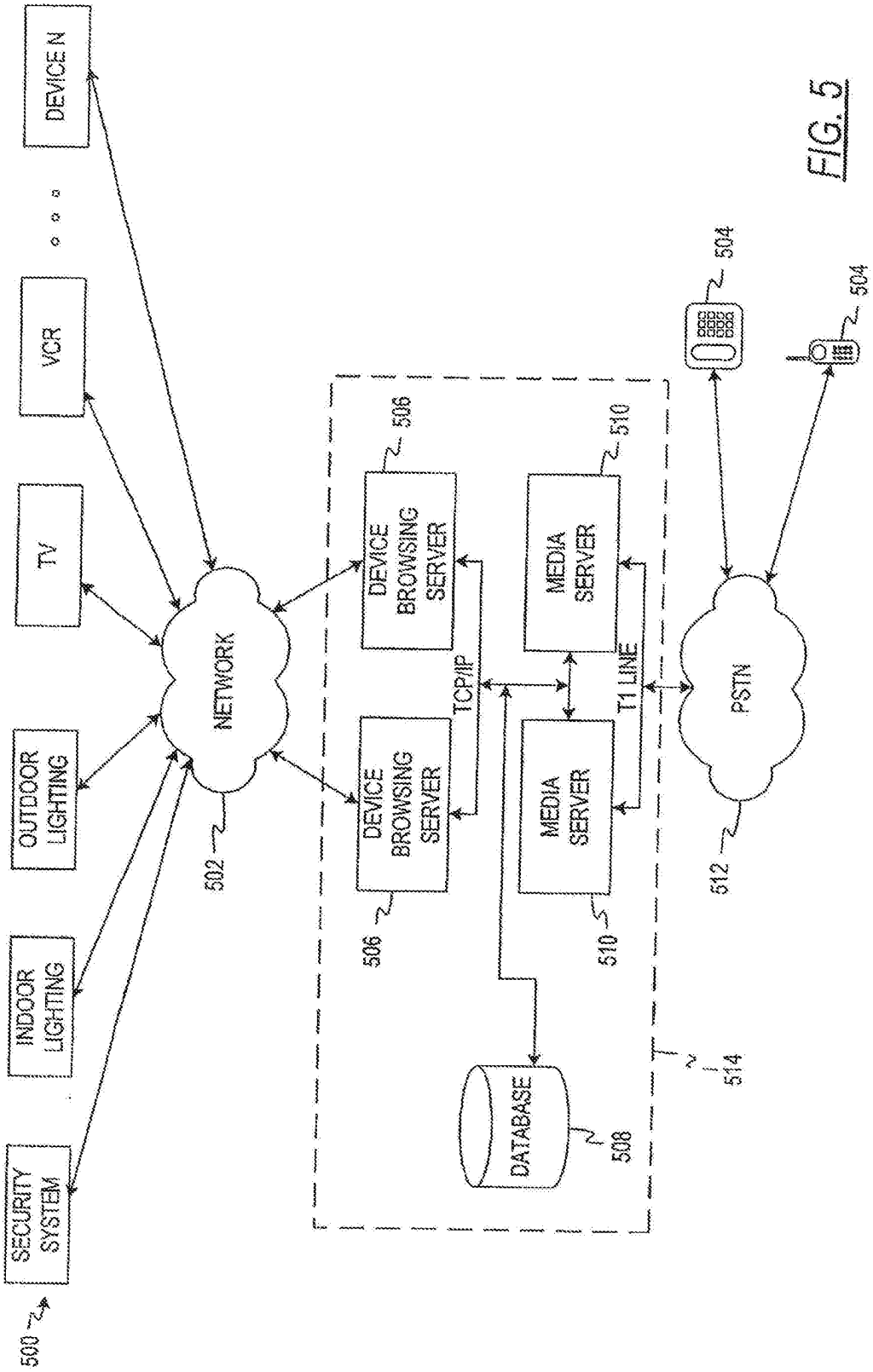
DEVICE N
VCR
TV
OUTDOOR LIGHTING
INDOOR LIGHTING
SECURITY SYSTEM
500
NETWORK
502
DEVICE BROWSING SERVER
506
DEVICE BROWSING SERVER
506
MEDIA SERVER
510
MEDIA SERVER
510
TCP/IP
T1 LINE
DATABASE
508
514
PSTN
612
504
504

FIG. 5

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	Robust Voice Browser System and Voice Activated Device Controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Filer:	Reena Kuyper/Esther Kim
Attorney Docket Number:	10115-05709 US

Filed as Small Entity

Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	70	70
UTILITY SEARCH FEE	2111	1	300	300
UTILITY EXAMINATION FEE	2311	1	360	360
REQUEST FOR PRIORITIZED EXAMINATION	2817	1	2000	2000
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	2202	10	40	400
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
PROCESSING FEE, EXCEPT PROV. APPLS.	2830	1	70	70
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**3200**

Electronic Acknowledgement Receipt	
EFS ID:	26971071
Application Number:	15269776
International Application Number:	
Confirmation Number:	2723
Title of Invention:	Robust Voice Browser System and Voice Activated Device Controller
First Named Inventor/Applicant Name:	Alexander Kurganov
Customer Number:	93219
Filer:	Reena Kuyper
Filer Authorized By:	
Attorney Docket Number:	10115-05709 US
Receipt Date:	19-SEP-2016
Filing Date:	
Time Stamp:	19:28:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$3200
RAM confirmation Number	6617
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	TrackOne Request	05709US_TrackOne.pdf	119115 2ba52232a97a9be73b72de64e734b06a35ccc5d2	no	2
Warnings:					
Information:					
2	Application Data Sheet	05709US_ADS1.pdf	1823533 e13bf4bb0c50263a89773b766a9a158f37cfcc72	no	8
Warnings:					
Information:					
3		05709US_Specification.pdf	257809 f3acbab4e3836e47492ae6357d1b4cf9cf636d0d	yes	47

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	36
Claims	37	46
Abstract	47	47

Warnings:					
Information:					
4	Drawings-only black and white line drawings	05709US_Drawings.pdf	2264154 301c743c873f1cfb5ac9c951160ca9ceec67407c	no	4
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	40818 5cb13bba8914acfb93306fae24d18e41cf2dc553	no	2

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

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

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