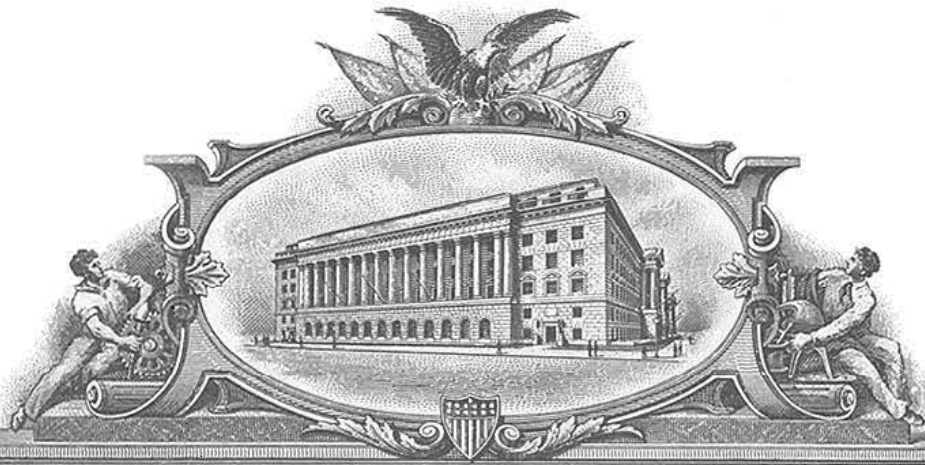


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September 16, 2024

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**APPLICATION NUMBER: 12/658,496
FILING DATE: February 08, 2010
PATENT NUMBER: 10499168
ISSUE DATE: December 03, 2019**



Certified by

Katherine Kelly Vidal

Performing the Functions and Duties of the
Under Secretary of Commerce
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert G. Klinefelter and
Gregory A. Piccionelli

Title: SYSTEM, METHOD, AND
APPARATUS FOR
PROVIDING INTERPRETIVE
COMMUNICATION ON A
NETWORK

Prior Appl. No.: 10/057,131

Prior Appl.
Filing Date: 10/25/2001

Examiner: Unknown

Art Unit: Unknown

CONTINUING PATENT APPLICATION
TRANSMITTAL LETTER

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

Sir:

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is a:

☐ Continuation ☒ Division ☐ Continuation-In-Part (CIP)

of the above-identified copending prior application in which no patenting, abandonment, or termination of proceedings has occurred. Priority to the above-identified prior application is hereby claimed under 35 U.S.C. § 120 for this continuing application. The entire disclosure of the above-identified prior application is considered as being part of the disclosure of the accompanying continuing application and is hereby incorporated by reference therein.

☒ Applicant claims small entity status under 37 CFR 1.27.

Enclosed are:

- ☒ Copy of parent description, Claim(s), and Abstract (46 pages).
- ☒ Formal drawings (3 sheets, Figures 1-6).
- ☒ Copy of parent Declaration (4 pages).
- ☐ Preliminary Amendment ()
- ☒ Application Data Sheet (37 CFR 1.76).

The filing fee is calculated below:

	Number Filed	Included in Basic Fee	Extra	Rate	Fee Totals
Basic Filing Fee				\$330.00 =	\$330.00
Search Fee				\$540.00	\$540.00
Examination Fee				\$220.00	\$220.00
Size Fee	—	- 100	= 0	x \$270.00	\$0.00
Total	—	- 20	= 0	x \$52.00 =	\$0.00
Claims:					
Independents	—	- 3	= 0	x \$220.00 =	\$0.00
:					
If any Multiple Dependent Claim(s) present:			+	\$390.00 =	\$0.00
Surcharge under 37 CFR 1.16(e) for late filing of Executed Declaration or late payment of filing fee			+	\$130.00 =	\$0.00
				SUBTOTAL: =	\$1090.00
☒ Small Entity Fees Apply (subtract ½ of above):				=	\$545.00
Basic Filing Fee Reduction for Filing via EFS-Web					\$0.00
				TOTAL FILING FEE: =	\$545.00
Assignment Recordation Fee:			+	\$40.00 =	\$0.00
Processing Fee under 37 CFR 1.17(i) for Late Filing of English Translation of Application:			+	\$130.00 =	\$0.00
TOTAL FEE				=	\$545.00

The above-identified fees of \$545.00 are being paid by the enclosed check no. _____.

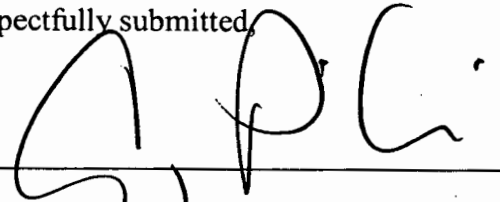
Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Date February 8, 2010

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Respectfully submitted,

By

A handwritten signature in black ink, appearing to read 'G. Piccionelli', written over a horizontal line.

Gregory A. Piccionelli
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert G. Klinefelter and Gregory A. Piccionelli

Title: SYSTEM, METHOD, AND APPARATUS FOR
PROVIDING INTERPRETIVE
COMMUNICATION ON A NETWORK

Prior Appl. No.: 10/057,131

Prior Appl.
Filing Date: 10/25/2001

Examiner: Unknown

Art Unit: Unknown

CERTIFICATE OF MAILINGCommissioner for Patents
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Commissioner:

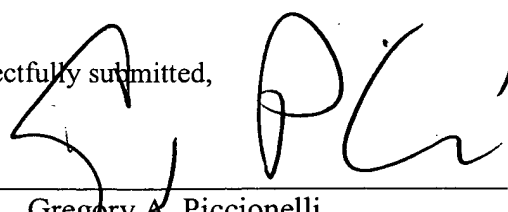
I hereby certify that the following paper(s) and/or fee along with any attachments referred to or identified as being attached or enclosed are being deposited with the United States Postal Service under 37 C.F.R. § 1.8(a) on the date of deposit shown below with sufficient postage and in an envelope addressed to the Commissioner for Patents, Mail Stop AF, P.O. Box 1450 Alexandria, VA 22313-1450.

1. Specification (46 sheets including description, claims and abstract)
2. Formal Drawings (3 sheets, including Figs. 1-6)
3. Data Sheet
4. Application Transmittal
5. Copy of Original Declaration
6. Check in the amount of \$545.00 for the Basic filing, Utility Search and Utility Examination fees
7. Return Postcard

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Respectfully submitted,

By



Gregory A. Piccionelli
Attorney and Applicant
Registration No. 39,534

Application Data Sheet**Application Information**

Application Type::	Regular
Subject Matter::	Utility
Suggested classification::	
Suggested Group Art Unit::	
CD-ROM or CD-R?::	None
Computer Readable Form (CRF)?::	No
Title::	SYSTEM, METHOD, AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK
Attorney Docket Number::	GT12
Request for Early Publication?::	No
Request for Non-Publication?::	No
Suggested Drawing Figure::	1
Total Drawing Sheets::	3
Small Entity?::	Yes
Petition included?::	No
Secrecy Order in Parent Appl.?::	No

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Country of Residence:: US

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City of mailing address::

**State or Province of mailing
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E-Mail address:**Domestic Priority Information**

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	Division of	10/057,131	10/25/01

Foreign Priority Information

Country::	Application number::	Filing Date::	Priority Claimed::

A System, Method, and Apparatus for Providing Interpretive Communication on a Network

Field of the Invention

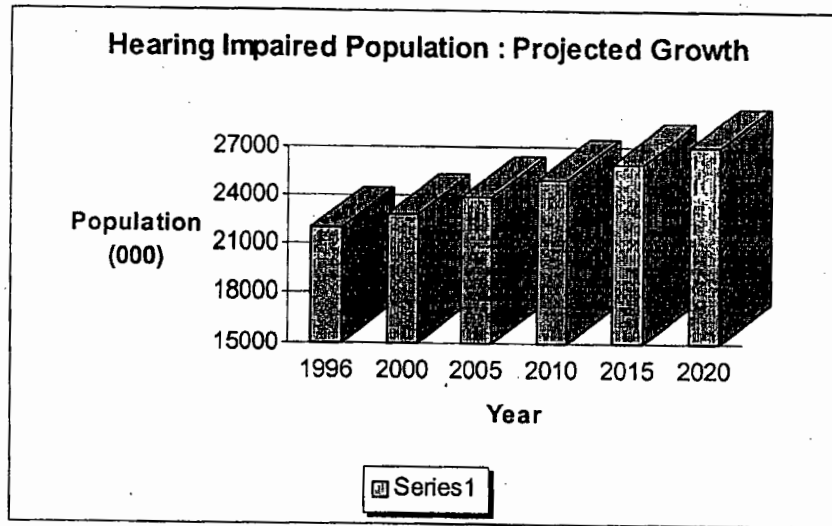
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The present invention relates generally to a system, method, and apparatus for providing
5 real-time or near real-time interpreting services for utilization on a network. More specifically,
embodiments of the invention relate to systems, methods, and apparatuses for facilitating
communication for the hearing impaired or disabled in situations that are location-specific and in
which the use of live interpreters is inconvenient or relatively neither cost nor time effective,
wherein a real-time or near real-time interpreting service is provided, via a network.

Background of the Invention

Currently 23,000,000 Americans are classified as having chronic hearing impairment.
Based on figures compiled by the National Center for Health Statistics, it is estimated that
7,600,000 physician contacts occur annually with hearing disabled patients in emergency room
situations. In addition, it is estimated that and additional 6,800,000 such contacts occur in
15 outpatient facilities. These numbers are forecast to grow over the next decade. The Americans
With Disabilities Act (ADA) requires healthcare facilities to make "reasonable accommodation"
for the hearing disabled. Legal precedent for the reasonable accommodation" standard has been
established in a number of suits. While live interpreters and transliterators meet this standard,
their use in potentially life threatening situations has major disadvantages in cost, time delay and
20 diversion of medical staff from other critical patients.

Communication is central to human interaction. Without communication between persons, the daily processes of our society and human interaction cannot take place, and the social processes of healthcare, commerce, public services, education, travel and religious observance could not function, as we know them. The efficiency and effectiveness of social institutions depend wholly on the degree to which essential information can be conveyed, processed by the recipient and responded to within an appropriate time frame. Those who cannot communicate in such contexts are frustrated, excluded and isolated to varying degrees from our society. The costs of such exclusion are significant in terms of unrealized potential; unrealized opportunities for commerce; legal liabilities including discrimination, product/public liability and compliance with the American With Disabilities Act; and, not least, risk to human life and health.

Figures compiled in 1996 by the U.S. National Center for Health Statistics figures indicate that 22,044,000 Americans are classified as having "Chronic Hearing Impairment." Utilizing U.S. Census population trend data it can be estimated that this number will grow to nearly 23,000,000 in the year 2000 and to nearly 27,000,000 in the year 2020 or close to 8% of the total population.



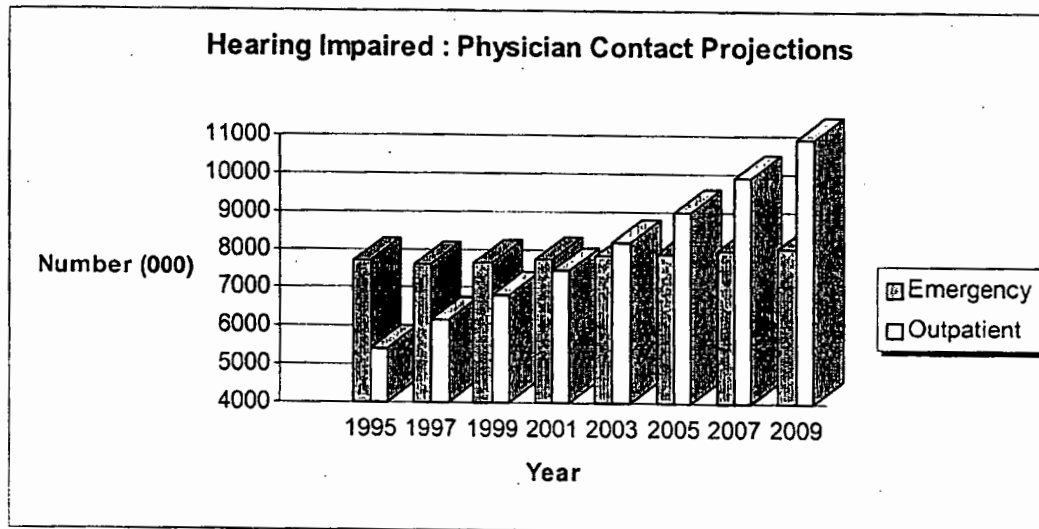
In light of these statistics, it is evident that a significant market need exists for services designed to facilitate communication for the hearing impaired and that this market will continue to grow over the next 20 years. Indeed it may be argued that the market will expand faster than the above prediction given the aural assault inflicted on us by modern city living.

Currently, the market need is served in a number of ways including assistive listening devices, closed captioning, telephone based services such as TTY and TDD, pictograms and sign language. Further, the needs of the deaf and hearing impaired are recognized within the provisions of the Americans With Disabilities Act ("ADA") which requires that services and institutions bound by the ADA make "reasonable accommodation" for those disabled by hearing impairment. The ADA interprets reasonable accommodation as being the provision of "auxiliary aids and services" including "qualified interpreters or other effective methods of making aurally delivered materials available to individuals with hearing impairments." In other words, institutions involved in healthcare, commerce, public services and education are bound to provide "auxiliary aids and services" for the 23,000,000 million Americans currently classified as having chronic hearing impairment.

In the healthcare market, notably for emergency room, paramedic and in-hospital situations, there is a clear and significant need to better serve the requirements of hearing impaired patients. Under busy emergency room and paramedic situations delays and confusion experienced in communication between medical staff and patients are obviously life threatening but also have a costly flow-on effect in demanding greater time input from medical staff at the expense of other incoming patients. While sign language interpreters and other "auxiliary aids" are employed in these situations, they are costly and can involve significant time delays while interpreters are located and travel to the facility or emergency location.

Statistics compiled by the U.S. National Center of Health Statistics indicate that in 1995 there were 67,232,000 physician contacts with deaf or hearing impaired patients at the outpatient level and 96,545,000 physician contacts with deaf or hearing impaired patients at emergency room level. Assuming a 1% growth rate in emergency room contacts (10% in outpatient contacts) every 2 years and a constant 8% of the population with chronic hearing impairment the following growth trend of emergency room and outpatient contact with hearing disabled patients can be extrapolated:

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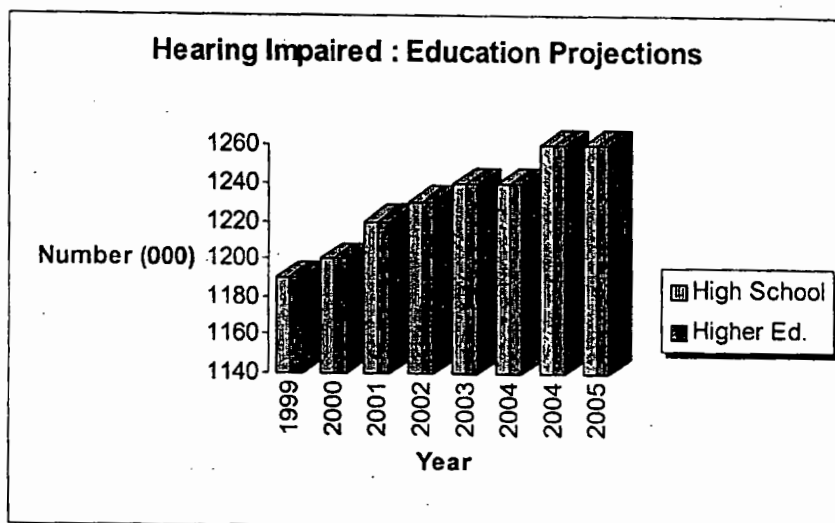
During the next 10 years emergency room contact with hearing disabled patients is estimated to rise gradually from 7,600,000 to 8,100,000 instances per year, and outpatient contact with hearing disabled persons will rise steadily from 6,800,000 to nearly 11,000,000. Each and every one of these instances represents a situation where communication is hampered and the institution involved is required to make "reasonable accommodation" for the needs of the hearing disabled individual. Several legal precedents have now been established in this area.

The California group Disabled Rights Advocates ("DRA") has sued Health Net, a statewide health maintenance organization regarding access to health care by deaf and hard-of-hearing participants. Health Net is a "preferred provider" organization; participants can only use selected physicians who contract with Health Net. Consumers with hearing disabilities, therefore, must choose from these selected doctors even if none of the physicians know American Sign Language. This case is expected to have a dramatic impact on the healthcare industry because HMOs generally do not have policies to ensure effective communication between hearing impaired patients and their doctors. A DRA attorney observed, "Barriers to communication make it impossible for persons who are deaf or hard of hearing to understand

medical terminology and procedures, difficult for such persons to participate in their own health care, and make visits for medical attention frightening and potentially life threatening." Similar cases, in which the U.S. Department of Justice was involved, resulted in substantial settlements by Middlesex Memorial Hospital, Connecticut and the Main Medical Center.

5 Equally, in the area of education a significant need exists for enhanced access by hearing disabled students. A number of lawsuits have already emerged based on the inability or unwillingness of educational institutions to meet the requirement of "reasonable accommodation." In a 1994 settlement resolving the first lawsuit filed by the Justice Department under the ADA, the Becker C.P.A. Review ("Becker"), an organization that prepares over 10,000 students annually to take the national certified public accountant exam, agreed to amend its auxiliary aids policy. If a need can be demonstrated, Becker has agreed to provide qualified sign language interpreters and assistive listening devices to students who are deaf or hard of hearing. Similarly, under a consent decree, the company that runs Bar/Bri, the nation's largest review course for students taking the bar exam, agreed to provide qualified sign language interpreters, assistive listening devices, and Brailled materials to students with disabilities. The Department of Justice had alleged that the course failed to provide appropriate auxiliary aids to students with vision and hearing impairments. Further, the company, Harcourt Brace, also agreed to pay \$28,000 in compensatory damages, pay \$25,000 in civil penalties to the United States, adopt a policy ensuring that auxiliary aids and services are provided, educate its staff about the needs of students with disabilities, and promote the availability of auxiliary aids and services in its advertising.

Using U.S. Census data it can be seen that the incidence of hearing disabled students in high school and in higher education is growing slowly but steadily and it can be expected to exceed 3,500,000 students by the year 2005.



Clearly the need for enhanced communication facilities for the hearing impaired extends across a wide spectrum of activities and institutions ranging from healthcare and education to the "Happiest Kingdom on Earth." The Department of Justice and Walt Disney World recently reached a comprehensive agreement resolving complaints that Disney had failed to provide auxiliary aids for effective communication for persons who are deaf or hard of hearing. Disney agreed to provide oral and sign language interpreters at numerous specified attractions, make captioning systems available, provide transcripts to persons who are deaf or hard of hearing, provide closed captioning on video monitors, and provide assistive listening systems and written transcripts.

In one attempt to provide a solution, a video conferencing service has been developed. The system, known as Video Interpreting Program, has been offered by a well-established Maryland company, *Sign Language Associates* ("SLA"), since 1997. The system requires the use of a 3M™ VCS3100 video conferencing system and 3 ISDN phone lines. According to SLA the Video Interpreting Program™ has been used in medical, legal and general employment environments. The service is billed by the minute. At least one problem with this service is cost and efficiency of labor. In this system, the interpreters must be in a specific location for set periods of time, specifically, at a provider site possessing the specialized videoconferencing equipment. This is cost and labor inefficient as, more likely, interpreters will not be needed and utilized consistently, but will be required to be available at the equipment location, thereby, restricting their ability to provide services elsewhere.

In addition, voice recognition software has been developed. The Technology Assessment program ("TAP") of Gallaudet University, Washington D.C. (an internationally recognized education facility for the hearing impaired) is examining automatic speech recognition ("ASR") software, telecommunication relay services, captioning and wireless/cellular services. The current assessment of TAP is that voice recognition is making dramatic progress and while currently useable, does not suffer from "accuracy level, the problem of multiple voices and lack of clear speech" in terms of providing fully automated or live captioning. They do, however, note the ASR capabilities of *Dragon Naturally Speaking* and *IBM Via Voice* software.

In addition, TAP is actively promoting "video chat" to the hearing impaired utilizing Microsoft NetMeeting in conjunction with the ATI All-In-Wonder VGA card. However, such "video chat" is designed for use among the hearing impaired and does not address the problems associated with providing an interpreter in one of the above-described situations. TAP makes no

reference to any commercial service seeking to use Internet video/audio as implemented by some of the various embodiments of the present invention.

Also, telephone utility companies and the cellular telecommunications industry provide an extensive service to facilitate communications by the hearing impaired, particularly through the use of TTY and TDD systems. To date, however, there has not been a cost effective system introduced to satisfy the need for remote visual exchanges between an interpreter, a non-hearing impaired person and a hearing disabled person. Moreover, to date, there is no indication that any service providers has moved to implement a video/audio system based on Internet connections as implemented by some of the various embodiments of the present invention

Live interpreters are an integral part of communication for the hearing impaired and there is extensive network of these skilled professionals both nationally and globally. The Registry of Interpreters for the Deaf, founded in 1964, provides a national organizational structure, professional association and certification process for these interpreters and transliterators. It also embraces international membership. Although live interpreting is advantageous, it fails to resolve the basic problems presented herein, namely, providing an interpreter in a timely and cost efficient manner for various situations, such as, those, which arise in medical emergency rooms and police stations. Live interpreting is, therefore, not seen as direct competition for the embodiments of the present invention. Various embodiments of the present invention may be utilized to fill a market gap – namely that of short-duration location-specific interpreting where both cost and time factors preclude the use of live interpreters.

For example, in a hospital, it may take two hours or more to locate and transport a translator or interpreter to the medical facility so that the person may provide interpretation and translation, to, for example, a hearing impaired patient or family member of a patient. Thus, the

so-called golden hour is lost, because it takes, in this example, over twice as long just to begin questioning the patient in preparation for treatment. In a more typical conventional situation, at least a part of the golden hour may have been lost in transporting a patient to the hospital in preparation for treatment. Thus, the wait for a translator or interpreter to help either the patient or a family member becomes more imperative that it occurs quickly. For example, if only 10 minutes of the golden hour is left that only allows for 10 minutes to track down and transporting the translator or interpreter or any other needed third parties to the hospital emergency room. This is often proven difficult if not impossible to accomplish in this time frame.

In another scenario, as discussed above, a live interpreter might be located and provided via a teleconference system that may be set up, for example at an office specialty service provider, e.g., a Kinkos®. Unfortunately, having the interpreter being viewed at the local office specialty store rather than at the hospital really provides little, if any, ability to treat the patient or consult family members in an effective manner. Further, most hospitals do not have a significant telecommunications equipment for providing video conferencing at their facilities. However, for the hospitals that do have this equipment it is often located far away from the emergency room area and is considerably bulky and difficult, if not relatively impossible, to move from room to room. Thus, this solution of utilizing a hospital's teleconferencing equipment is also considered a failure to solve the above mentioned problems, such as medical facility interpretation, as the videoconference presentation of the interpreter is not in a useful location relative to the emergency room for the patient or the family that may be able to advise medical personnel in the treatment of the patient.

In addition, to the inconvenience of the location of the necessary teleconferencing equipment, the cost is relatively high for the utilization of the equipment even if it is attempted

to be used. For example, teleconferencing equipment typically requires 3 ISDN lines to be able to receive an image on the teleconferencing equipment that provides the resolution and frame speed requisite to enable parties to the conference to be able to understand what an interpreter or translator is "saying." This is because the translator/interpreter is utilizing sign language that requires a visual perception of the translator on the teleconferencing equipment display. When the display and/or the speed in real-time appearance of the display is not adequate to see distinct precise and specific movements of the interpreter or translator, then the communication is degraded and often becomes a complete failure in any attempt to communicate with the receiver of the display of the telecommunications equipment. The receiver may, for example, be the patient or a family member of the patient in the hospital.

A need in the industry exists for a system, method and apparatus that provides an ability to locate and utilize an interpreter and/or translator quickly, for example, in real-time or in relatively near time, without having to maintain or provide a translator or interpreter to be constantly attending and personally present at a specific location of the user of the interpretation or translation services or efforts. Further, a need also exists for a system, method and apparatus that provides for utilization of these interpretive and/or translatable providers via a network, for example the World Wide Web. Still further, a need also exists for a system, method and apparatus that provides for a multi-lingual interpretive or translatable option that is available anywhere in the world in real-time or near real-time.

Finally, a need exists for a system, method and apparatus for utilizing an interpretive and/or translatable ability anywhere in the world by at least one of a user, recipient, and/or at least one third party that may also utilize a network, such as the World Wide Web, if desired in a relatively real-time or in near real-time utilization.

Summary of the Disclosure

Embodiments of the present invention are best understood by examining the detailed description with reference to the drawings. However, a brief summary of the disclosure follows.

Embodiments of the present invention comprises a system, method, and apparatus that provides for the utilization of a relatively real-time or near real-time interpretation or translation that may be utilized preferably for a relatively short duration of time, that is also preferably utilized with a network. A preferred embodiment of the present invention provides online, real-time, short-duration interpreting services in a network-based format. The service focuses directly on facilitating communication for the hearing disabled in situations which are highly location-specific and in which the use of live interpreters is neither cost nor time-effective or is otherwise inconvenient.

The interpreting system comprises at least one provider computer, such as a server. The provider computer is capable of communicating with user computers via a network. In one preferred embodiment, the provider computer provides a series of web pages that allow access to the interpreting system, including, but not limited to, a request for service page, wherein a user can access the system and input a request for interpreting services.

In preferred embodiments, the user, such as, a hospital, accesses the interpreting system via a user computer, wherein the user computer is connected to a network. As discussed above, the interpreting system is accessed via a provider computer, wherein the user computer and the provider computer communicate via the network.

Once the user accesses the interpreting system, the user provides information directed to the interpreting needs. This information includes, but is not limited to, time restrictions (when

the service is needed), subject matter of interpretation, anticipated length of service, age of hearing impaired person, and contact information.

Upon receipt of the request for services, the interpreting service sends out a request to all available interpreters. Any available and qualified interpreter that is qualified for the type of interpretation required, accesses the interpreting system and identifies himself or herself as available. An interpreter is then chosen. The chosen interpreter contacts the user via the network and performs the required services.

In a preferred embodiment of the present invention, the user, such as a hearing impaired person or third party, does not pay the interpreter directly, but rather, pays, for example, a monthly fee. In some preferred embodiments, the user pay a monthly fee for either a limited or unlimited amount of access and use of the interpreting system. Further, an entity, for example, a hospital may pay a monthly fee for the right to utilize the interpreting system in treatment of its patients and communication with others that may assist the hospital in treatment of its patients.

In addition to monthly fees, in alternative embodiments, the user can pay based upon a variety of factors, including, but not limited to, a per session fee, a per translation fee, a fee based on the number of words or data translated per use, the type of interpretation provided, the quality and/or certification of the interpreter, the relative cost of the linking of various parties and interpreters to the network, the availability and time of day, and whether a preference was indicated by the user for a particular translator or qualification of translator, and the physical location of the interpreter or other parties to the session. Alternatively, the user may also pay based upon the cost of the transmission links, or a percentage of the cost of either a portion or all of the translation and/or interpretation direct or indirect costs. Also, the fee may be based upon a licensing or other type of intellectual property payment scheme such as a per translation or per

5

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Detailed Description of the Preferred Embodiments

An embodiment of the present invention is illustrated utilizing functional flow charts as illustrated in Figures 1. The present invention may be implemented on any computer that has access to a network, e.g., the World Wide Web, as well as hand-held devices such as personal communication devices, including, but not limited to portable telephones, personal appointment managers, a Palm Pilot, and other Internet access devices such as Web TV. A network access itself may be achieved by radio frequency link, telephone modem, cable modem, high-speed DSL, wireless connection or any other network communication technique conventionally available.

As the World Wide Web access is improved, such that the speeds between the user and the World Wide Web are increased so that the user may download and upload data more quickly, the user may continue to enjoy an ever-increasing benefit from the utilization of various embodiments of the present invention, as compared to conventional techniques.

Preferred embodiments of the present invention are directed to a system, method, and apparatus for providing relatively real-time or near real-time interpretation, wherein the need for interpretation is a relatively short amount of time. In preferred embodiments, the interpretive system is provided via a network. For example, in one embodiment, communication may be facilitated for the hearing disabled in situations that are highly location specific, such as, a hospital, police station, car rental counter, or retail store in which the utilization of live interpreters is neither cost nor time-effective.

In preferred embodiments, the interpreting system comprises at least one provider computer, such as a server. The provider computer is capable of communicating with user

computers via a network. In one preferred embodiment, the provider computer provides one or a series of web pages that allows access to the interpreting system, including, but not limited to, a request for service page, wherein a user can access the system and input a request for interpreting services.

5 The provider computer is accessible to a plurality of interpreters via individual computers capable of communicating with a network, or any other means of accessing the network, such as a palm pilot, upon which interpreting services may be displayed in real time or near real time. A subset of the plurality of interpreters make themselves available via the network, or any other communications means, such as, a telephone, pursuant to a predefined schedule. In preferred embodiments, an interpreter is available throughout the network, regardless of user geographical location, 24 hours a day, 7 days a week. In preferred embodiments, an interpreter may become available to the system not pursuant to a predefined schedule, but at the time or times the interpreter desires to make his or her services available via the network.

10 In preferred embodiments, the user, such as, a physician or aide in a hospital, accesses the interpreting system via a user computer, wherein the user computer is connected to a network. As discussed above, the interpreting system is accessed via a provider computer, wherein the user computer and the provider computer communicate via the network.

15 Once the user accesses the interpreting system, the user accesses the interpreting service's request web page, customer service or scheduling department, or other appropriate live or digital representative of the interpreting service and provides information directed to the interpreting needs required. In some preferred embodiments, the user may request the first available interpreter. In other preferred embodiments, the user may provide a plurality of other specific requests and other data to assist in matching the user's interpretation requirements. This

information includes, but is not limited to, time restrictions for the providing of the service (when the service is needed), acceptable price or price range of interpreter, the requirement of acceptance of the user's insurance to cover all or part of the services to be provided, subject matter specialty of interpretation (legal, medical, diplomatic and/or technical areas), legal or organizational certification of interpreter, one or more specific foreign languages required for interpretation, anticipated length of service required, preferred gender of interpreter, age of hearing impaired person (e.g., if a child communication specialist is required), parental consent (if hearing impaired person is a minor) geographic proximity of the interpreter to the user, previous evaluations, ratings or recommendations of the interpreter, previous use of the interpreter by the user, request for a particular interpreter, request to include advertising, request to exclude advertising, and other criteria, and user contact and payment information, including promotional participation data. In some preferred embodiments, the user fills in a series of data boxes online to transmit the aforementioned data. In still other preferred embodiments, the user is provided with a pull-down menu that allows for users to choose from a variety of predefined menu options, wherein the options define the type of service request desired. Once the user has filled in the request page, or otherwise provided information regarding the type of service requested, the user submits and transmits the information to the provider computer, representative person, department or digital agent. In some preferred embodiments, the aforementioned request is performed telephonically. In still other preferred embodiments the aforementioned request is performed via audiovideophonic communication. In still other preferred embodiments the aforementioned request is directed to providing an interpreter which may be geographically proximate to the user so as to enable the interpreter to effectively translocate to the place where interpretation services are needed for further or extended on site

interpretation services. In still further preferred embodiments, the request is directed to an interpreter capable of providing interpreting services en route to the location of the user as by mobile wireless connection to a network.

Upon receipt of the request for services, the interpreting service matches the criteria for the interpreter requested and effectuates an audiovideographic connection between the interpreter and the user. In preferred embodiments, the interpreting service transmits a request to all available interpreters. Any available and qualified interpreter, that is, qualified for the type of interpretation required, accesses the interpreting system if not on-line, and identifies themselves as available. An interpreter is then chosen. The chosen interpreter contacts the user via the network and performs the required services. In other preferred embodiments, the interpreting service effectuates a connection between an "on call" or predesignated interpreter and the user requesting the services.

The above-described system is capable of being used in virtually any type of institution, retail establishment, organization or individual home. Indeed, in some instances, some of the hardware already exists. For instance, healthcare institutions already possess good computer facilities located in service transaction areas such as emergency rooms and outpatient clinics. Thus, unlike existing video conferencing services, no new equipment is required for at least some of the embodiments of the present invention. Moreover, healthcare facilities are already familiar with the use of Web-based technology to enable remote consultations such as radiology. Thus, no substantial behavior modification is required of the customer.

A preferred embodiment may be utilized on similar public sector and commercial institutions that meet similar market criteria: the requirement to meet the ADA "reasonable accommodation" standard, have existing computer facilities located in or adjacent to public

interface or service areas. This may, e.g., include Police and Paramedic agencies, Social Security, Immigration, Police, Courts, and Department of Motor Vehicles as well as commercial applications such as airports, rental car companies, amusement parks, banks and department stores. Similarly, the educational market offers downstream potential with continued
5 development of automatic voice recognition captioning for longer duration simultaneous translation.

Yet another embodiment may be utilized for individual home subscribers. This would permit hearing disabled individuals to facilitate communication with family, friends and other contacts thereby enhancing their quality of life. In addition, it would enable these subscribers to undertake regular calls and daily contacts with emergency services, doctors, utility companies, etc.

In some preferred embodiments of the invention, third party vendors of goods and services utilize the interpretation services to provide sign language advertisements, introductions, information and education regarding their goods and services to the
15 aforementioned subscribers. In still further embodiments, fourth party agents and affiliates may use the interpreting system to perform such advertising, introduction, information and education services in exchange for consideration, including, a fee for any goods or services purchased by the user.

Yet another embodiment may be utilized, that incorporates global application for its
20 hearing impaired interpreting concept with flow-on implementation to offer multilingual, foreign language interpreting for its core customer base.

The online, real-time interpreting service developed in various exemplary embodiments for the hearing disabled directly targets this market by taking advantage of a clearly identified

need, an established legislative imperative in the form of the Americans With Disabilities Act and the emerging technology which now allows networked real-time imaging via the Internet. As outlined in the following section, preferred embodiments that may provide healthcare and education sectors with rapid expansion envisaged into those areas of commerce which involve substantial person-to-person interface such as amusement parks; airports – including information booths, ticket counters, customs and immigration facilities; rental car companies; and major shopping malls. It is noted that the existing Internal Revenue Code (Title 26, Section 190) allows tax deductions of up to \$15,000 annually for the removal of barriers to people with disabilities.

Hearing impairment is not a disability peculiar to the United States and hence the opportunity exists to establish yet other arrangements of the present invention on a global basis through a multinational network of qualified interpreters linked by the Internet or other wide area computer networks. Preferred embodiments of the present invention are capable of operating on a global basis through a multinational network of qualified interpreters linked by one or more common networks. In some preferred embodiments, the interpreting system provides real-time simultaneous language translation in a location-specific manner worldwide. The service for hearing impaired is in itself a significant, however, the possibility of simultaneous language translation via the Internet or other wide area networks, can provide the facilitation of communication in a wide array of services and situations.

In the travel industry this “point-of-sale” service may be utilized by airlines, rental car operations, hotels, cruise operators and the like. It has direct application for point-of-entry interpreting for immigration desks, customs officials and transport operators. In the education sector it suggests the possibility of online education beamed globally yet available simultaneously in a number of different language translations. In business it has future potential

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for allowing global executives to utilize their own, trusted sources for interpreting and avoids the necessity to rely on host country interpreters who may be unfamiliar with the technical terms being used, unfamiliar with the business or negotiating style of the executive and who may pose a significant industrial espionage threat.

5 Preferred embodiments of the present invention may be implemented in a rapid, albeit preferably sequenced, expansion into this area based on the establishment of a global exchange linking established interpreting and translation services world wide in a real-time online network.

Preferred embodiments provide an online real-time short duration location specific interpreting service geared initially to the needs of the hearing disabled in the United States but with subsequent second stage expansion to enable coverage of key global markets. It is envisaged that the third stage of expansion would move beyond the hearing impaired to embrace real-time simultaneous language translation in a multilingual and multinational-networked format. The service will be capable of operating on both a point-to-point and a multi-conferencing basis as necessary. The integrated use of voice recognition is planned for ongoing development and implementation of the service.

At present, the hearing needs of the hearing disabled are catered for by the use of such instruments as assistive hearing devices, paging devices, telephonic devices including TTY and TDD, pictograms and both sign language and oral interpreters. All these instruments ameliorate the barriers faced by the hearing disabled. Moreover, all these instruments are classified under the Americans With Disabilities Act as "auxiliary aids and devices" recognized as meeting the "reasonable accommodation" prescription of the Act. However, in certain key circumstances these "aids and devices" have significant drawbacks. For example, the provision of qualified

sign language or oral interpreters must often be arranged up to two weeks in advance and in emergency or life threatening situations there can be both unacceptable delay and excessive cost in obtaining interpreters.

In one preferred embodiment, the present invention provides for the introduction of an online exchange linking a network of qualified sign language interpreters, oral interpreters, simultaneous transcribers and, where appropriate, voice or motion recognition captioning. The exchange would utilize current Internet and wide area computer network technologies allowing live audio and video feeds.

Arrangements of the present invention may also be utilized or, e.g., integrated with, e.g., Real Networks, CUSeeMe, Net Meeting and other software solutions that facilitate worldwide video and audio communication and data collaboration across the Internet. In addition, the potential use of the emerging Bluetooth chip technology would allow remote wireless communication in local networks, for example within emergency rooms and hospital wards, thus allowing mobility on the part of the user such as required by an emergency room physician in an examination room. These are situations where short-term interpreting is required (short-term generally being of periods less than approximately 30 minutes but may be even less, e.g., 25, 20, 15, 10, 5, or even less than 1-5 minutes in a location-specific or transaction-specific environment and for which the use of a physically present interpreter is neither cost nor time effective.

In reference to a preferred embodiment in Figure 2, the network could operate as follows in, for example, the case of an emergency room physician treating a hearing disabled patient:

- Utilizing a PDA, laptop, Internet-capable cellular phone, or similar handheld device, capable of receiving, displaying and broadcasting the remote sign language or foreign language interpreter's signing and vocal communications, such as by flat screen monitor

and speaker, and capturing and transmitting the hearing impaired person's signing, and the physician's voice, such as by camera and microphone devices, the physician would log on to the network via the hospital internet service connection;

- The present invention's menu would provide a choice of icons for interpreting services, e.g., labeled in both script and pictogram;
- The physician user would choose the type of service, price, interpreter qualifications, time to commence the services, and any other user selectable request criteria;
- A user, e.g., a physician would click to the required icon for connection;
- Service would search the network and connect to the first available interpreter;
- Audio and video connection would be established and interpretation would then begin utilizing voice communication between the physician and the interpreter and sign language between the sign language speaking hearing impaired patient;
- As necessary, required or requested, communications by one or more of the parties can be made available in scrolled text on the screen generated by real time stenographic or voice recognition means.
- The interpreting transaction would be recorded in file format for playback as necessary for checking accuracy or in the event of liability or dispute.

In some preferred embodiments, the user of the service is a subscriber to the service

wherein access to the service is password protected. In some preferred embodiments, the user pays a monthly service fee to have access to interpreters and, pays a fee to the interpreting service for actual use of the interpreter on a fee for time basis.

In some preferred embodiments, the user pays for the services on an "as needed" basis wherein access to the service is preceded by the presentation, authorization and acceptance of a credit card, debit card, digitally signed contract or other payment means.

In some preferred embodiments, the interpreter(s) is (are) directly paid for all or some of sums due to the interpreter(s) by the aforementioned "as needed" payment is made by the user.

The exchange would link participating sign language or oral interpreters regardless of the interpreter's physical location. In preferred embodiments, interpreters would be available on a twenty-four hour basis for all users, wherever located, despite the potential time zone differentials that may arise.

In some preferred embodiments, participating interpreters would be required to meet specified participation criteria, such as certification from the appropriate U.S. certifying body or bodies (e.g. Registry for Interpreters for the Deaf). Membership of the exchange would be subject to a controlled application process and would entail, e.g., an annual membership fee. In addition, participating interpreters must have access to computer equipment meeting predefined specifications or be required to lease such equipment from the provider or utilizer. Each participating interpreter would be required to carry a specified level of public liability insurance over and above that carried by provider or utilizer.

In preferred embodiments of the invention, look-up and verification of a selected interpreter's insurance status (e.g., to determine if the required policy is valid and in force) by access to an appropriate insurance data base or by other means, may precede the connection of the user with the interpreter, and if the results of such look-up reveals that the interpreter is uninsured, underinsured or that there is some other liability concern, the interpreter could be then

made unavailable for to provide the requested services.

A provider or utilizer portal may be located with an existing major service provider, who will be offered exclusive rights to host the service for a fixed contract period. This provider will be given first right of refusal for the subsequent envisaged expansion of the provider or utilizer platform, i.e. the second stage development into providing hearing impaired coverage for selected global markets followed by a third stage expansion into providing simultaneous translation on a multilingual and multinational basis.

Targeted institutions will be offered a service subscriber package entailing an annual subscription rate covering a guaranteed amount of time on the service per month. In the manner of telephone calling cards subscribers will be able to "top up" their monthly subscriber time allocation should they appear close to exceeding their normal subscription rate. Member institutions will be designated as "The Provider or Utilizer Service Members" and their contact details circulated in directory form to the hearing disabled across the United States. Signs bearing the provider or utilizer logo will be supplied to member institutions for display in public areas thus promoting the institution's use of the provider or utilizer Service. In addition health insurers will be encouraged to provide priority coverage for insured health impaired patients to seek treatment at "Provider or Utilizer Service Member" institutions and clinics.

The provider or utilizer may also enable, because of the above, create a large secondary market for hearing disabled individuals to seek personal subscriptions to The Provider or Utilizer Service. Such individuals would be able to log into the service from a home or office computer and utilize the video service to communicate freely with friends, relatives and business associates. In addition, personal subscribers can use the interpreting service to facilitate the regular telephone calls and daily contacts that the hearing enabled take for granted. This would

include emergency calls, calls to healthcare professionals to seek appointments or prescription refills, calls to government agencies such as IRS and Social Security, calls to utility companies and calls to taxi services, airlines and the like. Again personal subscribers would purchase a monthly access package with the capability to "top up" on a month-to-month basis should their circumstances so demand. The ability for hearing impaired individuals to have access to such a service not only offers considerable potential to improve their quality of life but also offers a vehicle for increased independence and personal confidence.

As previously described, the substantial number of Americans classified as having chronic hearing impairment, an estimated 23,000,000 in the year 2000. This represents a substantive market for a wide range of goods and services that can be exclusively promoted to this target audience via the personal subscription to the Provider or Utilizer Service. Access to this market (a market that is in large part unreachable by existing vehicles such as telemarketing, radio and television that rely on audio delivery) via the use of the Provider or Utilizer Service enables third party vendors to use preferred embodiments of the instant invention to provide a useful promotional vehicle for a large number of goods and services.

In turn, the establishment of a core membership of subscriber healthcare institutions then provides the platform for expansion of the service to other institutional target sectors who – like the healthcare industry – are subject to the "reasonable accommodation" standard of the Americans with Disabilities Act, have high levels of public interface and who have existing computer facilities (preferably with broadband access) already located in or adjacent to public interface areas such as service desks. Such targets will include government agencies such as Social Security offices, Immigration & Naturalization Service, Public Housing agencies, Courts, Police Departments, Department of Motor Vehicles and Inland Revenue Service. Flow-on target

subscribers that meet the above criteria would then include more commercial applications such as airport information desks, airline lounges, rental car companies, hotels, amusement parks, supermarkets, drug stores and department stores. Again, all these target sectors have a requirement for short duration interpreting of customer interactions taking place at the point of service transaction. These are all situations where, in the absence of a services such as the Provider or U preferably offers, there is considerable potential for confusion, frustration, discrimination and the inevitable deterioration of customer service. In addition, with a potential target audience amounting to some 8% of the American population there is a clear commercial incentive for such private sector outlets to become subscribers and to be aggressively promoted to the hearing disabled as offering this service – particularly in view of the tax credits which apply (see Appendix 1).

Similarly, the educational market is seen as a substantial market opportunity, particularly in association with online education providers or in classrooms offering a standardized, repeatable lesson format, e.g., technical training where the need is not for short duration, time sensitive interpretation but can be delivered in a prepackaged, repeatable format thus offsetting the current cost of delivering real-time interpreting. Real-time interpreting of, for example, a 3 to 4 hour graduate class would be prohibitively expensive for most educational facilities. However, educational facilities increasingly have high levels of computer technology installed or available for in-class access by students. Also, the provider or utilizer may also incorporate or utilize voice recognition, so that it will be able to offer in the short-term a future a cost-effective closed captioning service via the Internet or wireless device that would enable hearing impaired students to effectively and unobtrusively participate in the class utilizing a voice recognition caption stream on the student's laptop device.

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In a business method arrangement of various embodiments of the above-described invention, a subscription may be utilized. Thus, a fee may be paid, for example, at a regularly set time, for example, every month in order to be provided with and/or utilized and/or obtain translation and/or interpretation up to a certain time limit or may even be unlimited depending upon the subscription price. This would particularly be beneficial too, for example, police departments, hospitals and the like and other community service organizations because this would provide for essentially a fixed fee amount that can be more readily budgeted by these organizations and thus provide a more cost effective and cost conscious provision of services for the hearing impaired by these organizations. Further, it will allow these organizations to more accurately predict their budgets so that they may provide the best utilization of their often limited funds for services including providing for access to at least some of the various arrangements and embodiments that comprise the present invention.

In yet another alternate embodiment of the present invention, a portion or all of the translation or interpretation including but not limited to any of the arrangements that are described below with reference to Figure 1, there may also be provided with a reduced fee or even a free Internet service provider account such as a free DSL account. Alternatively, and/or in conjunction with the free DSL account, other arrangements and preferred embodiments of the present invention may be provided with a type of advertising such as Web-based banner, audio, visual, audiovideo and/or multimedia "commercials" or other advertising or surveys that may be presented and/or interacted with by the user and/or interpreter(s) at any time before, during and/or after the translation or interpretation is being provided. In other preferred embodiments, such advertisements may alternatively be implemented so that said advertisements are displayed when there is, for example, silence for a certain amount of time or the user indicates that it is a

non-critical communication and that information such as advertisements may be allowed in addition to the translation and/or interpretation being utilized. In still other preferred embodiments, such advertising may exist in a user opt-in or opt-out configuration. In still other preferred embodiments, the presence or absence of such advertising may be associated with increases or decreases in the price to the user for providing the interpreting services and/or the payment to the interpreter(s) for providing the interpretation or translation service.

The various arrangements and embodiments of the present invention may also be utilized with the above and/or with a provision for a relatively reduced fee and/or free long distance communication configuration or enablement option for the user, for example, by utilizing the World Wide Web to transmit other types of communications such as voice while also utilizing the translation and/or interpretation for a hearing impaired person.

In yet other alternate arrangements and embodiments of the present invention, the system, method and apparatus may engage interpreters that are transported in person to a specified location, for example, a police station or hospital emergency room, or in a preferred arrangement, by providing the interpretation or translation to the subscriber and/or to the user or any other third party via a network, for example, the World Wide Web en route to the specified location.

In yet other alternate arrangements and embodiments of the present invention, the above subscription business method may be utilized with present interpreters that show up or are transported in person to the various locations where such services are requested, for example, police stations or hospital emergency rooms, or in a preferred arrangement by providing the interpretation or translation personnel to the subscriber and/or to the user or any other third party via a network, for example, the World Wide Web.

In the various alternate arrangements and embodiments that utilize as a portion of the communications network, there are many further arrangements and embodiments that may be understood in the practice of this invention. First, for example, a subscriber or utilizer may utilize the network to connect with a boiler room of interpreters that are on standby and ready to immediately interpret for a subscriber when contacted. Alternately, the interpreter or a number of interpreters may be, for example, home based or offsite location-based and may be utilized as an overflow to the boiler room or vice versa where the preferred interpreter is home based and the overflow of requests, when the supply of home based interpreters is exceed is handled by a boiler room of interpreters. Of course, an essentially boiler room may be created by linking a plurality of home based or other offsite based interpreters. In preferred embodiments of the invention dynamic allocation of interpreters on the basis of availability and demand is accomplished either automatically by the service's network software or by one or more human dispatchers.

In yet another alternate arrangement of the present invention, the interpreters may instead be located by the subscriber or a third party by utilizing a wireless technology, for example, a mobile phone that indicates to the interpreter to contact through preferably a specific website address the subscriber and begin interpretation. Interpretation may be provided visually, for example, by utilizing the mobile phone in connection with a laptop and a small CCD camera mounted with a laptop or separately so that the interpreter may immediately provide services anywhere in the world. In addition, the interpreter may also at the same time obtain or be automatically provided transportation, for example, by the hospital or via other third parties or by the interpreter themselves hailing a taxi, for example, and being transported while continuing to interpret in a wireless embodiment of the present invention.

In yet other alternate arrangements of the present invention and particularly in a plurality of preferred arrangements that utilize a wireless portion may thus provide worldwide coverage. Also, multi-lingual coverage may be provided, for example, a Spanish speaking hearing impaired person may utilize a Spanish speaking interpreter that is actually located in Spain when there are no Spanish interpreters remaining more near by relative to the hearing impaired person. Or vice versa, the Spanish speaking hearing impaired person may actually be in Spain and wish to utilize a specific facility such as a renowned hospital and an interpreter that speaks both English and Spanish that may, for example, reside in the USA and thus obtain the desired translation and interpretation by utilizing yet another arrangement of the present invention preferably in a network environment.

In yet other alternate arrangements of the present invention, the linkage between, for example, the interpreter and the hearing impaired person may be predetermined or may be implemented in real-time depending upon input from any one of the interpreter, the hearing impaired person, and/or any other third party or a combination thereof. Thus, in one exemplary embodiment of the present invention, the hearing impaired person may indicate a preference for a specific interpreter such as one that has been utilized previously by the same person and the hearing impaired person wishes to utilize the same interpreter again. The routing between the parties may also be accomplished by other at least partially predetermined and/or real-time decisions based upon software algorithms that include choosing the routing based upon the physical location of the interpreter, the hearing impaired person, and/or any other third party, on the previously described preference of one or more of the parties, based upon the cost of interpretation and/or connection, based upon the availability of any one of the parties involved,

and/or based upon the skill level, and/or whether or not the interpreter is state and/or government approved or certified and the like.

Further, other changes to the routing may include rating and/or acknowledgment of any specialized knowledge on a specific subject that the interpreter or any other third parties have or
5 a rating based upon past performance may also be utilized or incorporated with the other factors in deciding the routing to be utilized. Again, this selection may be via a predetermined algorithm, a third party that is monitoring and/or even arbitrarily deciding the routing between the hearing impaired person and any other party, and/or may be determined solely by any one of parties including the hearing impaired person themselves.

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15 In a business method application of various embodiments of the present invention, there may be a cost difference to the user and/or any other third party depending upon the skill level and/or experience in communicating that the interpreter has. Also, a menu may be provided to any of the connected parties, for example, the interpreter, the hearing impaired person, and/or any other third party that may be utilized to select or indicate a preference, for example, a certified or licensed interpreter and/or any of the other above-mentioned preferences as desired. Depending upon these choices may indicate an instantaneous change in cost in real-time or near real-time for the continuing interpretation being provided. Thus, as a higher skill level is desired a different interpreter may be provided, for example, for a few minutes and then the hearing impaired person may shift back to a first or even a third interpreter that is provided a lower rate,
20 for example, in more calm family discussions as opposed to when a higher priced interpreter may be desired that may be familiar, for example, with complex medical terminology and the like in evaluating treatment with a doctor.

Other arrangements for providing a charge include a charge or fee by subscription, for example, a fixed cost per month, or maybe utilized with a Visa or MasterCard or other credit card that preferably utilizes a chip in the card so that a more informed knowledge of any of the connected parties maybe instantly ascertained, at least in part, by utilizing information contained
5 in the chip on the charge card or other identity or informational card being utilized in connection with the various embodiments of the present invention.

Yet other embodiments may utilize a fixed fee for a base number of minutes or time period amount or have a cost associated with the excess units of time that are utilized. For example, charging an extra \$2.00 a minute for any utilization over 30 minutes a month. Other cost ranges may include, for example, other services that may be provided along with the visual interpretation, such as, a real-time transcript or a transcript that is provided at a later date, a video tape, and/or audio that may be analog or digitally or any other technique as is known in the art to record and preserve the interpretation activity.

Thus, various embodiments of the present invention may also be utilized to generate live or real-time transcripts, as well as a recordation of any or all of the communications and/or interactions of any of the parties.

Some of the parties are illustrated in Figure 1 and may be involved in the utilization of various embodiments of the present invention.

In Figure 1, a network 10 is utilized to provide a communication or a connection between
20 any combination or arrangement of at least one or more of a hearing impaired person ("HIP") 12, a monitor ("M") 14, a teacher ("T") 16, an interpreter ("I") 18, and/or any other third party ("O") 20. The connections are quasi connections between any of the parties 12, 14, 16, 18, 20 and the

network 10 may be accomplished by any technique known in the art, for example, wireless connections, land-based connections, satellite connections, and/or any combination and the like.

More specifically as shown in Figure 1, the HIP 12 is a utilizer of the translation or interpretation of this exemplary arrangement of the present invention and may also be, for example, a family member or other close associate of the user or any other person the user may designate. The M 14 of the network 10 is preferably utilizing this exemplary embodiment of the present invention in order to, for example, monitor, measure, rate, or otherwise provide a type of quality control, evaluation, or insurance of an appropriate level of quality or service by the interpreter. The monitor may also provide the above evaluations as described for the T 16 and/or any O 20 and even if desired for the HIP 12, if desired. In fact, a cost attribution or implementation of a business method implementation of the present invention may also include a rating or other evaluation of the hearing impaired person themselves to adjust the price based upon economic class or level, government assistance available, and/or tax credits, or may even be based upon the relative skill of the hearing impaired person and the price adjusted accordingly based upon the ability of the hearing impaired person to utilize the embodiment of the present invention in a satisfactory or efficient manner.

The T 16 is preferably utilizing this exemplary embodiment of the present invention in order to teach the hearing impaired person wherein the teacher needs that interpretation or translation in order to perform the teaching exercise with the hearing impaired person. Of course, it is understood that the teaching exercise need not be related in any way to sign language or the hearing impaired activities but instead may be any teaching situation, for example, teaching mathematics, art, or any other subject as desired by any of the parties.

The I 18 may include, without limitation, a translator and/or transliterator or any other aid or assistant or similar type of interpreter that may be utilized for any person needing such help, preferably those understood to fall under the American With Disabilities Act.

Finally, the O 20 may comprise, for example, police, hospital's administration and staff, doctors, relatives that are not at the hospital but wish to sit in on the consultation with the hearing impaired patient, and/or additional hearing impaired family members that may also wish to utilize and be aware of the communication transpiring between the hearing impaired person and any other person or entity that is connected via the network in this exemplary embodiment of the present invention.

Yet another arrangement of the present invention may include providing the interpretation on a time delay basis, for example, where the delivery of the interpretation is at a point in time substantially after the provision of the speech and/or sign language to be interpreted and translated. Thus, for example, in one exemplary embodiment a person may speak into a recording device and then at some later time, for example, 12 hours later, the recording may be transliterated and then provided as desired to the hearing impaired person at a convenient time that they request. Also, the initiator or verbal message user in this example may specify time for delivery of the translated communication. Of course, it is understood that yet another arrangement of the present invention includes a video tape or a recordation of the visual sign language by the hearing impaired person that has been transmitted through a translator and the, for example, spoken interpretation is then later delivered, for example, as a voicemail to the intended recipient. Similarly, any transcripts or recordations or the like may also be provided at a time delay and the cost of the same in the use alternate embodiments may be adjusted accordingly, if desired.

In yet other arrangements of the present invention in an exemplary embodiment a synthespian arrangement may be utilized, wherein a synthespian is a digitally generated interactive actor, avatar, agent or a digitally morphed, modified or enhanced interactive recording of a real person. Thus, for example, a hearing impaired person may utilize a network to communicate with a receiver or an interpreter or a recorder that may be later viewed by the interpreter. The interpreter may then interpret the sign language communication into the spoken language, and provide it to, for example, a third party. However, this example prior to the viewing by the interpreter of the hearing impaired person's communication via sign language, a computer generated synthespian may, for example, be utilized to mask or alter the appearance of the hearing impaired person so that the interpreter will not know the true identity of the hearing impaired person in order to better safeguard and provide a semblance of privacy for the hearing impaired person. Alternatively, in a similar fashion the interpreter may receive a spoken communication and translate it into sign language for the hearing impaired person. However, prior to viewing of the interpretation by the hearing impaired person, the visual image is passed through, for example, a computer processing unit that then converts at least a portion of the image of the interpreter into a synthespian type image. Thus, the hearing impaired person only sees an artificial or synthespian interpreter and not the actual physical look and/or identity of the interpreter so that the deaf person and/or the interpreter may be provided with a relatively secure and/or a relatively private type of communication. Thus, the hearing impaired person may later "bump" into the interpreter on the street and yet neither would recognize the other, thus, providing some semblance of privacy for the hearing impaired person and/or the interpreter and/or any other third parties.

In preferred embodiments of the instant invention, the aforementioned synthespian substitution or "masking" of the identities may be applied to the hearing impaired user, the interpreter, any third party users, such a physician using the service in an emergency room and/or any remote third party participant in the videoconference. In further preferred
5 embodiments, the synthespian substitution or masking of identities may be performed in real time by sufficiently fast processing of digital data corresponding to the images and voices of the aforementioned parties.

Yet other alternate embodiments of the present invention include utilizing the interpretation over the network as a portion of, for example, a video dating service, wherein the translator and/or interpreter may be provided in relatively real-time to assist a hearing impaired person in a World Wide Web based dating service and the like. Similarly the various
embodiments of the present invention may be utilized so as to conduct an adult video conferencing communication wherein the communication is primarily of a sexual nature. Further, a video chat room or a chat room that is provided with a video link to the hearing
impaired person may utilize, for example, streaming video to enhance the communications via the interpreter at a World Wide Web chat room. Thus, the hearing impaired person may make
arrangements to "meet" at a specified time on a website chat room wherein the hearing impaired person utilizes various aspects of the present invention to have the hearing impaired person's
communication be translated into verbal or spoken communication and vice versa from the other
20 parties participating in the chat room activity. This may be done either in a time delay fashion as described above that is a message to the chat room or alternatively in a relatively real-time or near real-time application in yet another embodiment of the present invention. It is particularly applicable for utilizing various embodiments of the present invention in the more recently

implemented video chat rooms that may be engaged in the utilization of a network such as the World Wide Web.

In further embodiments of the instant invention, the providing of interpreting services using the system, method and apparatus disclosed herein includes the provider's, user's and/or subscriber's use of tax incentives, such as tax credits as set forth in Appendix 1 hereto, provided by one or more governmental entities for the purchase, installation, upgrading and/or maintenance of equipment and/or purchase of services and/or subscriptions for the above mentioned interpretation and/or translation services .

Appendix 1

**Disability-Related Tax Provisions Applicable to Businesses
Excerpted from the ADA Handbook; Appendix G, Tax Provisions**

The three disability-related provisions in the Internal Revenue Code applicable to businesses described below are of particular interest to businesses and people with disabilities:

1) Targeted Jobs Tax Credit (Title 26, Internal Revenue Code, section 51)

Employers are eligible to receive a tax credit in the amount of 40 percent of the first \$6,000 of first-year wages of a new employee who has a disability. There is no credit after the first year of employment. For an employer to qualify for the credit, a worker must have been employed for at least 90 days or have completed at least 120 hours of work for the employer. The Revenue Reconciliation Act of 1990, Public Law 101-508, extended this tax credit through December 31, 1991.

2) Tax Deduction to Remove Architectural and Transportation Barriers to People with Disabilities and Elderly Individuals (Title 26, Internal Revenue Code, section 190)

Allows a deduction for "qualified architectural and transportation barrier removal expenses."

Only expenditures that are for the purpose of making any facility or public transportation vehicle owned or leased by the tax payer for use in connection with his or her trade or business more accessible to, and usable by, handicapped and elderly individuals are eligible for the deduction.

5 The taxpayer must establish, to the satisfaction of the Secretary of the Treasury, that the resulting removal of the barrier meets the standards promulgated by the Secretary with the concurrence of the U.S. Architectural and Transportation Barriers Compliance Board.

For purposes of this section, a "handicapped individual" is any individual who has a physical or mental disability (including, but not limited tot deafness and blindness) which, for that individual, constitutes or results in a functional limitation to employment, or who has any physical or mental impairment that substantially limits one or more major life activities of that individual.

The deduction may not exceed \$15,000 for any taxable year. (The maximum deduction had been \$35,000 prior to passage of Public Law 101-508 in 1990, which lowered the maximum deduction.)

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3) **Disabled Access Tax Credit** (Title 26, Internal Revenue Code, section 44)

This tax credit is available to "eligible small businesses" in the amount of 50 percent of "eligible access expenditures" for the taxable year that exceed \$250 but do not exceed \$10,250.

"Eligible small businesses" are those businesses with either:

a) \$1 million or less in gross receipts for the preceding tax year

20
OR

b) 30 or fewer full-time employees during the preceding tax year.

"Eligible access expenditures" means amounts paid or incurred by an eligible small business for the purpose of enabling the small business to comply with applicable requirements under ADA.

Certain types of expenditures are listed as included under the meaning of the term "eligible access expenditures." These include amounts paid or incurred:

- i) for the purpose of removing architectural, communication, physical, or transportation barriers that prevent a business from being accessible to, or usable by, individuals with disabilities;
- 5 ii) to provide qualified readers, taped texts, and other effective methods of making visually delivered materials available to people with visual impairments;
- iii) to provide qualified interpreters or other effective methods of making aurally delivered materials available to individuals with hearing impairments;
- iv) to acquire or modify equipment, or devices for individuals with disabilities, or
- v) to provide other similar services, modifications, materials, or equipment.

Expenditures that are not necessary to accomplish the above mentioned purposes are not eligible. Expenses in connection with new construction are not eligible. "Disability" has the same meaning as it does in the ADA. Barrier removals or the provision of services, modifications, materials, or equipment must meet standards promulgated by the Secretary in order to be eligible.

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The invention has been described in reference to particular embodiments as set forth above. However, only the preferred embodiment of the present invention, and but a few examples of its versatility are shown and described in the present disclosure. It is understood that the present invention is capable of use in various other combinations and environments, and is capable of changes or modifications within the scope of the inventive concept as expressed herein. Indeed, in still further embodiments, automated closed captioning can be used to deliver via a network, real-time, simultaneous language translations. Further still, electronic avatars can be utilized to provide fully mobile, wireless network interpreting and simultaneous translation

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services enabling business travelers and tourists to have immediately available translation services irregardless of time or location. In other embodiments, a sign language motion electronic dictionary can be utilized to enable electronic based communication with direct interface between deaf and hearing-enabled parties. Applications for such dictionary could include, but is not limited to, remote ordering devices for fast food outlets, rental car outlets, and ticket purchase outlets.

In another preferred embodiment, a plurality of user computers can be contained within a single housing system. For instance, with reference to Figures 3 and 4, two user computers can be contained within a single housing 24 having a first side 26 and a second side 28, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing 26 and the means for receiving and transmitting the audio and visual information for the second user computer resides on the second side of the housing 28. In one embodiment, the audio receiver and transmitter 30 is a microphone and the visual receiver 34 and transmitter is a camera and a screen. In this manner, and with reference to Figure 5, a user, such as a doctor, could stand across from the hearing impaired person such that the user is viewing a visual transmitter on the first side, such as a screen and the hearing impaired person is viewing a visual transmitter on the second side, such as a screen. In this embodiment, the interpreter is transmitted simultaneously to both the doctor and the hearing impaired such that interpretation services are provided. In still other embodiments, and with reference to Figure 6, each user could utilize a separate hand held device. It is to be understood that this description is not intended to limit the invention. Rather, the invention is intended to encompass all permutations on the invention. For instance, the embodiment in Figure 3 could also be utilized for foreign language interpretation services such that two user parties could

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communicate via interpretive services provided by the hand held network device housing the two user computers.

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What is claimed is:

1. A communication services system on a computer network having a provider computer and at least one user computer, wherein the user computer is accessed by a first user and a second user, comprising:

means for receiving and transmitting audio and visual information between the provider
5 computer and the user computer; and

an interpreter accessible via the provider computer; wherein the interpreter can receive a request from the first user for interpretation services between the first user and the second user.

2. A communication services system as claimed in claim 1, wherein the communication services system comprises a plurality of user computers, each user computer having means for receiving and transmitting audio and visual information between the provider computer and the user computer, wherein the user computers are in electronic communication with each other and with the provider computer.

3. A communication services system as claimed in claim 2, wherein the means for receiving and transmitting audio and visual information contained within a first user computer and a second user computer are contained within a single housing having a first side and a second side, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing and the means for receiving and transmitting the audio and visual information for the second user computer resides on the second side of the housing.

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4. A communication services system on a computer network having a provider computer and a user computer, the system comprising:

at least one communication service provider, wherein the communication service provider has predefined provision of service criteria;

5 means for operating the provider computer to receive a request for communication services from a user via the user computer, the request for communication services including user-defined request criteria;

means for operating the provider computer to compare user-defined request criteria with the predefined provision of service criteria; and

10 means for providing the communication service provider to the user.

5. A communication services system as claimed in claim 4, wherein the user-defined criteria includes a criteria that the communication services provider is within a specified geographic area.

6. A communication services system as claimed in claim 4, wherein the communication service provider possesses a wireless communication device and is capable of providing communication services while translocating from one location to another.

7. A method for providing communication services on a computer network having a provider computer and a user computer, the communication services having a plurality of communication service providers, wherein each communication service provider has predefined provision of service criteria, the method comprising:

5 receiving a request for communication services on the provider computer from a user via the user computer, the request for communication services including user-selected request for service criteria;

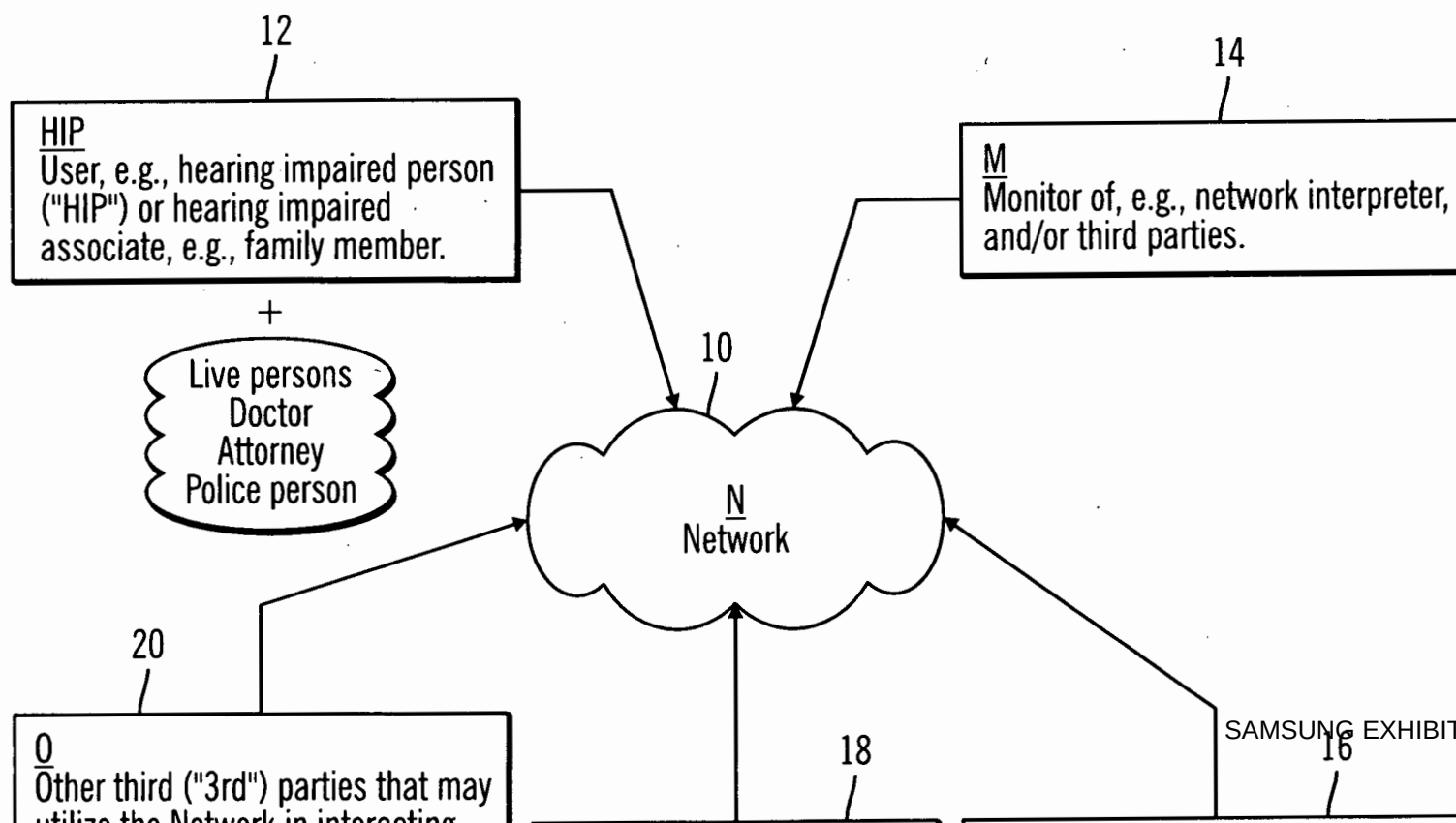
10 comparing, on the provider computer, user-selected request for service criteria with the predefined provision of service criterion of the plurality of communication service providers to determine a degree of match;

choosing a communication service provider from the degree of match; and

providing, from the provider computer, the chosen communication service provider with the user, wherein the communication service provider provides communication services to the user.

Abstract

Embodiments of the present invention comprises a system, method, and apparatus that provides for the utilization of a relatively real-time or near real-time interpretation or translation that may be utilized preferably for a relatively short duration of time on a network. A preferred embodiment of the present invention provides online, real-time, short-duration interpreting services in a network-based format. In preferred embodiments, the interpreting system comprises at least one provider computer, such as a server, wherein the provider computer is capable of communicating with user computers via a network. In one preferred embodiment, the provider computer provides a series of web pages that allow access to the interpreting system, including, but not limited to, a request for service page, wherein a user can access the system and input a request for interpreting services. Interpreting services are then provided to a user and a third party desiring to communicate with the user via the network.



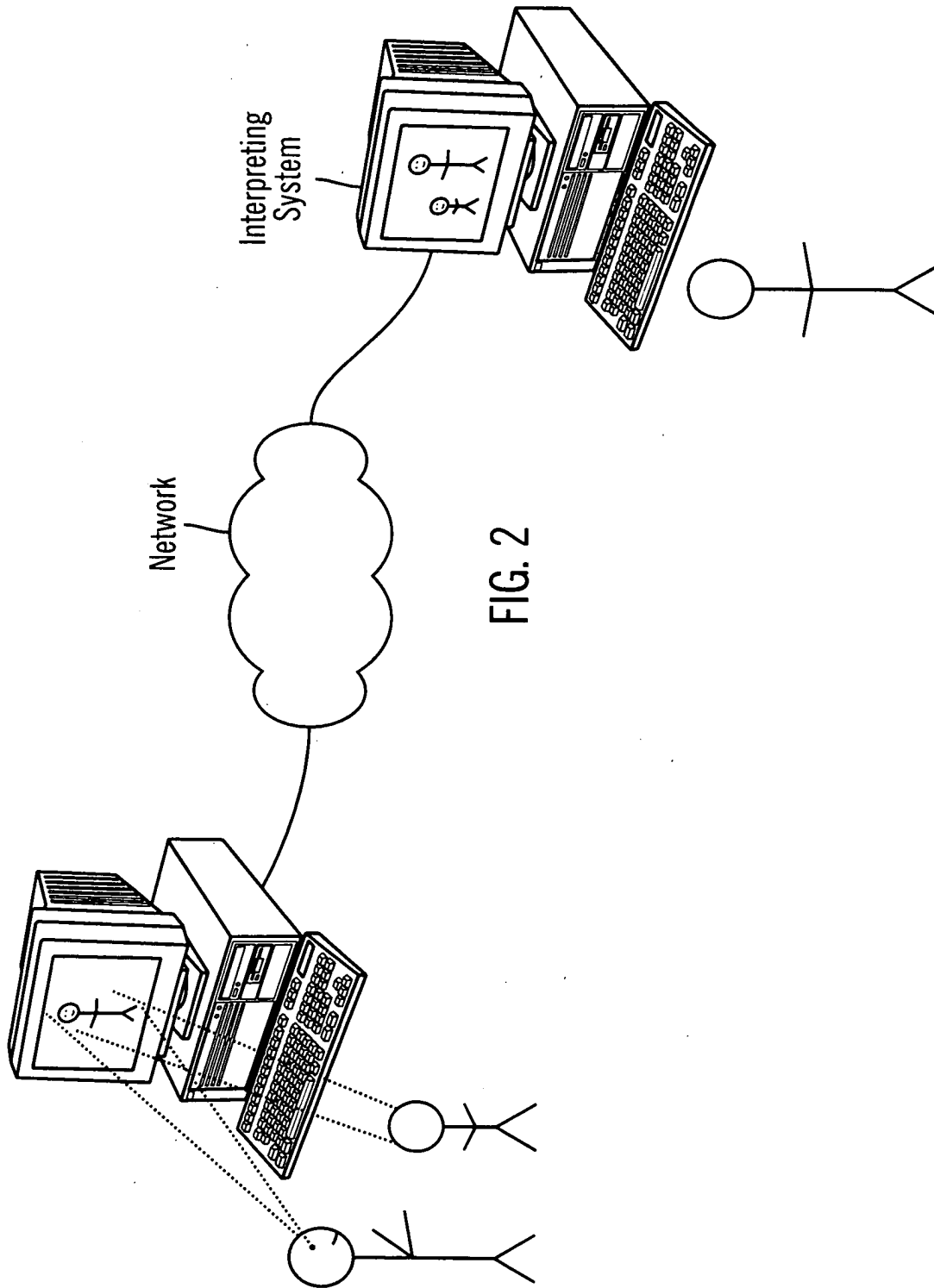


FIG. 2

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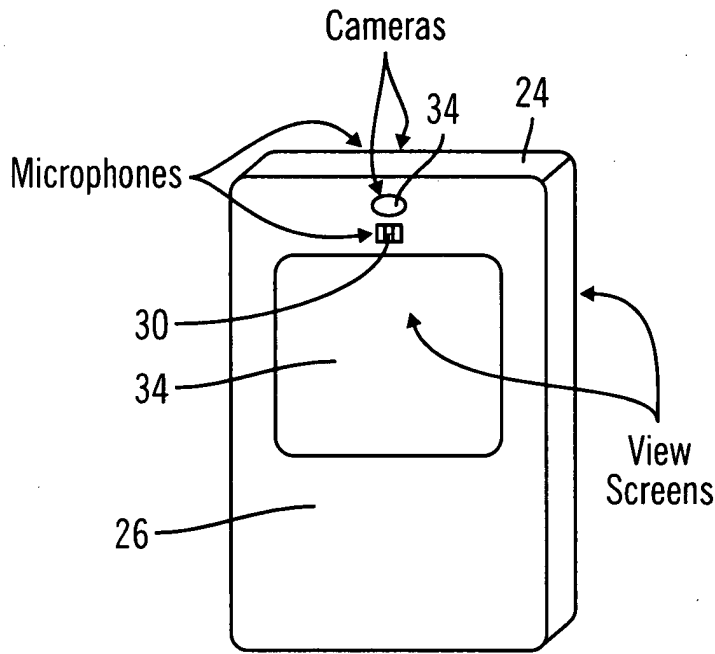


FIG. 3

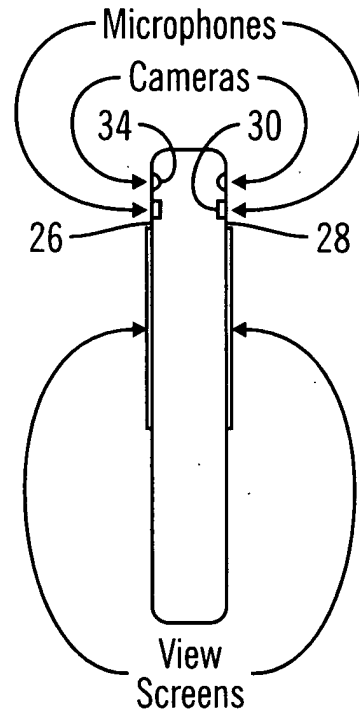


FIG. 4

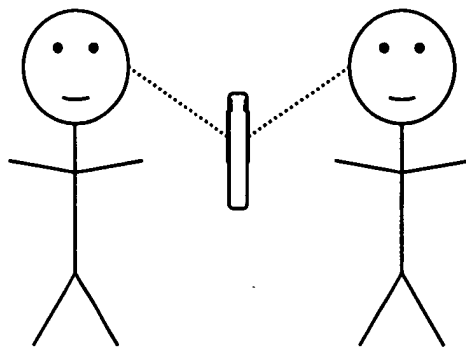


FIG. 5

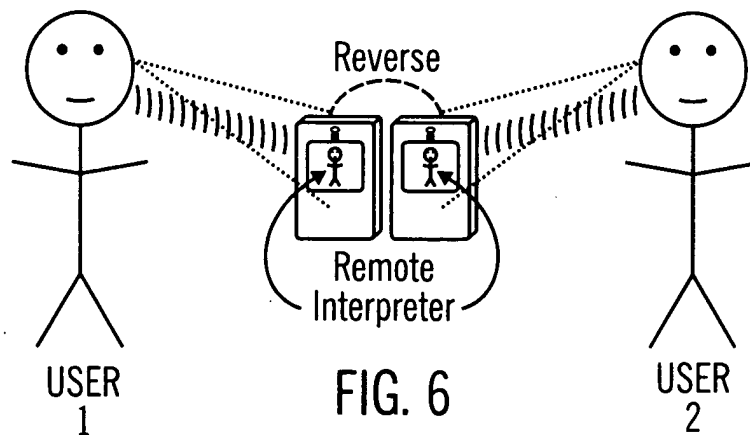


FIG. 6

**United States Patent Application
 COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled, A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK,

The specification of which

☒ a. is attached hereto.
☐ b. was filed on xx as application serial no. xx and was amended on xx (if applicable) (in the case of a PCT-filed application) described and claimed in international no. xx filed xx and as amended on xx (if any), which I have reviewed and for which I solicit a United States patent.

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

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56 (attached hereto).

I hereby claim foreign priority benefits under Title 35, United States Code, §119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

☒ a. no such applications have been filed.
☐ b. such applications have been filed as follows:

FOREIGN APPLICATION(S), IF ANY, CLAIMING PRIORITY UNDER 35 USC §119			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)
ALL FOREIGN APPLICATION(S), IF ANY, FILED BEFORE THE PRIORITY APPLICATION(S)			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)

I hereby claim the benefit under Title 35, United States Code, §120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)
60/243,162	October 25, 2000

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Anna M. Vradenburgh, Reg. No. 39,868 and Gregory A. Piccionelli Reg. No. 39,534

10/25/2001 12:58 FAX 5628561214

Robert Klinefelter

003

Oct-25-01 11:24am From:BRULL PICCIONELLI SARNO BRAUN

+3105534120

T-482 P.03/04 F-882

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Brull Piccionelli Sarno Braun & Vradenburgh to the contrary.

Please direct all correspondence in this case to Anna M. Vradenburgh at Brull Piccionelli Sarno Braun & Vradenburgh at the address indicated below:

Brull Piccionelli Sarno Braun & Vradenburgh
1925 Century Park East, Suite 2350
Los Angeles, CA 90067

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

2	Full Name Of Inventor	Family Name Klinefelter	First Given Name Robert	Second Given Name Glen
0	Residence & Citizenship	City Long Beach	State or Foreign Country California	Country of Citizenship US
1	Post Office Address	Post Office Address 5801 A Seaside Walk	City Long Beach	State & Zip Code/Country CA 90803/USA
Signature of Inventor 201:			Date:	
Robert Klinefelter			OCTOBER 25, 2001	

2	Full Name Of Inventor	Family Name Piccionelli	First Given Name Gregory	Second Given Name A
0	Residence & Citizenship	City Los Angeles	State or Foreign Country California	Country of Citizenship US
2	Post Office Address	Post Office Address 1925 Century Park East, Suite 2350	City Los Angeles	State & Zip Code/Country CA 90067/USA
Signature of Inventor 202:			Date:	

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

Oct-25-01 17:35am From-BRULL PICCIONELLI SARNO BRAUN

+3105534120

T-483 P.03/04 F-883

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Brull Piccionelli Sarno Braun & Vradenburgh to the contrary.

Please direct all correspondence in this case to Anna M. Vradenburgh at Brull Piccionelli Sarno Braun & Vradenburgh at the address indicated below:

Brull Piccionelli Sarno Braun & Vradenburgh
1925 Century Park East, Suite 2350
Los Angeles, CA 90067

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

2	Full Name Of Inventor	Family Name Klinefelter	First Given Name Robert	Second Given Name Glenn
0	Residence & Citizenship	City Long Beach	State or Foreign Country California	Country of Citizenship US
0	Post Office Address	Post Office Address 5801 A Seaside Walk	City Long Beach	State & Zip Code/Country CA 90803/USA
Signature of Inventor 201:			Date:	

2	Full Name Of Inventor	Family Name Piccionelli	First Given Name Gregory	Second Given Name A
0	Residence & Citizenship	City Los Angeles	State or Foreign Country California	Country of Citizenship US
2	Post Office Address	Post Office Address 1925 Century Park East, Suite 2350	City Los Angeles	State & Zip Code/Country CA 90067/USA
Signature of Inventor 202:			Date: 10-25-01	

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim;

or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application:

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

SCORE Placeholder Sheet for IFW Content

Application Number: **12658496**

Document Date: **02/08/2010**

The presence of this form in the IFW record indicates that the following document type was received in paper and is scanned and stored in the SCORE database.

- Drawings

Images of the original documents are scanned in gray scale or color and stored in SCORE. Bi-tonal images are also stored in IFW. Defects visible in both IFW and SCORE are indicative of defects in the original paper documents.

To access the documents in the SCORE database, refer to instructions developed by SIRA.

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- Examiners may access SCORE content via the eDAN interface.
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Form Revision Date: December 8, 2006

PATENT APPLICATION SERIAL NO. _____

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

02/17/2010 MBELETE1 00000031 12658496

01 FC:2011	165.00 OP
02 FC:2111	270.00 OP
03 FC:2311	110.00 OP

PTO-1556
(5/87)

Filing Date: 02/08/10

Approved for use through 7/31/2006. OMB 0651-0032

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

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					12/658,496		
APPLICATION AS FILED – PART I							
(Column 1)		(Column 2)			(Column 3)		
FOR	NUMBER FILED	NUMBER EXTRA		SMALL ENTITY		OTHER THAN SMALL ENTITY	
BASIC FEE (37 CFR 1.16(a), (b), or (c))				RATE (\$)	FEE (\$)	RATE (\$)	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))					165		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))					270		
TOTAL CLAIMS (37 CFR 1.16(i))	7	minus 20 =			110		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 =		X 26 =		X 52 =	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$270 (\$135 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).			X 110 =		X 220 =	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
				N/A		N/A	
				TOTAL	545	TOTAL	
* If the difference in column 1 is less than zero, enter "0" in column 2.							
APPLICATION AS AMENDED – PART II							
(Column 1)		(Column 2)		(Column 3)			
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		SMALL ENTITY		OTHER THAN SMALL ENTITY
	Total (37 CFR 1.16(i))	Minus	**	=	RATE (\$)	ADDI-TIONAL FEE (\$)	RATE (\$)
	Independent (37 CFR 1.16(h))	Minus	***	=	X =		X =
	Application Size Fee (37 CFR 1.16(s))				X =		X =
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				N/A		N/A
				TOTAL		TOTAL	
				ADD'T FEE		ADD'T 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.							
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		SMALL ENTITY		OTHER THAN SMALL ENTITY
	Total (37 CFR 1.16(i))	Minus	**	=	RATE (\$)	ADDI-TIONAL FEE (\$)	RATE (\$)
	Independent (37 CFR 1.16(h))	Minus	***	=	X =		X =
	Application Size Fee (37 CFR 1.16(s))				X =		X =
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				N/A		N/A
				TOTAL		TOTAL	
				ADD'T FEE		ADD'T FEE	

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

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/658,496	02/08/2010	Robert Glen Klinefelter	GT12

CONFIRMATION NO. 8099

FORMALITIES LETTER



OC000000040405071

PICCIONELLI & SARNO
A Professional Association
Suite 200
2801 Townsgate Road
Westlake Village, CA 91361

Date Mailed: 03/05/2010

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

An application number and filing date have been accorded to this application. The application is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given TWO MONTHS from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

The required item(s) identified below must be timely submitted to avoid abandonment:

- A substitute specification in compliance with 37 CFR 1.52, 1.121(b)(3), and 1.125, is required. The substitute specification must be submitted with markings and be accompanied by a clean version (without markings) as set forth in 37 CFR 1.125(c) and a statement that the substitute specification contains no new matter (see 37 CFR 1.125(b)). The specification, claims, and/or abstract page(s) submitted is not acceptable and cannot be scanned or properly stored because:
 - The specification contains drawings or flow diagrams (37 CFR 1.58(a)) on page(s) 3,5,7. Drawings or flow diagrams cannot be embedded in the specification and should be submitted separately in accordance with 37 CFR 1.84. (Both a substitute specification in compliance with 37 CFR 1.125 and new drawings in compliance with 37 CFR 1.84 and 1.121(d) are required).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

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



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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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/658,496	02/08/2010	2626	545	GT12	7	3

CONFIRMATION NO. 8099

FILING RECEIPT



PICCIONELLI & SARNO
A Professional Association
Suite 200
2801 Townsgate Road
Westlake Village, CA 91361

Date Mailed: 03/05/2010

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**

Applicant(s)

Robert Glen Klinefelter, Long Beach, CA;
Gregory A. Piccionelli, Westlake Village, CA;

Power of Attorney:

Gregory Piccionelli--39534
Anna Vradenburgh--39868

Domestic Priority data as claimed by applicant

This application is a DIV of 10/057,131 10/25/2001
which claims benefit of 60/243,162 10/25/2000

Foreign Applications

If Required, Foreign Filing License Granted: 03/03/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/658,496**

Projected Publication Date: To Be Determined - pending completion of Corrected Papers

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System, method, and apparatus for providing interpretive communication on a network

Preliminary Class

704

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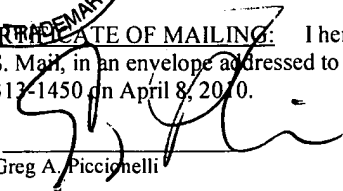
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Attorney Docket GTUS012

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By: 
Greg A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Robert G. Klinefelter and Gregory A. Piccionelli	
Title:	A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK	
Appl. No.:	12/658,496	
Filing Date:	February 8, 2010	
Examiner:	Unknown	
Art Unit:	2626	
Confirmation No.	Unknown	

**RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS AND
PRELIMINARY AMENDMENT UNDER 37 CFR 1.115**

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

Sir:

Prior to examination of the present Continuing Application, Applicant respectfully requests that the application be amended as follows:

Amendments to the Specification begin on page 3 of this document and are included in an attached Clean Copy of the Substitute Specification and shown in a marked-up copy of the original specification.

Amendments to the Claims are reflected in the listing of claims which begins on page 4.

Remarks/Arguments begin on page 9 of this document.

1. Please amend the application as follows:

Amendments to the Specification:

Please amend the specification as shown in the attached clean copy and explained as follows:

The text from and including page 1, line 11 to and including page 8, line 1 is deleted.

The following new heading and paragraph is added before the first heading and paragraph on page 1:

Related Application

This application is a Divisional of US Application 10/057,131, filed 8/25/2001, which claims the benefit of U.S. Provisional Patent Application No. 60/243,162, filed 10/25/200, each of which is incorporated herein by reference in its entirety.

In the claims:

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

1. (Currently Amended) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer and, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting ~~audio and visual~~ information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

~~an interpreter accessible via the provider computer, wherein the interpreter can receive a request from the first user for interpretation services~~

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide computer and the user computer.

2. (Cancelled)

3. (Currently Amended) A communication services system as claimed in claim 2, operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer;

wherein the ~~means for receiving and transmitting audio and visual information contained within~~ plurality of user computers ~~comprise~~ a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, ~~wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing and the means for receiving and transmitting having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer resides having a second means for manual~~

input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider computer and the first user computer at the same time that the second user is able to access the second user computer to receive or transmit information between the provider computer and the first user computer.

4. (New) A communication services system as claimed in claim 1, wherein at least one of either the provider computer, the at least one user computer, or interpreter computer comprises a hand-held device.

5. (New) A communication services system as claimed in claim 4, the at least one of either provider computer user computer, or interpreter computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

6. (New) A communication services system as claimed in claim 1, wherein at least one of the provider computer and the user computer comprises a hand-held device.

7. (New) A communication services system as claimed in claim 6, the provider computer and user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

8. (New) A communication services system as claimed in claim 3, wherein the user computers each comprise a hand-held device.

9. (New) A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user, comprising:

at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information;

the at least one user computer comprising a housing having a first side and a second side, at least one first manual input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first manual input device and first display device resides on the first side of the housing, at least one second manual input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second manual input device and second display device resides on the second side of the housing;

wherein the first and second manual input devices and first and second display devices are arranged on the housing to allow the first user to access the at least one first manual input device and first display device at the same time that the second user is able to access the at least one second manual input device and second display device.

10. (New) A communication services system as claimed in claim 9, the at least one user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

11. (New) A communication services system as claimed in claim 9, wherein the at least one user computer comprises a portable, hand-held device.

12. (New) A communication services system as claimed in claim 9, wherein the at least one user computer is configured to transmit interpreter selection information to the provider computer, the information relating to criteria for selecting an appropriate interpreter for the interpretation services.

13. (New) A communication services system as claimed in claim 9, wherein the at

least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

14. (New) A communication services system as claimed in claim 13, wherein the at least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

REMARKS

Applicant respectfully requests that the foregoing amendments be made prior to examination of the present application.

In the specification, page 1 is amended to make reference to the parent patent application (U.S. Patent Application No. 10/057,131, filed 8/25/2001) and provisional patent application 60/243,162, filed 10/25/2000.

In addition, in response to the Notice To File Corrected Application Papers dated March 5, 2010, the specification is amended to delete the text from and including page 1, line 11 to and including page 8, line 1. A substitute specification is provided herewith, including a clean copy and a marked-up copy. Other aspects of the original specification and original claims are retained in the substitute specification. The present Preliminary Amendment includes amendments to the original claims.

By deleting the text of the original application from and including page 1, line 11 to and including page 8, line 1, the portions of the original application that included graphs and diagrams has been removed. No new drawings are required. Accordingly, it is submitted that the Applicant has complied with the Notice To File Corrected Application Papers.

In addition, original claims 1 and 3 are amended and new claims 4-14 are added herein. No new matter is added. Original claim 2 is cancelled without prejudice or disclaimer.

Claim 1 corresponds to claims 1 with dependent claim 13 from the parent patent application (10/057,131). Claim 3 corresponds to claim 3 from that parent patent application, but amended to be in independent form. New claims 4-11 correspond to claims 14-18 and 38-40, respectively, in the parent patent application (10/057,131), in their form as presented in the Response To Office Action dated April 21, 2009 filed in that parent patent application. Those claims are in condition for allowance at least for reasons as discussed in Applicant's Amendment and Reply filed April 21, 2009, which is incorporated herein by reference.

1. Claims 1, 3, and 9-11 Comply With 35 U.S.C. §112, First Paragraph

In the parent application, claims 3, 13 and 38-40, which generally correspond to present claims 1, 3 and 9-11 were rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the written description requirement.

The Office stated “[t]he claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.” The Office further stated “[i]t is not clear how the means for receiving and transmitting audio and visual information dual displays and microphones would be constructed and function within a single housing.” That rejection is respectfully traversed.

Many of the following comments relate to claim 3, but apply to claims 1 and 9, as well. In particular, as shown below, it is clear from the record that each of claims 1, 3 and 9 meet the written description requirement, including being supported by express written disclosure and drawings of illustrative examples, showing that the inventors had possession of the claimed invention. In addition, each of claims 1, 3 and 9 would have been enabled to one of ordinary skill in the art, based on the teachings of the present disclosure and ordinary knowledge of communication device technology.

It is submitted that claim 3 complies with 35 U.S.C. 112, first paragraph, including the written description requirement thereof.

Claim 3 recites a communication services system wherein the plurality of user computers comprise a first user computer and a second user computer. Claim 3 further recites that the first user computer and second user computer are contained within a single housing. Claim 3 also recites that first means for manual input/output of audio and visual information for the first user computer resides on the first side of the housing and second means for manual input/output of audio and visual information for the second user computer resides on the second side of the housing. Similar features are recited in claims 1 and 9, but with a user computer comprising a housing having first and second sides and a first display means and first input means on the first side of the housing and second display means and second input means on the second side of the

housing.

An example of a system that includes a first user computer and a second user computer contained within a single housing is described and illustrated in the original application, with reference to Figs. 3-6 and page 41, line 7 to page 42, line 2, including the following statement:

“In another preferred embodiment, a plurality of user computers can be contained within a single housing system. For instance, with reference to Figures 3 and 4, two user computers can be contained within a single housing 24 having a first side 26 and a second side 28, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing 26 and the means for receiving and transmitting the audio and visual information for the second user computer resides on the second side of the housing 28.” (page 41, lines 7-13.)

As represented by the above-quoted portion of the specification, each of the above-noted features of claim 3 is described in the written text, including a first user computer and a second user computer contained within a single housing, (first) means for manual input/output of audio and visual information for the first user computer on the first side of the housing and other (second) means for manual input/output of audio and visual information for the second user computer on the second side of the housing.

Claim 3 further recites that the system is configured to allow the first user to access the first user computer at the same time that the second user is able to access the second user computer. Examples of such features are shown in Figs. 5 and 6 and described on page 40, line 13 to page 41, line 2.

“In this manner, and with reference to Figure 5, a user, such as a doctor, could stand across from the hearing impaired person such that the user is viewing a visual transmitter on the first side, such as a screen and the hearing impaired person is viewing a visual transmitter on the second side, such as a screen.” (page 40, lines 14-17.)

One of ordinary skill in the art would clearly understand from such description and Figs.

3-6, that the inventors had possession of the above-recited features of claim 3 (and, similarly, claims 1 and 9). The correspondence of the express, written description in the specification to the claim language and the visual representations of examples in the drawings, shows that the specification would have conveyed to one skilled in the art, that the inventors had possession of the above-noted features recited in claims 3 (and claims 1 and 9).

The Examiner argued that “the pointed to sections of the specification by the applicant further emphasizes the lack of written description as to how the device is constructed” (8/4/09 Final Office Action, pg. 5, ll. 12-14). To the contrary, Applicant has pointed to specific examples of written disclosure and illustrations, relating to features as recited in the claims. The construction of the device is described in the specification and shown in the drawings of Figs. 3-6 (which clearly show a housing structure having input/output devices arranged to face outward on two opposite-facing sides).

For example, where claim 3 recites “a first user computer and a second user computer” that “are contained within a single housing,” Applicant has shown written description and drawings of an example of two user computers can be contained within a single housing 24. The drawings of Figs. 3-6 show an example of a housing 24 as a box-like structure that clearly would be well within the understanding of one of ordinary skill in the art.. Where claim recites that “the housing having a first side and a second side, the first user computer having a first means for manual input/output ... on the first side of the housing and ... second means for manual input/output ... on the second side of the housing,” Applicant has shown written description and drawings of an example of a housing 24 “having a first side 26 and a second side 28, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing 26 and the means for receiving and transmitting the audio and visual information for the second user computer resides on the second side of the housing 28.” (See, e.g., Specification, page 41, lines 7-13.) Again, the drawings of Figs. 3-6 show that the housing 24 that has two opposite sides, with input/output devices on the two opposite sides, in a configuration that would be well within the understanding of one of ordinary skill in the art.

It is submitted that one of ordinary skill in the art would clearly understand from the original disclosure, including Figs. 3-6, that the inventors had possession of the features recited

in claims 1, 3, and 9.

While the Examiner states that the description conveys a generalized layout of the displays, the Examiner argued that the specification does not adequately describe how to construct a dual display device. (8/4/09 Final Office Action, pg. 5, ll. 25-26.)

It is respectfully submitted that the specification and drawings are sufficient to convey to one of ordinary skill in the art sufficient information to know how the claimed invention can be constructed and function. Examples illustrated in the drawings of Figs. 3-6 show a housing 24 that has two sides (two faces) 26 and 28. Those drawings also show that devices for manual input and output of audio and visual information can be supported in the housing in a manner such that such devices are accessible for manual input of information from each of the two sides of the housing. In the illustrated examples, display screens, microphones and cameras are arranged in user-accessible positions on each of the two sides 26 and 28 of a housing 24. Based on the express description and drawings of Figs. 3-6, it is respectfully submitted that one of ordinary skill in the art would be able to construct a single housing that supports first and second sets of input/output devices on two respective sides. The use of ordinary mounting hardware, as well as specially designed mounting structures would be well within the level of skill of one of ordinary skill in the art, once taught (by the present specification) to arrange input/output devices on two sides of a housing.

The Examiner cited MPEP 2163 and examples of patent references describing dual display devices. However, that section of the MPEP and the cited example patent references squarely support Applicant's position that the present application complies with 35 U.S.C. 112, first paragraph, including the written description and enablement requirements thereof. In particular, MPEP 2163 expressly states that the analysis of whether the specification complies with the written description requirement is conducted from the standpoint of one of skill in the art at the time the application was filed. The cited patent references show that one skilled in the art having the benefit of the present disclosure would have been able to construct the claimed system, including the user computer features thereof, without undue experimentation.

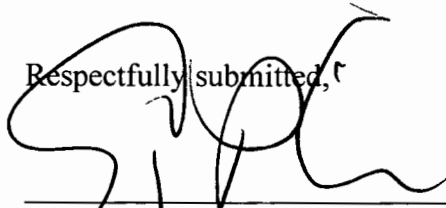
Accordingly, it is respectfully submitted that the claims 1, 3 and 9 comply with 35 U.S.C. 112, first paragraph.

Furthermore, Applicant respectfully traverses the Examiner's statement (8/4/09 Final

Office Action, pg. 5, l. 8) that "Applicant's argue that the inventive step is the 'concept' of having a dual display ..." To the contrary, the claim as a whole must be considered for novelty and nonobviousness. The claims are directed to systems that include many features that operate together to form the inventive configuration and process. The Examiner has not shown any prior art that discloses or suggests the overall invention recited in the claims (regardless of whether or not a single feature of a claim may be in the prior art). The claims must be examined, as a whole with regard to patentability over the prior art. It is respectfully submitted that the references of record neither describe nor suggest the invention recited in the presently pending claims.

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration of the application as amended is respectfully requested.

Respectfully submitted,



Gregory A. Piccionelli
Attorney and Applicant
Reg. No. 39,534

Dated: April 8, 2010

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Marked-up Copy of Original Spec.
For. U.S. Pat. Appl. Ser. No. 12/658,496



A System, Method, and Apparatus for Providing Interpretive Communication on a Network

Related Application

This application is a Divisional of U.S. Patent Application No. 10/057,131, filed August 25, 2000, which claims the benefit of U.S. Provisional Patent Application No. 60/243,162 filed October 25, 2000, each of which is incorporated herein by reference in its entirety.

Field of the Invention

The present invention relates generally to a system, method, and apparatus for providing
5 real-time or near real-time interpreting services for utilization on a network. More specifically, embodiments of the invention relate to systems, methods, and apparatuses for facilitating communication for the hearing impaired or disabled in situations that are location-specific and in which the use of live interpreters is inconvenient or relatively neither cost nor time effective, wherein a real-time or near real-time interpreting service is provided, via a network.

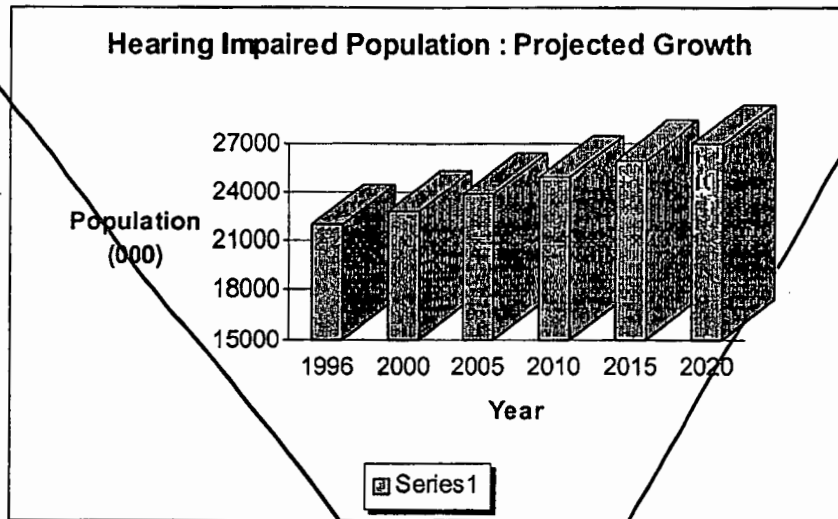
Background of the Invention

~~Currently 23,000,000 Americans are classified as having chronic hearing impairment.~~

Based on figures compiled by the National Center for Health Statistics, it is estimated that 7,600,000 physician contacts occur annually with hearing disabled patients in emergency room situations. In addition, it is estimated that an additional 6,800,000 such contacts occur in
15 outpatient facilities. These numbers are forecast to grow over the next decade. The Americans With Disabilities Act (ADA) requires healthcare facilities to make "reasonable accommodation" for the hearing disabled. Legal precedent for the reasonable accommodation standard has been established in a number of suits. While live interpreters and transliterators meet this standard, their use in potentially life threatening situations has major disadvantages in cost, time delay and
20 ~~diversion of medical staff from other critical patients.~~

~~Communication is central to human interaction. Without communication between~~
 persons, the daily processes of our society and human interaction cannot take place, and the
 social processes of healthcare, commerce, public services, education, travel and religious
 observance could not function, as we know them. The efficiency and effectiveness of social
 5 institutions depend wholly on the degree to which essential information can be conveyed,
 processed by the recipient and responded to within an appropriate time frame. Those who
 cannot communicate in such contexts are frustrated, excluded and isolated to varying degrees
 from our society. The costs of such exclusion are significant in terms of unrealized potential;
 unrealized opportunities for commerce; legal liabilities including discrimination, product/public
 liability and compliance with the American With Disabilities Act; and, not least, risk to human
 life and health.

Figures compiled in 1996 by the U.S. National Center for Health Statistics figures
 indicate that 22,044,000 Americans are classified as having "Chronic Hearing Impairment."
 Utilizing U.S. Census population trend data it can be estimated that this number will grow to
 15 nearly 23,000,000 in the year 2000 and to nearly 27,000,000 in the year 2020 or close to 8% of
 the total population.



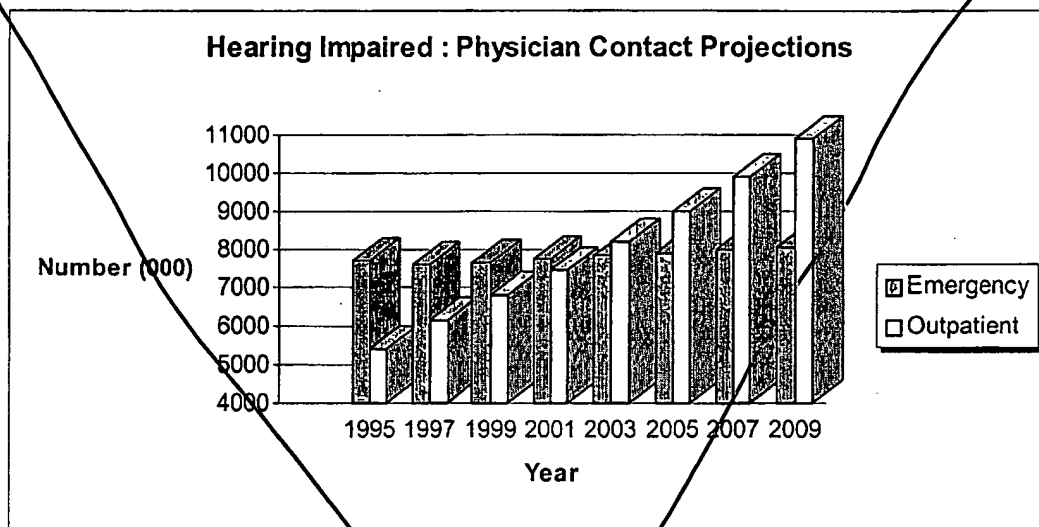
In light of these statistics, it is evident that a significant market need exists for services designed to facilitate communication for the hearing impaired and that this market will continue to grow over the next 20 years. Indeed it may be argued that the market will expand faster than the above prediction given the aural assault inflicted on us by modern city living.

Currently, the market need is served in a number of ways including assistive listening devices, closed captioning, telephone based services such as TTY and TDD, pictograms and sign language. Further, the needs of the deaf and hearing impaired are recognized within the provisions of the Americans With Disabilities Act ("ADA") which requires that services and institutions bound by the ADA make "reasonable accommodation" for those disabled by hearing impairment. The ADA interprets reasonable accommodation as being the provision of "auxiliary aids and services" including "qualified interpreters or other effective methods of making aurally delivered materials available to individuals with hearing impairments." In other words, institutions involved in healthcare, commerce, public services and education are bound to provide "auxiliary aids and services" for the 23,000,000 million Americans currently classified as having chronic hearing impairment.

~~In the healthcare market, notably for emergency room, paramedic and in-hospital~~
 situations, there is a clear and significant need to better serve the requirements of hearing
 impaired patients. Under busy emergency room and paramedic situations delays and confusion
 experienced in communication between medical staff and patients are obviously life threatening
 5 but also have a costly flow-on effect in demanding greater time input from medical staff at the
 expense of other incoming patients. While sign language interpreters and other "auxiliary aids"
 are employed in these situations, they are costly and can involve significant time delays while
 interpreters are located and travel to the facility or emergency location.

Statistics compiled by the U.S. National Center of Health Statistics indicate that in 1995
 there were 67,232,000 physician contacts with deaf or hearing impaired patients at the outpatient
 level and 96,545,000 physician contacts with deaf or hearing impaired patients at emergency
 room level. Assuming a 1% growth rate in emergency room contacts (10% in outpatient
 contacts) every 2 years and a constant 8% of the population with chronic hearing impairment the
 following growth trend of emergency room and outpatient contact with hearing disabled patients
 can be extrapolated:

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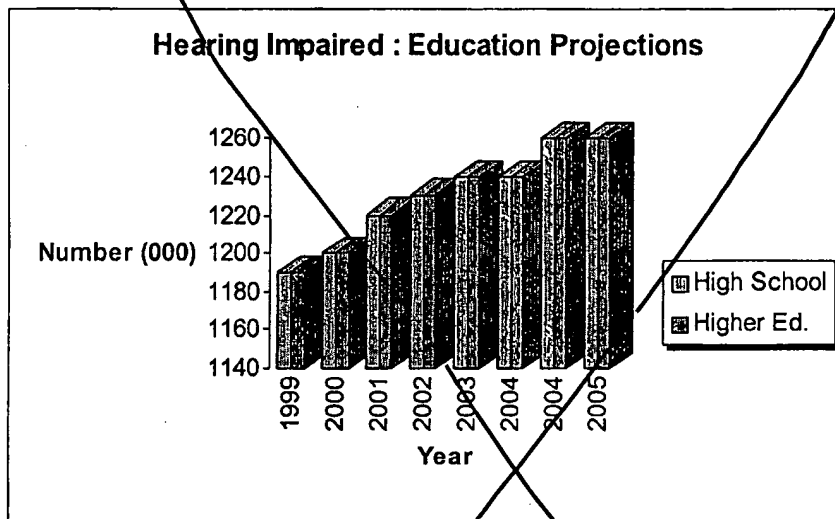
During the next 10 years emergency room contact with hearing disabled patients is estimated to rise gradually from 7,600,000 to 8,100,000 instances per year, and outpatient contact with hearing disabled persons will rise steadily from 6,800,000 to nearly 11,000,000. Each and every one of these instances represents a situation where communication is hampered and the institution involved is required to make "reasonable accommodation" for the needs of the hearing disabled individual. Several legal precedents have now been established in this area.

The California group Disabled Rights Advocates ("DRA") has sued Health Net, a statewide health maintenance organization regarding access to health care by deaf and hard-of-hearing participants. Health Net is a "preferred provider" organization; participants can only use selected physicians who contract with Health Net. Consumers with hearing disabilities, therefore, must choose from these selected doctors even if none of the physicians know American Sign Language. This case is expected to have a dramatic impact on the healthcare industry because HMOs generally do not have policies to ensure effective communication between hearing impaired patients and their doctors. A DRA attorney observed, "Barriers to communication make it impossible for persons who are deaf or hard of hearing to understand

medical terminology and procedures, difficult for such persons to participate in their own health care, and make visits for medical attention frightening and potentially life threatening." Similar cases, in which the U.S. Department of Justice was involved, resulted in substantial settlements by Middlesex Memorial Hospital, Connecticut and the Main Medical Center.

5 Equally, in the area of education a significant need exists for enhanced access by hearing disabled students. A number of lawsuits have already emerged based on the inability or unwillingness of educational institutions to meet the requirement of "reasonable accommodation." In a 1994 settlement resolving the first lawsuit filed by the Justice Department under the ADA, the Becker C.P.A. Review ("Becker"), an organization that prepares over 10,000 students annually to take the national certified public accountant exam, agreed to amend its auxiliary aids policy. If a need can be demonstrated, Becker has agreed to provide qualified sign language interpreters and assistive listening devices to students who are deaf or hard of hearing. Similarly, under a consent decree, the company that runs Bar/Bri, the nation's largest review course for students taking the bar exam, agreed to provide qualified sign language interpreters, assistive listening devices, and Brailled materials to students with disabilities. The Department of Justice had alleged that the course failed to provide appropriate auxiliary aids to students with vision and hearing impairments. Further, the company, Harcourt Brace, also agreed to pay \$28,000 in compensatory damages, pay \$25,000 in civil penalties to the United States, adopt a policy ensuring that auxiliary aids and services are provided, educate its staff about the needs of students with disabilities, and promote the availability of auxiliary aids and services in its advertising.

Using U.S. Census data it can be seen that the incidence of hearing disabled students in high school and in higher education is growing slowly but steadily and it can be expected to exceed 3,500,000 students by the year 2005.



Clearly the need for enhanced communication facilities for the hearing impaired extends across a wide spectrum of activities and institutions ranging from healthcare and education to the "Happiest Kingdom on Earth." The Department of Justice and Walt Disney World recently reached a comprehensive agreement resolving complaints that Disney had failed to provide auxiliary aids for effective communication for persons who are deaf or hard of hearing. Disney agreed to provide oral and sign language interpreters at numerous specified attractions, make captioning systems available, provide transcripts to persons who are deaf or hard of hearing, provide closed captioning on video monitors, and provide assistive listening systems and written transcripts.

~~In one attempt to provide a solution, a video conferencing service has been developed.~~

The system, known as Video Interpreting Program, has been offered by a well-established Maryland company, *Sign Language Associates* ("SLA"), since 1997. The system requires the use of a 3M™ VCS3100 video conferencing system and 3 ISDN phone lines. According to SLA the Video Interpreting Program™ has been used in medical, legal and general employment environments. The service is billed by the minute. At least one problem with this service is cost and efficiency of labor. In this system, the interpreters must be in a specific location for set periods of time, specifically, at a provider site possessing the specialized videoconferencing equipment. This is cost and labor inefficient as, more likely, interpreters will not be needed and utilized consistently, but will be required to be available at the equipment location, thereby, restricting their ability to provide services elsewhere.

In addition, voice recognition software has been developed. The Technology Assessment program ("TAP") of Gallaudet University, Washington D.C. (an internationally recognized education facility for the hearing impaired) is examining automatic speech recognition ("ASR") software, telecommunication relay services, captioning and wireless/cellular services. The current assessment of TAP is that voice recognition is making dramatic progress and while currently useable, does not suffer from "accuracy level, the problem of multiple voices and lack of clear speech" in terms of providing fully automated or live captioning. They do, however, note the ASR capabilities of *Dragon Naturally Speaking* and *IBM Via Voice* software.

In addition, TAP is actively promoting "video chat" to the hearing impaired utilizing Microsoft NetMeeting in conjunction with the ATI All-In-Wonder VGA card. However, such "video chat" is designed for use among the hearing impaired and does not address the problems associated with providing an interpreter in one of the above-described situations. TAP makes no

reference to any commercial service seeking to use Internet video/audio as implemented by some of the various embodiments of the present invention.

Also, telephone utility companies and the cellular telecommunications industry provide an extensive service to facilitate communications by the hearing impaired, particularly through the use of TTY and TDD systems. To date, however, there has not been a cost effective system introduced to satisfy the need for remote visual exchanges between an interpreter, a non-hearing impaired person and a hearing disabled person. Moreover, to date, there is no indication that any service providers has moved to implement a video/audio system based on Internet connections as implemented by some of the various embodiments of the present invention

Live interpreters are an integral part of communication for the hearing impaired and there is extensive network of these skilled professionals both nationally and globally. The Registry of Interpreters for the Deaf, founded in 1964, provides a national organizational structure, professional association and certification process for these interpreters and transliterators. It also embraces international membership. Although live interpreting is advantageous, it fails to resolve the basic problems presented herein, namely, providing an interpreter in a timely and cost efficient manner for various situations, such as, those, which arise in medical emergency rooms and police stations. Live interpreting is, therefore, not seen as direct competition for the embodiments of the present invention. Various embodiments of the present invention may be utilized to fill a market gap – namely that of short-duration location-specific interpreting where both cost and time factors preclude the use of live interpreters.

For example, in a hospital, it may take two hours or more to locate and transport a translator or interpreter to the medical facility so that the person may provide interpretation and translation, to, for example, a hearing impaired patient or family member of a patient. Thus, the

so-called golden hour is lost, because it takes, in this example, over twice as long just to begin questioning the patient in preparation for treatment. In a more typical conventional situation, at least a part of the golden hour may have been lost in transporting a patient to the hospital in preparation for treatment. Thus, the wait for a translator or interpreter to help either the patient or a family member becomes more imperative that it occurs quickly. For example, if only 10 minutes of the golden hour is left that only allows for 10 minutes to track down and transporting the translator or interpreter or any other needed third parties to the hospital emergency room. This is often proven difficult if not impossible to accomplish in this time frame.

In another scenario, as discussed above, a live interpreter might be located and provided via a teleconference system that may be set up, for example at an office specialty service provider, e.g., a Kinkos®. Unfortunately, having the interpreter being viewed at the local office specialty store rather than at the hospital really provides little, if any, ability to treat the patient or consult family members in an effective manner. Further, most hospitals do not have a significant telecommunications equipment for providing video conferencing at their facilities. However, for the hospitals that do have this equipment it is often located far away from the emergency room area and is considerably bulky and difficult, if not relatively impossible, to move from room to room. Thus, this solution of utilizing a hospital's teleconferencing equipment is also considered a failure to solve the above mentioned problems, such as medical facility interpretation, as the videoconference presentation of the interpreter is not in a useful location relative to the emergency room for the patient or the family that may be able to advise medical personnel in the treatment of the patient.

In addition, to the inconvenience of the location of the necessary teleconferencing equipment, the cost is relatively high for the utilization of the equipment even if it is attempted

to be used. For example, teleconferencing equipment typically requires 3 ISDN lines to be able to receive an image on the teleconferencing equipment that provides the resolution and frame speed requisite to enable parties to the conference to be able to understand what an interpreter or translator is "saying." This is because the translator/interpreter is utilizing sign language that requires a visual perception of the translator on the teleconferencing equipment display. When the display and/or the speed in real-time appearance of the display is not adequate to see distinct precise and specific movements of the interpreter or translator, then the communication is degraded and often becomes a complete failure in any attempt to communicate with the receiver of the display of the telecommunications equipment. The receiver may, for example, be the patient or a family member of the patient in the hospital.

A need in the industry exists for a system, method and apparatus that provides an ability to locate and utilize an interpreter and/or translator quickly, for example, in real-time or in relatively near time, without having to maintain or provide a translator or interpreter to be constantly attending and personally present at a specific location of the user of the interpretation or translation services or efforts. Further, a need also exists for a system, method and apparatus that provides for utilization of these interpretive and/or translatable providers via a network, for example the World Wide Web. Still further, a need also exists for a system, method and apparatus that provides for a multi-lingual interpretive or translatable option that is available anywhere in the world in real-time or near real-time.

Finally, a need exists for a system, method and apparatus for utilizing an interpretive and/or translatable ability anywhere in the world by at least one of a user, recipient, and/or at least one third party that may also utilize a network, such as the World Wide Web, if desired in a relatively real-time or in near real-time utilization.

Summary of the Disclosure

Embodiments of the present invention are best understood by examining the detailed description with reference to the drawings. However, a brief summary of the disclosure follows.

Embodiments of the present invention comprises a system, method, and apparatus that provides for the utilization of a relatively real-time or near real-time interpretation or translation that may be utilized preferably for a relatively short duration of time, that is also preferably utilized with a network. A preferred embodiment of the present invention provides online, real-time, short-duration interpreting services in a network-based format. The service focuses directly on facilitating communication for the hearing disabled in situations which are highly location-specific and in which the use of live interpreters is neither cost nor time-effective or is otherwise inconvenient.

The interpreting system comprises at least one provider computer, such as a server. The provider computer is capable of communicating with user computers via a network. In one preferred embodiment, the provider computer provides a series of web pages that allow access to the interpreting system, including, but not limited to, a request for service page, wherein a user can access the system and input a request for interpreting services.

In preferred embodiments, the user, such as, a hospital, accesses the interpreting system via a user computer, wherein the user computer is connected to a network. As discussed above, the interpreting system is accessed via a provider computer, wherein the user computer and the provider computer communicate via the network.

Once the user accesses the interpreting system, the user provides information directed to the interpreting needs. This information includes, but is not limited to, time restrictions (when

the service is needed), subject matter of interpretation, anticipated length of service, age of hearing impaired person, and contact information.

Upon receipt of the request for services, the interpreting service sends out a request to all available interpreters. Any available and qualified interpreter that is qualified for the type of interpretation required, accesses the interpreting system and identifies himself or herself as available. An interpreter is then chosen. The chosen interpreter contacts the user via the network and performs the required services.

In a preferred embodiment of the present invention, the user, such as a hearing impaired person or third party, does not pay the interpreter directly, but rather, pays, for example, a monthly fee. In some preferred embodiments, the user pay a monthly fee for either a limited or unlimited amount of access and use of the interpreting system. Further, an entity, for example, a hospital may pay a monthly fee for the right to utilize the interpreting system in treatment of its patients and communication with others that may assist the hospital in treatment of its patients.

In addition to monthly fees, in alternative embodiments, the user can pay based upon a variety of factors, including, but not limited to, a per session fee, a per translation fee, a fee based on the number of words or data translated per use, the type of interpretation provided, the quality and/or certification of the interpreter, the relative cost of the linking of various parties and interpreters to the network, the availability and time of day, and whether a preference was indicated by the user for a particular translator or qualification of translator, and the physical location of the interpreter or other parties to the session. Alternatively, the user may also pay based upon the cost of the transmission links, or a percentage of the cost of either a portion or all of the translation and/or interpretation direct or indirect costs. Also, the fee may be based upon a licensing or other type of intellectual property payment scheme such as a per translation or per

transaction or session cost or based upon the percentage of time utilized for translation versus other portions of the communication session and/or any other method or allocation or charge or costs that the user may so desire and/or the provider may wish to provide.

5

Brief Description of the Drawings

Embodiments of the present invention are described in detail herein with reference to the drawing in which:

Figure 1 illustrates a portion of a first embodiment of a virtual Internet drive method and device, in accordance with the principles of an embodiment of the present invention.

Figure 2 depicts a preferred embodiment of the present invention during use.

Figure 3 depicts a preferred embodiment of a hand held two user computer device, wherein the two user computers are housed within a single housing.

Figure 4 depicts a side perspective of the embodiment shown in Figure 3.

Figure 5 depicts usage of the embodiment shown in Figure 3 by two users.

Figure 6 depicting use of the two user computer device utilized by a two separate users each having a separate two user computer device.

The accompanying drawing, wherein like numerals denote like elements, are incorporated into and constitute a part of the specification, and illustrate presently preferred exemplary embodiments of the invention. However, it is understood that the drawing is for the purpose of illustration only, and is not intended as a definition of the limits of the invention. Thus, the drawing, together with the general description given above, the detailed description of the preferred embodiments given below serves to explain the principles of the invention.

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Detailed Description of the Preferred Embodiments

An embodiment of the present invention is illustrated utilizing functional flow charts as illustrated in Figures 1. The present invention may be implemented on any computer that has access to a network, e.g., the World Wide Web, as well as hand-held devices such as personal communication devices, including, but not limited to portable telephones, personal appointment managers, a Palm Pilot, and other Internet access devices such as Web TV. A network access itself may be achieved by radio frequency link, telephone modem, cable modem, high-speed DSL, wireless connection or any other network communication technique conventionally available.

As the World Wide Web access is improved, such that the speeds between the user and the World Wide Web are increased so that the user may download and upload data more quickly, the user may continue to enjoy an ever-increasing benefit from the utilization of various embodiments of the present invention, as compared to conventional techniques.

Preferred embodiments of the present invention are directed to a system, method, and apparatus for providing relatively real-time or near real-time interpretation, wherein the need for interpretation is a relatively short amount of time. In preferred embodiments, the interpretive system is provided via a network. For example, in one embodiment, communication may be facilitated for the hearing disabled in situations that are highly location specific, such as, a hospital, police station, car rental counter, or retail store in which the utilization of live interpreters is neither cost nor time-effective.

In preferred embodiments, the interpreting system comprises at least one provider computer, such as a server. The provider computer is capable of communicating with user

computers via a network. In one preferred embodiment, the provider computer provides one or a series of web pages that allows access to the interpreting system, including, but not limited to, a request for service page, wherein a user can access the system and input a request for interpreting services.

5 The provider computer is accessible to a plurality of interpreters via individual computers capable of communicating with a network, or any other means of accessing the network, such as a palm pilot, upon which interpreting services may be displayed in real time or near real time. A subset of the plurality of interpreters make themselves available via the network, or any other communications means, such as, a telephone, pursuant to a predefined schedule. In preferred embodiments, an interpreter is available throughout the network, regardless of user geographical location, 24 hours a day, 7 days a week. In preferred embodiments, an interpreter may become available to the system not pursuant to a predefined schedule, but at the time or times the interpreter desires to make his or her services available via the network.

10 In preferred embodiments, the user, such as, a physician or aide in a hospital, accesses the interpreting system via a user computer, wherein the user computer is connected to a network. As discussed above, the interpreting system is accessed via a provider computer, wherein the user computer and the provider computer communicate via the network.

15 Once the user accesses the interpreting system, the user accesses the interpreting service's request web page, customer service or scheduling department, or other appropriate live or digital representative of the interpreting service and provides information directed to the interpreting needs required. In some preferred embodiments, the user may request the first available interpreter. In other preferred embodiments, the user may provide a plurality of other specific requests and other data to assist in matching the user's interpretation requirements. This

information includes, but is not limited to, time restrictions for the providing of the service (when the service is needed), acceptable price or price range of interpreter, the requirement of acceptance of the user's insurance to cover all or part of the services to be provided, subject matter specialty of interpretation (legal, medical, diplomatic and/or technical areas), legal or organizational certification of interpreter, one or more specific foreign languages required for interpretation, anticipated length of service required, preferred gender of interpreter, age of hearing impaired person (e.g., if a child communication specialist is required), parental consent (if hearing impaired person is a minor) geographic proximity of the interpreter to the user, previous evaluations, ratings or recommendations of the interpreter, previous use of the interpreter by the user, request for a particular interpreter, request to include advertising, request to exclude advertising, and other criteria, and user contact and payment information, including promotional participation data. In some preferred embodiments, the user fills in a series of data boxes online to transmit the aforementioned data. In still other preferred embodiments, the user is provided with a pull-down menu that allows for users to choose from a variety of predefined menu options, wherein the options define the type of service request desired. Once the user has filled in the request page, or otherwise provided information regarding the type of service requested, the user submits and transmits the information to the provider computer, representative person, department or digital agent. In some preferred embodiments, the aforementioned request is performed telephonically. In still other preferred embodiments the aforementioned request is performed via audiovideophonic communication. In still other preferred embodiments the aforementioned request is directed to providing an interpreter which may be geographically proximate to the user so as to enable the interpreter to effectively translocate to the place where interpretation services are needed for further or extended on site

interpretation services. In still further preferred embodiments, the request is directed to an interpreter capable of providing interpreting services en route to the location of the user as by mobile wireless connection to a network.

Upon receipt of the request for services, the interpreting service matches the criteria for the interpreter requested and effectuates an audiovideographic connection between the interpreter and the user. In preferred embodiments, the interpreting service transmits a request to all available interpreters. Any available and qualified interpreter, that is, qualified for the type of interpretation required, accesses the interpreting system if not on-line, and identifies themselves as available. An interpreter is then chosen. The chosen interpreter contacts the user via the network and performs the required services. In other preferred embodiments, the interpreting service effectuates a connection between an "on call" or predesignated interpreter and the user requesting the services.

The above-described system is capable of being used in virtually any type of institution, retail establishment, organization or individual home. Indeed, in some instances, some of the hardware already exists. For instance, healthcare institutions already possess good computer facilities located in service transaction areas such as emergency rooms and outpatient clinics. Thus, unlike existing video conferencing services, no new equipment is required for at least some of the embodiments of the present invention. Moreover, healthcare facilities are already familiar with the use of Web-based technology to enable remote consultations such as radiology. Thus, no substantial behavior modification is required of the customer.

A preferred embodiment may be utilized on similar public sector and commercial institutions that meet similar market criteria: the requirement to meet the ADA "reasonable accommodation" standard, have existing computer facilities located in or adjacent to public

interface or service areas. This may, e.g., include Police and Paramedic agencies, Social Security, Immigration, Police, Courts, and Department of Motor Vehicles as well as commercial applications such as airports, rental car companies, amusement parks, banks and department stores. Similarly, the educational market offers downstream potential with continued
 5 development of automatic voice recognition captioning for longer duration simultaneous translation.

Yet another embodiment may be utilized for individual home subscribers. This would permit hearing disabled individuals to facilitate communication with family, friends and other contacts thereby enhancing their quality of life. In addition, it would enable these subscribers to undertake regular calls and daily contacts with emergency services, doctors, utility companies, etc.

In some preferred embodiments of the invention, third party vendors of goods and services utilize the interpretation services to provide sign language advertisements, introductions, information and education regarding their goods and services to the
 15 aforementioned subscribers. In still further embodiments, fourth party agents and affiliates may use the interpreting system to perform such advertising, introduction, information and education services in exchange for consideration, including, a fee for any goods or services purchased by the user.

Yet another embodiment may be utilized, that incorporates global application for its
 20 hearing impaired interpreting concept with flow-on implementation to offer multilingual, foreign language interpreting for its core customer base.

The online, real-time interpreting service developed in various exemplary embodiments for the hearing disabled directly targets this market by taking advantage of a clearly identified

need, an established legislative imperative in the form of the Americans With Disabilities Act and the emerging technology which now allows networked real-time imaging via the Internet. As outlined in the following section, preferred embodiments that may provide healthcare and education sectors with rapid expansion envisaged into those areas of commerce which involve substantial person-to-person interface such as amusement parks; airports – including information booths, ticket counters, customs and immigration facilities; rental car companies; and major shopping malls. It is noted that the existing Internal Revenue Code (Title 26, Section 190) allows tax deductions of up to \$15,000 annually for the removal of barriers to people with disabilities.

Hearing impairment is not a disability peculiar to the United States and hence the opportunity exists to establish yet other arrangements of the present invention on a global basis through a multinational network of qualified interpreters linked by the Internet or other wide area computer networks. Preferred embodiments of the present invention are capable of operating on a global basis through a multinational network of qualified interpreters linked by one or more common networks. In some preferred embodiments, the interpreting system provides real-time simultaneous language translation in a location-specific manner worldwide. The service for hearing impaired is in itself a significant, however, the possibility of simultaneous language translation via the Internet or other wide area networks, can provide the facilitation of communication in a wide array of services and situations.

In the travel industry this “point-of-sale” service may be utilized by airlines, rental car operations, hotels, cruise operators and the like. It has direct application for point-of-entry interpreting for immigration desks, customs officials and transport operators. In the education sector it suggests the possibility of online education beamed globally yet available simultaneously in a number of different language translations. In business it has future potential

for allowing global executives to utilize their own, trusted sources for interpreting and avoids the necessity to rely on host country interpreters who may be unfamiliar with the technical terms being used, unfamiliar with the business or negotiating style of the executive and who may pose a significant industrial espionage threat.

5 Preferred embodiments of the present invention may be implemented in a rapid, albeit preferably sequenced, expansion into this area based on the establishment of a global exchange linking established interpreting and translation services world wide in a real-time online network.

Preferred embodiments provide an online real-time short duration location specific interpreting service geared initially to the needs of the hearing disabled in the United States but with subsequent second stage expansion to enable coverage of key global markets. It is envisaged that the third stage of expansion would move beyond the hearing impaired to embrace real-time simultaneous language translation in a multilingual and multinational-networked format. The service will be capable of operating on both a point-to-point and a multi-conferencing basis as necessary. The integrated use of voice recognition is planned for ongoing development and implementation of the service.

At present, the hearing needs of the hearing disabled are catered for by the use of such instruments as assistive hearing devices, paging devices, telephonic devices including TTY and TDD, pictograms and both sign language and oral interpreters. All these instruments ameliorate the barriers faced by the hearing disabled. Moreover, all these instruments are classified under the Americans With Disabilities Act as "auxiliary aids and devices" recognized as meeting the "reasonable accommodation" prescription of the Act. However, in certain key circumstances these "aids and devices" have significant drawbacks. For example, the provision of qualified

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sign language or oral interpreters must often be arranged up to two weeks in advance and in emergency or life threatening situations there can be both unacceptable delay and excessive cost in obtaining interpreters.

In one preferred embodiment, the present invention provides for the introduction of an online exchange linking a network of qualified sign language interpreters, oral interpreters, simultaneous transcribers and, where appropriate, voice or motion recognition captioning. The exchange would utilize current Internet and wide area computer network technologies allowing live audio and video feeds.

Arrangements of the present invention may also be utilized or, e.g., integrated with, e.g., Real Networks, CUSeeMe, Net Meeting and other software solutions that facilitate worldwide video and audio communication and data collaboration across the Internet. In addition, the potential use of the emerging Bluetooth chip technology would allow remote wireless communication in local networks, for example within emergency rooms and hospital wards, thus allowing mobility on the part of the user such as required by an emergency room physician in an examination room. These are situations where short-term interpreting is required (short-term generally being of periods less than approximately 30 minutes but may be even less, e.g., 25, 20, 15, 10, 5, or even less than 1-5 minutes in a location-specific or transaction-specific environment and for which the use of a physically present interpreter is neither cost nor time effective.

In reference to a preferred embodiment in Figure 2, the network could operate as follows in, for example, the case of an emergency room physician treating a hearing disabled patient:

- Utilizing a PDA, laptop, Internet-capable cellular phone, or similar handheld device, capable of receiving, displaying and broadcasting the remote sign language or foreign language interpreter's signing and vocal communications, such as by flat screen monitor

and speaker, and capturing and transmitting the hearing impaired person's signing, and the physician's voice, such as by camera and microphone devices, the physician would log on to the network via the hospital internet service connection;

- The present invention's menu would provide a choice of icons for interpreting services, e.g., labeled in both script and pictogram;
- The physician user would choose the type of service, price, interpreter qualifications, time to commence the services, and any other user selectable request criteria;
- A user, e.g., a physician would click to the required icon for connection;
- Service would search the network and connect to the first available interpreter;
- Audio and video connection would be established and interpretation would then begin utilizing voice communication between the physician and the interpreter and sign language between the sign language speaking hearing impaired patient;
- As necessary, required or requested, communications by one or more of the parties can be made available in scrolled text on the screen generated by real time stenographic or voice recognition means.
- The interpreting transaction would be recorded in file format for playback as necessary for checking accuracy or in the event of liability or dispute.

In some preferred embodiments, the user of the service is a subscriber to the service

wherein access to the service is password protected. In some preferred embodiments, the user pays a monthly service fee to have access to interpreters and, pays a fee to the interpreting service for actual use of the interpreter on a fee for time basis.

In some preferred embodiments, the user pays for the services on an "as needed" basis wherein access to the service is preceded by the presentation, authorization and acceptance of a credit card, debit card, digitally signed contract or other payment means.

In some preferred embodiments, the interpreter(s) is (are) directly paid for all or some of sums due to the interpreter(s) by the aforementioned "as needed" payment is made by the user.

The exchange would link participating sign language or oral interpreters regardless of the interpreter's physical location. In preferred embodiments, interpreters would be available on a twenty-four hour basis for all users, wherever located, despite the potential time zone differentials that may arise.

In some preferred embodiments, participating interpreters would be required to meet specified participation criteria, such as certification from the appropriate U.S. certifying body or bodies (e.g. Registry for Interpreters for the Deaf). Membership of the exchange would be subject to a controlled application process and would entail, e.g., an annual membership fee. In addition, participating interpreters must have access to computer equipment meeting predefined specifications or be required to lease such equipment from the provider or utilizer. Each participating interpreter would be required to carry a specified level of public liability insurance over and above that carried by provider or utilizer.

In preferred embodiments of the invention, look-up and verification of a selected interpreter's insurance status (e.g., to determine if the required policy is valid and in force) by access to an appropriate insurance data base or by other means, may precede the connection of the user with the interpreter, and if the results of such look-up reveals that the interpreter is uninsured, underinsured or that there is some other liability concern, the interpreter could be then

made unavailable for to provide the requested services.

A provider or utilizer portal may be located with an existing major service provider, who will be offered exclusive rights to host the service for a fixed contract period. This provider will be given first right of refusal for the subsequent envisaged expansion of the provider or utilizer platform, i.e. the second stage development into providing hearing impaired coverage for selected global markets followed by a third stage expansion into providing simultaneous translation on a multilingual and multinational basis.

Targeted institutions will be offered a service subscriber package entailing an annual subscription rate covering a guaranteed amount of time on the service per month. In the manner of telephone calling cards subscribers will be able to "top up" their monthly subscriber time allocation should they appear close to exceeding their normal subscription rate. Member institutions will be designated as "The Provider or Utilizer Service Members" and their contact details circulated in directory form to the hearing disabled across the United States. Signs bearing the provider or utilizer logo will be supplied to member institutions for display in public areas thus promoting the institution's use of the provider or utilizer Service. In addition health insurers will be encouraged to provide priority coverage for insured health impaired patients to seek treatment at "Provider or Utilizer Service Member" institutions and clinics.

The provider or utilizer may also enable, because of the above, create a large secondary market for hearing disabled individuals to seek personal subscriptions to The Provider or Utilizer Service. Such individuals would be able to log into the service from a home or office computer and utilize the video service to communicate freely with friends, relatives and business associates. In addition, personal subscribers can use the interpreting service to facilitate the regular telephone calls and daily contacts that the hearing enabled take for granted. This would

include emergency calls, calls to healthcare professionals to seek appointments or prescription refills, calls to government agencies such as IRS and Social Security, calls to utility companies and calls to taxi services, airlines and the like. Again personal subscribers would purchase a monthly access package with the capability to "top up" on a month-to-month basis should their
5 circumstances so demand. The ability for hearing impaired individuals to have access to such a service not only offers considerable potential to improve their quality of life but also offers a vehicle for increased independence and personal confidence.

As previously described, the substantial number of Americans classified as having chronic hearing impairment, an estimated 23,000,000 in the year 2000. This represents a substantive market for a wide range of goods and services that can be exclusively promoted to this target audience via the personal subscription to the Provider or Utilizer Service. Access to this market (a market that is in large part unreachable by existing vehicles such as telemarketing, radio and television that rely on audio delivery) via the use of the Provider or Utilizer Service enables third party vendors to use preferred embodiments of the instant invention to provide a
15 useful promotional vehicle for a large number of goods and services.

In turn, the establishment of a core membership of subscriber healthcare institutions then provides the platform for expansion of the service to other institutional target sectors who – like the healthcare industry – are subject to the "reasonable accommodation" standard of the Americans with Disabilities Act, have high levels of public interface and who have existing
20 computer facilities (preferably with broadband access) already located in or adjacent to public interface areas such as service desks. Such targets will include government agencies such as Social Security offices, Immigration & Naturalization Service, Public Housing agencies, Courts, Police Departments, Department of Motor Vehicles and Inland Revenue Service. Flow-on target

subscribers that meet the above criteria would then include more commercial applications such as airport information desks, airline lounges, rental car companies, hotels, amusement parks, supermarkets, drug stores and department stores. Again, all these target sectors have a requirement for short duration interpreting of customer interactions taking place at the point of service transaction. These are all situations where, in the absence of a services such as the Provider or U preferably offers, there is considerable potential for confusion, frustration, discrimination and the inevitable deterioration of customer service. In addition, with a potential target audience amounting to some 8% of the American population there is a clear commercial incentive for such private sector outlets to become subscribers and to be aggressively promoted to the hearing disabled as offering this service – particularly in view of the tax credits which apply (see Appendix 1).

Similarly, the educational market is seen as a substantial market opportunity, particularly in association with online education providers or in classrooms offering a standardized, repeatable lesson format, e.g., technical training where the need is not for short duration, time sensitive interpretation but can be delivered in a prepackaged, repeatable format thus offsetting the current cost of delivering real-time interpreting. Real-time interpreting of, for example, a 3 to 4 hour graduate class would be prohibitively expensive for most educational facilities. However, educational facilities increasingly have high levels of computer technology installed or available for in-class access by students. Also, the provider or utilizer may also incorporate or utilize voice recognition, so that it will be able to offer in the short-term a future a cost-effective closed captioning service via the Internet or wireless device that would enable hearing impaired students to effectively and unobtrusively participate in the class utilizing a voice recognition caption stream on the student's laptop device.

In a business method arrangement of various embodiments of the above-described invention, a subscription may be utilized. Thus, a fee may be paid, for example, at a regularly set time, for example, every month in order to be provided with and/or utilized and/or obtain translation and/or interpretation up to a certain time limit or may even be unlimited depending upon the subscription price. This would particularly be beneficial too, for example, police departments, hospitals and the like and other community service organizations because this would provide for essentially a fixed fee amount that can be more readily budgeted by these organizations and thus provide a more cost effective and cost conscious provision of services for the hearing impaired by these organizations. Further, it will allow these organizations to more accurately predict their budgets so that they may provide the best utilization of their often limited funds for services including providing for access to at least some of the various arrangements and embodiments that comprise the present invention.

In yet another alternate embodiment of the present invention, a portion or all of the translation or interpretation including but not limited to any of the arrangements that are described below with reference to Figure 1, there may also be provided with a reduced fee or even a free Internet service provider account such as a free DSL account. Alternatively, and/or in conjunction with the free DSL account, other arrangements and preferred embodiments of the present invention may be provided with a type of advertising such as Web-based banner, audio, visual, audiovideo and/or multimedia "commercials" or other advertising or surveys that may be presented and/or interacted with by the user and/or interpreter(s) at any time before, during and/or after the translation or interpretation is being provided. In other preferred embodiments, such advertisements may alternatively be implemented so that said advertisements are displayed when there is, for example, silence for a certain amount of time or the user indicates that it is a

non-critical communication and that information such as advertisements may be allowed in addition to the translation and/or interpretation being utilized. In still other preferred embodiments, such advertising may exist in a user opt-in or opt-out configuration. In still other preferred embodiments, the presence or absence of such advertising may be associated with increases or decreases in the price to the user for providing the interpreting services and/or the payment to the interpreter(s) for providing the interpretation or translation service.

The various arrangements and embodiments of the present invention may also be utilized with the above and/or with a provision for a relatively reduced fee and/or free long distance communication configuration or enablement option for the user, for example, by utilizing the World Wide Web to transmit other types of communications such as voice while also utilizing the translation and/or interpretation for a hearing impaired person.

In yet other alternate arrangements and embodiments of the present invention, the system, method and apparatus may engage interpreters that are transported in person to a specified location, for example, a police station or hospital emergency room, or in a preferred arrangement, by providing the interpretation or translation to the subscriber and/or to the user or any other third party via a network, for example, the World Wide Web en route to the specified location.

In yet other alternate arrangements and embodiments of the present invention, the above subscription business method may be utilized with present interpreters that show up or are transported in person to the various locations where such services are requested, for example, police stations or hospital emergency rooms, or in a preferred arrangement by providing the interpretation or translation personnel to the subscriber and/or to the user or any other third party via a network, for example, the World Wide Web.

In the various alternate arrangements and embodiments that utilize as a portion of the communications network, there are many further arrangements and embodiments that may be understood in the practice of this invention. First, for example, a subscriber or utilizer may utilize the network to connect with a boiler room of interpreters that are on standby and ready to immediately interpret for a subscriber when contacted. Alternately, the interpreter or a number of interpreters may be, for example, home based or offsite location-based and may be utilized as an overflow to the boiler room or vice versa where the preferred interpreter is home based and the overflow of requests, when the supply of home based interpreters is exceeded is handled by a boiler room of interpreters. Of course, an essentially boiler room may be created by linking a plurality of home based or other offsite based interpreters. In preferred embodiments of the invention dynamic allocation of interpreters on the basis of availability and demand is accomplished either automatically by the service's network software or by one or more human dispatchers.

In yet another alternate arrangement of the present invention, the interpreters may instead be located by the subscriber or a third party by utilizing a wireless technology, for example, a mobile phone that indicates to the interpreter to contact through preferably a specific website address the subscriber and begin interpretation. Interpretation may be provided visually, for example, by utilizing the mobile phone in connection with a laptop and a small CCD camera mounted with a laptop or separately so that the interpreter may immediately provide services anywhere in the world. In addition, the interpreter may also at the same time obtain or be automatically provided transportation, for example, by the hospital or via other third parties or by the interpreter themselves hailing a taxi, for example, and being transported while continuing to interpret in a wireless embodiment of the present invention.

In yet other alternate arrangements of the present invention and particularly in a plurality of preferred arrangements that utilize a wireless portion may thus provide worldwide coverage. Also, multi-lingual coverage may be provided, for example, a Spanish speaking hearing impaired person may utilize a Spanish speaking interpreter that is actually located in Spain when
5 there are no Spanish interpreters remaining more near by relative to the hearing impaired person. Or vice versa, the Spanish speaking hearing impaired person may actually be in Spain and wish to utilize a specific facility such as a renowned hospital and an interpreter that speaks both English and Spanish that may, for example, reside in the USA and thus obtain the desired translation and interpretation by utilizing yet another arrangement of the present invention preferably in a network environment.

In yet other alternate arrangements of the present invention, the linkage between, for example, the interpreter and the hearing impaired person may be predetermined or may be implemented in real-time depending upon input from any one of the interpreter, the hearing impaired person, and/or any other third party or a combination thereof. Thus, in one exemplary embodiment of the present invention, the hearing impaired person may indicate a preference for a specific interpreter such as one that has been utilized previously by the same person and the hearing impaired person wishes to utilize the same interpreter again. The routing between the parties may also be accomplished by other at least partially predetermined and/or real-time decisions based upon software algorithms that include choosing the routing based upon the
20 physical location of the interpreter, the hearing impaired person, and/or any other third party, on the previously described preference of one or more of the parties, based upon the cost of interpretation and/or connection, based upon the availability of any one of the parties involved,

and/or based upon the skill level, and/or whether or not the interpreter is state and/or government approved or certified and the like.

Further, other changes to the routing may include rating and/or acknowledgment of any specialized knowledge on a specific subject that the interpreter or any other third parties have or a rating based upon past performance may also be utilized or incorporated with the other factors in deciding the routing to be utilized. Again, this selection may be via a predetermined algorithm, a third party that is monitoring and/or even arbitrarily deciding the routing between the hearing impaired person and any other party, and/or may be determined solely by any one of parties including the hearing impaired person themselves.

In a business method application of various embodiments of the present invention, there may be a cost difference to the user and/or any other third party depending upon the skill level and/or experience in communicating that the interpreter has. Also, a menu may be provided to any of the connected parties, for example, the interpreter, the hearing impaired person, and/or any other third party that may be utilized to select or indicate a preference, for example, a certified or licensed interpreter and/or any of the other above-mentioned preferences as desired. Depending upon these choices may indicate an instantaneous change in cost in real-time or near real-time for the continuing interpretation being provided. Thus, as a higher skill level is desired a different interpreter may be provided, for example, for a few minutes and then the hearing impaired person may shift back to a first or even a third interpreter that is provided a lower rate, for example, in more calm family discussions as opposed to when a higher priced interpreter may be desired that may be familiar, for example, with complex medical terminology and the like in evaluating treatment with a doctor.

Other arrangements for providing a charge include a charge or fee by subscription, for example, a fixed cost per month, or maybe utilized with a Visa or MasterCard or other credit card that preferably utilizes a chip in the card so that a more informed knowledge of any of the connected parties maybe instantly ascertained, at least in part, by utilizing information contained
5 in the chip on the charge card or other identity or informational card being utilized in connection with the various embodiments of the present invention.

Yet other embodiments may utilize a fixed fee for a base number of minutes or time period amount or have a cost associated with the excess units of time that are utilized. For example, charging an extra \$2.00 a minute for any utilization over 30 minutes a month. Other cost ranges may include, for example, other services that may be provided along with the visual interpretation, such as, a real-time transcript or a transcript that is provided at a later date, a video tape, and/or audio that may be analog or digitally or any other technique as is known in the art to record and preserve the interpretation activity.

Thus, various embodiments of the present invention may also be utilized to generate live or real-time transcripts, as well as a recordation of any or all of the communications and/or interactions of any of the parties.

Some of the parties are illustrated in Figure 1 and may be involved in the utilization of various embodiments of the present invention.

In Figure 1, a network 10 is utilized to provide a communication or a connection between
20 any combination or arrangement of at least one or more of a hearing impaired person ("HIP") 12, a monitor ("M") 14, a teacher ("T") 16, an interpreter ("I") 18, and/or any other third party ("O")
20. The connections are quasi connections between any of the parties 12, 14, 16, 18, 20 and the

network 10 may be accomplished by any technique known in the art, for example, wireless connections, land-based connections, satellite connections, and/or any combination and the like.

More specifically as shown in Figure 1, the HIP 12 is a utilizer of the translation or interpretation of this exemplary arrangement of the present invention and may also be, for example, a family member or other close associate of the user or any other person the user may designate. The M 14 of the network 10 is preferably utilizing this exemplary embodiment of the present invention in order to, for example, monitor, measure, rate, or otherwise provide a type of quality control, evaluation, or insurance of an appropriate level of quality or service by the interpreter. The monitor may also provide the above evaluations as described for the T 16 and/or any O 20 and even if desired for the HIP 12, if desired. In fact, a cost attribution or implementation of a business method implementation of the present invention may also include a rating or other evaluation of the hearing impaired person themselves to adjust the price based upon economic class or level, government assistance available, and/or tax credits, or may even be based upon the relative skill of the hearing impaired person and the price adjusted accordingly based upon the ability of the hearing impaired person to utilize the embodiment of the present invention in a satisfactory or efficient manner.

The T 16 is preferably utilizing this exemplary embodiment of the present invention in order to teach the hearing impaired person wherein the teacher needs that interpretation or translation in order to perform the teaching exercise with the hearing impaired person. Of course, it is understood that the teaching exercise need not be related in any way to sign language or the hearing impaired activities but instead may be any teaching situation, for example, teaching mathematics, art, or any other subject as desired by any of the parties.

The I 18 may include, without limitation, a translator and/or transliterator or any other aid or assistant or similar type of interpreter that may be utilized for any person needing such help, preferably those understood to fall under the American With Disabilities Act.

Finally, the O 20 may comprise, for example, police, hospital's administration and staff, doctors, relatives that are not at the hospital but wish to sit in on the consultation with the hearing impaired patient, and/or additional hearing impaired family members that may also wish to utilize and be aware of the communication transpiring between the hearing impaired person and any other person or entity that is connected via the network in this exemplary embodiment of the present invention.

Yet another arrangement of the present invention may include providing the interpretation on a time delay basis, for example, where the delivery of the interpretation is at a point in time substantially after the provision of the speech and/or sign language to be interpreted and translated. Thus, for example, in one exemplary embodiment a person may speak into a recording device and then at some later time, for example, 12 hours later, the recording may be transliterated and then provided as desired to the hearing impaired person at a convenient time that they request. Also, the initiator or verbal message user in this example may specify time for delivery of the translated communication. Of course, it is understood that yet another arrangement of the present invention includes a video tape or a recordation of the visual sign language by the hearing impaired person that has been transmitted through a translator and the, for example, spoken interpretation is then later delivered, for example, as a voicemail to the intended recipient. Similarly, any transcripts or recordations or the like may also be provided at a time delay and the cost of the same in the use alternate embodiments may be adjusted accordingly, if desired.

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In yet other arrangements of the present invention in an exemplary embodiment a synthespian arrangement may be utilized, wherein a synthespian is a digitally generated interactive actor, avatar, agent or a digitally morphed, modified or enhanced interactive recording of a real person. Thus, for example, a hearing impaired person may utilize a network to communicate with a receiver or an interpreter or a recorder that may be later viewed by the interpreter. The interpreter may then interpret the sign language communication into the spoken language, and provide it to, for example, a third party. However, this example prior to the viewing by the interpreter of the hearing impaired person's communication via sign language, a computer generated synthespian may, for example, be utilized to mask or alter the appearance of the hearing impaired person so that the interpreter will not know the true identity of the hearing impaired person in order to better safeguard and provide a semblance of privacy for the hearing impaired person. Alternatively, in a similar fashion the interpreter may receive a spoken communication and translate it into sign language for the hearing impaired person. However, prior to viewing of the interpretation by the hearing impaired person, the visual image is passed through, for example, a computer processing unit that then converts at least a portion of the image of the interpreter into a synthespian type image. Thus, the hearing impaired person only sees an artificial or synthespian interpreter and not the actual physical look and/or identity of the interpreter so that the deaf person and/or the interpreter may be provided with a relatively secure and/or a relatively private type of communication. Thus, the hearing impaired person may later "bump" into the interpreter on the street and yet neither would recognize the other, thus, providing some semblance of privacy for the hearing impaired person and/or the interpreter and/or any other third parties.

In preferred embodiments of the instant invention, the aforementioned synthespian substitution or "masking" of the identities may be applied to the hearing impaired user, the interpreter, any third party users, such a physician using the service in an emergency room and/or any remote third party participant in the videoconference. In further preferred
5 embodiments, the synthespian substitution or masking of identities may be performed in real time by sufficiently fast processing of digital data corresponding to the images and voices of the aforementioned parties.

Yet other alternate embodiments of the present invention include utilizing the interpretation over the network as a portion of, for example, a video dating service, wherein the translator and/or interpreter may be provided in relatively real-time to assist a hearing impaired person in a World Wide Web based dating service and the like. Similarly the various
10 embodiments of the present invention may be utilized so as to conduct an adult video conferencing communication wherein the communication is primarily of a sexual nature. Further, a video chat room or a chat room that is provided with a video link to the hearing
15 impaired person may utilize, for example, streaming video to enhance the communications via the interpreter at a World Wide Web chat room. Thus, the hearing impaired person may make arrangements to "meet" at a specified time on a website chat room wherein the hearing impaired person utilizes various aspects of the present invention to have the hearing impaired person's
20 communication be translated into verbal or spoken communication and vice versa from the other parties participating in the chat room activity. This may be done either in a time delay fashion as described above that is a message to the chat room or alternatively in a relatively real-time or near real-time application in yet another embodiment of the present invention. It is particularly applicable for utilizing various embodiments of the present invention in the more recently

implemented video chat rooms that may be engaged in the utilization of a network such as the World Wide Web.

In further embodiments of the instant invention, the providing of interpreting services using the system, method and apparatus disclosed herein includes the provider's, user's and/or subscriber's use of tax incentives, such as tax credits as set forth in Appendix 1 hereto, provided by one or more governmental entities for the purchase, installation, upgrading and/or maintenance of equipment and/or purchase of services and/or subscriptions for the above mentioned interpretation and/or translation services .

Appendix 1

**Disability-Related Tax Provisions Applicable to Businesses
Excerpted from the ADA Handbook; Appendix G, Tax Provisions**

The three disability-related provisions in the Internal Revenue Code applicable to businesses described below are of particular interest to businesses and people with disabilities:

1) Targeted Jobs Tax Credit (Title 26, Internal Revenue Code, section 51)

Employers are eligible to receive a tax credit in the amount of 40 percent of the first \$6,000 of first-year wages of a new employee who has a disability. There is no credit after the first year of employment. For an employer to qualify for the credit, a worker must have been employed for at least 90 days or have completed at least 120 hours of work for the employer. The Revenue Reconciliation Act of 1990, Public Law 101-508, extended this tax credit through December 31, 1991.

2) Tax Deduction to Remove Architectural and Transportation Barriers to People with Disabilities and Elderly Individuals (Title 26, Internal Revenue Code, section 190)

Allows a deduction for "qualified architectural and transportation barrier removal expenses."

Only expenditures that are for the purpose of making any facility or public transportation vehicle owned or leased by the tax payer for use in connection with his or her trade or business more accessible to, and usable by, handicapped and elderly individuals are eligible for the deduction.

5 The taxpayer must establish, to the satisfaction of the Secretary of the Treasury, that the resulting removal of the barrier meets the standards promulgated by the Secretary with the concurrence of the U.S. Architectural and Transportation Barriers Compliance Board.

For purposes of this section, a "handicapped individual" is any individual who has a physical or mental disability (including, but not limited tot deafness and blindness) which, for that individual, constitutes or results in a functional limitation to employment, or who has any physical or mental impairment that substantially limits one or more major life activities of that individual.

The deduction may not exceed \$15,000 for any taxable year. (The maximum deduction had been \$35,000 prior to passage of Public Law 101-508 in 1990, which lowered the maximum deduction.)

3) **Disabled Access Tax Credit** (Title 26, Internal Revenue Code, section 44)

This tax credit is available to "eligible small businesses" in the amount of 50 percent of "eligible access expenditures" for the taxable year that exceed \$250 but do not exceed \$10,250.

"Eligible small businesses" are those businesses with either:

a) \$1 million or less in gross receipts for the preceding tax year

OR

b) 30 or fewer full-time employees during the preceding tax year.

"Eligible access expenditures" means amounts paid or incurred by an eligible small business for the purpose of enabling the small business to comply with applicable requirements under ADA.

Certain types of expenditures are listed as included under the meaning of the term "eligible access expenditures." These include amounts paid or incurred:

- i) for the purpose of removing architectural, communication, physical, or transportation barriers that prevent a business from being accessible to, or usable by, individuals with disabilities;
- 5 ii) to provide qualified readers, taped texts, and other effective methods of making visually delivered materials available to people with visual impairments;
- iii) to provide qualified interpreters or other effective methods of making aurally delivered materials available to individuals with hearing impairments;
- iv) to acquire or modify equipment, or devices for individuals with disabilities, or
- v) to provide other similar services, modifications, materials, or equipment.

Expenditures that are not necessary to accomplish the above mentioned purposes are not eligible. Expenses in connection with new construction are not eligible. "Disability" has the same meaning as it does in the ADA. Barrier removals or the provision of services, modifications, materials, or equipment must meet standards promulgated by the Secretary in order to be eligible.

The invention has been described in reference to particular embodiments as set forth above. However, only the preferred embodiment of the present invention, and but a few examples of its versatility are shown and described in the present disclosure. It is understood
20 that the present invention is capable of use in various other combinations and environments, and is capable of changes or modifications within the scope of the inventive concept as expressed herein. Indeed, in still further embodiments, automated closed captioning can be used to deliver via a network, real-time, simultaneous language translations. Further still, electronic avatars can be utilized to provide fully mobile, wireless network interpreting and simultaneous translation

services enabling business travelers and tourists to have immediately available translation services irregardless of time or location. In other embodiments, a sign language motion electronic dictionary can be utilized to enable electronic based communication with direct interface between deaf and hearing-enabled parties. Applications for such dictionary could include, but is not limited to, remote ordering devices for fast food outlets, rental car outlets, and ticket purchase outlets.

In another preferred embodiment, a plurality of user computers can be contained within a single housing system. For instance, with reference to Figures 3 and 4, two user computers can be contained within a single housing 24 having a first side 26 and a second side 28, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing 26 and the means for receiving and transmitting the audio and visual information for the second user computer resides on the second side of the housing 28. In one embodiment, the audio receiver and transmitter 30 is a microphone and the visual receiver 34 and transmitter is a camera and a screen. In this manner, and with reference to Figure 5, a user, such as a doctor, could stand across from the hearing impaired person such that the user is viewing a visual transmitter on the first side, such as a screen and the hearing impaired person is viewing a visual transmitter on the second side, such as a screen. In this embodiment, the interpreter is transmitted simultaneously to both the doctor and the hearing impaired such that interpretation services are provided. In still other embodiments, and with reference to Figure 6, each user could utilize a separate hand held device. It is to be understood that this description is not intended to limit the invention. Rather, the invention is intended to encompass all permutations on the invention. For instance, the embodiment in Figure 3 could also be utilized for foreign language interpretation services such that two user parties could

communicate via interpretive services provided by the hand held network device housing the two user computers.

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**SUBSTITUTE SPECIFICATION (Clean Copy)
For U.S. Pat. Appl. Ser. No. 12/658,496**

**A System, Method, and Apparatus for Providing Interpretive Communication
on a Network**

Related Applications

This application is a Divisional of U.S. Patent Application No. 10/057,131, filed August 25, 2001, which claims the benefit of U.S. Provisional Patent Application No. 60/243,162, filed October 25, 2000, each of which is incorporated herein by reference in its entirety.

Field of the Invention

The present invention relates generally to a system, method, and apparatus for providing real-time or near real-time interpreting services for utilization on a network. More specifically, embodiments of the invention relate to systems, methods, and apparatuses for facilitating communication for the hearing impaired or disabled in situations that are location-specific and in which the use of live interpreters is inconvenient or relatively neither cost nor time effective, wherein a real-time or near real-time interpreting service is provided, via a network.

Background of the Invention

The system, known as Video Interpreting Program, has been offered by a well-established Maryland company, *Sign Language Associates* ("SLA"), since 1997. The system requires the use of a 3M™ VCS3100 video conferencing system and 3 ISDN phone lines. According to SLA the Video Interpreting Program™ has been used in medical, legal and general

employment environments. The service is billed by the minute. At least one problem with this service is cost and efficiency of labor. In this system, the interpreters must be in a specific location for set periods of time, specifically, at a provider site possessing the specialized videoconferencing equipment. This is cost and labor inefficient as, more likely, interpreters will not be needed and utilized consistently, but will be required to be available at the equipment location, thereby, restricting their ability to provide services elsewhere.

In addition, voice recognition software has been developed. The Technology Assessment program ("TAP") of Gallaudet University, Washington D.C. (an internationally recognized education facility for the hearing impaired) is examining automatic speech recognition ("ASR") software, telecommunication relay services, captioning and wireless/cellular services. The current assessment of TAP is that voice recognition is making dramatic progress and while currently useable, does not suffer from "accuracy level, the problem of multiple voices and lack of clear speech" in terms of providing fully automated or live captioning. They do, however, note the ASR capabilities of *Dragon Naturally Speaking* and *IBM Via Voice* software.

In addition, TAP is actively promoting "video chat" to the hearing impaired utilizing Microsoft NetMeeting in conjunction with the ATI All-In-Wonder VGA card. However, such "video chat" is designed for use among the hearing impaired and does not address the problems associated with providing an interpreter in one of the above-described situations. TAP makes no reference to any commercial service seeking to use Internet video/audio as implemented by some of the various embodiments of the present invention.

Also, telephone utility companies and the cellular telecommunications industry provide an extensive service to facilitate communications by the hearing impaired, particularly through the use of TTY and TDD systems. To date, however, there has not been a cost effective system

introduced to satisfy the need for remote visual exchanges between an interpreter, a non-hearing impaired person and a hearing disabled person. Moreover, to date, there is no indication that any service providers has moved to implement a video/audio system based on Internet connections as implemented by some of the various embodiments of the present invention

Live interpreters are an integral part of communication for the hearing impaired and there is extensive network of these skilled professionals both nationally and globally. The Registry of Interpreters for the Deaf, founded in 1964, provides a national organizational structure, professional association and certification process for these interpreters and transliterators. It also embraces international membership. Although live interpreting is advantageous, it fails to resolve the basic problems presented herein, namely, providing an interpreter in a timely and cost efficient manner for various situations, such as, those, which arise in medical emergency rooms and police stations. Live interpreting is, therefore, not seen as direct competition for the embodiments of the present invention. Various embodiments of the present invention may be utilized to fill a market gap – namely that of short-duration location-specific interpreting where both cost and time factors preclude the use of live interpreters.

For example, in a hospital, it may take two hours or more to locate and transport a translator or interpreter to the medical facility so that the person may provide interpretation and translation, to, for example, a hearing impaired patient or family member of a patient. Thus, the so-called golden hour is lost, because it takes, in this example, over twice as long just to begin questioning the patient in preparation for treatment. In a more typical conventional situation, at least a part of the golden hour may have been lost in transporting a patient to the hospital in preparation for treatment. Thus, the wait for a translator or interpreter to help either the patient or a family member becomes more imperative that it occurs quickly. For example, if only 10

minutes of the golden hour is left that only allows for 10 minutes to track down and transporting the translator or interpreter or any other needed third parties to the hospital emergency room.

This is often proven difficult if not impossible to accomplish in this time frame.

In another scenario, as discussed above, a live interpreter might be located and provided via a teleconference system that may be set up, for example at an office specialty service provider, e.g., a Kinkos®. Unfortunately, having the interpreter being viewed at the local office specialty store rather than at the hospital really provides little, if any, ability to treat the patient or consult family members in an effective manner. Further, most hospitals do not have a significant telecommunications equipment for providing video conferencing at their facilities. However, for the hospitals that do have this equipment it is often located far away from the emergency room area and is considerably bulky and difficult, if not relatively impossible, to move from room to room. Thus, this solution of utilizing a hospital's teleconferencing equipment is also considered a failure to solve the above mentioned problems, such as medical facility interpretation, as the videoconference presentation of the interpreter is not in a useful location relative to the emergency room for the patient or the family that may be able to advise medical personnel in the treatment of the patient.

In addition, to the inconvenience of the location of the necessary teleconferencing equipment, the cost is relatively high for the utilization of the equipment even if it is attempted to be used. For example, teleconferencing equipment typically requires 3 ISDN lines to be able to receive an image on the teleconferencing equipment that provides the resolution and frame speed requisite to enable parties to the conference to be able to understand what an interpreter or translator is "saying." This is because the translator/interpreter is utilizing sign language that requires a visual perception of the translator on the teleconferencing equipment display. When

the display and/or the speed in real-time appearance of the display is not adequate to see distinct precise and specific movements of the interpreter or translator, then the communication is degraded and often becomes a complete failure in any attempt to communicate with the receiver of the display of the telecommunications equipment. The receiver may, for example, be the patient or a family member of the patient in the hospital.

A need in the industry exists for a system, method and apparatus that provides an ability to locate and utilize an interpreter and/or translator quickly, for example, in real-time or in relatively near time, without having to maintain or provide a translator or interpreter to be constantly attending and personally present at a specific location of the user of the interpretation or translation services or efforts. Further, a need also exists for a system, method and apparatus that provides for utilization of these interpretive and/or translatable providers via a network, for example the World Wide Web. Still further, a need also exists for a system, method and apparatus that provides for a multi-lingual interpretive or translatable option that is available anywhere in the world in real-time or near real-time.

Finally, a need exists for a system, method and apparatus for utilizing an interpretive and/or translatable ability anywhere in the world by at least one of a user, recipient, and/or at least one third party that may also utilize a network, such as the World Wide Web, if desired in a relatively real-time or in near real-time utilization.

Summary of the Disclosure

Embodiments of the present invention are best understood by examining the detailed description with reference to the drawings. However, a brief summary of the disclosure follows.

Embodiments of the present invention comprises a system, method, and apparatus that provides for the utilization of a relatively real-time or near real-time interpretation or translation that may be utilized preferably for a relatively short duration of time, that is also preferably utilized with a network. A preferred embodiment of the present invention provides online, real-time, short-duration interpreting services in a network-based format. The service focuses directly on facilitating communication for the hearing disabled in situations which are highly location-specific and in which the use of live interpreters is neither cost nor time-effective or is otherwise inconvenient.

The interpreting system comprises at least one provider computer, such as a server. The provider computer is capable of communicating with user computers via a network. In one preferred embodiment, the provider computer provides a series of web pages that allow access to the interpreting system, including, but not limited to, a request for service page, wherein a user can access the system and input a request for interpreting services.

In preferred embodiments, the user, such as, a hospital, accesses the interpreting system via a user computer, wherein the user computer is connected to a network. As discussed above, the interpreting system is accessed via a provider computer, wherein the user computer and the provider computer communicate via the network.

Once the user accesses the interpreting system, the user provides information directed to the interpreting needs. This information includes, but is not limited to, time restrictions (when the service is needed), subject matter of interpretation, anticipated length of service, age of hearing impaired person, and contact information.

Upon receipt of the request for services, the interpreting service sends out a request to all available interpreters. Any available and qualified interpreter that is qualified for the type of

interpretation required, accesses the interpreting system and identifies himself or herself as available. An interpreter is then chosen. The chosen interpreter contacts the user via the network and performs the required services.

In a preferred embodiment of the present invention, the user, such as a hearing impaired person or third party, does not pay the interpreter directly, but rather, pays, for example, a monthly fee. In some preferred embodiments, the user pay a monthly fee for either a limited or unlimited amount of access and use of the interpreting system. Further, an entity, for example, a hospital may pay a monthly fee for the right to utilize the interpreting system in treatment of its patients and communication with others that may assist the hospital in treatment of its patients.

In addition to monthly fees, in alternative embodiments, the user can pay based upon a variety of factors, including, but not limited to, a per session fee, a per translation fee, a fee based on the number of words or data translated per use, the type of interpretation provided, the quality and/or certification of the interpreter, the relative cost of the linking of various parties and interpreters to the network, the availability and time of day, and whether a preference was indicated by the user for a particular translator or qualification of translator, and the physical location of the interpreter or other parties to the session. Alternatively, the user may also pay based upon the cost of the transmission links, or a percentage of the cost of either a portion or all of the translation and/or interpretation direct or indirect costs. Also, the fee may be based upon a licensing or other type of intellectual property payment scheme such as a per translation or per transaction or session cost or based upon the percentage of time utilized for translation versus other portions of the communication session and/or any other method or allocation or charge or costs that the user may so desire and/or the provider may wish to provide.

Brief Description of the Drawings

Embodiments of the present invention are described in detail herein with reference to the drawing in which:

Figure 1 illustrates a portion of a first embodiment of a virtual Internet drive method and device, in accordance with the principles of an embodiment of the present invention.

Figure 2 depicts a preferred embodiment of the present invention during use.

Figure 3 depicts a preferred embodiment of a hand held two user computer device, wherein the two user computers are housed within a single housing.

Figure 4 depicts a side perspective of the embodiment shown in Figure 3.

Figure 5 depicts usage of the embodiment shown in Figure 3 by two users.

Figure 6 depicting use of the two user computer device utilized by a two separate users each having a separate two user computer device.

The accompanying drawing, wherein like numerals denote like elements, are incorporated into and constitute a part of the specification, and illustrate presently preferred exemplary embodiments of the invention. However, it is understood that the drawing is for the purpose of illustration only, and is not intended as a definition of the limits of the invention. Thus, the drawing, together with the general description given above, the detailed description of the preferred embodiments given below serves to explain the principles of the invention.

Detailed Description of the Preferred Embodiments

An embodiment of the present invention is illustrated utilizing functional flow charts as illustrated in Figures 1. The present invention may be implemented on any computer that has access to a network, e.g., the World Wide Web, as well as hand-held devices such as personal communication devices, including, but not limited to portable telephones, personal appointment managers, a Palm Pilot, and other Internet access devices such as Web TV. A network access itself may be achieved by radio frequency link, telephone modem, cable modem, high-speed DSL, wireless connection or any other network communication technique conventionally available.

As the World Wide Web access is improved, such that the speeds between the user and the World Wide Web are increased so that the user may download and upload data more quickly, the user may continue to enjoy an ever-increasing benefit from the utilization of various embodiments of the present invention, as compared to conventional techniques.

Preferred embodiments of the present invention are directed to a system, method, and apparatus for providing relatively real-time or near real-time interpretation, wherein the need for interpretation is a relatively short amount of time. In preferred embodiments, the interpretive system is provided via a network. For example, in one embodiment, communication may be facilitated for the hearing disabled in situations that are highly location specific, such as, a hospital, police station, car rental counter, or retail store in which the utilization of live interpreters is neither cost nor time-effective.

In preferred embodiments, the interpreting system comprises at least one provider computer, such as a server. The provider computer is capable of communicating with user

computers via a network. In one preferred embodiment, the provider computer provides one or a series of web pages that allows access to the interpreting system, including, but not limited to, a request for service page, wherein a user can access the system and input a request for interpreting services.

The provider computer is accessible to a plurality of interpreters via individual computers capable of communicating with a network, or any other means of accessing the network, such as a palm pilot, upon which interpreting services may be displayed in real time or near real time. A subset of the plurality of interpreters make themselves available via the network, or any other communications means, such as, a telephone, pursuant to a predefined schedule. In preferred embodiments, an interpreter is available throughout the network, regardless of user geographical location, 24 hours a day, 7 days a week. In preferred embodiments, an interpreter may become available to the system not pursuant to a predefined schedule, but at the time or times the interpreter desires to make his or her services available via the network.

In preferred embodiments, the user, such as, a physician or aide in a hospital, accesses the interpreting system via a user computer, wherein the user computer is connected to a network. As discussed above, the interpreting system is accessed via a provider computer, wherein the user computer and the provider computer communicate via the network.

Once the user accesses the interpreting system, the user accesses the interpreting service's request web page, customer service or scheduling department, or other appropriate live or digital representative of the interpreting service and provides information directed to the interpreting needs required. In some preferred embodiments, the user may request the first available interpreter. In other preferred embodiments, the user may provide a plurality of other specific requests and other data to assist in matching the user's interpretation requirements. This

information includes, but is not limited to, time restrictions for the providing of the service (when the service is needed), acceptable price or price range of interpreter, the requirement of acceptance of the user's insurance to cover all or part of the services to be provided, subject matter specialty of interpretation (legal, medical, diplomatic and/or technical areas), legal or organizational certification of interpreter, one or more specific foreign languages required for interpretation, anticipated length of service required, preferred gender of interpreter, age of hearing impaired person (e.g., if a child communication specialist is required), parental consent (if hearing impaired person is a minor) geographic proximity of the interpreter to the user, previous evaluations, ratings or recommendations of the interpreter, previous use of the interpreter by the user, request for a particular interpreter, request to include advertising, request to exclude advertising, and other criteria, and user contact and payment information, including promotional participation data. In some preferred embodiments, the user fills in a series of data boxes online to transmit the aforementioned data. In still other preferred embodiments, the user is provided with a pull-down menu that allows for users to choose from a variety of predefined menu options, wherein the options define the type of service request desired. Once the user has filled in the request page, or otherwise provided information regarding the type of service requested, the user submits and transmits the information to the provider computer, representative person, department or digital agent. In some preferred embodiments, the aforementioned request is performed telephonically. In still other preferred embodiments the aforementioned request is performed via audiovideophonic communication. In still other preferred embodiments the aforementioned request is directed to providing an interpreter which may be geographically proximate to the user so as to enable the interpreter to effectively translocate to the place where interpretation services are needed for further or extended on site

interpretation services. In still further preferred embodiments, the request is directed to an interpreter capable of providing interpreting services en route to the location of the user as by mobile wireless connection to a network.

Upon receipt of the request for services, the interpreting service matches the criteria for the interpreter requested and effectuates an audiovideographic connection between the interpreter and the user. In preferred embodiments, the interpreting service transmits a request to all available interpreters. Any available and qualified interpreter, that is, qualified for the type of interpretation required, accesses the interpreting system if not on-line, and identifies themselves as available. An interpreter is then chosen. The chosen interpreter contacts the user via the network and performs the required services. In other preferred embodiments, the interpreting service effectuates a connection between an "on call" or predesignated interpreter and the user requesting the services.

The above-described system is capable of being used in virtually any type of institution, retail establishment, organization or individual home. Indeed, in some instances, some of the hardware already exists. For instance, healthcare institutions already possess good computer facilities located in service transaction areas such as emergency rooms and outpatient clinics. Thus, unlike existing video conferencing services, no new equipment is required for at least some of the embodiments of the present invention. Moreover, healthcare facilities are already familiar with the use of Web-based technology to enable remote consultations such as radiology. Thus, no substantial behavior modification is required of the customer.

A preferred embodiment may be utilized on similar public sector and commercial institutions that meet similar market criteria: the requirement to meet the ADA "reasonable accommodation" standard, have existing computer facilities located in or adjacent to public

interface or service areas. This may, e.g., include Police and Paramedic agencies, Social Security, Immigration, Police, Courts, and Department of Motor Vehicles as well as commercial applications such as airports, rental car companies, amusement parks, banks and department stores. Similarly, the educational market offers downstream potential with continued development of automatic voice recognition captioning for longer duration simultaneous translation.

Yet another embodiment may be utilized for individual home subscribers. This would permit hearing disabled individuals to facilitate communication with family, friends and other contacts thereby enhancing their quality of life. In addition, it would enable these subscribers to undertake regular calls and daily contacts with emergency services, doctors, utility companies, etc.

In some preferred embodiments of the invention, third party vendors of goods and services utilize the interpretation services to provide sign language advertisements, introductions, information and education regarding their goods and services to the aforementioned subscribers. In still further embodiments, fourth party agents and affiliates may use the interpreting system to perform such advertising, introduction, information and education services in exchange for consideration, including, a fee for any goods or services purchased by the user.

Yet another embodiment may be utilized, that incorporates global application for its hearing impaired interpreting concept with flow-on implementation to offer multilingual, foreign language interpreting for its core customer base.

The online, real-time interpreting service developed in various exemplary embodiments for the hearing disabled directly targets this market by taking advantage of a clearly identified need, an established legislative imperative in the form of the Americans With Disabilities Act

and the emerging technology which now allows networked real-time imaging via the Internet. As outlined in the following section, preferred embodiments that may provide healthcare and education sectors with rapid expansion envisaged into those areas of commerce which involve substantial person-to-person interface such as amusement parks; airports – including information booths, ticket counters, customs and immigration facilities; rental car companies; and major shopping malls. It is noted that the existing Internal Revenue Code (Title 26, Section 190) allows tax deductions of up to \$15,000 annually for the removal of barriers to people with disabilities.

Hearing impairment is not a disability peculiar to the United States and hence the opportunity exists to establish yet other arrangements of the present invention on a global basis through a multinational network of qualified interpreters linked by the Internet or other wide area computer networks. Preferred embodiments of the present invention are capable of operating on a global basis through a multinational network of qualified interpreters linked by one or more common networks. In some preferred embodiments, the interpreting system provides real-time simultaneous language translation in a location-specific manner worldwide. The service for hearing impaired is in itself a significant, however, the possibility of simultaneous language translation via the Internet or other wide area networks, can provide the facilitation of communication in a wide array of services and situations.

In the travel industry this “point-of-sale” service may be utilized by airlines, rental car operations, hotels, cruise operators and the like. It has direct application for point-of-entry interpreting for immigration desks, customs officials and transport operators. In the education sector it suggests the possibility of online education beamed globally yet available simultaneously in a number of different language translations. In business it has future potential for allowing global executives to utilize their own, trusted sources for interpreting and avoids the

necessity to rely on host country interpreters who may be unfamiliar with the technical terms being used, unfamiliar with the business or negotiating style of the executive and who may pose a significant industrial espionage threat.

Preferred embodiments of the present invention may be implemented in a rapid, albeit preferably sequenced, expansion into this area based on the establishment of a global exchange linking established interpreting and translation services world wide in a real-time online network.

Preferred embodiments provide an online real-time short duration location specific interpreting service geared initially to the needs of the hearing disabled in the United States but with subsequent second stage expansion to enable coverage of key global markets. It is envisaged that the third stage of expansion would move beyond the hearing impaired to embrace real-time simultaneous language translation in a multilingual and multinational-networked format. The service will be capable of operating on both a point-to-point and a multi-conferencing basis as necessary. The integrated use of voice recognition is planned for ongoing development and implementation of the service.

At present, the hearing needs of the hearing disabled are catered for by the use of such instruments as assistive hearing devices, paging devices, telephonic devices including TTY and TDD, pictograms and both sign language and oral interpreters. All these instruments ameliorate the barriers faced by the hearing disabled. Moreover, all these instruments are classified under the Americans With Disabilities Act as "auxiliary aids and devices" recognized as meeting the "reasonable accommodation" prescription of the Act. However, in certain key circumstances these "aids and devices" have significant drawbacks. For example, the provision of qualified sign language or oral interpreters must often be arranged up to two weeks in advance and in

emergency or life threatening situations there can be both unacceptable delay and excessive cost in obtaining interpreters.

In one preferred embodiment, the present invention provides for the introduction of an online exchange linking a network of qualified sign language interpreters, oral interpreters, simultaneous transcribers and, where appropriate, voice or motion recognition captioning. The exchange would utilize current Internet and wide area computer network technologies allowing live audio and video feeds.

Arrangements of the present invention may also be utilized or, e.g., integrated with, e.g., Real Networks, CUSeeMe, Net Meeting and other software solutions that facilitate worldwide video and audio communication and data collaboration across the Internet. In addition, the potential use of the emerging Bluetooth chip technology would allow remote wireless communication in local networks, for example within emergency rooms and hospital wards, thus allowing mobility on the part of the user such as required by an emergency room physician in an examination room. These are situations where short-term interpreting is required (short-term generally being of periods less than approximately 30 minutes but may be even less, e.g., 25, 20, 15, 10, 5, or even less than 1-5 minutes in a location-specific or transaction-specific environment and for which the use of a physically present interpreter is neither cost nor time effective.

In reference to a preferred embodiment in Figure 2, the network could operate as follows in, for example, the case of an emergency room physician treating a hearing disabled patient:

- Utilizing a PDA, laptop, Internet-capable cellular phone, or similar handheld device, capable of receiving, displaying and broadcasting the remote sign language or foreign language interpreter's signing and vocal communications, such as by flat screen monitor and speaker, and capturing and transmitting the hearing impaired person's signing, and the physician's

voice, such as by camera and microphone devices, the physician would log on to the network via the hospital internet service connection;

- The present invention's menu would provide a choice of icons for interpreting services, e.g., labeled in both script and pictogram;
- The physician user would choose the type of service, price, interpreter qualifications, time to commence the services, and any other user selectable request criteria;
- A user, e.g., a physician would click to the required icon for connection;
- Service would search the network and connect to the first available interpreter;
- Audio and video connection would be established and interpretation would then begin utilizing voice communication between the physician and the interpreter and sign language between the sign language speaking hearing impaired patient;
- As necessary, required or requested, communications by one or more of the parties can be made available in scrolled text on the screen generated by real time stenographic or voice recognition means.
- The interpreting transaction would be recorded in file format for playback as necessary for checking accuracy or in the event of liability or dispute.

In some preferred embodiments, the user of the service is a subscriber to the service

wherein access to the service is password protected. In some preferred embodiments, the user pays a monthly service fee to have access to interpreters and, pays a fee to the

interpreting service for actual use of the interpreter on a fee for time basis. In some preferred embodiments, the user pays for the services on an "as needed" basis wherein access to

the service is preceded by the presentation, authorization and acceptance of a credit card, debit card, digitally signed contract or other payment means.

In some preferred embodiments, the interpreter(s) is (are) directly paid for all or some of sums due to the interpreter(s) by the aforementioned "as needed" payment is made by the user. The exchange would link participating sign language or oral interpreters regardless of the interpreter's physical location. In preferred embodiments, interpreters would be available on a twenty-four hour basis for all users, wherever located, despite the potential time zone differentials that may arise.

In some preferred embodiments, participating interpreters would be required to meet specified participation criteria, such as certification from the appropriate U.S. certifying body or bodies (e.g. Registry for Interpreters for the Deaf). Membership of the exchange would be subject to a controlled application process and would entail, e.g., an annual membership fee. In addition, participating interpreters must have access to computer equipment meeting predefined specifications or be required to lease such equipment from the provider or utilizer. Each participating interpreter would be required to carry a specified level of public liability insurance over and above that carried by provider or utilizer.

In preferred embodiments of the invention, look-up and verification of a selected interpreter's insurance status (e.g., to determine if the required policy is valid and in force) by access to an appropriate insurance data base or by other means, may precede the connection of the user with the interpreter, and if the results of such look-up reveals that the interpreter is uninsured, underinsured or that there is some other liability concern, the interpreter could be then made unavailable for to provide the requested services.

A provider or utilizer portal may be located with an existing major service provider, who will be offered exclusive rights to host the service for a fixed contract period. This provider will be given first right of refusal for the subsequent envisaged expansion of the provider or utilizer platform, i.e. the second stage development into providing hearing impaired coverage for selected global markets followed by a third stage expansion into providing simultaneous translation on a multilingual and multinational basis.

Targeted institutions will be offered a service subscriber package entailing an annual subscription rate covering a guaranteed amount of time on the service per month. In the manner of telephone calling cards subscribers will be able to "top up" their monthly subscriber time allocation should they appear close to exceeding their normal subscription rate. Member institutions will be designated as "The Provider or Utilizer Service Members" and their contact details circulated in directory form to the hearing disabled across the United States. Signs bearing the provider or utilizer logo will be supplied to member institutions for display in public areas thus promoting the institution's use of the provider or utilizer Service. In addition health insurers will be encouraged to provide priority coverage for insured health impaired patients to seek treatment at "Provider or Utilizer Service Member" institutions and clinics.

The provider or utilizer may also enable, because of the above, create a large secondary market for hearing disabled individuals to seek personal subscriptions to The Provider or Utilizer Service. Such individuals would be able to log into the service from a home or office computer and utilize the video service to communicate freely with friends, relatives and business associates. In addition, personal subscribers can use the interpreting service to facilitate the regular telephone calls and daily contacts that the hearing enabled take for granted. This would include emergency calls, calls to healthcare professionals to seek appointments or prescription

refills, calls to government agencies such as IRS and Social Security, calls to utility companies and calls to taxi services, airlines and the like. Again personal subscribers would purchase a monthly access package with the capability to “top up” on a month-to-month basis should their circumstances so demand. The ability for hearing impaired individuals to have access to such a service not only offers considerable potential to improve their quality of life but also offers a vehicle for increased independence and personal confidence.

As previously described, the substantial number of Americans classified as having chronic hearing impairment, an estimated 23,000,000 in the year 2000. This represents a substantive market for a wide range of goods and services that can be exclusively promoted to this target audience via the personal subscription to the Provider or Utilizer Service. Access to this market (a market that is in large part unreachable by existing vehicles such as telemarketing, radio and television that rely on audio delivery) via the use of the Provider or Utilizer Service enables third party vendors to use preferred embodiments of the instant invention to provide a useful promotional vehicle for a large number of goods and services.

In turn, the establishment of a core membership of subscriber healthcare institutions then provides the platform for expansion of the service to other institutional target sectors who – like the healthcare industry – are subject to the “reasonable accommodation” standard of the Americans with Disabilities Act, have high levels of public interface and who have existing computer facilities (preferably with broadband access) already located in or adjacent to public interface areas such as service desks. Such targets will include government agencies such as Social Security offices, Immigration & Naturalization Service, Public Housing agencies, Courts, Police Departments, Department of Motor Vehicles and Inland Revenue Service. Flow-on target subscribers that meet the above criteria would then include more commercial applications such

as airport information desks, airline lounges, rental car companies, hotels, amusement parks, supermarkets, drug stores and department stores. Again, all these target sectors have a requirement for short duration interpreting of customer interactions taking place at the point of service transaction. These are all situations where, in the absence of a services such as the Provider or U preferably offers, there is considerable potential for confusion, frustration, discrimination and the inevitable deterioration of customer service. In addition, with a potential target audience amounting to some 8% of the American population there is a clear commercial incentive for such private sector outlets to become subscribers and to be aggressively promoted to the hearing disabled as offering this service – particularly in view of the tax credits which apply (see Appendix 1).

Similarly, the educational market is seen as a substantial market opportunity, particularly in association with online education providers or in classrooms offering a standardized, repeatable lesson format, e.g., technical training where the need is not for short duration, time sensitive interpretation but can be delivered in a prepackaged, repeatable format thus offsetting the current cost of delivering real-time interpreting. Real-time interpreting of, for example, a 3 to 4 hour graduate class would be prohibitively expensive for most educational facilities. However, educational facilities increasingly have high levels of computer technology installed or available for in-class access by students. Also, the provider or utilizer may also incorporate or utilize voice recognition, so that it will be able to offer in the short-term a future a cost-effective closed captioning service via the Internet or wireless device that would enable hearing impaired students to effectively and unobtrusively participate in the class utilizing a voice recognition caption stream on the student's laptop device.

In a business method arrangement of various embodiments of the above-described invention, a subscription may be utilized. Thus, a fee may be paid, for example, at a regularly set time, for example, every month in order to be provided with and/or utilized and/or obtain translation and/or interpretation up to a certain time limit or may even be unlimited depending upon the subscription price. This would particularly be beneficial too, for example, police departments, hospitals and the like and other community service organizations because this would provide for essentially a fixed fee amount that can be more readily budgeted by these organizations and thus provide a more cost effective and cost conscious provision of services for the hearing impaired by these organizations. Further, it will allow these organizations to more accurately predict their budgets so that they may provide the best utilization of their often limited funds for services including providing for access to at least some of the various arrangements and embodiments that comprise the present invention.

In yet another alternate embodiment of the present invention, a portion or all of the translation or interpretation including but not limited to any of the arrangements that are described below with reference to Figure 1, there may also be provided with a reduced fee or even a free Internet service provider account such as a free DSL account. Alternatively, and/or in conjunction with the free DSL account, other arrangements and preferred embodiments of the present invention may be provided with a type of advertising such as Web-based banner, audio, visual, audiovideo and/or multimedia "commercials" or other advertising or surveys that may be presented and/or interacted with by the user and/or interpreter(s) at any time before, during and/or after the translation or interpretation is being provided. In other preferred embodiments, such advertisements may alternatively be implemented so that said advertisements are displayed when there is, for example, silence for a certain amount of time or the user indicates that it is a

non-critical communication and that information such as advertisements may be allowed in addition to the translation and/or interpretation being utilized. In still other preferred embodiments, such advertising may exist in a user opt-in or opt-out configuration. In still other preferred embodiments, the presence or absence of such advertising may be associated with increases or decreases in the price to the user for providing the interpreting services and/or the payment to the interpreter(s) for providing the interpretation or translation service.

The various arrangements and embodiments of the present invention may also be utilized with the above and/or with a provision for a relatively reduced fee and/or free long distance communication configuration or enablement option for the user, for example, by utilizing the World Wide Web to transmit other types of communications such as voice while also utilizing the translation and/or interpretation for a hearing impaired person.

In yet other alternate arrangements and embodiments of the present invention, the system, method and apparatus may engage interpreters that are transported in person to a specified location, for example, a police station or hospital emergency room, or in a preferred arrangement, by providing the interpretation or translation to the subscriber and/or to the user or any other third party via a network, for example, the World Wide Web en route to the specified location.

In yet other alternate arrangements and embodiments of the present invention, the above subscription business method may be utilized with present interpreters that show up or are transported in person to the various locations where such services are requested, for example, police stations or hospital emergency rooms, or in a preferred arrangement by providing the interpretation or translation personnel to the subscriber and/or to the user or any other third party via a network, for example, the World Wide Web.

In the various alternate arrangements and embodiments that utilize as a portion of the communications network, there are many further arrangements and embodiments that may be understood in the practice of this invention. First, for example, a subscriber or utilizer may utilize the network to connect with a boiler room of interpreters that are on standby and ready to immediately interpret for a subscriber when contacted. Alternately, the interpreter or a number of interpreters may be, for example, home based or offsite location-based and may be utilized as an overflow to the boiler room or vice versa where the preferred interpreter is home based and the overflow of requests, when the supply of home based interpreters is exceeded is handled by a boiler room of interpreters. Of course, an essentially boiler room may be created by linking a plurality of home based or other offsite based interpreters. In preferred embodiments of the invention dynamic allocation of interpreters on the basis of availability and demand is accomplished either automatically by the service's network software or by one or more human dispatchers.

In yet another alternate arrangement of the present invention, the interpreters may instead be located by the subscriber or a third party by utilizing a wireless technology, for example, a mobile phone that indicates to the interpreter to contact through preferably a specific website address the subscriber and begin interpretation. Interpretation may be provided visually, for example, by utilizing the mobile phone in connection with a laptop and a small CCD camera mounted with a laptop or separately so that the interpreter may immediately provide services anywhere in the world. In addition, the interpreter may also at the same time obtain or be automatically provided transportation, for example, by the hospital or via other third parties or by the interpreter themselves hailing a taxi, for example, and being transported while continuing to interpret in a wireless embodiment of the present invention.

In yet other alternate arrangements of the present invention and particularly in a plurality of preferred arrangements that utilize a wireless portion may thus provide worldwide coverage. Also, multi-lingual coverage may be provided, for example, a Spanish speaking hearing impaired person may utilize a Spanish speaking interpreter that is actually located in Spain when there are no Spanish interpreters remaining more near by relative to the hearing impaired person. Or vice versa, the Spanish speaking hearing impaired person may actually be in Spain and wish to utilize a specific facility such as a renowned hospital and an interpreter that speaks both English and Spanish that may, for example, reside in the USA and thus obtain the desired translation and interpretation by utilizing yet another arrangement of the present invention preferably in a network environment.

In yet other alternate arrangements of the present invention, the linkage between, for example, the interpreter and the hearing impaired person may be predetermined or may be implemented in real-time depending upon input from any one of the interpreter, the hearing impaired person, and/or any other third party or a combination thereof. Thus, in one exemplary embodiment of the present invention, the hearing impaired person may indicate a preference for a specific interpreter such as one that has been utilized previously by the same person and the hearing impaired person wishes to utilize the same interpreter again. The routing between the parties may also be accomplished by other at least partially predetermined and/or real-time decisions based upon software algorithms that include choosing the routing based upon the physical location of the interpreter, the hearing impaired person, and/or any other third party, on the previously described preference of one or more of the parties, based upon the cost of interpretation and/or connection, based upon the availability of any one of the parties involved,

and/or based upon the skill level, and/or whether or not the interpreter is state and/or government approved or certified and the like.

Further, other changes to the routing may include rating and/or acknowledgment of any specialized knowledge on a specific subject that the interpreter or any other third parties have or a rating based upon past performance may also be utilized or incorporated with the other factors in deciding the routing to be utilized. Again, this selection may be via a predetermined algorithm, a third party that is monitoring and/or even arbitrarily deciding the routing between the hearing impaired person and any other party, and/or may be determined solely by any one of parties including the hearing impaired person themselves.

In a business method application of various embodiments of the present invention, there may be a cost difference to the user and/or any other third party depending upon the skill level and/or experience in communicating that the interpreter has. Also, a menu may be provided to any of the connected parties, for example, the interpreter, the hearing impaired person, and/or any other third party that may be utilized to select or indicate a preference, for example, a certified or licensed interpreter and/or any of the other above-mentioned preferences as desired. Depending upon these choices may indicate an instantaneous change in cost in real-time or near real-time for the continuing interpretation being provided. Thus, as a higher skill level is desired a different interpreter may be provided, for example, for a few minutes and then the hearing impaired person may shift back to a first or even a third interpreter that is provided a lower rate, for example, in more calm family discussions as opposed to when a higher priced interpreter may be desired that may be familiar, for example, with complex medical terminology and the like in evaluating treatment with a doctor.

Other arrangements for providing a charge include a charge or fee by subscription, for example, a fixed cost per month, or maybe utilized with a Visa or MasterCard or other credit card that preferably utilizes a chip in the card so that a more informed knowledge of any of the connected parties maybe instantly ascertained, at least in part, by utilizing information contained in the chip on the charge card or other identity or informational card being utilized in connection with the various embodiments of the present invention.

Yet other embodiments may utilize a fixed fee for a base number of minutes or time period amount or have a cost associated with the excess units of time that are utilized. For example, charging an extra \$2.00 a minute for any utilization over 30 minutes a month. Other cost ranges may include, for example, other services that may be provided along with the visual interpretation, such as, a real-time transcript or a transcript that is provided at a later date, a video tape, and/or audio that may be analog or digitally or any other technique as is known in the art to record and preserve the interpretation activity.

Thus, various embodiments of the present invention may also be utilized to generate live or real-time transcripts, as well as a recordation of any or all of the communications and/or interactions of any of the parties.

Some of the parties are illustrated in Figure 1 and may be involved in the utilization of various embodiments of the present invention.

In Figure 1, a network 10 is utilized to provide a communication or a connection between any combination or arrangement of at least one or more of a hearing impaired person ("HIP") 12, a monitor ("M") 14, a teacher ("T") 16, an interpreter ("I") 18, and/or any other third party ("O") 20. The connections are quasi connections between any of the parties 12, 14, 16, 18, 20 and the

network 10 may be accomplished by any technique known in the art, for example, wireless connections, land-based connections, satellite connections, and/or any combination and the like.

More specifically as shown in Figure 1, the HIP 12 is a utilizer of the translation or interpretation of this exemplary arrangement of the present invention and may also be, for example, a family member or other close associate of the user or any other person the user may designate. The M 14 of the network 10 is preferably utilizing this exemplary embodiment of the present invention in order to, for example, monitor, measure, rate, or otherwise provide a type of quality control, evaluation, or insurance of an appropriate level of quality or service by the interpreter. The monitor may also provide the above evaluations as described for the T 16 and/or any O 20 and even if desired for the HIP 12, if desired. In fact, a cost attribution or implementation of a business method implementation of the present invention may also include a rating or other evaluation of the hearing impaired person themselves to adjust the price based upon economic class or level, government assistance available, and/or tax credits, or may even be based upon the relative skill of the hearing impaired person and the price adjusted accordingly based upon the ability of the hearing impaired person to utilize the embodiment of the present invention in a satisfactory or efficient manner.

The T 16 is preferably utilizing this exemplary embodiment of the present invention in order to teach the hearing impaired person wherein the teacher needs that interpretation or translation in order to perform the teaching exercise with the hearing impaired person. Of course, it is understood that the teaching exercise need not be related in any way to sign language or the hearing impaired activities but instead may be any teaching situation, for example, teaching mathematics, art, or any other subject as desired by any of the parties.

The I 18 may include, without limitation, a translator and/or transliterator or any other aid or assistant or similar type of interpreter that may be utilized for any person needing such help, preferably those understood to fall under the American With Disabilities Act.

Finally, the O 20 may comprise, for example, police, hospital's administration and staff, doctors, relatives that are not at the hospital but wish to sit in on the consultation with the hearing impaired patient, and/or additional hearing impaired family members that may also wish to utilize and be aware of the communication transpiring between the hearing impaired person and any other person or entity that is connected via the network in this exemplary embodiment of the present invention.

Yet another arrangement of the present invention may include providing the interpretation on a time delay basis, for example, where the delivery of the interpretation is at a point in time substantially after the provision of the speech and/or sign language to be interpreted and translated. Thus, for example, in one exemplary embodiment a person may speak into a recording device and then at some later time, for example, 12 hours later, the recording may be transliterated and then provided as desired to the hearing impaired person at a convenient time that they request. Also, the initiator or verbal message user in this example may specify time for delivery of the translated communication. Of course, it is understood that yet another arrangement of the present invention includes a video tape or a recordation of the visual sign language by the hearing impaired person that has been transmitted through a translator and the, for example, spoken interpretation is then later delivered, for example, as a voicemail to the intended recipient. Similarly, any transcripts or recordations or the like may also be provided at a time delay and the cost of the same in the use alternate embodiments may be adjusted accordingly, if desired.

In yet other arrangements of the present invention in an exemplary embodiment a synthespian arrangement may be utilized, wherein a synthespian is a digitally generated interactive actor, avatar, agent or a digitally morphed, modified or enhanced interactive recording of a real person. Thus, for example, a hearing impaired person may utilize a network to communicate with a receiver or an interpreter or a recorder that may be later viewed by the interpreter. The interpreter may then interpret the sign language communication into the spoken language, and provide it to, for example, a third party. However, this example prior to the viewing by the interpreter of the hearing impaired person's communication via sign language, a computer generated synthespian may, for example, be utilized to mask or alter the appearance of the hearing impaired person so that the interpreter will not know the true identity of the hearing impaired person in order to better safeguard and provide a semblance of privacy for the hearing impaired person. Alternatively, in a similar fashion the interpreter may receive a spoken communication and translate it into sign language for the hearing impaired person. However, prior to viewing of the interpretation by the hearing impaired person, the visual image is passed through, for example, a computer processing unit that then converts at least a portion of the image of the interpreter into a synthespian type image. Thus, the hearing impaired person only sees an artificial or synthespian interpreter and not the actual physical look and/or identity of the interpreter so that the deaf person and/or the interpreter may be provided with a relatively secure and/or a relatively private type of communication. Thus, the hearing impaired person may later "bump" into the interpreter on the street and yet neither would recognize the other, thus, providing some semblance of privacy for the hearing impaired person and/or the interpreter and/or any other third parties.

In preferred embodiments of the instant invention, the aforementioned synthespian substitution or "masking" of the identities may be applied to the hearing impaired user, the interpreter, any third party users, such a physician using the service in an emergency room and/or any remote third party participant in the videoconference. In further preferred embodiments, the synthespian substitution or masking of identities may be performed in real time by sufficiently fast processing of digital data corresponding to the images and voices of the aforementioned parties.

Yet other alternate embodiments of the present invention include utilizing the interpretation over the network as a portion of, for example, a video dating service, wherein the translator and/or interpreter may be provided in relatively real-time to assist a hearing impaired person in a World Wide Web based dating service and the like. Similarly the various embodiments of the present invention may be utilized so as to conduct an adult video conferencing communication wherein the communication is primarily of a sexual nature. Further, a video chat room or a chat room that is provided with a video link to the hearing impaired person may utilize, for example, streaming video to enhance the communications via the interpreter at a World Wide Web chat room. Thus, the hearing impaired person may make arrangements to "meet" at a specified time on a website chat room wherein the hearing impaired person utilizes various aspects of the present invention to have the hearing impaired person's communication be translated into verbal or spoken communication and vice versa from the other parties participating in the chat room activity. This may be done either in a time delay fashion as described above that is a message to the chat room or alternatively in a relatively real-time or near real-time application in yet another embodiment of the present invention. It is particularly applicable for utilizing various embodiments of the present invention in the more recently

implemented video chat rooms that may be engaged in the utilization of a network such as the World Wide Web.

In further embodiments of the instant invention, the providing of interpreting services using the system, method and apparatus disclosed herein includes the provider's, user's and/or subscriber's use of tax incentives, such as tax credits as set forth in Appendix 1 hereto, provided by one or more governmental entities for the purchase, installation, upgrading and/or maintenance of equipment and/or purchase of services and/or subscriptions for the above mentioned interpretation and/or translation services .

Appendix 1

Disability-Related Tax Provisions Applicable to Businesses Excerpted from the ADA Handbook; Appendix G, Tax Provisions

The three disability-related provisions in the Internal Revenue Code applicable to businesses described below are of particular interest to businesses and people with disabilities:

1) Targeted Jobs Tax Credit (Title 26, Internal Revenue Code, section 51)

Employers are eligible to receive a tax credit in the amount of 40 percent of the first \$6,000 of first-year wages of a new employee who has a disability. There is no credit after the first year of employment. For an employer to qualify for the credit, a worker must have been employed for at least 90 days or have completed at least 120 hours of work for the employer. The Revenue Reconciliation Act of 1990, Public Law 101-508, extended this tax credit through December 31, 1991.

2) Tax Deduction to Remove Architectural and Transportation Barriers to People with Disabilities and Elderly Individuals (Title 26, Internal Revenue Code, section 190)

Allows a deduction for "qualified architectural and transportation barrier removal expenses."

Only expenditures that are for the purpose of making any facility or public transportation vehicle owned or leased by the tax payer for use in connection with his or her trade or business more accessible to, and usable by, handicapped and elderly individuals are eligible for the deduction.

The taxpayer must establish, to the satisfaction of the Secretary of the Treasury, that the resulting removal of the barrier meets the standards promulgated by the Secretary with the concurrence of the U.S. Architectural and Transportation Barriers Compliance Board.

For purposes of this section, a "handicapped individual" is any individual who has a physical or mental disability (including, but not limited tot deafness and blindness) which, for that individual, constitutes or results in a functional limitation to employment, or who has any physical or mental impairment that substantially limits one or more major life activities of that individual.

The deduction may not exceed \$15,000 for any taxable year. (The maximum deduction had been \$35,000 prior to passage of Public Law 101-508 in 1990, which lowered the maximum deduction.)

3) Disabled Access Tax Credit (Title 26, Internal Revenue Code, section 44)

This tax credit is available to "eligible small businesses" in the amount of 50 percent of "eligible access expenditures" for the taxable year that exceed \$250 but do not exceed \$10,250.

"Eligible small businesses" are those businesses with either:

a) \$1 million or less in gross receipts for the preceding tax year

OR

b) 30 or fewer full-time employees during the preceding tax year.

"Eligible access expenditures" means amounts paid or incurred by an eligible small business for the purpose of enabling the small business to comply with applicable requirements under ADA.

Certain types of expenditures are listed as included under the meaning of the term "eligible access expenditures." These include amounts paid or incurred:

- i) for the purpose of removing architectural, communication, physical, or transportation barriers that prevent a business from being accessible to, or usable by, individuals with disabilities;
- ii) to provide qualified readers, taped texts, and other effective methods of making visually delivered materials available to people with visual impairments;
- iii) to provide qualified interpreters or other effective methods of making aurally delivered materials available to individuals with hearing impairments;
- iv) to acquire or modify equipment, or devices for individuals with disabilities, or
- v) to provide other similar services, modifications, materials, or equipment.

Expenditures that are not necessary to accomplish the above mentioned purposes are not eligible. Expenses in connection with new construction are not eligible. "Disability" has the same meaning as it does in the ADA. Barrier removals or the provision of services, modifications, materials, or equipment must meet standards promulgated by the Secretary in order to be eligible.

The invention has been described in reference to particular embodiments as set forth above. However, only the preferred embodiment of the present invention, and but a few examples of its versatility are shown and described in the present disclosure. It is understood that the present invention is capable of use in various other combinations and environments, and is capable of changes or modifications within the scope of the inventive concept as expressed herein. Indeed, in still further embodiments, automated closed captioning can be used to deliver via a network, real-time, simultaneous language translations. Further still, electronic avatars can

be utilized to provide fully mobile, wireless network interpreting and simultaneous translation services enabling business travelers and tourists to have immediately available translation services irregardless of time or location. In other embodiments, a sign language motion electronic dictionary can be utilized to enable electronic based communication with direct interface between deaf and hearing-enabled parties. Applications for such dictionary could include, but is not limited to, remote ordering devices for fast food outlets, rental car outlets, and ticket purchase outlets.

In another preferred embodiment, a plurality of user computers can be contained within a single housing system. For instance, with reference to Figures 3 and 4, two user computers can be contained within a single housing 24 having a first side 26 and a second side 28, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing 26 and the means for receiving and transmitting the audio and visual information for the second user computer resides on the second side of the housing 28. In one embodiment, the audio receiver and transmitter 30 is a microphone and the visual receiver 34 and transmitter is a camera and a screen. In this manner, and with reference to Figure 5, a user, such as a doctor, could stand across from the hearing impaired person such that the user is viewing a visual transmitter on the first side, such as a screen and the hearing impaired person is viewing a visual transmitter on the second side, such as a screen. In this embodiment, the interpreter is transmitted simultaneously to both the doctor and the hearing impaired such that interpretation services are provided. In still other embodiments, and with reference to Figure 6, each user could utilize a separate hand held device. It is to be understood that this description is not intended to limit the invention. Rather, the invention is intended to encompass all permutations on the invention. For instance, the

embodiment in Figure 3 could also be utilized for foreign language interpretation services such that two user parties could communicate via interpretive services provided by the hand held network device housing the two user computers.

What is claimed is:

1. A communication services system on a computer network having a provider computer and at least one user computer, wherein the user computer is accessed by a first user and a second user, comprising:

means for receiving and transmitting audio and visual information between the provider
5 computer and the user computer; and

an interpreter accessible via the provider computer; wherein the interpreter can receive a request from the first user for interpretation services between the first user and the second user.

2. A communication services system as claimed in claim 1, wherein the
10 communication services system comprises a plurality of user computers, each user computer having means for receiving and transmitting audio and visual information between the provider computer and the user computer, wherein the user computers are in electronic communication with each other and with the provider computer.

15 3. A communication services system as claimed in claim 2, wherein the means for receiving and transmitting audio and visual information contained within a first user computer and a second user computer are contained within a single housing having a first side and a second side, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing and the means for receiving and
20 transmitting the audio and visual information for the second user computer resides on the second side of the housing.

4. A communication services system on a computer network having a provider computer and a user computer, the system comprising:

at least one communication service provider, wherein the communication service provider has predefined provision of service criteria;

5 means for operating the provider computer to receive a request for communication services from a user via the user computer, the request for communication services including user-defined request criteria;

means for operating the provider computer to compare user-defined request criteria with the predefined provision of service criteria; and

10 means for providing the communication service provider to the user.

5. A communication services system as claimed in claim 4, wherein the user-defined criteria includes a criteria that the communication services provider is within a specified geographic area.

15 6. A communication services system as claimed in claim 4, wherein the communication service provider possesses a wireless communication device and is capable of providing communication services while translocating from one location to another.

20 7. A method for providing communication services on a computer network having a provider computer and a user computer, the communication services having a plurality of communication service providers, wherein each communication service provider has predefined provision of service criteria, the method comprising:

receiving a request for communication services on the provider computer from a user via the user computer, the request for communication services including user-selected request for service criteria;

5 comparing, on the provider computer, user-selected request for service criteria with the predefined provision of service criterion of the plurality of communication service providers to determine a degree of match;

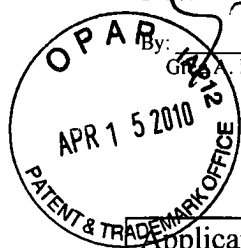
choosing a communication service provider from the degree of match; and

10 providing, from the provider computer, the chosen communication service provider with the user, wherein the communication service provider provides communication services to the user.

Abstract

Embodiments of the present invention comprises a system, method, and apparatus that provides for the utilization of a relatively real-time or near real-time interpretation or translation that may be utilized preferably for a relatively short duration of time on a network. A preferred embodiment of the present invention provides online, real-time, short-duration interpreting services in a network-based format. In preferred embodiments, the interpreting system comprises at least one provider computer, such as a server, wherein the provider computer is capable of communicating with user computers via a network. In one preferred embodiment, the provider computer provides a series of web pages that allow access to the interpreting system, including, but not limited to, a request for service page, wherein a user can access the system and input a request for interpreting services. Interpreting services are then provided to a user and a third party desiring to communicate with the user via the network.

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class U.S. Mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 8, 2010.



By: Gregory A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Robert G. Klinefelter and Gregory A. Piccionelli	
Title:	A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK	
Appl. No.:	12/658,496	
Filing Date:	February 8, 2010	
Examiner:	Unknown	
Art Unit:	2626	
Confirmation No.	Unknown	

AMENDMENT TRANSMITTAL

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

Sir:

Transmitted herewith is: (1) an amendment in the above-identified application, (2) a Substitute Specification (clean copy), and (3) a marked-up copy of the original specification.

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

☐ Assertion of Small Entity status is enclosed.

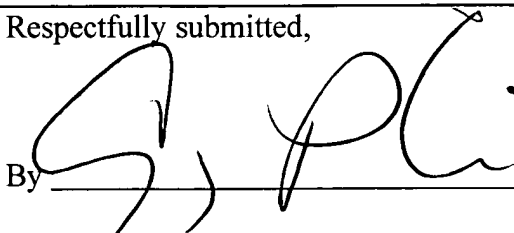
☒ The fee required for additional claims is calculated below:

	Claims As Amended	Previously Paid For	Extra Claims Present	Rate	Additional Claims Fee
Total Claims:	<u>13</u>	- <u>20</u>	= 0	x \$52.00	= \$0.00
Independent Claims:	<u>3</u>	-	= 0	x \$220.00	= \$0.00
First presentation of any Multiple Dependent Claims: + \$390.00					= \$0.00
CLAIMS FEE TOTAL					= \$0.00

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

☐ Extension for response filed within the first month:	\$130.00	\$0.00
☐ Extension for response filed within the second month:	\$490.00	\$0.00
☐ Extension for response filed within the third month:	\$1,110.00	\$0.00
☐ Extension for response filed within the fourth month:	\$1,730.00	\$0.00
☐ Extension for response filed within the fifth month:	\$2,350.00	\$0.00
EXTENSION FEE TOTAL:		\$0.00
☐ Statutory Disclaimer Fee under 37 C.F.R. 1.20(d):	\$140.00	\$0.00
CLAIMS, EXTENSION AND DISCLAIMER FEE TOTAL:		\$0.00
☐ Small Entity Fees Apply (subtract 1/2 of above):		\$0.00
Extension Fees Previously Paid:		\$0.00
TOTAL FEE:		\$0.00

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

<p>Date <u>April 8, 2010</u></p> <p><u>Correspondence Address:</u> Gregory A. Piccionelli Piccionelli & Sarno 2801 Townsgate Road, Suite 200 Westlake Village, CA 91361 Telephone: (805) 497-5886 Facsimile: (805) 497-7046</p>	<p>Respectfully submitted,</p> <p>By </p> <p>Gregory A. Piccionelli Applicant and Attorney Registration No. 39,534</p>
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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
12/658,496	02/08/2010	2626	545	GT012	13	3

CONFIRMATION NO. 8099

UPDATED FILING RECEIPT



PICCIONELLI & SARNO
A Professional Association
Suite 200
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Westlake Village, CA 91361

Date Mailed: 04/29/2010

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**

Applicant(s)

Robert Glen Klinefelter, Long Beach, CA;
Gregory A. Piccionelli, Westlake Village, CA;

Power of Attorney:

Gregory Piccionelli--39534
Anna Vradenburgh--39868

Domestic Priority data as claimed by applicant

This application is a DIV of 10/057,131 10/25/2001
which claims benefit of 60/243,162 10/25/2000

Foreign Applications

If Required, Foreign Filing License Granted: 03/03/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/658,496**

Projected Publication Date: 08/05/2010

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System, method, and apparatus for providing interpretive communication on a network

Preliminary Class

704

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012

CONFIRMATION NO. 8099

PUBLICATION NOTICE



OC000000042917545

PICCIONELLI & SARNO
A Professional Association
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2801 Townsgate Road
Westlake Village, CA 91361

Title:System, method, and apparatus for providing interpretive communication on a network

Publication No.US-2010-0198580-A1

Publication Date:08/05/2010

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/658,496		Filing Date 02/08/2010		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY ☒ OR			OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=		X \$	=		X \$	=
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=		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 \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		SMALL ENTITY OR			OTHER THAN SMALL ENTITY		
AMENDMENT	04/15/2010	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 13	Minus	** 20	= 0	X \$26 =	0		X \$	=
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	X \$110 =	0		X \$	=
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE	0		TOTAL ADD'L FEE	
(Column 1)			(Column 2)		SMALL ENTITY OR			OTHER THAN SMALL ENTITY		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$	=		X \$	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$	=		X \$	=
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/Katischa R. Wanzer/

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

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



22w

**CHANGE OF
CORRESPONDENCE ADDRESS**
Application

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

Application Number	12/658,496
Filing Date	February 8, 2010
First Named Inventor	Klinefelter
Art Unit	2626
Examiner Name	unknown
Attorney Docket Number	GT012

Please change the Correspondence Address for the above-identified patent application to:

☐ The address associated with
Customer Number:

OR

☒ Firm or
Individual Name Gregory A. Piccionelli (Piccionelli & Sarno)

Address 6345 Balboa Blvd., Suite 325

City Encino

State CA

Zip 91316

Country USA

Telephone (818) 201-3955

Email

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

I am the:

☒ Applicant/Inventor

☐ Assignee of record of the entire interest.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

☐ Attorney or agent of record. Registration Number _____

☐ Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number _____

Signature

Typed or Printed
Name

Gregory A. Piccionelli

Date

11-1-10

Telephone

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ *Total of _____ forms are submitted.

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

7590 04/12/2011
PICCIONELLI & SARNO
A Professional Association
Suite 200
2801 Townsgate Road
Westlake Village, CA 91361

EXAMINER

OPSASNICK, MICHAEL N

ART UNIT	PAPER NUMBER
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2626

MAIL DATE	DELIVERY MODE
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04/12/2011

PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	12/658,496	KLINEFELTER ET AL.	
	Examiner	Art Unit	
	MICHAEL N. OPSASNICK	2626	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 18 August 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 February 2010 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|---|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) ☐ Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) ☐ Other: _____ |

DETAILED ACTION

Specification

Content of Specification

(b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.

1. Please updated the cross-reference section of the specification, as the parent case has now issued as a USPat. Correction is required.

Claim Rejections - 35 USC § 112

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

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

3. Claims 1,3-14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement.

Claims 1,3,9 contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. It is not clear how the first

computer and second computer, receiving and transmitting audio and visual information dual displays and microphones would be constructed and function within a single housing.

Dependent claims 4-8,10-14 are rejected as well since these claim depend from claims 3, 9 that have been rejected above.

Claim Rejections - 35 USC § 103

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

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

5. Claims 1,3-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498).

As per claims 1,3,9, Bennett (5926787) teaches a communications services network including multiple users/viewers(Fig. 1) receiving video information (Fig. 7) and audio translated information (col. 18 lines 18-25) wherein the users require interpretations to facilitate communication (col. 15 lines 24-44; the lawyers involved in the proceedings can request the area of case law that applies) comprising means for receiving and transmitting visual information between the provider computer and the user computer (Fig. 1,7, examiner notes that the interpreted information is available for both users on the screen -- Fig. 1, 7, 8 and col. 3 line 60 – col. 4 line 10).

As per claims 1,3,9, Bennett (5926787) does not explicitly teach the transmission of audio information as well (the optional speech input is translated using a speech recognizer and transmitted as text); however, Flores (6370498) teaches providing both text and audio in differing requested languages from original text (Fig. 4). Therefore, it would have been obvious to one of ordinary skill in the art of interpretative services to enhance the system as taught by Bennett (5926787) with text and audio translation at each individual computer because it would advantageously provide for multi-lingual use as determined by the user (Flores (6370498), col. 3 lines 45-49).

As per claim 2, the combination of Bennett (5926787) in view of Flores (6370498) teaches plurality of users and audio and visual information (Bennett (5926787), fig 1), and in combination with Flores (6370498), the audio and visual information).

As per claims 4-8,10,11 the combination of Bennett (5926787) in view of Flores (6370498) teaches that the devices used are not limited to pc's (col. 8 lines 18-24, and networks for remote access – col. 18 lines 5-11).

As per claims 12-14, the combination of Bennett (5926787) in view of Flores (6370498) teaches the recording and visual presentation of the user/interpreter (Flores (6370498), fig. 5b, video1,2 information).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see related art listed on the PTO-892 form.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Tuesday-Thursday, 9am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Richemond Dorvil, can be reached at (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).

/Michael N. Opsasnick/
Primary Examiner, Art Unit 2626
4/7/2011

Notice of References Cited	Application/Control No. 12/658,496		Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.	
	Examiner MICHAEL N. OPSASNICK		Art Unit 2626	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,926,787	07-1999	Bennett et al.	704/235
*	B	US-6,370,498	04-2002	Flores et al.	704/3
*	C	US-5,991,719	11-1999	Yazaki et al.	704/251
*	D	US-6,396,805	05-2002	Romrell, David Alfred	370/216
*	E	US-6,389,462	05-2002	Cohen et al.	709/218
*	F	US-5,109,509	04-1992	Katayama et al.	704/9
*	G	US-6,311,215	10-2001	Bakshi et al.	709/221
*	H	US-6,574,599	06-2003	Lim et al.	704/270
*	I	US-6,505,208	01-2003	Kanevsky et al.	1/1
*	J	US-6,421,425	07-2002	Bossi et al.	379/52
*	K	US-6,510,206	01-2003	Engelke et al.	379/52
*	L	US-6,826,540	11-2004	Plantec et al.	705/7.32
*	M	US-6,005,549	12-1999	Forest, Donald K.	345/157

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes

Application/Control No.

12/658,496

Examiner

MICHAEL N. OPSASNICK

Applicant(s)/Patent under
Reexamination

KLINEFELTER ET AL.

Art Unit

2626

SEARCHED

Class	Subclass	Date	Examiner
704	271	4/7/2011	MNO
379	52	4/7/2011	MNO
340	825.19	4/7/2011	MNO

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner

**SEARCH NOTES
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
see attached updated WEST search including a text restricted search covering 704/271,379/52, and 340/825.19	4/7/2011	MNO
QAS most recent interpretations of 35 U.S.C. 101 Interim Guidelines	4/7/2011	MNO

WEST Search History for Application 12658496

Creation Date: 2011040716:41

Interference Searches

Query	DB	Op.	Plur.	Thes.	Date
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011

Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(first near5 user near5 computer)		OR	YES		04-07-2011

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		04-07-2011
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		04-07-2011
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((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		04-07-2011

(((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		04-07-2011
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6370498.pn.	USPT	OR	YES		04-07-2011
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(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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		OR	YES		04-07-2011

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	USOC, EPAB, JPAB, DWPI, TDBD				
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	TDBD				
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user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011

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((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		04-07-2011
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assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))					
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB,	OR	YES		04-07-2011

		DWPI, TDBD				
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CONFIRMATION NO. 8099

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
12/658,496	02/08/2010	704	2626	GT012		
RULE						
APPLICANTS Robert Glen Klinefelter, Long Beach, CA; Gregory A. Piccionelli, Westlake Village, CA; ** CONTINUING DATA ***** This application is a DIV of 10/057,131 10/25/2001 PAT 7,792,676 which claims benefit of 60/243,162 10/25/2000 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 03/03/2010						
Foreign Priority claimed	☐ Yes ☒ No	☐ Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☐ Yes ☒ No		CA	3	13	3
Verified and	/MICHAEL N OPSASNICK/ Examiner's Signature					
Acknowledged	Initials					
ADDRESS PICCIONELLI & SARNO A Professional Association Suite 200 2801 Townsgate Road Westlake Village, CA 91361 UNITED STATES						
TITLE System, method, and apparatus for providing interpretive communication on a network						
FILING FEE RECEIVED 545	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			

<i>Index of Claims</i> 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
	Examiner MICHAEL N OPSASNICK	Art Unit 2626

✓	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	04/07/2011	04/07/2011	04/07/2011					
	1	✓							
	2	-							
	3	✓							
	4	✓							
	5	✓							
	6	✓							
	7	✓							
	8	✓							
	9	✓							
	10	✓							
	11	✓							
	12	✓							
	13	✓							
	14	✓							

Serial No.: 12/658,496

GT-0017

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class U.S. Mail, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 12, 2011.

By:

Gregory A. Piccionelli



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Robert Glen Klinefelter and Gregory A. Piccionelli	
Title:	SYSTEM METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK	
Appl. No.:	12/658,496	
Filing Date:	02/08/10	
Examiner:	M. Opsasnick	
Art Unit:	2626	
Confirmation No.:	8099	

AMENDMENT AND REPLY UNDER 37 CFR 1.111

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

Sir:

This communication is responsive to the Office Action dated April 12, 2011, concerning the above-referenced patent application.

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

Remarks/Arguments begin on page **Error! Reference source not found.** 7 of this document.

1. Please amend the application as follows:

In the claims:

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

1. (Currently Amended) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the ~~provide~~ provider computer and the user computer.

2. (Canceled)

3. (Original) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

- means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

- means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer;

wherein the plurality of user computers comprise a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, the first user computer having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer having a second means for manual input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider computer and the first user computer at the same time that the second user is able to access the second user

computer to receive or transmit information between the provider computer and the first user computer.

4. (Original) A communication services system as claimed in claim 1, wherein at least one of either the provider computer, the at least one user computer, or interpreter computer comprises a hand-held device.

5. (Original) A communication services system as claimed in claim 4, the at least one of either provider computer user computer, or interpreter computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

6. (Original) A communication services system as claimed in claim 1, wherein at least one of the provider computer and the user computer comprises a hand-held device.

7. (Original) A communication services system as claimed in claim 6, the provider computer and user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

8. (Original) A communication services system as claimed in claim 3, wherein the user computers each comprise a hand-held device.

9. (Original) A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user, comprising:

at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further

configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information;

the at least one user computer comprising a housing having a first side and a second side, at least one first manual input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first manual input device and first display device resides on the first side of the housing, at least one second manual input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second manual input device and second display device resides on the second side of the housing;

wherein the first and second manual input devices and first and second display devices are arranged on the housing to allow the first user to access the at least one first manual input device and first display device at the same time that the second user is able to access the at least one second manual input device and second display device.

10. (Original) A communication services system as claimed in claim 9, the at least one user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

11. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer comprises a portable, hand-held device.

12. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is configured to transmit interpreter selection information to the provider computer, the information relating to criteria for selecting an appropriate interpreter for the interpretation services.

13. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality

of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

14. (Original) A communication services system as claimed in claim 13, wherein the at least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

15. (New) A communication services system as claimed in claim 1, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

16. (New) A communication services system as claimed in claim 3, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

17. (New) A communication services system as claimed in claim 9, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

REMARKS

Claim 1 is amended to address a minor typographical error. New claims 15-17 are added. Claims 1 and 3-17 are currently pending in the application. No new matter is added to the application. Re-examination and reconsideration of the application, as amended, and in view of the following remarks are requested.

1. Rejection Of Claims Under 35 U.S.C. §112, First Paragraph

Claims 1 and 3-14 are rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the written description requirement.

The Office states “Claims 1,3,9 contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.” The Office further states “[i]t is not clear how the first computer and second computer, receiving and transmitting audio and visual information dual displays and microphones would be constructed and function within a single housing.” Dependent claims 4-8 and 10-14 were rejected as being dependent on claims 3 or 9. The rejection is respectfully traversed.

Many of the following comments relate to claim 1, but apply in a similar manner to claims 3 and 9, as well. In particular, as shown below, it is clear from the record that each of claims 1 and 3-14 meet the written description requirement, including being supported by express written disclosure and drawings of illustrative examples, showing that the inventors had possession of the claimed invention. In addition, each of claims 1 and 3-14 would have been enabled to one of ordinary skill in the art, based on the teachings of the present disclosure and ordinary knowledge of communication device technology. The Examiner has not expressed any proper ground of rejection of the claims under 35 U.S.C. 112, second paragraph.

a. Claims Meet Written Description Requirement:

It is submitted that each of claims 1, 3 and 9 complies with 35 U.S.C. 112, first paragraph, including the written description requirement thereof.

Claim 1 recites that the at least one user computer comprises a user computer. The claim also recites that the user computer comprises a housing having a first side and a second side, and the user computer further comprises a first display means and a first input means, as well as, second display means and second input means, for audio and visual information. The first display means and first input means reside on the first side of the housing. The second display means and a second input means reside on the second side of the housing. The system is configured to allow a first user to access the first side of the housing of the user computer and a second user to access the second side of the housing of the user computer, to receive and transmit information with a provider computer. Similar recitations appear in each of claims 3 and 9.

An example of a system that includes a first user computer and a second user computer contained within a single housing is described and illustrated in the original application, with reference to Figs. 3-6 and page 41, line 7 to page 42, line 2, including the following statement:

“In another preferred embodiment, a plurality of user computers can be contained within a single housing system. For instance, with reference to Figures 3 and 4, two user computers can be contained within a single housing 24 having a first side 26 and a second side 28, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing 26 and the means for receiving and transmitting the audio and visual information for the second user computer resides on the second side of the housing 28.” (page 41, lines 7-13.)

As represented by the above-quoted portion of the specification, each of the above-noted features of claim 1 is described in the written text, including a user computer that comprises a housing having a first side and a second side. This is shown in the drawings and expressly described with respect to two example sides 26 and 28 of the housing 24.

Also, as represented by the above quote, the specification also describes a first display means and a first input means for audio and visual information, where the first display means and first input means residing on the first side of the housing. It was well within the level of one of ordinary skill in the art to house a display device and an input device on one side of a housing.

In addition, as represented above quote, the specification also describes a second display means and a second input means for audio and visual information, where the second display means and second input means residing on the second side of the housing. Just as it was well within the level of one of ordinary skill in the art to house a display device and an input device on one side of a housing, it would have been well within the level that same level of skill to house a second display device and second input device on a second side of the housing (once taught by the present specification to do so).

Claims 3 and 9 further recite that the system is configured to allow the first user to access the first user computer at the same time that the second user is able to access the second user computer. Examples of such features are shown in Figs. 5 and 6 and described on page 40, line 13 to page 41, line 2.

“In this manner, and with reference to Figure 5, a user, such as a doctor, could stand across from the hearing impaired person such that the user is viewing a visual transmitter on the first side, such as a screen and the hearing impaired person is viewing a visual transmitter on the second side, such as a screen.” (page 40, lines 14-17.)

One of ordinary skill in the art would clearly understand from such description and Figs. 3-6, that the inventors had possession of the above-recited features of claims 1, 3 and 9. The correspondence of the express, written description in the specification to the claim language and the visual representations of examples in the drawings, shows that the specification would have conveyed to one skilled in the art, that the inventors had possession of the above-noted features recited in claims 1, 3 and 9.

It is submitted that one of ordinary skill in the art would clearly understand from the original disclosure, including Figs. 3-6, that the inventors had possession of the features recited in claims 1, 3 and 9. The rejection of claims 1 and 3-14 as lacking written description is, therefore, respectfully traversed.

b. Claims Meet Enablement Requirement:

It is respectfully submitted that the specification and drawings are sufficient to convey to one of ordinary skill in the art sufficient information to know how the claimed invention can be constructed and function. Examples illustrated in the drawings of Figs. 3-6 show a housing 24 that has two sides (two faces) 26 and 28. Those drawings also show that devices for manual input and output of audio and visual information can be supported in the housing in a manner such that such devices are accessible for manual input of information from each of the two sides of the housing. In the illustrated examples, display screens, microphones and cameras are arranged in user-accessible positions on each of the two sides 26 and 28 of a housing 24. Based on the express description and drawings of Figs. 3-6, it is respectfully submitted that one of ordinary skill in the art would be able to construct a single housing that supports first and second sets of input/output devices on two respective sides. The use of ordinary mounting hardware, as well as specially designed mounting structures would be well within the level of skill of one of ordinary skill in the art, once taught (by the present specification) to arrange input/output devices on two sides of a housing.

In addition, the manner in which first and second display devices, first and second input devices and/or first and second user computers function in separate housings is well known in the art. It would be well within the skill of one of ordinary skill in the art to contain first and second computers in a single housing, once taught by the present disclosure to do so. The first and second computers may provide input/output and processing functions described in the present application, just as two separately housed computers would function, but inside of a single housing with first and second sets of input/output devices arranged on two respective sides of the housing.

However, by containing the two computers in a single housing with input/output devices on two sides of the housing, significant advantages in operation, efficiency and usability are provided, as described in the present specification with respect to the description of Figures 4-6. Just as it was within the level of skill of one of ordinary skill in the art to contain and operate first and second computers in first and second respective housings, it is respectfully submitted that it would have been well within the level of skill to contain and operate first and second

computers in a single housing, but arranged with input/output devices on two sides of the housing, as claimed, once taught to do so by the present application. Similar comments apply with respect to containing a computer having first and second display means and/or first and second input means residing on first and second respective sides of the housing as recited in claims 1 and 9.

Accordingly, it is respectfully submitted that the claims 3, 13 and 38-40 comply with 35 U.S.C. 112, first paragraph. The rejection of those claims is, therefore, respectfully traversed.

2. Rejection Under 35 U.S.C. 103(a):

The Office rejects claims 1 and 3-14 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,926,787 to Bennett et al. in view of U.S. Patent No. 6,370,498 to Flores et al. The Applicant respectfully disagrees and traverses this rejection.

It is respectfully submitted that, the present claims are patentably distinguished over the Bennett et al. and Flores references.

For example, claim 1 recites a communication services system that includes means for receiving and transmitting information relating to a request for interpretive services between a provider computer and at least one user computer; means for communicating on the communication network with a human interpreter. The claim further recites that the at least one user computer comprises a housing, the housing having a first side and a second side. The claim further recites that the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing. The system in claim 1 is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer.

In contrast, neither Bennett nor Flores describe or suggest a system as recited in claim 1, including a housing having a first computer display and a first input means on a first side of the housing and a second computer display and a second input means on the second side of the

housing.

Instead, Bennett et al. illustrate conventional style lap-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Bennett et al., Figs. 1, 7, 9 and 10). Flores illustrates conventional style desk-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Flores, Figs. 2, 5A and 5B). None of those references describe or suggest a user computer having first and second display means (or input means) on first and second respective sides of a housing. Accordingly, the Examiner's proposed combination of Bennett and Flores would not result in the invention recited in claim 1.

Similar comments apply to each of claims 3 and 9. For example, claim 3 recites first and second user computers contained within a single housing, where the first user computer has a first means for manual input/output of audio and visual information on the first side of the housing. The second user computer has a second means for manual input/output of audio and visual information on the second side of the housing. Such features are neither disclosed nor suggested by Bennett or Flores (alone or in the combination proposed by the Examiner).

Accordingly, each of claims 1, 3 and 9 are patentably distinguished from Bennett and Flores. The rejection of claims 1, 3 and 9 (and dependent claims 4-8 and 10-14), is respectfully traversed.

Furthermore, claims 1 and 3 are further distinguished from the references of record (including Bennett and Flores), in those claims recites "means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer ..." Accordingly, claims 1 and 3 refer to a human interpreter in the body of the claim to reinforce a distinction over Bennet and Flores.

The Bennett disclosure "relates to a computer-aided *transcription* system used by court reporters which provides readable testimony to attorneys, judges, court reporters, witnesses and clients in real time." (emphasis added) Col. 1, lines 25-28. In Bennett, a court reporter, using a set of keys "in various combinations and sequences to represent spoken words" (col. 1, lines 36-39) records testimony in open court. These key-strokes are transcribed into pre-assigned words, wherein the key-stroke and associated word is stored in a cross-reference database. The

transcription ability of the Computer Aided Transcription (“CAT”) system in the Bennett reference is limited by the cross-reference library provided by the court reporter.

In contrast, claims 1 and 3 refer to “a plurality of interpreter computers, each interpreter computer has an input/output device for manual operation by a respective one of the *human* interpreters.” (Emphasis added.) Claims 1 and 3 further recite “means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer ...” (Emphasis added.) The Examiner has not addressed the above features of claims 1 and 3. The Examiner has, thus, failed to raise a prima facie case of obviousness of those claims (and claims dependent thereon).

Also, in vast contrast to claims 1 and 3, the Bennett reference utilizes an *automated* process for translating the stenographers (users) input codes into language readable by the attorneys. The libraries in the Bennett system are cross reference libraries that corresponds the input to a predesignated output, which automatically cross reference the input to the predefined output. In Bennett, it is “CAT [that] offers an interpretation”, as stated by the Office at page 3, which is automated. The CAT has no “input/output device for manual operation by a respective one of the human interpreters” (claims 1 and 3) or “means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers ...” (claims 1 and 3).

Clearly, the ability of a human being to discern nuances in communication by the users and to appropriately select from a *number* of possible word choices is very distinctive from the slavish correlative procedure constrained by the “words” stored in the Bennett library. Additionally, language interpretation is more than correlating words in language A to words in language B. It requires “interpretation” involving the nuances of culture and judgment performed by a *human*, including “reading” the expression on the faces of the persons speaking to and applying the interpreter’s evaluation of the “tone” of the person’s voice to make such evaluation to make such interpretations. It is a well-known truism that many times it is not what a person says that is the primary communication but rather *how* it is said. Only a human interpretation can factor in such considerations in performing linguistic interpretation services.

Thus, the Examiner’s proposed combination of Bennett and Flores fails to teach or

suggest independent claims 1 or 3. Accordingly, claims 1, 3 (and dependent claims 4-8, which depend directly or indirectly from claim 1 or claim 3) are allowable. The rejection of claims 1 and 3 is further respectfully traversed.

Regarding claims 4-8, 10 and 11, the Office states that the combination of Bennett in view of Flores “teaches that the devices are not limited to pc’s”. The Office refers to column 8, lines 18-24 and column 18, lines 5-11, but fails to identify which reference. The Applicant has reviewed these columns in both the Bennett and Flores patents, and believes the Office intended to cite column 18, lines 18-24 of the Bennett reference. Column 18, lines 18-24 of the Bennett reference recites that “although a stenographic recorder 11 is illustrated ...other *recording* techniques are contemplated.” The reference cites a voice transcription technique or a pen-based note-pad computer having OCR software.

This language fails to teach “a hand held device” as required by claims 4, 6, 8 and 11, “portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device” as required by claims 5, 7 and 10. Indeed, the Bennett device must be a *recording* technique that is usable in the courtroom and have the capability of performing the functions of the stenographic machine. In this regard Bennett teaches *away* from a live interpretation and translation process. Further still, the recording technique is limited to the stenographer, and is not extended to the user computers.

Accordingly, the rejection of dependent claims 4, 6, 8 and 11 is further respectfully traversed.

New claims 15-17 are added and are dependent on claims 1, 3 and 9, respectively. Each of new claims 15-17 recites that the first side of the housing and the second side of the housing face mutually opposite directions. An example embodiment of a housing for a user computer, having a display and input device on a first side and another display and input device on a second side (facing opposite to the first side) is shown in the drawings of Figs. 3-6 of the present application. Accordingly, claims 15-17 add no new matter to the application. Furthermore, those claims are further distinguished from the references of record, including Bennett and Flores, as discussed above.

Applicant believes that the present application is now in condition for allowance.

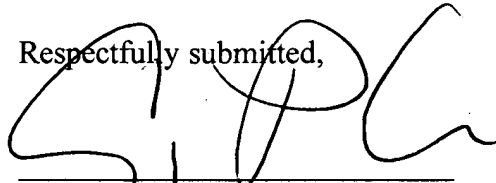
Serial No.: 12/658,496

GT-0017

Favorable reconsideration of the application as amended is respectfully requested.

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

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'G. Piccionelli', written over a horizontal line.

Gregory A. Piccionelli
Reg. No. 39,534

Dated: July 12, 2011

Correspondence Address:

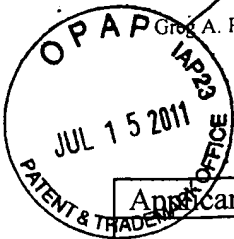
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Fax: (818) 332-4205

TFW

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By:

Greg A. Piccionelli



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Robert Glen Klinefelter and Gregory A. Piccionelli	
Title:	SYSTEM METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK	
Appl. No.:	12/658,496	
Filing Date:	02/08/10	
Examiner:	M. Opsasnick	
Art Unit:	2626	
Confirmation No.:	8099	

AMENDMENT TRANSMITTAL

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

Sir:

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

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

☐ Assertion of Small Entity status is enclosed.

☒ The fee required for additional claims is calculated below:

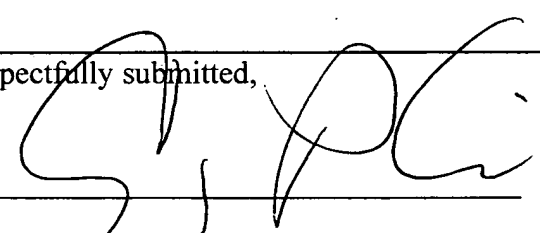
Claims As	Previously	Extra Claims	Rate	Additional
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	Amended		Paid For		Present		Claims Fee
Total Claims:	<u>17</u>	-	<u>20</u>	=	0	x \$52.00 =	\$0.00
Independent Claims:	<u>3</u>	-		=	0	x \$220.00 =	\$0.00
First presentation of any Multiple Dependent Claims: + \$390.00 =							\$0.00
CLAIMS FEE TOTAL =							\$0.00

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

[] Extension for response filed within the first month:	\$130.00	\$0.00
[] Extension for response filed within the second month:	\$490.00	\$0.00
[] Extension for response filed within the third month:	\$1,110.00	\$0.00
[] Extension for response filed within the fourth month:	\$1,730.00	\$0.00
[] Extension for response filed within the fifth month:	\$2,350.00	\$0.00
EXTENSION FEE TOTAL:		\$0.00
[] Statutory Disclaimer Fee under 37 C.F.R. 1.20(d):	\$140.00	\$0.00
CLAIMS, EXTENSION AND DISCLAIMER FEE TOTAL:		\$0.00
[] Small Entity Fees Apply (subtract ½ of above):		\$0.00
Extension Fees Previously Paid:		\$0.00
TOTAL FEE:		\$0.00

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

Date <u>July 12, 2011</u> <u>Correspondence Address:</u> Gregory A. Piccionelli Piccionelli & Sarno c/o Eclipse Group 6345 Balboa Blvd., Suite 325 Encino, CA 91316 Tel: (818) 488-8146 Fax: (818) 332-4205	Respectfully submitted,  By _____ Gregory A. Piccionelli Registration No. 32,933
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/658,496		Filing Date 02/08/2010		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)			SMALL ENTITY ☒ OR		OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*	X \$	=	OR	X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		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 \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
			TOTAL			TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	07/15/2011	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 17	Minus	** 20	= 0	X \$26 =	0	OR	X \$ =	
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	X \$110 =	0	OR	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE		
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =	OR	X \$ =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =	OR	X \$ =		
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE		TOTAL ADD'L FEE			
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>										

Legal Instrument Examiner:
/DEBRA R. WYATT/

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

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

7590 09/30/2011
PICCIONELLI & SARNO
A Professional Association
Suite 200
2801 Townsgate Road
Westlake Village, CA 91361

EXAMINER

OPSASNICK, MICHAEL N

ART UNIT	PAPER NUMBER
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2626

MAIL DATE	DELIVERY MODE
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09/30/2011

PAPER

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

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

Office Action Summary	Application No. 12/658,496	Applicant(s) KLINEFELTER ET AL.	
	Examiner MICHAEL N. OPSASNICK	Art Unit 2626	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 15 July 2011.
- 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 and 3-17 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 and 3-17 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

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).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) ☐ Other: ____. |

DETAILED ACTION

Specification

Content of Specification

(b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.

1. Please updated the cross-reference section of the specification, as the parent case has now issued as a USPat. Correction is required.

Claim Rejections - 35 USC § 112

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

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

3. Claims 1,3-14,15-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement.

Claims 1,3,9 contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. It is not clear how the first

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computer and second computer, receiving and transmitting audio and visual information dual displays and microphones would be constructed and function within a single housing.

Dependent claims 4-8,10-17 are rejected as well since these claim depend from claims 3, 9 that have been rejected above.

Claim Rejections - 35 USC § 103

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

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

5. Claims 1,3-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498).

As per claims 1,3,9, Bennett (5926787) teaches a communications services network including multiple users/viewers(Fig. 1) receiving video information (Fig. 7) and audio translated information (col. 18 lines 18-25) wherein the users require interpretations to facilitate communication (col. 15 lines 24-44; the lawyers involved in the proceedings can request the area of case law that applies) comprising means for receiving and transmitting visual information between the provider computer and the user computer (Fig. 1,7, examiner notes that the interpreted information is available for both users on the screen -- Fig. 1, 7, 8 and col. 3 line 60 – col. 4 line 10).

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As per claims 1,3,9, Bennett (5926787) does not explicitly teach the transmission of audio information as well (the optional speech input is translated using a speech recognizer and transmitted as text); however, Flores (6370498) teaches providing both text and audio in differing requested languages from original text (Fig. 4). Therefore, it would have been obvious to one of ordinary skill in the art of interpretative services to enhance the system as taught by Bennett (5926787) with text and audio translation at each individual computer because it would advantageously provide for multi-lingual use as determined by the user (Flores (6370498), col. 3 lines 45-49).

As per claim 2, the combination of Bennett (5926787) in view of Flores (6370498) teaches plurality of users and audio and visual information (Bennett (5926787), fig 1), and in combination with Flores (6370498), the audio and visual information).

As per claims 4-8,10,11 the combination of Bennett (5926787) in view of Flores (6370498) teaches that the devices used are not limited to pc's (col. 8 lines 18-24, and networks for remote access – col. 18 lines 5-11).

As per claims 12-14, the combination of Bennett (5926787) in view of Flores (6370498) teaches the recording and visual presentation of the user/interpreter (Flores (6370498), fig. 5b, video1,2 information).

Response to Arguments

6. Applicant's arguments filed 7/15/2011 have been fully considered but they are not persuasive.

As per applicants arguments against the 112 1st rejections: 1) with respect to the written description requirement, examiner argues that the current claim scope is not supported by the specification - although there are drawings showing a display/microphone, the written description does not describe the intercommunication between the two sides (as claimed), applicants disclosure states "...user computers can be contained within a single housing system.." -- the disclosure states "can be contained", but there is no adequate description to the functionality of the communication of the two sides; 2) with respect to the enablement requirement, no-where in applicants disclosure is a description to the "how" of making a dual sided display housing, nor the communication protocols between each panel side.

As to applicants arguments against the double sided display not being taught by the Bennett/Flores references, examiner argues that applicants do not have support in their disclosure for these claim limitations (and furthermore, examiner points to Carroll et al (6121960), and Ekedahl et al (6259491) teaching such claim limitations.

As per applicants argument from the page 6 to top of page 7, examiner disagrees and argues that the Bennett et al reference teaches both interpretative and translational services (the disclosed CAT - computer aided transcription), along with language translation (abstract). Furthermore, Bennett et al teaches an interpretative transcription service that is an improvement over traditional interpretative services (col. 2 line 44 - col. 3 line 5). In other words, Bennett

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teaches both an improved automated transcription/interpretative service, along with more traditional interpretative services; wherein both disclosures meet the current claim scope. As to applicant's arguments toward "the complex process of interpretation and translation of human communications that are effectuated through a combination of audio and visual cues", examiner argues that 1) Bennett discloses older systems that use such interpretations - col. 2 line 44 - col. 3 line 5; 2) Bennett discloses an improved interpretative service to counteract miscommunication/misunderstanding between such translations by automating, to a degree, the amount of interpretation - col. 5 lines 1-20 - the automated portion of Bennett overcomes possible misinterpretation of the court stenographer (interpreter) by offering visual feedback- col. 5 lines 30-45); 3) Bennett discloses "translation" - col. 13 lines 30 - col. 14 line 27; as well as interpretation - the CAT offers an interpretation of the input by the court stenographer - col. 6 lines 1-25). As per the arguments on page 10 of the response, Bennett offers users an interpretation, especially when a different language is required (col. 13 and 14).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see related art listed on the PTO-892 form.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Tuesday-Thursday, 9am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Richemond Dorvil, can be reached at (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).

/Michael N. Opsasnick/
Primary Examiner, Art Unit 2626
9/28/2011

Notice of References Cited	Application/Control No. 12/658,496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.	
	Examiner MICHAEL N. OPSASNICK	Art Unit 2626	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,259,491	07-2001	Ekedahl et al.	349/23
*	B	US-6,121,960	09-2000	Carroll et al.	345/173
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

WEST Search History for Application 12658496

Creation Date: 2011092808:06

Interference Searches

Query	DB	Op.	Plur.	Thes.	Date
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011

Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011

((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		04-07-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	OR	YES		04-07-2011
(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		04-07-2011
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		04-07-2011
((image near7 interpret\$4) and (translat\$)) and ((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		04-07-2011
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	OR	YES		04-07-2011
6470498.pn.	USPT	OR	YES		04-07-2011
6370498.pn.	USPT	OR	YES		04-07-2011
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(379/52).ccls.	PGPB, USPT, USOC,	OR	YES		04-07-2011

	EPAB, JPAB, DWPI, TDBD				
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011

(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$	PGPB, USPT,	OR	YES		04-07-2011

and (language or linguistic) and impair\$4)	USOC, EPAB, JPAB, DWPI, TDBD				
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		04-07-2011

	TDBD				
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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	EPAB, JPAB, DWPI, TDBD				
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011

((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		04-07-2011
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011

((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB,	OR	YES		09-28-2011

	JPAB, DWPI, TDBD				
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
		OR	YES		09-28-2011

((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	OR	YES		09-28-2011
(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		09-28-2011
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		09-28-2011
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		09-28-2011
	USPT	OR	YES		09-28-2011

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6370498.pn.	USPT	OR	YES		09-28-2011
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
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interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		09-28-2011

	TDBD				
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011

((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
2003009275	PGPB, USPT, USOC, EPAB,	OR	YES		09-28-2011

	JPAB, DWPI, TDBD				
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operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6421425.pn. and operator		OR	YES		09-28-2011

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB,	OR	YES		09-28-2011

	JPAB, DWPI, TDBD				
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
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((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		09-28-2011
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB,	OR	YES		09-28-2011

	JPAB, DWPI, TDBD				
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011

<i>Index of Claims</i> 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
	Examiner MICHAEL N OPSASNICK	Art Unit 2626

✓	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	04/07/2011	09/28/2011	04/07/2011						
	1	✓	✓							
	2	-	-							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15		✓							
	16		✓							
	17		✓							

Search Notes 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
	Examiner MICHAEL N OPSASNICK	Art Unit 2626

SEARCHED			
Class	Subclass	Date	Examiner
704	271	9/28/11	mno
379	52	9/28/11	mno
340	825.19	9/28/11	mno

SEARCH NOTES		
Search Notes	Date	Examiner
west search; 101;odp	9/28/2011	mno

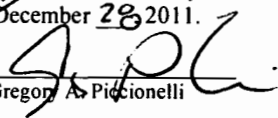
INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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Atty. Dkt. No. GT-12

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class U.S. mail, in an envelope addressed to Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 28, 2011.

By: 
Gregory A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert Glen KLINEFELTER, et al.
Title: SYSTEM, METHOD AND APPARATUS
FOR PROVIDING INTERPRETIVE
COMMUNICATION ON A NETWORK
Appl. No.: 12/658,496
Filing Date: February 8, 2010
Examiner: Michael N. Opsasnick
Art Unit: 2626
Confirmation No.: 8099

**NOTICE OF APPEAL FROM THE EXAMINER TO THE BOARD
OF PATENT APPEALS AND INTERFERENCES**

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

Sir:

Applicant hereby appeals to the Board of Patent Appeals and Interferences from the decision of the Examiner in the Final Office Action dated September 30, 2011, finally rejecting Claims 1 and 3-17.

- ☐ Applicant claims small entity status.
- ☒ Applicant hereby petitions for an extension of time under 37 C.F.R. §1.136(a) for the total number of months checked below:
- ☒ Notice of Appeal Fee

☒ To be paid as detailed below

The required fees are calculated below:

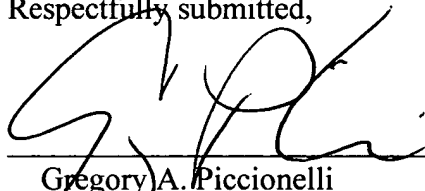
☒	Notice of Appeal Fee	\$620.00
☐	Extension month one:	\$000.00
☐	:	\$0.00
	FEE TOTAL:	\$620.00
☐	Small Entity Fees Apply (subtract ½ of above):	\$310.00
	TOTAL FEE:	\$310.00

☒ A check written to the Commissioner of Patents in the amount of \$310.00 to cover the above-noted fee for the Notice of Appeal is enclosed.

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

Respectfully submitted,

Date: December 27, 2011

By: 

Gregory A. Piccionelli
Registration No. 39,534

Correspondence Address:

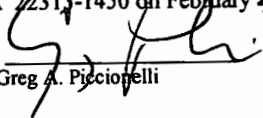
Gregory A. Piccionelli
c/o Piccionelli & Sarno
c/o Eclipse Group
6345 Balboa Blvd., Suite 325
Encino, CA 91316
Tel: (818) 488-8146
Fax: (818) 332-4205



Atty. Dkt. No. GT12

AF/IFW

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class U.S. Mail in an envelope addressed to Mail Stop Appeal Brief - Patents, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 27, 2012.

By: 
Greg A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert G. Klinefelter and Gregory A. Piccionelli

Title: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK

Appl. No.: 12/658,496

Filing Date: February 8, 2010

Examiner: Michael N Opsasnick

Art Unit: 2626

APPEAL BRIEF UNDER 37 CFR 41.37

Mail Stop Appeal Brief - Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Under the provisions of 37 C.F.R. § 41.37, this Appeal Brief is being filed together with a check in the amount of \$620.00, covering the 37 C.F.R. 41.20(b)(2) appeal brief fee.

This communication is an Appeal Brief, responsive to the Final Office Action dated September 30, 2011, concerning the above-referenced patent application.

03/02/2012 HBLANCO 00000001 12650496
01 FC:1402 620.00 OP

I. Real Party In Interest

The real party in interest for the above referenced patent application and the present Appeal is the assignee for the above referenced patent application, KP Innovations, LLC, in accordance with the assignment from the inventors recorded on February 27, 2012 (Copy attached).

II. Related Appeals And Interferences

Applicant is not aware of any related appeals, interferences or legal proceedings that would have a bearing on the Board's decision in the present Appeal. However, the present patent application is related to (and claims the priority filing date of) U.S. Patent Application No. 10/057,131, filed October 25, 2001 and U.S. Provisional Patent Application No. 60/243,162, filed October 25, 2000.

III. Status Of The Claims

Claims 1 and 3-17 are pending in the application, each of which is included in a rejection under a specific ground identified in the Final Office Action and discussed in Sections VI. and VII., below. Claim 2 had been cancelled without prejudice or disclaimer.

The present appeal relates to each of the above-referenced rejections and, thus, all of the rejected claims (i.e., claims 1 and 3-17).

IV. Status Of Amendments

A Final Office Action was mailed on September 30, 2011. A Notice of Appeal was filed on December 28, 2011. No Amendment was filed, following the Final Office Action of September 30, 2011. However, an Amendment in response to a non-final Office Action had been filed on July 12, 2011, and has been entered in the application.

V. Summary Of Claimed Subject Matter

Embodiments of the present invention relate, generally, to communication services systems and methods that are operable with a plurality of human interpreters on a computer network. Each interpreter communicates with the system on a computer over the network. Users on user computers may access the system by communicating a request to a provider

computer for interpretation services. By matching appropriate criteria, the provider computer selects an interpreter and the interpreter is connected for communication with user computers.

At least one user computer is accessible by a first user and a second user who desire the services of a human interpreter to facilitate communication. In one example, the first user and second user may require a sign-language interpreter to provide sign language interpretation to the first and/or second user of audible speech input by one or both of the first and second users. In other embodiments, other forms of interpretation may be employed.

In certain types of interpretation, such as, but not limited to sign-language interpretation, the interpreter may provide visible hand signs, facial expressions, and other visually perceptible information as part of the interpretation of audible speech. In addition, the first and/or second users may provide visible information (including, but not limited to hand signs, facial expressions and other visible information) as part of the information that is being communicated to the other of the first and/or second user, through the interpreter. Accordingly, the visual display of a human interpreter can enhance the interpretation capabilities. Furthermore, the capture and communication of visible information from the first and second user to the interpreter can enhance the interpretation capabilities.

A system according to embodiments of the present invention can provide enhanced interpretation capabilities by providing the at least one user computer within a single housing having a first display device and a first input device on a first side of the housing, while also providing a second input device and a second display device on a second side of the housing. The system allows a first user to access the first side of the housing (including the first display device and the first input device), while also allowing a second user to access the second side of the housing (including the second display device and the second input device). In this regard, computer housing may be held or otherwise supported at a position between the first and second users, to allow the first and second users to access the first and second display and input devices, respectively, to receive and transmit information from and to the provider computer. Accordingly, an interpretation service can be carried out to interpret a conversation between the first and second user, with an interpreter (for example, a human interpreter) connected for communication with the at least one computer (including the first and second display and input devices).

Embodiments of the claimed invention are described in the specification and drawings of the original application. As examples of such support for the invention recited in each of the independent claims 1, 3 and 9 is shown in the following claim charts:

CLAIM 1	SPECIFICATION AND DRAWINGS
<p>A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:</p>	<p>Paragraphs 15 and 32 describe a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. Paragraph 33 describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer.</p>
<p>means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services</p>	<p>Fig. 2 shows a user computer and a provider computer connected on a communication network. Paragraph 18 describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters.</p>
<p>means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user</p>	<p>Paragraph 36 describes receipt of a request for services, matching criteria for the interpreter requested and effectuating an audio-video graphic connection between the interpreter and the user. Paragraphs 48 and 49 describe an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. Examples of such technologies are described in paragraph 49, including Real Networks, CUSeeMe and Net Meeting.</p>
<p>wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means</p>	<p>Paragraph 113 describes a housing 24 for user computers. The housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information. Figs. 3-6 also show that the output devices can include</p>

residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide provider computer and the user computer	display screens 34 (one on each side of the housing 24) and input devices can include cameras 34 and microphones 30 (one of each on each side of the housing 24. Figs. 4-6 show how a first user can access input/output devices on one side of the housing while a second user accesses input/output devices on the second side of the housing.
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CLAIM 3	SPECIFICATION AND DRAWINGS
A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:	Paragraphs 15 and 32 describe a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. Paragraph 33 describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer.
means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services	Fig. 2 shows a user computer and a provider computer connected on a communication network. Paragraph 18 describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters.
means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user	Paragraph 36 describes receipt of a request for services, matching criteria for the interpreter requested and effectuating an audio-video graphic connection between the interpreter and the user. Paragraphs 48 and 49 describe an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. Examples of such technologies are described in paragraph 49, including Real Networks, CUSeeMe and Net

	Meeting.
wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer	Paragraph 113 describes a plurality of user computers in a single housing. Figs. 3 and 4 show a user computer housing 26 as including an audio receiver and transmitter 30 and visual receiver and transmitter 34. Fig. 1 shows a user computer 12 connected in electronic communication over a communications network with an Interpreter computer 18. Fig. 2 shows a user computer connected in electronic communication over a communications network with a provider computer. Paragraphs 48 and 49 describe an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies such as Real Networks, CUSeeMe and Net Meeting.
wherein the plurality of user computers comprise a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, the first user computer having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer having a second means for manual input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider computer and the first user computer at the same time that the second user is able to access the second user computer to receive or transmit information between the provider computer and the first user computer	Paragraph 113, "two user computers" and Figs. 3 and 4. Housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information.

CLAIM 9	SPECIFICATION AND DRAWINGS
<p>A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user, comprising:</p>	<p>Paragraphs 15 and 32 describe a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. Paragraph 33 describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer.</p>
<p>at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information</p>	<p>Fig. 2 shows a user computer and a provider computer connected on a communication network. Paragraph 18 describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters. Paragraph 36 describes receipt of a request for services, matching criteria for the interpreter requested and effectuating an audio-video graphic connection between the interpreter and the user. Paragraphs 48 and 49 describe an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. Examples of such technologies are described in paragraph 49, including Real Networks, CUSeeMe and Net Meeting.</p>
<p>the at least one user computer comprising a housing having a first side and a second side, at least one first manual input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first manual input device and first display device resides on the first side of the housing, at least one second manual input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second manual input device and second display device resides on the second side of the housing</p>	<p>Paragraph 113 describes a housing 24 for user computers. The housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information. Figs. 3-6 also show that the output devices can include display screens 34 (one on each side of the housing 24) and input devices can include cameras 34 and microphones 30 (one of each on each side of the housing 24).</p>
<p>wherein the first and second manual input devices and first and second display devices are arranged on the housing to allow the first user to access the at least one first manual input device and first display device at the same time that the</p>	<p>Figs. 4-6 show how a first user can access input/output devices on one side of the housing while a second user accesses input/output devices on the second side of the housing.</p>

second user is able to access the at least one second manual input device and second display device.	
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VI. Grounds Of Rejection To Be Reviewed On Appeal

Claims 1-17 are rejected, as follows:

1. Claims 1 and 3-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement.
2. Claims 1, 3-14 are rejected under 35 U.S.C. §103(a) as being unpatentable over the Examiner's combination of Bennett (U.S. Patent No. 5,926,787) in view of Flores (U.S. Patent No. 6,370,498).

VII. Argument

1. Rejection Of Claims Under 35 U.S.C. §112, First Paragraph

Claims 1 and 3-17 are rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the written description requirement. The Examiner stated "Claims 1,3,9 contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention." The Office further states "[i]t is not clear how the first computer and second computer, receiving and transmitting audio and visual information dual displays and microphones would be constructed and function within a single housing." Dependent claims 4-8 and 10-17 were rejected as being dependent on claims 3 or 9. (See, Final Office Action, Section 3.) The rejection is respectfully traversed.

Many of the following comments relate to claim 1, but apply in a similar manner to claims 3 and 9, as well. In particular, as shown below, it is clear from the record that each of claims 1 and 3-17 meet the written description requirement, including being supported by express written disclosure and drawings of illustrative examples, showing that the inventors had possession of the claimed invention. In addition, each of claims 1 and 3-17 would have been enabled to one of ordinary skill in the art, based on the teachings of the present disclosure and ordinary knowledge of communication device technology.

a. Claims Meet Written Description Requirement:

It is submitted that each of claims 1, 3 and 9 complies with 35 U.S.C. 112, first paragraph, including the written description requirement thereof.

Claim 1 recites that the at least one user computer comprises a user computer. The claim also recites that the user computer comprises a housing having a first side and a second side, and the user computer further comprises a first display means and a first input means, as well as, second display means and second input means, for audio and visual information. The first display means and first input means reside on the first side of the housing. The second display means and a second input means reside on the second side of the housing. The system is configured to allow a first user to access the first side of the housing of the user computer and a second user to access the second side of the housing of the user computer, to receive and transmit information with a provider computer. Similar recitations appear in each of claims 3 and 9.

An example of a system that includes a first user computer and a second user computer contained within a single housing is described and illustrated in the original application, with reference to Figs. 3-6 and page 41, line 7 to page 42, line 2, including the following statement:

"In another preferred embodiment, a plurality of user computers can be contained within a single housing system. For instance, with reference to Figures 3 and 4, two user computers can be contained within a single housing 24 having a first side 26 and a second side 28, wherein the means for receiving and transmitting the audio and visual information for the first user computer resides on the first side of the housing 26 and the means for receiving and transmitting the audio and visual information for the second user computer resides on the second side of the housing 28." (Specification, page 41, lines 7-13.)

As represented by the above-quoted portion of the specification, each of the above-noted features of claim 1 is described in the written text, including a user computer that comprises a housing having a first side and a second side. This is shown in the drawings and expressly described with respect to two example sides 26 and 28 of the housing 24.

Also, as represented by the above quote, the specification also describes a first display means and a first input means for audio and visual information, where the first display means and first input means residing on the first side of the housing. It was well within the level of one of ordinary skill in the art to house a display device and an input device on one side of a housing.

In addition, as represented above quote, the specification also describes a second display means and a second input means for audio and visual information, where the second display means and second input means residing on the second side of the housing. Just as it was well within the level of one of ordinary skill in the art to house a display device and an input device on one side of a housing, it would have been well within the level that same level of skill to house a second display

device and second input device on a second side of the housing (once taught by the present specification to do so).

Claims 3 and 9 further recite that the system is configured to allow the first user to access the first user computer at the same time that the second user is able to access the second user computer. Examples of such features are shown in Figs. 5 and 6 and described on page 40, line 13 to page 41, line 2.

"In this manner, and with reference to Figure 5, a user, such as a doctor, could stand across from the hearing impaired person such that the user is viewing a visual transmitter on the first side, such as a screen and the hearing impaired person is viewing a visual transmitter on the second side, such as a screen." (page 40, lines 14-17.)

One of ordinary skill in the art would clearly understand from such description and Figs. 3-6, that the inventors had possession of the above-recited features of claims 1, 3 and 9. The correspondence of the express, written description in the specification to the claim language and the visual representations of examples in the drawings, shows that the specification would have conveyed to one skilled in the art, that the inventors had possession of the above-noted features recited in claims 1, 3 and 9.

It is submitted that one of ordinary skill in the art would clearly understand from the original disclosure, including Figs. 3-6, that the inventors had possession of the features recited in claims 1, 3 and 9. The rejection of claims 1 and 3-17 as lacking written description is, therefore, respectfully traversed.

b. Claims Meet Enablement Requirement:

It is respectfully submitted that the specification and drawings are sufficient to convey to one of ordinary skill in the art sufficient information to know how the claimed invention can be constructed and function. Examples illustrated in the drawings of Figs. 3-6 show a housing 24 that has two sides (two faces) 26 and 28. Those drawings also show that devices for manual input and output of audio and visual information can be supported in the housing in a manner such that such devices are accessible for manual input of information from each of the two sides of the housing. In the illustrated examples, display screens, microphones and cameras are arranged in user-accessible positions on each of the two sides 26 and 28 of a housing 24. Based on the express description and drawings of Figs. 3-6, it is respectfully submitted that one of ordinary skill in the art would be able to construct a single housing that supports first and second sets of input/output devices on two respective sides. The use of ordinary mounting hardware, as well as specially designed mounting

structures would be well within the level of skill of one of ordinary skill in the art, once taught (by the present specification) to arrange input/output devices on two sides of a housing.

In addition, the manner in which first and second display devices, first and second input devices and/or first and second user computers function in separate housings is well known in the art. It would be well within the skill of one of ordinary skill in the art to contain first and second computers in a single housing, once taught by the present disclosure to do so. The first and second computers may provide input/output and processing functions described in the present application, just as two separately housed computers would function, but inside of a single housing with first and second sets of input/output devices arranged on two respective sides of the housing.

However, by containing the two computers in a single housing with input/output devices on two sides of the housing, significant advantages in operation, efficiency and usability are provided, as described in the present specification with respect to the description of Figures 4-6. Just as it was within the level of skill of one of ordinary skill in the art to contain and operate first and second computers in first and second respective housings, it is respectfully submitted that it would have been well within the level of skill to contain and operate first and second computers in a single housing, but arranged with input/output devices on two sides of the housing, as claimed, once taught to do so by the present application. Similar comments apply with respect to containing a computer having first and second display means and/or first and second input means residing on first and second respective sides of the housing as recited in claims 1 and 9.

In the Final Office Action, the Examiner argued that the application does not adequately describe the functionality of the communication of the two sides and does not describe "how" to make a dual sided display housing, nor the communication protocols between each panel side.

To the contrary, the application describes functionality and shows how the system functions (see, e.g., Figs. 3-6 and paragraph 113). In addition, the application describes examples of technologies that allow multiple users to conduct an online exchange, including Real Networks, CUSeeMe, and Net Meeting. Accordingly, at the time of the present invention, technologies for connecting multiple computers and multiple input and output devices for communication together were well within the grasp of one of ordinary skill in the art. Accordingly, once taught by the present application to employ multiple display screens and/or multiple input devices (cameras, microphones, etc.) in a single housing, or to include multiple computers in a single housing, one of ordinary skill in the art would have been able to connect such input/output devices or computers for communication in a common communication session.

Accordingly, it is respectfully submitted that the claims 1 and 3-17 comply with 35 U.S.C. 112, first paragraph. The rejection of those claims is, therefore, respectfully traversed.

2. Rejection Under 35 U.S.C. 103(a):

The Office rejects claims 1 and 3-14 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,926,787 to Bennett et al. in view of U.S. Patent No. 6,370,498 to Flores et al. The Applicant respectfully disagrees and traverses this rejection.

It is respectfully submitted that, the present claims are patentably distinguished over the Bennett et al. and Flores references. For example, claim 1 recites a communication services system that includes means for receiving and transmitting information relating to a request for interpretive services between a provider computer and at least one user computer; means for communicating on the communication network with a human interpreter. The claim further recites that the at least one user computer comprises a housing, the housing having a first side and a second side. The claim further recites that the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing. The system in claim 1 is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer.

In contrast, neither Bennett nor Flores describe or suggest a system as recited in claim 1, including a housing having a first computer display and a first input means on a first side of the housing and a second computer display and a second input means on the second side of the housing. Instead, Bennett et al. illustrate conventional style lap-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Bennett et al., Figs. 1, 7, 9 and 10). Flores illustrates conventional style desk-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Flores, Figs. 2, 5A and 5B). None of those references describe or suggest a user computer having first and second display means (or input means) on first and second respective sides of a housing. Accordingly, the Examiner's proposed combination of Bennett and Flores would not result in the invention recited in claim 1.

Similar comments apply to each of claims 3 and 9. For example, claim 3 recites first and second user computers contained within a single housing, where the first user computer has a first means for manual input/output of audio and visual information on the first side of the housing. The second user computer has a second means for manual input/output of audio and visual information on the second side of the housing. Such features are neither disclosed nor suggested by Bennett or Flores (alone or in the combination proposed by the Examiner).

Accordingly, each of claims 1, 3 and 9 are patentably distinguished from Bennett and Flores. The rejection of claims 1, 3 and 9 (and dependent claims 4-14), is respectfully traversed.

Furthermore, claims 1 and 3 are further distinguished from the references of record (including Bennett and Flores), in those claims recites "means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer ... " Accordingly, claims 1 and 3 refer to a human interpreter in the body of the claim to reinforce a distinction over Bennet and Flores.

The Bennett disclosure "relates to a computer-aided *transcription* system used by court reporters which provides readable testimony to attorneys, judges, court reporters, witnesses and clients in real time." (Emphasis added) Col. 1, lines 25-28. In Bennett, a court reporter, using a set of keys "in various combinations and sequences to represent spoken words" (col. 1, lines 36-39) records testimony in open court. These key-strokes are transcribed into pre-assigned words, wherein the key-stroke and associated word is stored in a cross-reference database. The transcription ability of the Computer Aided Transcription ("CAT") system in the Bennett reference is limited by the cross-reference library provided by the court reporter.

In contrast, claims 1 and 3 refer to "a plurality of interpreter computers, each interpreter computer has an input/output device for manual operation by a respective one of the *human* interpreters." (Emphasis added.) Claims 1 and 3 further recite "means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer ... " (Emphasis added.) The Examiner has not addressed the above features of claims 1 and 3. The Examiner has, thus, failed to raise a *prima facie* case of obviousness of those claims (and claims dependent thereon).

Also, in vast contrast to claims 1 and 3, the Bennett reference utilizes an *automated* process for translating the stenographers (users) input codes into language readable by the attorneys. The libraries in the Bennett system are cross reference libraries that corresponds the input to a predesignated output, which automatically cross reference the input to the predefined output. In Bennett, it is "CAT [that] offers an interpretation", as stated by the Office at page 3, which is automated. The CAT has no "input/output device for manual operation by a respective one of the human interpreters" (claims 1 and 3) or "means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers ... " (claims 1 and 3).

Clearly, the ability of a human being to discern nuances in communication by the users and to appropriately select from a *number* of possible word choices is very distinctive from the slavish correlative procedure constrained by the "words" stored in the Bennett library. Additionally, language interpretation is more than correlating words in language A to words in language B. It requires "interpretation" involving the nuances of culture and judgment performed by a *human*, including "reading" the expression on the faces of the persons speaking to and applying the

interpreter's evaluation of the "tone" of the person's voice to make such evaluation to make such interpretations. Many times, it is not what a person says that is the primary communication but rather *how* it is said. Only a human interpretation can factor in such considerations in performing linguistic interpretation services. Thus, the Examiner's proposed combination of Bennett and Flores fails to teach or suggest independent claims 1 or 3. Accordingly, claims 1, 3 (and dependent claims 4-8, which depend directly or indirectly from claim 1 or claim 3) are allowable. The rejection of claims 1 and 3 is further respectfully traversed.

Regarding claims 4-8, 10 and 11, the Office states that the combination of Bennett in view of Flores "teaches that the devices are not limited to pc's". (Final Office Action, page 4, lines 13-15.) The Office refers to column 8, lines 18-24 and column 18, lines 5-11, but fails to identify which reference. The Applicant has reviewed these columns in both the Bennett and Flores patents, and believes the Office intended to cite column 18, lines 18-24 of the Bennett reference. Column 18, lines 18-24 of the Bennett reference recites that "although a stenographic recorder 11 is illustrated ... other *recording* techniques are contemplated." The reference cites a voice transcription technique or a pen-based note-pad computer having OCR software.

This language fails to teach "a hand held device" as in claims 4, 6, 8 and 11, "portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device" as in claims 5, 7 and 10. Indeed, the Bennett device must be a *recording* technique that is usable in the courtroom and have the capability of performing the functions of the stenographic machine. In this regard Bennett teaches *away* from a live interpretation and translation process. Further still, the recording technique is limited to the stenographer, and is not extended to the user computers.

Accordingly, the rejection of dependent claims 4, 6, 8 and 11 is further respectfully traversed.

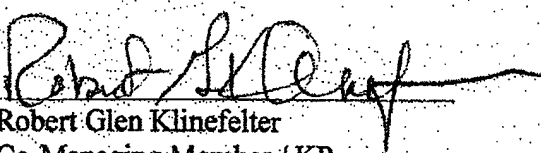
VIII. Conclusion

In view of the foregoing, it is respectfully submitted that claims 1 and 3-17 are in condition for allowance and the application should be allowed in its present form. In particular, it is respectfully submitted that the presently pending rejections of claims 1 and 3-17 are improper and should be reversed for reasons as discussed above.

Atty. Dkt. No. GT12

Date: February, 2012

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APPENDIX A

Claims Appendix

1. (Previously Presented) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide provider computer and the user computer.

2. (Canceled)

3. (Original) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer;

wherein the plurality of user computers comprise a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, the first user computer having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer having a second means for manual input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider computer and the first user computer at the same time that the second user is able to access the second user computer to receive or transmit information between the provider computer and the first user computer.

4. (Original) A communication services system as claimed in claim 1, wherein at least one of either the provider computer, the at least one user computer, or interpreter computer comprises a hand-held device.

5. (Original) A communication services system as claimed in claim 4, the at least one of either provider computer user computer, or interpreter computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

6. (Original) A communication services system as claimed in claim 1, wherein at least one of the provider computer and the user computer comprises a hand-held device.

7. (Original) A communication services system as claimed in claim 6, the provider computer and user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

8. (Original) A communication services system as claimed in claim 3, wherein the user computers each comprise a hand-held device.

9. (Original) A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user, comprising:

at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information;

the at least one user computer comprising a housing having a first side and a second side, at least one first manual input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first manual input device and first display device resides on the first side of the housing, at least one second manual input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second manual input device and second display device resides on the second side of the housing;

wherein the first and second manual input devices and first and second display devices are arranged on the housing to allow the first user to access the at least one first manual input device and first display device at the same time that the second user is able to access the at least one second manual input device and second display device.

10. (Original) A communication services system as claimed in claim 9, the at least one user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

11. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer comprises a portable, hand-held device.

12. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is configured to transmit interpreter selection information to the provider computer, the information relating to criteria for selecting an appropriate interpreter for the interpretation services.

13. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

14. (Original) A communication services system as claimed in claim 13, wherein the at least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

15. (Previously Presented) A communication services system as claimed in claim 1, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

16. (Previously Presented) A communication services system as claimed in claim 3, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

17. (Previously Presented) A communication services system as claimed in claim 9, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

EVIDENCE APPENDIX

None

RELATED PROCEEDINGS APPENDIX

None

Print Message

Assignment confirmation receipt ID: PAT1867161

From: EPAS Server <epas-server@uspto.gov>

To: gapman1@mac.com

Date: February 27, 2012 12:43:14 PM

EASPAT1867161.html (4.8 KB)

ELECTRONIC PATENT ASSIGNMENT SYSTEM (EPAS) CONFIRMATION RECEIPT

The USPTO has received a Patent Assignment submitted through the Electronic Patent Assignment System (EPAS). This is the only acknowledgement of receipt that will be transmitted for this EPAS submission. The submission may not be recalled.

After review by Assignment Services Division personnel a Notice of Recordation/Non-Recordation will be returned via fax. USPTO will attempt to fax to the number provided in the submission; fax failures will be delivered via US Postal Service to the Correspondence Address provided in the submission.

If a communication from the Assignment Services Division has not been received within 60 days of your confirmation receipt contact the Assignment Services Division Customer Service Desk at 571-272-3350 or send an e-mail to epas@uspto.gov.

If you have a technical question, comment or concern about your EPAS submission call 571-272-3350 during business hours or e-mail to epas@uspto.gov. Please have your EPAS receipt ID which is 'EASPAT1867161' available when calling or writing for assistance.

A printable version of the Confirmation Receipt is attached to this e-mail.

Electronic Assignment Server at <http://epas.uspto.gov>**PATENT ASSIGNMENT**

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Gregory Piccionelli</td><td>11/10/2010</td></tr><tr><td>Ted Rittmaster</td><td>12/13/2010</td></tr></tbody></table>	Name	Execution Date	Gregory Piccionelli	11/10/2010	Ted Rittmaster	12/13/2010	
Name	Execution Date						
Gregory Piccionelli	11/10/2010						
Ted Rittmaster	12/13/2010						

Robert Klinefelter

12/10/2010

RECEIVING PARTY DATA

Name:	KP Innovations, LLC
Street Address:	1000 EAST WILLIAM STREET STE 204
City:	Carson City
State/Country:	NEVADA
Postal Code:	89701

PROPERTY NUMBERS Total: 2

Property Type	Number
Patent Number:	7792676
Application Number:	12658496

CORRESPONDENCE DATA

Fax Number: (815)301-2945
Email: gapman1@mac.com
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.
Correspondent Name: Greg Piccionelli or Anna Vradenburgh
Address Line 1: 6345 Balboa Blvd, Building II, Suite 325
Address Line 4: Encino, CALIFORNIA 91316

ATTORNEY DOCKET NUMBER:	GT12
NAME OF SUBMITTER:	Gregory A. Piccionelli
Signature:	/gap/
Date:	02/27/2012

Total Attachments: 6

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RECEIPT INFORMATION

EPAS ID: PAT1867161
Receipt Date: 02/27/2012
Fee Amount: \$80

ASSIGNMENT

This Agreement is between:

1. Gregory A. Piccionelli of 30801 Calais Court, Westlake Village, California 91360 (Assignor 1);
 2. Robert Klinefelter of 26 66 Place, Long Beach, California 90803 (Assignor 2);
 3. Ted Rittmaster of 749 Hartglen Ave., Westlake Village, California 91361 (Assignor 3);
- And
4. KP Innovations, LLC (ASSIGNEE).

WHEREAS, Assignor 1, Assignor 2 and Assignor 3 (herein individually and collectively referred to as "ASSIGNOR") have ownership interests and rights in and to a certain invention entitled: A System, Method and Apparatus for Providing Interpretive Communication on a Network, for which an application for United States Letters Patent was filed on June 2, 2008, and was assigned Serial No. 10/057,131 (and subsequently issued as U.S. Patent No. 7,792,676).

WHEREAS, KP Innovations, LLC, a corporation duly organized and existing under the laws of Nevada, and having been assigned Nevada Business Identification # NV20101270314 (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, (e) all parent and grandparent applications; and (f) the right to claim for any of said applications the full

benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

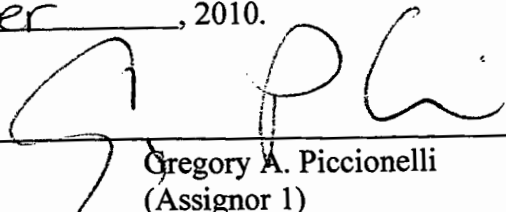
ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of Piccionelli & Sarno the power and authority to insert into this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

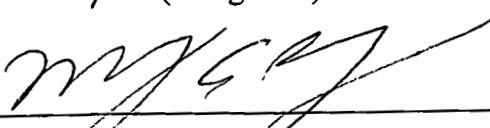
Executed this 10 day of November, 2010.



Gregory A. Piccionelli
(Assignor 1)

11-10-10

Date



Witness Name: Mindy E Nashif

Executed this 10 day of December, 2010.

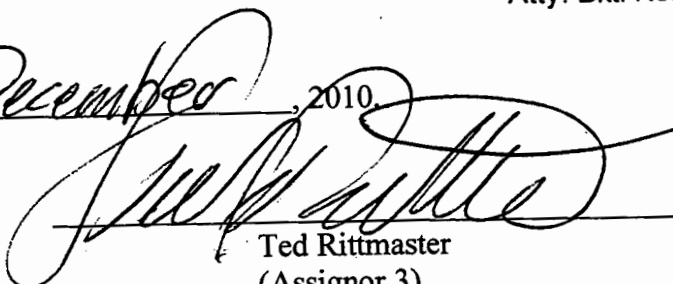


Robert Klinefelter
(Assignor 2)

Date

Witness Name: _____

Executed this 13th day of December, 2010.

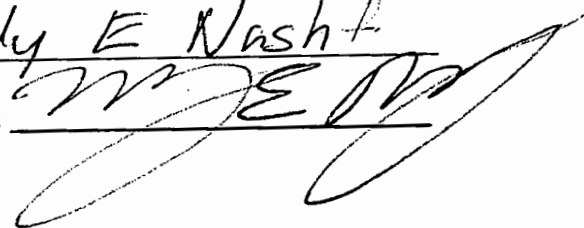

Ted Rittmaster
(Assignor 3)

12-13-10

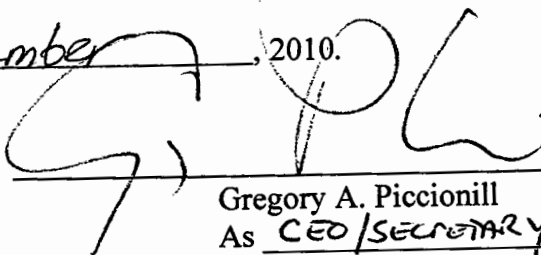
Date

Mindy E Nash

Witness Name:



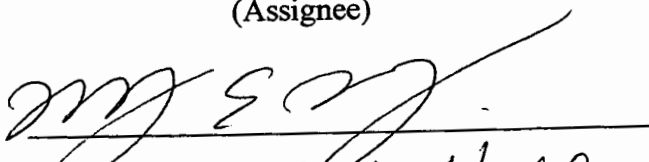
Executed this 10 day of November, 2010.



Gregory A. Piccionill
As CEO/SECRETARY of
KP Innovations, LLC
(Assignee)

11-10-10

Date


Witness Name: Mindy Nash



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

7590 05/23/2012
PICCIONELLI & SARNO
A Professional Association
Suite 200
2801 Townsgate Road
Westlake Village, CA 91361

EXAMINER

OPSASNICK, MICHAEL N

ART UNIT	PAPER NUMBER
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2626

MAIL DATE	DELIVERY MODE
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05/23/2012

PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	12/658,496	KLINEFELTER ET AL.	
	Examiner	Art Unit	
	Michael N. Opsasnick	2626	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 15 July 2011.
- 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 and 3-17 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 and 3-17 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☒ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 2/8/2010 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).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|--|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) ☐ Other: ____. |

DETAILED ACTION

1. In view of the Appeal Brief filed on March 01, 2012, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Richemond Dorvil/
Supervisory Patent Examiner, Art Unit 2626

Specification

Content of Specification

(b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.

Art Unit: 2626

2. Please update the cross-reference section of the specification, as the parent case has now issued as a USPat. Correction is required.

Claim Rejections - 35 USC § 103

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

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

4. Claims 1,3,9,15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355)

As per claims 1,3, 9, Bennett (5926787) teaches:

interpreter accessible interpreter computers connected to a communication network (as a communication network including multiple users/viewers – fig. 1, the users are subblock 19,21), with a provider computer (Fig.1, subblock 13)

{ Examiner notes that functional format of the mapped-to claim language –

A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the

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first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:
}

exchanging request for interpretive services between provider and user computer (as requesting area of case law that applies, from the lawyers, to the provider computer – col. 15 lines 24-44; also, Bennett teaches the interpreter using the translator – i.e., Bennett, besides offering fully automatic mode, also teaches the court reporter summarizing the translation col. 14 lines 1-10

{Examiner notes that functional format of the mapped-to claim language –

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services;
}

and communicating interpreter requests for interpretation services (as court reports/user controls the interpreted/translated texts – col. 6 lines 6-30)

{Examiner notes that functional format of the mapped-to claim language –

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;
}

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers; wherein each of the plurality of user computers is in electronic

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communication with each other and with the provider computer (as users Fig1, subblocks 19,21 are in electronic communication with each other –and the provider computer - -Fig. 1,subblock 13);

{Examiner notes that functional format of the mapped-to claim language –

having means for receiving and transmitting information between
the provider computer and each other one of the plurality, of user computers
}

As per claims 1,3,9,15-17, Bennett (5926787) does not explicitly teach the transmission of audio information as well (the optional speech input is translated using a speech recognizer and transmitted as text); however, Flores (6370498) teaches providing both text and audio in differing requested languages from original text (Fig. 4). Therefore, it would have been obvious to one of ordinary skill in the art of interpretative services to enhance the system as taught by Bennett (5926787) with text and audio translation at each individual computer because it would advantageously provide for multi-lingual use as determined by the user (Flores (6370498), col. 3 lines 45-49).

As per claims 1,3,9,15-17, the combination of Bennett (5926787) in view of Flores (6370498) does not explicitly teach the displays(and audio) being contained in a single housing, facing opposite directions, however, Arai (5357355) teaches a double sided panel display unit (abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to place the individual displays into a single housing, back to back, as taught by Arai (5357355), because it would advantageously provide the same information on

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both sides of a panel display in a face-to-face transaction environment (Arai (5357355), col. 1 lines 10-19).

5. Claims 4-8,10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355), in further view of Comerford et al (7024363).

As per claims 4-8,10-14 the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) teaches that the devices used are not limited to pc's (Bennett, col. 8 lines 18-24, and networks for remote access – col. 18 lines 5-11). However, the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355) does not explicitly discuss the use of handheld devices for the translation/interpretation system, however, Comerford et al (7024363) teaches porting speech/language translation systems to handheld devices, such as a pda (abstract, and, Figs. 2,3; Fig. 18a; col. 4 lines 13-39; col. 7 lines 15-53). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to port the device as taught by the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355) into a handheld pda device, as taught by Comerford et al (7024363), because it would advantageously allow for the operation of an existing system into a handheld device, so as to take advantage of the handheld device properties (portability, small size, etc.). with an enriched user interface (Comerford et al (7024363), col. 2 lines 10-19).

Response to Arguments

6. Applicant's arguments filed 3/1/2012 have been fully considered; as to the arguments against the 112 1st rejection, these arguments have been overcome, however, examiner notes the application of the Arai reference above to address the single housing, dual sided display aspect of the claimed invention (up to page 12 of the appeal brief). As to applicants arguments that Bennett is fully automated, examiner disagrees and notes the reference to Bennett above, wherein the court reporter/interpreter may be minimized (minimizing the number of court reporters/interpreters), however, the system of Bennett does allow for the court reporter/interpreter to monitor/edit the results of the translation system (as shown above). As to applicants arguments against the handheld device claim limitations, examiner notes the introduction of the Comerford et al reference to address the claim limitations.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see related art listed on the PTO-892 form.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Tuesday-Thursday, 9am-4pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Richemond Dorvil, can be reached at (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).

/Michael N. Opsasnick/
Primary Examiner, Art Unit 2626
5/19/2012

Notice of References Cited	Application/Control No. 12/658,496		Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.	
	Examiner Michael N. Opsasnick		Art Unit 2626	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,357,355	10-1994	Arai, Ryoichi	349/69
*	B	US-7,024,363	04-2006	Comerford et al.	704/270
*	C	US-5,884,247	03-1999	Christy, Sam	704/7
*	D	US-6,240,392	05-2001	Butnaru et al.	704/271
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
	Examiner MICHAEL N OPSASNICK	Art Unit 2626

SEARCHED			
Class	Subclass	Date	Examiner
704	271	5/19/2012	mno
379	52	5/19/2012	mno
340	825.19	5/19/2012	mno

SEARCH NOTES		
Search Notes	Date	Examiner
west search; 101;odp	5/19/2012	mno

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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WEST Search History for Application 12658496

Creation Date: 2012051916:53

Interference Searches

Query	DB	Op.	Plur.	Thes.	Date
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, UPAD	OR	YES		04-07-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, UPAD	OR	YES		09-28-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and	PGPB, USPT,	OR	YES		05-19-2012

communication).clm.	UPAD				
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, UPAD	OR	YES		05-19-2012
5926787.pn.	PGPB, USPT, UPAD	OR	YES		05-19-2012
(5926787.pn.) and translat \$	PGPB, USPT, UPAD	OR	YES		05-19-2012
5357355.pn.	PGPB, USPT, UPAD	OR	YES		05-19-2012
5357355.pn.	PGPB, USPT, UPAD	OR	YES		05-19-2012
(interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language) and @ ad < 20001023	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language and @ ad < 20001023) and ((speech near7 recogni \$))	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language and @ ad < 20001023 and ((speech near7 recogni \$))) and "palm pilot"	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language and @ ad < 20001023 and ((speech near7 recogni \$))) and pda	PGPB, USPT, UPAD	OR	YES		05-19-2012

(interpretator or interpret \$ or interpretave) and (language near7 translat \$) and impair \$ and network	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpretator or interpret \$ or interpretave) and (language near7 translat \$) and impair \$ and network) and @ ad < 20001023	PGPB, USPT, UPAD	OR	YES		05-19-2012
((interpretator or interpret \$ or interpretave) and (language near7 translat \$) and impair \$ and network and @ ad < 20001023) and human	PGPB, USPT, UPAD	OR	YES		05-19-2012
human and (interpreter or interpreter or operator) and blind and deaf and translat \$ and @ ad < 20001025	PGPB, USPT, UPAD	OR	YES		05-19-2012

Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011

((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		04-07-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	OR	YES		04-07-2011
(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		04-07-2011
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		04-07-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		04-07-2011
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		04-07-2011
	USPT	OR	YES		04-07-2011

((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))					
6470498.pn.	USPT	OR	YES		04-07-2011
6370498.pn.	USPT	OR	YES		04-07-2011
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		04-07-2011

	TDBD				
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011

((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
2003009275	PGPB, USPT, USOC, EPAB,	OR	YES		04-07-2011

	JPAB, DWPI, TDBD				
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
6421425.pn. and operator		OR	YES		04-07-2011

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB,	OR	YES		04-07-2011

	JPAB, DWPI, TDBD				
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		04-07-2011
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB,	OR	YES		04-07-2011

	JPAB, DWPI, TDBD				
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(double near7 sided near7 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
		OR	YES		09-28-2011

((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB,	OR	YES		09-28-2011

	JPAB, DWPI, TDBD				
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	OR	YES		09-28-2011
(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		09-28-2011
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$	USPT	OR	YES		09-28-2011

near5 each near5 other))					
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		09-28-2011
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		09-28-2011
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		09-28-2011
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		09-28-2011
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	OR	YES		09-28-2011
6470498.pn.	USPT	OR	YES		09-28-2011
6370498.pn.	USPT	OR	YES		09-28-2011
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB,	OR	YES		09-28-2011

	JPAB, DWPI, TDBD				
((((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
	USPT	OR	YES		09-28-2011

((second near5 user) and (second near5 computer) and (operator) and interpret\$)					
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(009275) and yamada.in.	PGPB, USPT,	OR	YES		09-28-2011

	USOC, EPAB, JPAB, DWPI, TDBD				
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		09-28-2011

	TDBD				
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC,	OR	YES		09-28-2011

	EPAB, JPAB, DWPI, TDBD				
(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		09-28-2011
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	OR	YES		09-28-2011

((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5926787.pn.		OR	YES		09-28-2011

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
6121960.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
6259491.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) near7 side) near10 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) near7 side) near10 display) and (speech or voice)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) near7 side) near10 display) and @ad<20001023	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) near7 side) near10 display and @ad<20001023) and (speech or voice or microphon\$)	PGPB, USPT, USOC, EPAB,	OR	YES		05-19-2012

	JPAB, DWPI, TDBD				
((dual or double) adj3 side\$) adj5 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(((dual or double) adj3 side\$) adj5 display) and (((dual or double) near7 side) near10 display and @ad<20001023)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
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(((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
		OR	YES		05-19-2012

((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB,	OR	YES		05-19-2012

	JPAB, DWPI, TDBD				
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		05-19-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	OR	YES		05-19-2012
(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		05-19-2012
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		05-19-2012
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		05-19-2012
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	OR	YES		05-19-2012
6470498.pn.	USPT	OR	YES		05-19-2012
6370498.pn.	USPT	OR	YES		05-19-2012

(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB,	OR	YES		05-19-2012

	JPAB, DWPI, TDBD				
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		05-19-2012

	TDBD				
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
2003009725\$	PGPB, USPT, USOC,	OR	YES		05-19-2012

	EPAB, JPAB, DWPI, TDBD				
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012

5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB,	OR	YES		05-19-2012

	JPAB, DWPI, TDBD				
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		05-19-2012
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	OR	YES		05-19-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	OR	YES		05-19-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		05-19-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB,	OR	YES		05-19-2012

	JPAB, DWPI, TDBD				
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012

<i>Index of Claims</i> 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
	Examiner MICHAEL N OPSASNICK	Art Unit 2626

✓	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	04/07/2011	09/28/2011	05/19/2012															
	1	✓	✓	✓															
	2	-	-	-															
	3	✓	✓	✓															
	4	✓	✓	✓															
	5	✓	✓	✓															
	6	✓	✓	✓															
	7	✓	✓	✓															
	8	✓	✓	✓															
	9	✓	✓	✓															
	10	✓	✓	✓															
	11	✓	✓	✓															
	12	✓	✓	✓															
	13	✓	✓	✓															
	14	✓	✓	✓															
	15		✓	✓															
	16		✓	✓															
	17		✓	✓															

Atty. Dkt. No. GT12

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class U.S. Mail, in an envelope addressed to Mail Stop Appeal Brief - Patents, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August 16, 2012.

By: 
Greg A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert G. Klinefelter and Gregory A. Piccionelli

Title: A SYSTEM, METHOD AND APPARATUS FOR
PROVIDING INTERPRETIVE
COMMUNICATION ON A NETWORK

Appl. No.: 12/658,496

Filing Date: February 8, 2010

Examiner: Michael N Opsasnick

Art Unit: 2626

Confirmation No. 8099

RESPONSE TO OFFICE ACTION UNDER 37 CFR 1.111

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

Dear Sir:

In response to the Office Action dated May 23, 2012, Applicant respectfully requests amendment of the application as follows.

Amendments to the specification begin on page 2.

Claim amendments begin on page 3.

Remarks begin on page 8.

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In the Specification:

On page 1, under the Related Applications heading, please replace the first paragraph with the following new paragraph:

This application is a Divisional of U.S. Patent Application Serial No. 10/057,131, filed 8/25/2001 (now U.S. Patent No. 7,792,676), which claims the benefit of U.S. Provisional Patent Application Serial No. 60/243,162, filed 10/25/2000, each of which is incorporated herein by reference in its entirety.

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In the Claims:

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

1. (Previously Presented) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide provider computer and the user computer.

2. (Canceled)

3. (Original) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

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means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer;

wherein the plurality of user computers comprise a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, the first user computer having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer having a second means for manual input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider computer and the first user computer at the same time that the second user is able to access the second user computer to receive or transmit information between the provider computer and the first user computer.

4. (Original) A communication services system as claimed in claim 1, wherein at least one of either the provider computer, the at least one user computer, or interpreter computer comprises a hand-held device.

5. (Original) A communication services system as claimed in claim 4, the at least one of either provider computer user computer, or interpreter computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

6. (Original) A communication services system as claimed in claim 1, wherein at least one of the provider computer and the user computer comprises a hand-held device.

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7. (Original) A communication services system as claimed in claim 6, the provider computer and user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

8. (Original) A communication services system as claimed in claim 3, wherein the user computers each comprise a hand-held device.

9. (Currently Amended) A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user, comprising:

at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information;

the at least one user computer comprising a housing having a first side and a second side, at least one first manual input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first manual input device and first display device resides on the first side of the housing, at least one second manual input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second manual input device and second display device resides on the second side of the housing;

wherein the first and second manual input devices and first and second display devices are arranged on the housing to allow the first user to access the at least one first manual input device and first display device at the same time that the second user is able to access the at least one second manual input device and second display device.

10. (Cancelled)

11. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer comprises a portable, hand-held device.

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12. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is configured to transmit interpreter selection information to the provider computer, the information relating to criteria for selecting an appropriate interpreter for the interpretation services.

13. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

14. (Cancelled)

15. (Previously Presented) A communication services system as claimed in claim 1, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

16. (Previously Presented) A communication services system as claimed in claim 3, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

17. (Previously Presented) A communication services system as claimed in claim 9, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

18. (New) A communication services system as claimed in claim 9, wherein the first input device comprises a first camera carried in the housing, and wherein the second input device comprises a second camera carried in the housing.

19. (New) A communication services system as claimed in claim 9, wherein the first input device comprises a first camera held by the housing and directed to input visual information from the first side of the housing, and wherein the second input device comprises a second camera held by the housing and directed to input visual information from the second side of the housing.

20. (New) A communication services system as claimed in claim 9, wherein the first input device comprises a first microphone held by the housing and directed to input audio information from the first side of the housing, and wherein the second input device comprises a second

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microphone held by the housing and directed to input audio information from the second side of the housing.

21. (New) A communication services system operable with a communication network, the system comprising:

at least one user communication device configured to receive and transmit information over the communication network;

the at least one user communication device comprising a housing having a first side and a second side, at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second input device and second display device resides on the second side of the housing;

wherein the first and second input devices and first and second display devices are carried by the housing in an orientation to allow the first user to access the at least one first input device and first display device from the first side of the housing at the same time that the second user is able to access the at least one second input device and second display device from the second side of the housing.

22. (New) A communication services system as claimed in claim 21, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

23. (New) A communication services system as claimed in claim 21, wherein the first input device comprises a first camera, and wherein the second input device comprises a second camera.

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REMARKS

Claim 9 is amended herein, and claims 2, 10 and 14 have been cancelled without prejudice or disclaimer. New claims 18-23 are added. Claims 1, 3, 4-9, 11-13 and 15-23 are pending in the application. No new matter has been added. Re-examination and reconsideration of the application, as amended, are requested.

In the Office Action dated May 23, 2012, the Office has reopened prosecution of the above-referenced patent application, following Applicant's Appeal Brief dated February 27, 2012.

The specification is amended herein to replace the first paragraph on page 1 with a new paragraph that refers to the parent case by its patent number. This amendment to the specification is made in response to the Examiner's request to update the cross-references to related applications section of the specification.

Claims 1, 3, 9 and 15-17 were rejected under 35 U.S.C. 103(a) as being unpatentable over the Examiner's proposed combination of Bennett (U.S. Patent No. 5,926,787) in view of Flores et al. (U.S. Patent No. 6,370,498) and further in view of Arai (U.S. Patent No. 5,357,355). This rejection is respectfully traversed in view of the following comments.

It is respectfully submitted that the present claims are patentably distinguished over the Bennett et al. and Flores et al. references at least for reasons as discussed in the Section VII.2. of Applicant's Appeal Brief dated February 27, 2012, which is incorporated herein by reference.

For example, claim 1 recites a communication services system that includes means for receiving and transmitting information relating to a request for interpretive services between a provider computer and at least one user computer; means for communicating on the communication network with a human interpreter. The claim further recites that the at least one user computer comprises a housing, the housing having a first side and a second side. The claim further recites that the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing. The system in claim 1 is configured to allow the first user to access the

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first side of the housing of the user computer and the second user to access the second side of the housing of the user computer.

In contrast, neither Bennett nor Flores et al. describe or suggest a system as recited in claim 1, including a housing having a first computer display and a first input means on a first side of the housing and a second computer display and a second input means on the second side of the housing. Instead, Bennett et al. illustrate conventional style lap-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Bennett et al., Figs. 1, 7, 9 and 10). Flores et al. illustrate conventional style desk-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Flores et al., Figs. 2, 5A and 5B). None of those references describe or suggest a user computer having first and second display means (or input means) on first and second respective sides of a housing. Accordingly, the Examiner's proposed combination of Bennett et al. and Flores et al. would not result in the invention recited in claim 1.

In the new rejection of claim 1 set forth in the Office Action dated May 23, 2012, the Examiner has sought to further combine the Arai patent (U.S. Patent 5,357,355) with the Bennett et al. and Flores et al. references. The Examiner acknowledged that the combination of Bennett et al. and Flores et al. does not explicitly teach [first and second] displays being contained in a single housing, facing opposite directions. Instead, the Examiner cites Arai as teaching a double sided panel display unit and argues that it would have been obvious to one of ordinary skill in the art at the time the invention was made to place individual displays into a single housing, back to back, as taught by Arai. (Office Action dated May 23, 2012, page 5, lines 15-20.)

However, Arai does not address the above-noted distinctions of claim 1 over Bennett et al. and Flores et al. For example, Arai does not disclose or suggest first input means for audio and visual information on a first side of the housing and second input means for audio and visual information on the second side of the housing. Indeed, Arai does not appear to include any input means on either side of a housing (much less first and second input means for audio and visual information on the first and second sides of a housing, respectively). Instead, Arai describes a double sided display panel for displaying information, not for input of audio and visual information. Accordingly, the Examiner's proposed combination of Arai with Bennett et al. and Flores et al. would not have resulted in the invention recited in claim 1. The rejection of claim 1 is, therefore, respectfully traversed.

Atty. Dkt. No. GT12

Similar comments apply to each of claims 3 and 9. For example, claim 3 recites a system that includes first and second user computers contained within a single housing, where the first user computer has a first means for manual input/output of audio and visual information on the first side of the housing. The second user computer has a second means for manual input/output of audio and visual information on the second side of the housing.

Claim 9 recites a system that includes at least one user computer comprising a housing and at least one first input device and first display device configured to allow the first user to input and output audio and visual information, and at least one second input device and second display device configured to allow the second user to input and output audio and visual information. Claim 9 further recites that the at least one first input device and first display device resides on the first side of the housing, while the at least one second input device and second display device resides on the second side of the housing. Claim 9 is amended herein to remove the term "manual" from the phrase "manual input device." No new matter is added to the application by that amendment, as apparent from the nature of the amendment.

As discussed above, none of the Bennett et al., Flores et al. nor Arai references teach or suggest first and second input devices on first and second sides of the same housing, for allowing first and second users to input audio and visual information. Accordingly, a system as recited in claim 3 or claim 9, including such features discussed above, is neither disclosed nor suggested by Bennett et al., Flores et al., or Arai (alone or in the combination proposed by the Examiner). The rejection of claims 3 and 9 is, therefore, respectfully traversed.

Each of claims 15-17 is dependent on one of the base claims 1, 3 and 9 discussed above. Accordingly, each of dependent claims 15-17 is patentably distinguished from the references of record, including Bennett et al., Flores et al. and Arai, considered individually or in the combination proposed by the Examiner, at least for reasons as discussed above with respect to base claims 1, 3 and 9. The rejection of claims 15-17 is, therefore, respectfully traversed.

Claims 4-8 and 10-14 were rejected under 35 U.S.C. 103(a) as being unpatentable over the Examiner's proposed combination of Bennett et al. (U.S. Patent No. 5,926,787) in view of Flores et al. (U.S. Patent No. 6,370,498) in further view of Arai (U.S. Patent No. 5,357,355) and in further view of Comerford et al. (U.S. Patent No. 7,024,363). With regard to cancelled claims 10 and 14, this rejection is moot. With regard to claims 4-8 and 11-13, this rejection is respectfully traversed in view of the following comments.

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Each of claims 4-8 and 11-13 is dependent (directly or indirectly) on one of the base claims 1, 3 and 9, discussed above. It is respectfully submitted that, the present claims are patentably distinguished over the Bennett et al., Flores et al. and Arai references (considered individually or in the combination proposed by the Examiner) at least for reasons as discussed above with regard to base claims 1, 3 and 9.

Furthermore, the Comerford et al. reference does not address the above-noted distinctions of base claims 1, 3 and 9 over the Bennett et al., Flores et al. and Arai references. Comerford et al. do not disclose or suggest first and second input devices on first and second sides of the same housing, for allowing first and second users to input audio and visual information. Instead, the Examiner cited Comerford et al. as teaching of "porting speech/language translation systems to handheld devices, such as a pda." (Office Action dated May 23, 2012, page 6, lines 11-13.) Accordingly, each of dependent claims 4-8 and 11-13 is patentably distinguished from the Bennett et al., Flores et al., Arai and Comerford et al. references (considered individually or in the combination proposed by the Examiner). The rejection of claims 4-8 and 11-13 is, therefore, respectfully traversed.

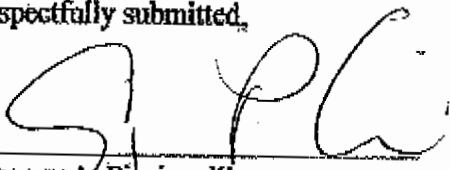
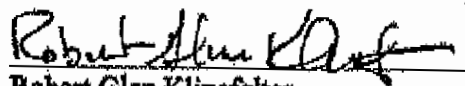
New claims 18-23 are added to further protect aspects of the invention. No new matter is added to the application by those new claims, as apparent from the nature of those claims. For example, each of new claims 18-20 is dependent on claim 9 and refers to first and second cameras or first and second microphones. An example of a housing 24 with first and second cameras 34 and first and second microphones 30 is shown in the embodiment of Figs. 3-6. New claims 18-20 are patentably distinguished from the references of record at least for reasons discussed above with regard to base claim 9, as well as further reasons apparent from the text of those new claims.

New claim 21 is independent and is supported by the original application in a manner similar to the manner in which claim 9 is supported by the original application. New claim 21 is distinguished from the references of record (including Bennett et al., Flores et al., Arai and Comerford et al.) at least for reasons similar to those discussed above with respect to claim 9. New claims 22 and 23 are each dependent on claim 21 and are supported by the original application in a manner similar to the manner in which claims 17 and 18 are supported by the original application.

In view of the foregoing, it is respectfully submitted that claims 1, 3, 4-9, 11-13 and 15-23 are in condition for allowance and the application should be allowed in its present form.

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Respectfully submitted,

Date: August 16 2012By: Gregory A. Piccionelli
Registration No. 39,534Date: August 16 2012By: 

Robert Glen Klinefelter

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Electronic Patent Application Fee Transmittal

Application Number:	12658496			
Filing Date:	08-Feb-2010			
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network			
First Named Inventor/Applicant Name:	Robert Glen Klinefelter			
Filer:	Jennifer Hamilton/Jose Ramos			
Attorney Docket Number:	GT012			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Independent claims in excess of 3	2201	1	125	125
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:	SAMSUNG EXHIBIT 1003, Page 326			

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				125

Electronic Acknowledgement Receipt

EFS ID:	13517329
Application Number:	12658496
International Application Number:	
Confirmation Number:	8099
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network
First Named Inventor/Applicant Name:	Robert Glen Klinefelter
Correspondence Address:	PICCIONELLI & SARNO A Professional Association Suite 200 2801 Townsgate Road Westlake Village CA 91361 US 8054975886 -
Filer:	Jennifer Hamilton/Jose Ramos
Filer Authorized By:	Jennifer Hamilton
Attorney Docket Number:	GT012
Receipt Date:	16-AUG-2012
Filing Date:	08-FEB-2010
Time Stamp:	17:45:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$125 SAMSUNG EXHIBIT 1003, Page 328

RAM confirmation Number		4514			
Deposit Account					
Authorized User					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		2012_08_16_Amendment_Response.pdf	401208	yes	14
			ae57a2e8a3596601899f235e9d19d1eb771e5794		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Amendment/Req. Reconsideration-After Non-Final Reject		3	3	
	Specification		4	4	
	Claims		5	9	
	Applicant Arguments/Remarks Made in an Amendment		10	14	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	29937	no	2
			c229de525e333626ab1a2918d2d43ec397ab2bf6		
Warnings:					
Information:					
Total Files Size (in bytes):			431145		

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.

Atty. Dkt. No. GT12

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class U.S. Mail, in an envelope addressed to Mail Stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August ____, 2012.

By: _____
Gregory A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Robert G. Klinefelter and Gregory A. Piccionelli
Title:	A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK
Appl. No.:	12/658,496
Filing Date:	February 8, 2010
Examiner:	Opsasnick, Michael N.
Art Unit:	2626
Confirmation No.	8099

TRANSMITTAL

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

Sir:

Transmitted herewith is:

☒ Amendment And Reply Under 37 CFR 1.111.

☒ The fee required for additional claims is calculated below:

	Claims As Amended		Previously Paid For		Extra Claims Present	Rate		Additional Claims Fee
Total Claims:	<u>20</u>	-	<u>20</u>	=	0	x	\$60.00	= \$0.00
Independent Claims:	<u>4</u>	-	<u>3</u>	=	0	x	\$250.00	= \$250.00

Atty. Dkt. No. GT12

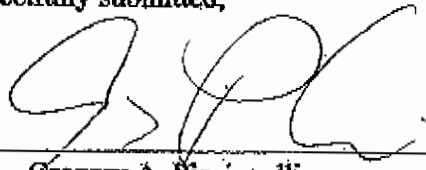
First presentation of any Multiple Dependent Claims: + \$450.00 =	\$0.00
CLAIMS FEE TOTAL =	\$250.00

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

☐ Extension for response filed within the first month:	\$150.00	\$0.00
☐ Extension for response filed within the second month:	\$560.00	\$0.00
☐ Extension for response filed within the third month:	\$1,270.00	\$0.00
☐ Extension for response filed within the fourth month:	\$1,980.00	\$0.00
☐ Extension for response filed within the fifth month:	\$2,690.00	\$0.00
EXTENSION FEE TOTAL:		\$0.00
☐ Statutory Disclaimer Fee under 37 C.F.R. 1.20(d):	\$160.00	\$0.00
CLAIMS, EXTENSION AND DISCLAIMER FEE TOTAL:		\$250.00
☒ Small Entity Fees Apply (subtract 1/2 of above):		\$125.00
Extension Fees Previously Paid:		\$0.00
TOTAL FEE:		\$0.00

☒ A check in the amount of \$125.00, for payment of the above-noted TOTAL FEE.

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

<p>Date <u>August 16, 2012</u></p> <p><u>Correspondence Address:</u> Gregory A. Piccionelli c/o Piccionelli & Sarno c/o Eclipse Group 6345 Balboa Blvd., Suite 325 Encino, CA 91316</p> <p>Telephone: (818) 488-8146 Facsimile: (818) 332-4205</p>	<p>Respectfully submitted,</p> <p>By  Gregory A. Piccionelli Registration No. 39,534</p> <p>By  Robert G. Klinefelter</p>
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/658,496		Filing Date 02/08/2010		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)			SMALL ENTITY ☒ OR		OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*	X \$	=		X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		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 \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	08/16/2012	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X \$30 =	0	OR	X \$	=
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	X \$125 =	0	OR	X \$	=
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$	=	OR	X \$	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$	=	OR	X \$	=
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						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 number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/CHERYL CLARK/

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

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



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UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

7590 10/25/2012
PICCIONELLI & SARNO
A Professional Association
Suite 200
2801 Townsgate Road
Westlake Village, CA 91361

EXAMINER

OPSASNICK, MICHAEL N

ART UNIT	PAPER NUMBER
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2658

MAIL DATE	DELIVERY MODE
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10/25/2012

PAPER

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

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

Office Action Summary	Application No. 12/658,496	Applicant(s) KLINEFELTER ET AL.	
	Examiner Michael N. Opsasnick	Art Unit 2658	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

- 1) ☒ Responsive to communication(s) filed on 15 August 2012.
- 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) 1,3-9,11-13 and 15-23 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) 1,3-9,11-13 and 15-23 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 2/8/2010 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).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) ☒ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: ____. |
| 3) ☐ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date: ____. | 6) ☐ Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 103

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

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

2. Claims 1,3,9,15-17,21,22 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355)

As per claims 1,3, 9, Bennett (5926787) teaches:

interpreter accessible interpreter computers connected to a communication network (as a communication network including multiple users/viewers – fig. 1, the users are subblock 19,21), with a provider computer (Fig.1, subblock 13)

{ Examiner notes that functional format of the mapped-to claim language –

A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

}

Art Unit: 2658

exchanging request for interpretive services between provider and user computer (as requesting area of case law that applies, from the lawyers, to the provider computer – col. 15 lines 24-44; also, Bennett teaches the interpreter using the translator – i.e., Bennett, besides offering fully automatic mode, also teaches the court reporter summarizing the translation col. 14 lines 1-10

{Examiner notes that functional format of the mapped-to claim language –

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services;
}

and communicating interpreter requests for interpretation services (as court reports/user controls the interpreted/translated texts – col. 6 lines 6-30)

{Examiner notes that functional format of the mapped-to claim language –

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;
}

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers; wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer (as users Fig1, subblocks 19,21

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are in electronic communication with each other –and the provider computer - -Fig. 1,subblock 13);

{ Examiner notes that functional format of the mapped-to claim language –

having means for receiving and transmitting information between
the provider computer and each other one of the plurality, of user computers
}

As per claims 1,3,9,15-17, Bennett (5926787) does not explicitly teach the transmission of audio information as well (the optional speech input is translated using a speech recognizer and transmitted as text); however, Flores (6370498) teaches providing both text and audio in differing requested languages from original text (Fig. 4). Therefore, it would have been obvious to one of ordinary skill in the art of interpretative services to enhance the system as taught by Bennett (5926787) with text and audio translation at each individual computer because it would advantageously provide for multi-lingual use as determined by the user (Flores (6370498), col. 3 lines 45-49).

As per claims 1,3,9,15-17, the combination of Bennett (5926787) in view of Flores (6370498) does not explicitly teach the displays(and audio) being contained in a single housing, facing opposite directions, however, Arai (5357355) teaches a double sided panel display unit (abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to place the individual displays into a single housing, back to back, as taught by Arai (5357355), because it would advantageously provide the same information on

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both sides of a panel display in a face-to-face transaction environment (Arai (5357355), col. 1 lines 10-19).

3. Claims 4-8,11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355), in further view of Comerford et al (7024363).

As per claims 4-8,11-13 the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) teaches that the devices used are not limited to pc's (Bennett, col. 8 lines 18-24, and networks for remote access – col. 18 lines 5-11). However, the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355) does not explicitly discuss the use of handheld devices for the translation/interpretation system, however, Comerford et al (7024363) teaches porting speech/language translation systems to handheld devices, such as a pda (abstract, and, Figs. 2,3; Fig. 18a; col. 4 lines 13-39; col. 7 lines 15-53). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to port the device as taught by the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355) into a handheld pda device, as taught by Comerford et al (7024363), because it would advantageously allow for the operation of an existing system into a handheld device, so as to take advantage of the handheld device properties (portability, small size, etc.). with an enriched user interface (Comerford et al (7024363), col. 2 lines 10-19).

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4. Claim 18,19,23 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944) in view of Ditzik (5983073).

As per claims 19,23, the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) does not explicitly teach cameras into the display housing, however, Ditzik (5983073) teaches a display containing camera capabilities (Fig. 3a, col. 8 lines 4-6). Therefore, it would have been obvious to one of ordinary skill in the art of audio/visual based systems to improve upon the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) with built-in cameras for both displays because it would advantageously allow the system to capture video of the user, for transmission (Ditzik (5983073), col. 2 lines 30-40; col. 3 lines 15-20).

5. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944).

As per claim 20, the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944) does not explicitly teach the incorporation of microphones into the dual sided housing display, however, Wakisaka (5917944) teaches embedded microphones into a display (Fig. 12B, subblocks 1202,1203; col. 17, lines 22-35). Therefore, it would have been obvious to one of ordinary skill in the art of display devices to incorporate display microphones, as taught by Wakisaka, into the dual housing of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) because it would

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advantageously improve upon recognizing voice input especially in noisy environments, by using directionality microphones (Wakisaka, col. 6, lines 5-8).

Response to Arguments

6. Applicant's arguments filed 8/15/2012 have been fully considered but are not considered persuasive. As to applicants arguments on page 9, first full paragraph, applicants argue that “neither Bennett nor Flores et al describe or suggest...a first computer display and a first input means on a first side of the housing and a second computer display...on the second side of the housing”; examiner argues that it is the combination of Bennett, Flores, and Arai that is used to meet this claim scope; as well as, the Arai reference provides the teaching to combine separate displays with input/outputs, into a single housing. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Following on the same page (9) of arguments, applicants present arguments against Arai, but such features were taught by Bennett and Flores; namely, the Arai reference is used to combine the individual displays with audio input, into one single house, with the display on both sides. Similar arguments are presented on pages 10-top of page 11. Examiner notes the use of Wakisaka and Ditzik to teach microphone and camera in the display.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see related art listed on the PTO-892 form.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Monday-Friday, 9am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Richemond Dorvil, can be reached at (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

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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).

/Michael N. Opsasnick/
Primary Examiner, Art Unit 2658
10/23/2012

Notice of References Cited	Application/Control No. 12/658,496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.	
	Examiner Michael N. Opsasnick	Art Unit 2658	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,983,073	11-1999	Ditzik, Richard J.	455/11.1
*	B	US-5,917,944	06-1999	Wakisaka et al.	382/190
*	C	US-5,848,170	12-1998	Mahieux et al.	381/92
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
	Examiner MICHAEL N OPSASNICK	Art Unit 2626

SEARCHED			
Class	Subclass	Date	Examiner
704	271	10/23/2012	mno
379	52	10/23/2012	mno
340	825.19	10/23/2012	mno

SEARCH NOTES		
Search Notes	Date	Examiner
west search; 101;odp	10/23/2012	mno

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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WEST Search History for Application 12658496

Creation Date: 2012102323:56

Interference Searches

Query	DB	Op.	Plur.	Thes.	Date
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5357355.pn.	PGPB, USPT, UPAD	OR	YES		05-19-2012
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human and (interpreter or interpretor or operator) and blind and deaf and translat \$ and @ ad < 20001025	PGPB, USPT, UPAD	OR	YES		05-19-2012
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Prior Art Searches

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(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB,	OR	YES		04-07-2011

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(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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	TDBD				
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5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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	EPAB, JPAB, DWPI, TDBD				
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
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((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011

(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		04-07-2011
(double near7 sided near7 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB,	OR	YES		09-28-2011

	JPAB, DWPI, TDBD				
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
		OR	YES		09-28-2011

((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	OR	YES		09-28-2011
(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		09-28-2011
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		09-28-2011
((image near7 interpret\$4) and (translat\$) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		09-28-2011
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	OR	YES		09-28-2011
6470498.pn.	USPT	OR	YES		09-28-2011
6370498.pn.	USPT	OR	YES		09-28-2011
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC,	OR	YES		09-28-2011

	EPAB, JPAB, DWPI, TDBD				
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011

(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT,	OR	YES		09-28-2011

	USOC, EPAB, JPAB, DWPI, TDBD				
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		09-28-2011

	TDBD				
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5406557.pn..pn. and operator	PGPB, USPT, USOC,	OR	YES		09-28-2011

	EPAB, JPAB, DWPI, TDBD				
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011

((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		09-28-2011
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011

((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
((((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		09-28-2011
6121960.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
6259491.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) near7 side) near10 display	PGPB, USPT, USOC, EPAB,	OR	YES		05-19-2012

	JPAB, DWPI, TDBD				
((dual or double) near7 side) near10 display) and (speech or voice)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) near7 side) near10 display) and @ad<20001023	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) near7 side) near10 display and @ad<20001023) and (speech or voice or microphon\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) adj3 side\$) adj5 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual or double) adj3 side\$) adj5 display) and ((dual or double) near7 side) near10 display and @ad<20001023)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(double near7 sided near7 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
		OR	YES		05-19-2012

((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB,	OR	YES		05-19-2012

	JPAB, DWPI, TDBD				
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		05-19-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	OR	YES		05-19-2012
(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		05-19-2012
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$	USPT	OR	YES		05-19-2012

near5 each near5 other))					
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		05-19-2012
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		05-19-2012
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		05-19-2012
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		05-19-2012
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	OR	YES		05-19-2012
6470498.pn.	USPT	OR	YES		05-19-2012
6370498.pn.	USPT	OR	YES		05-19-2012
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB,	OR	YES		05-19-2012

	JPAB, DWPI, TDBD				
((((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
	USPT	OR	YES		05-19-2012

((second near5 user) and (second near5 computer) and (operator) and interpret\$)					
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(009275) and yamada.in.	PGPB, USPT,	OR	YES		05-19-2012

	USOC, EPAB, JPAB, DWPI, TDBD				
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		05-19-2012

	TDBD				
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC,	OR	YES		05-19-2012

	EPAB, JPAB, DWPI, TDBD				
(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		05-19-2012
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	OR	YES		05-19-2012

((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	OR	YES		05-19-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		05-19-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		05-19-2012
5926787.pn.		OR	YES		05-19-2012

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
(microphon\$4 and translat\$ and array).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(microphon\$4 and translat\$ and array and (second near10 language)).detd.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((microphon\$4 and translat\$ and array and (second near10 language)).detd.) and palmquist.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
5917944.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(display near7 camera) and @ad<20001025	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
5917944.pn.	PGPB, USPT, USOC, EPAB,	OR	YES		10-23-2012

	JPAB, DWPI, TDBD				
((display near7 camera) and @ad<20001025) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((display near7 camera) and @ad<20001025 and microphon\$) and (speech or voice)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((display near7 camera) and @ad<20001025 and microphon\$) and ((speech or voice) near10 recogni\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(camera adj5 (embedd\$5 or built or contain\$3) adj5 (display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((camera adj5 (embedd\$5 or built or contain\$3) adj5 (display))) and ((display near7 camera) and @ad<20001025 and microphon\$ and ((speech or voice) near10 recogni\$))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
6121960.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
6259491.pn.		OR	YES		10-23-2012

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
((dual or double) near7 side) near10 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual or double) near7 side) near10 display) and (speech or voice)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual or double) near7 side) near10 display) and @ad<20001023	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual or double) near7 side) near10 display and @ad<20001023) and (speech or voice or microphon\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual or double) adj3 side\$) adj5 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual or double) adj3 side\$) adj5 display) and ((dual or double) near7 side) near10 display and @ad<20001023)	PGPB, USPT, USOC, EPAB,	OR	YES		10-23-2012

	JPAB, DWPI, TDBD				
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((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(image near7 interpret\$4)		OR	YES		10-23-2012

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		10-23-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	OR	YES		10-23-2012

and (impair\$ or handicap\$)					
(impair\$ or handicap\$) and interpret\$	USPT	OR	YES		10-23-2012
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	OR	YES		10-23-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	OR	YES		10-23-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	OR	YES		10-23-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	OR	YES		10-23-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	OR	YES		10-23-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		10-23-2012
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	OR	YES		10-23-2012
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	OR	YES		10-23-2012
6470498.pn.	USPT	OR	YES		10-23-2012
6370498.pn.	USPT	OR	YES		10-23-2012
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012

(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB,	OR	YES		10-23-2012

	JPAB, DWPI, TDBD				
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	OR	YES		10-23-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		10-23-2012

	TDBD				
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC,	OR	YES		10-23-2012

	EPAB, JPAB, DWPI, TDBD				
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012

5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB,	OR	YES		10-23-2012

	JPAB, DWPI, TDBD				
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	OR	YES		10-23-2012
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	OR	YES		10-23-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	OR	YES		10-23-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	OR	YES		10-23-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB,	OR	YES		10-23-2012

	JPAB, DWPI, TDBD				
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		10-23-2012

<i>Index of Claims</i> 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
	Examiner MICHAEL N OPSASNICK	Art Unit 2626

✓	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	04/07/2011	09/28/2011	10/23/2012						
	1	✓	✓	✓						
	2	-	-	-						
	3	✓	✓	✓						
	4	✓	✓	✓						
	5	✓	✓	✓						
	6	✓	✓	✓						
	7	✓	✓	✓						
	8	✓	✓	✓						
	9	✓	✓	✓						
	10	✓	✓	-						
	11	✓	✓	✓						
	12	✓	✓	✓						
	13	✓	✓	✓						
	14	✓	✓	-						
	15		✓	✓						
	16		✓	✓						
	17		✓	✓						
	18			✓						
	19			✓						
	20			✓						
	21			✓						
	22			✓						
	23			✓						



Atty. Dkt. No. GT-12

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class U.S. Mail, in an envelope addressed to Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 24, 2013.

By: G. Piccionelli

Gregory A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert Glen KLINEFELTER, et al.

Title: SYSTEM, METHOD AND
APPARATUS FOR PROVIDING
INTERPRETIVE
COMMUNICATION ON A
NETWORK

Appl. No.: 12/658,496

Filing Date: February 8, 2010

Examiner: Michael N. Opsasnick

Art Unit: 2626

Confirmation Number: 8099

**NOTICE OF APPEAL FROM THE EXAMINER TO THE PATENT TRIAL AND
APPEAL BOARD**

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

Commissioner:

Applicant hereby appeals to the Patent Trial and Appeal Board from the decision of the Examiner in the Final Office Action dated October 25, 2012, finally rejecting Claims 1, 3-9, 11-13 and 15-23.

[] Applicant claims small entity status.

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

☒ Notice of Appeal Fee

☒ To be paid as detailed below

☐ Not required (Fee paid in prior appeal) The required fees are calculated below:

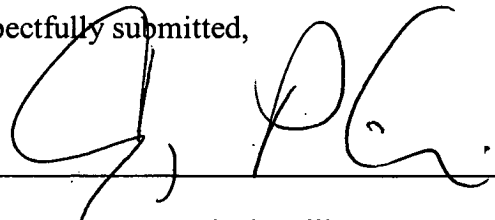
☒	Notice of Appeal Fee	\$630.00
☐	Extension for response filed within the first month:	\$0.00
☐	Extension:	\$0.00
	FEE TOTAL:	\$630.00
☒	Small Entity Fees Apply (subtract ½ of above):	\$315.00
	TOTAL FEE:	\$315.00

The above-identified fees of \$315.00 are being paid by applying the \$310.00 fee previously paid for the filing of the Notice of Appeal dated December 28, 2011, and the enclosed check for \$5.00, pursuant to MPEP 1204.01.

Please direct all correspondence to the undersigned.

Respectfully submitted,

By



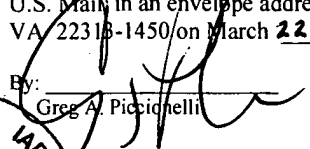
Gregory A. Piccionelli
Registration No. 39,534

Date January 24, 2013

Correspondence Address:
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Tel: (818) 488-8146
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DFW
AF

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class U.S. Mail in an envelope addressed to Mail Stop Appeal Brief - Patents, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 22, 2013.

By: 
Greg A. Piccionelli



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert G. Klinefelter and Gregory A. Piccionelli

Title: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK

Appl. No.: 12/658,496

Filing Date: February 8, 2010

Examiner: Michael N Opsasnick

Art Unit: 2626

APPEAL BRIEF UNDER 37 CFR 41.37

Mail Stop Appeal Brief - Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This communication is an Appeal Brief, responsive to the Final Office Action dated October 25, 2012, concerning the above-referenced patent application.

I. Real Party In Interest

The real party in interest for the above referenced patent application and the present Appeal is the assignee for the above referenced patent application, KP Innovations, LLC, in accordance with the assignment from the inventors recorded on February 27, 2012, through EPAS.

II. Related Appeals And Interferences

Applicants filed a Notice of Appeal (dated December 28, 2011) and an Appeal Brief (dated February 27, 2012), seeking review of the final rejections raised in the Final Office Action dated September 30, 2011. In response to that Appeal Brief, the Office reopened prosecution and issued a new, non-final Office Action dated May 23, 2012, raising new rejection, but no longer raising the previous rejections addressed in that Appeal Brief. The present appeal relates to those new rejections and yet additional new rejections raised in the Final Office Action dated October 25, 2012.

Applicant is not aware of any further related appeals, interferences or legal proceedings that would have a bearing on the Board's decision in the present Appeal. However, the present patent application is related to (and claims the priority filing date of) U.S. Patent Application No. 10/057,131, filed October 25, 2001 and U.S. Provisional Patent Application No. 60/243,162, filed October 25, 2000.

III. Summary Of Claimed Subject Matter

Embodiments of the present invention relate, generally, to communication services systems and methods that allow first and second users, on the same user computer, to communicate over a network with a third network user, such as a human interpreter (for example, a sign language interpreter) that can assist the first and second users to effectively communicate with each other.

A system according to embodiments of the present invention includes a user computer device that is configured to allow the first user to input and receive information from a first side of the user device housing, and to allow the second user to input and receive information from the second side of the user device housing. In this manner, the user computer device can be held in a position between the first and second users, to allow the third network user to assist both

first and second users during their (the first and second user's) communication session. By allowing the first and second users to face each other during a communication session, while also having the assistance of a third person (such as a human interpreter) available to electronically receive and provide information to both users, the system can provide significant improvements in the ability of the first and second users to communicate with each other.

For example, one or both of the first and second users may communicate a request to a provider computer for interpretation services. By matching appropriate criteria, the provider computer selects an interpreter and the interpreter is connected for communication with user computers. In one example, the first user and second user may require a sign-language interpreter to provide sign language interpretation to the first and/or second user of audible speech input by one or both of the first and second users. In other embodiments, other forms of interpretation may be employed.

In certain types of interpretation, such as, but not limited to sign-language interpretation, the interpreter may provide visible hand signs, facial expressions, and other visually perceptible information as part of the interpretation of audible speech. In addition, the first and/or second users may provide visible information (including, but not limited to hand signs, facial expressions and other visible information) as part of the information that is being communicated to the other of the first and/second user, through the interpreter. Accordingly, the visual display of a human interpreter can enhance the interpretation capabilities. Furthermore, the capture and communication of visible information from the first and second user to the interpreter can enhance the interpretation capabilities.

A system according to embodiments of the present invention can provide enhanced interpretation capabilities by providing the user computer in a housing having a first display device and a first input device on a first side of the housing, while also having a second input device and a second display device on a second side of the housing. The system allows a first user to access the first side of the housing (including the first display device and the first input device), while also allowing a second user to access the second side of the housing (including the second display device and the second input device). In this regard, computer housing may be held or otherwise supported at a position between the first and second users, to allow the first and second users to access the first and second display and input devices, respectively, to receive and

transmit information from and to the provider computer. Accordingly, an interpretation service can be carried out to interpret a conversation between the first and second user, with an interpreter (for example, a human interpreter) connected for communication with the at least one computer (including the first and second display and input devices), with the effect of an interpreter standing between the first and second users during the conversation.

Embodiments of the claimed invention are described in the specification and drawings of the original application. As examples of such support for the invention recited in each of the independent claims 1, 3, 9 and 21 is shown in the following claim charts:

CLAIM 1	SPECIFICATION AND DRAWINGS
A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:	Paragraphs 15 and 32 describe a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. Paragraph 33 describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer.
means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services	Fig. 2 shows a user computer and a provider computer connected on a communication network. Paragraph 18 describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters.
means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user	Paragraph 36 describes receipt of a request for services, matching criteria for the interpreter requested and effectuating an audio-video graphic connection between the interpreter and the user. Paragraphs 48 and 49 describe an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. Examples of such technologies are described in paragraph 49,

	including Real Networks, CUSeeMe and Net Meeting.
wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide provider computer and the user computer.	Paragraph 113 describes a housing 24 for user computers. The housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information. Figs. 3-6 also show that the output devices can include display screens 34 (one on each side of the housing 24) and input devices can include cameras 34 and microphones 30 (one of each on each side of the housing 24. Figs. 4-6 show how a first user can access input/output devices on one side of the housing while a second user accesses input/output devices on the second side of the housing.

CLAIM 3	SPECIFICATION AND DRAWINGS
A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:	Paragraphs 15 and 32 describe a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. Paragraph 33 describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer.
means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services	Fig. 2 shows a user computer and a provider computer connected on a communication network. Paragraph 18 describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters.
means for communication on the communication network with a human interpreter on at least one	Paragraph 36 describes receipt of a request for services, matching criteria for the interpreter

<p>of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user</p>	<p>requested and effectuating an audio-video graphic connection between the interpreter and the user. Paragraphs 48 and 49 describe an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. Examples of such technologies are described in paragraph 49, including Real Networks, CUSeeMe and Net Meeting.</p>
<p>wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer</p>	<p>Paragraph 113 describes a plurality of user computers in a single housing. Figs. 3 and 4 show a user computer housing 26 as including an audio receiver and transmitter 30 and visual receiver and transmitter 34. Fig. 1 shows a user computer 12 connected in electronic communication over a communications network with an Interpreter computer 18. Fig. 2 shows a user computer connected in electronic communication over a communications network with a provider computer. Paragraphs 48 and 49 describe an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies such as Real Networks, CUSeeMe and Net Meeting.</p>
<p>wherein the plurality of user computers comprise a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, the first user computer having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer having a second means for manual input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider computer and the first user computer at the same</p>	<p>Paragraph 113, "two user computers" and Figs. 3 and 4. Housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information.</p>

time that the second user is able to access the second user computer to receive or transmit information between the provider computer and the first user computer	
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CLAIM 9	SPECIFICATION AND DRAWINGS
A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user, comprising:	Paragraphs 15 and 32 describe a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. Paragraph 33 describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer.
at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information	Fig. 2 shows a user computer and a provider computer connected on a communication network. Paragraph 18 describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters. Paragraph 36 describes receipt of a request for services, matching criteria for the interpreter requested and effectuating an audio-video graphic connection between the interpreter and the user. Paragraphs 48 and 49 describe an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. Examples of such technologies are described in paragraph 49, including Real Networks, CUSeeMe and Net Meeting.
the at least one user computer comprising a housing having a first side and a second side, at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and second display device configured to allow the second user to input and output audio and visual information	Paragraph 113 describes a housing 24 for user computers. The housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information. Figs. 3-6 also show that the output devices can include display screens 34 (one on each side of the housing 24) and input devices can include cameras 34 and microphones 30 (one of each

wherein the at least one second input device and second display device resides on the second side of the housing	on each side of the housing 24.
wherein the first and second input devices and first and second display devices are arranged on the housing to allow the first user to access the at least one first input device and first display device at the same time that the second user is able to access the at least one second input device and second display device.	Figs. 4-6 show how a first user can access input/output devices on one side of the housing while a second user accesses input/output devices on the second side of the housing.

CLAIM 21	SPECIFICATION AND DRAWINGS
A communication services system operable with a communication network, the system comprising:	Fig. 1 shows a user computer 12 connected on a communication network 10. Fig. 2 shows a user computer and a provider computer connected on a communication network.
at least one user communication device configured to receive and transmit information over the communication network;	Fig. 2 shows a user computer and a provider computer connected on a communication network. Paragraphs 17, 18 and 34-36 describe examples of communications transmitted and received by the user device over the communication network, including transmitting a request and selections from a user for interpreting services.
the at least one user communication device comprising a housing having a first side and a second side, at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second input device and second display device resides on the second side of the housing;	Paragraph 113 describes a housing 24 for user computers. The housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information. Figs. 3-6 also show that the output devices can include display screens 34 (one on each side of the housing 24) and input devices can include cameras 34 and microphones 30 (one of each on each side of the housing 24).
wherein the first and second input devices and first and second display devices are carried by the housing in an orientation to allow the first user to access the at least one first input device and first display device from the first side of the housing at the same time that the second user is able to access the at least one second input	Figs. 4-6 show how a first user can access input/output devices on one side of the housing while a second user accesses input/output devices on the second side of the housing.

device and second display device from the second side of the housing	
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IV. Argument

1. Rejection of Claims 1, 3, 9, 15-17, 21 and 22 Under 35 U.S.C. 103(a):

The Office rejects claims 1, 3, 9, 15-17, 21 and 22 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,926,787 to Bennett et al. (hereinafter “Bennett”) in view of U.S. Patent No. 6,370,498 to Flores et al. (hereinafter “Flores”) and further in view of U.S. Patent No. 5,357,355 to Arai (hereinafter “Arai”). The Applicants respectfully disagree with and traverse this rejection.

It is respectfully submitted that, the present claims are patentably distinguished over Bennett, Flores and Arai (individually and in the combination proposed by the Examiner). For example, claim 1 recites a communication services system that includes means for receiving and transmitting information relating to a request for interpretive services between a provider computer and at least one user computer; means for communicating on the communication network with a human interpreter. The claim further recites that the at least one user computer comprises a housing, the housing having a first side and a second side. The claim further recites that the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing. The system in claim 1 is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer.

In contrast, neither Bennett nor Flores describe or suggest a system as recited in claim 1, including a housing having a first computer display and a first input means on a first side of the housing and a second computer display and a second input means on the second side of the housing. Instead, Bennett illustrates conventional style lap-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Bennett, Figs. 1, 7, 9 and 10). Flores illustrates conventional style desk-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Flores, Figs. 2, 5A and 5B). None of those references would have described or suggested to one of ordinary skill in the art, a

user computer having first and second display means (or input means) on first and second respective sides of a housing. As none of those references, individually, would have described or suggested the system of claim 1 including those features, the Examiner's proposed combination of those references would not have taught or suggested the system of claim 1 including those features. Accordingly, the Examiner's proposed combination of Bennett and Flores would not result in the invention recited in claim 1.

In the rejection of claim 1 set forth in the Final Office Action dated October 25, 2012, the Examiner acknowledged that the combination of Bennett and Flores does not explicitly teach [first and second] displays being contained in a single housing, facing opposite directions. Instead, the Examiner cites Arai as teaching a double sided panel display unit and argues that it would have been obvious to one of ordinary skill in the art at the time the invention was made to place individual displays into a single housing, back to back, as taught by Arai. (Office Action dated October 25, 2012, page 4, lines 14=19.)

However, Arai does not address the above-noted distinctions of claim 1 over Bennett and Flores. For example, Arai does not disclose or suggest first input means for audio and visual information on a first side of the housing and second input means for audio and visual information on the second side of the housing. Indeed, Arai does not appear to include any input means on either side of a housing (much less first and second input means for audio and visual information on the first and second sides of a housing, respectively). Instead, Arai describes a double sided display panel for displaying information, not for input of audio and visual information. Accordingly, the Examiner's proposed combination of Arai with Bennett and Flores would not have resulted in the invention recited in claim 1. The rejection of claim 1 is, therefore, respectfully traversed.

Similar comments apply to each of claims 3 and 9. For example, claim 3 recites a system that includes first and second user computers contained within a single housing, where the first user computer has a first means for manual input/output of audio and visual information on the first side of the housing. The second user computer has a second means for manual input/output of audio and visual information on the second side of the housing.

Claim 9 recites a system that includes at least one user computer comprising a housing and at least one first input device and first display device configured to allow the first user to

input and output audio and visual information, and at least one second input device and second display device configured to allow the second user to input and output audio and visual information. Claim 9 further recites that the at least one first input device and first display device resides on the first side of the housing, while the at least one second input device and second display device resides on the second side of the housing.

As discussed above, neither of Bennett, Flores nor Arai would have taught or suggested to one of ordinary skill in the art, first and second input devices on first and second sides of the same housing, for allowing first and second users to input audio and visual information. Furthermore, no combination of those references would have taught or suggested such features. As each reference lacks a teaching or suggestion of such features, there is no reason that a combination of those references would result in such a teaching or suggestion. Accordingly, a system as recited in each of claims 1, 3 and 9, including such features discussed above, was neither disclosed nor suggested by Bennett, Flores, or Arai (alone or in the combination proposed by the Examiner). The rejection of claims 1, 3 and 9 is, therefore, respectfully traversed.

Each of claims 15-17 is dependent on one of the base claims 1, 3 and 9 discussed above. Accordingly, each of dependent claims 15-17 is patentably distinguished from the references of record, including Bennett, Flores and Arai, considered individually or in the combination proposed by the Examiner, at least for reasons as discussed above with respect to base claims 1, 3 and 9. The rejection of claims 15-17 is, therefore, respectfully traversed.

Claim 21 is distinguished from the references of record (including Bennett, Flores, and Arai) at least for reasons similar to those discussed above with respect to claims 1, 3 and 9. For example, claim 21 recites “at least one first input device and first display device configured to allow the first user to input and output audio and visual information” and “at least one second input device and second display device configured to allow the second user to input and output audio and visual information.” Claim 21 further recites that “the at least one first input device and first display device reside on the first side of the housing” and “the at least one second input device and second display device reside on the second side of the housing.” Claim 21 further recites that “the first and second input devices and first and second display devices are carried by the housing in an orientation to allow the first user to access the at least one first input device and first display device from the first side of the housing at the same time that the second user is able

to access the at least one second input device and second display device from the second side of the housing.”

As discussed above, neither of Bennett, Flores nor Arai would have taught or suggested to one of ordinary skill in the art, first and second input devices on first and second sides of the same housing, for allowing first and second users to input audio and visual information. Furthermore, no combination of those references would have taught or suggested such features to one of ordinary skill in the art. As each reference lacks a teaching or suggestion of such features, there is no reason that a combination of those references would result in such a teaching or suggestion. Accordingly, a system as recited in claim 21, including such features discussed above, was neither disclosed nor suggested by Bennett, Flores, or Arai (alone or in the combination proposed by the Examiner). The rejection of claim 21 is, therefore, respectfully traversed.

Claim 22 is dependent on claim 21 and, therefore, is distinguished from the references of record, including Bennett, Flores and Arai, considered individually or in the combination proposed by the Examiner, at least for reasons as discussed above with respect to base claim 21.

In addition to the above-noted distinctions, independent claims 1 and 3 (and, thus, dependent claims 15 and 16) are further distinguished from the references of record, including Bennett, Flores and Arai. In contrast to those references, claims 1 and 3 refer to "a plurality of interpreter computers, each interpreter computer has an input/output device for manual operation by a respective one of the *human* interpreters." (Emphasis added.) Claims 1 and 3 further recite "means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer ... " (Emphasis added.)

In vast contrast to claims 1 and 3, Bennett utilizes an *automated* process for translating the stenographers (users) input codes into language readable by attorneys. The Bennett disclosure relates to a computer-aided *transcription* system used by court reporters which provides readable testimony to attorneys, judges, court reporters, witnesses and clients in real time. In Bennett, a court reporter, using a set of keys "in various combinations and sequences to represent spoken words" (col. 1, lines 36-39) records testimony in open court. These key-strokes are transcribed into pre-assigned words, wherein the key-stroke and associated word is stored in a cross-reference database. The transcription ability of the Computer Aided Transcription

("CAT") system in the Bennett reference is limited by the cross-reference library provided by the court reporter.

The libraries in the Bennett system are cross reference libraries that corresponds the input to a pre-designated output, which automatically cross reference the input to the predefined output. In Bennett, it is "CAT [that] offers an interpretation", as stated by the Office at page 3, which is automated. The CAT has no "input/output device for manual operation by a respective one of the human interpreters" (claims 1 and 3) or "means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers ... " (claims 1 and 3).

The ability of a human being to discern nuances in communication by the users and to appropriately select from a *number* of possible word choices is very distinctive from the slavish correlative procedure constrained by the "words" stored in the Bennett library. Additionally, language interpretation is more than correlating words in language A to words in language B. It requires "interpretation" involving the nuisances of culture and judgment performed by a *human*, including "reading" the expression on the faces of the persons speaking to and applying the interpreter's evaluation of the "tone" of the person's voice to make such evaluation to make such interpretations. Many times, it is not what a person says that is the primary communication but rather *how* it is said. Only a human interpretation can factor in such considerations in performing linguistic interpretation services. Accordingly, claims 1, 3 (and dependent claims 15 and 16) are further distinguished from the references of record.

In the "Response to Arguments" section on page 7 of the Final Office Action dated October 25, 2013, the Examiner further stated that the Applicants arguments are against the references individually and that nonobviousness cannot be shown by attacking references individually where the rejections are based on combinations of references. While the Applicants have shown that neither of Bennett, Flores and Arai, individually, would have taught or suggested the invention recited in each of claims 1, 3, 9, 15-17, 21 and 22, Applicant has also shown that the Examiner's proposed combination of Bennett, Flores and Arai would not have taught or suggested the claimed invention. For example, neither of Bennett, Flores nor Arai taught or suggested:

- (a) first display means and first input means for audio and visual information residing on the first side of the housing, and a second display means and a second input means for audio and visual information residing on the second side of the housing (as recited in claim 1);
- (b) first means for manual input/output of the audio and visual information on the first side of the housing and second means for manual input/output of audio and visual information on the second side of the housing (as recited in claim 3);
- (c) at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second input device and second display device resides on the second side of the housing (as recited in each of claims 9 and 21); or
- (d) the first and second input devices and first and second display devices are carried by the housing in an orientation to allow the first user to access the at least one first input device and first display device from the first side of the housing at the same time that the second user is able to access the at least one second input device and second display device from the second side of the housing (as further recited in claim 21).

As neither of Bennett, Flores nor Arai would have taught or suggested the claimed invention including the above-noted features of claims 1, 3, 9 and 21, to one of ordinary skill in the art, it follows that there would have been no reason that a combination (e.g., the Examiner's proposed combination) of those references would have taught or suggested the claimed invention. The lack of teaching or suggestion in each one of those references is not addressed by combining the references. The Examiner's proposed combination of Bennett, Flores and Arai would not have resulted in first and second input means or input devices, along with first and second display means or display devices, on first and second respective sides of a computer housing. Accordingly, the proposed combination of those references would not have met the claimed invention.

The Examiner further argued that "the Arai reference provides the teaching to combine separate displays with input/outputs, into a single housing." (Final Office Action, page 7, lines

9-10.) However, Arai describes a double sided thin panel display unit and provides no teaching or suggestion of first and second input device or input means on first and second respective sides of a housing. Accordingly, Arai does not address the claimed invention including the above-noted features of claims 1, 3, 9 and 21 (and, thus, does not address the lack of a teaching or suggestion in Bennett and Flores of those same features).

In view of the foregoing, the rejection of claims 1, 3, 9, 15-17, 21 and 22 is respectfully traversed. The Applicants request that the rejection be reversed and the cited claims be allowed.

2. Rejection of Claims 4-8 and 11-13 Under 35 U.S.C. 103(a):

The Office rejects claims 4-8 and 11-13 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,926,787 to Bennett et al. (hereinafter “Bennett”) in view of U.S. Patent No. 6,370,498 to Flores et al. (hereinafter “Flores”) further in view of U.S. Patent No. 5,357,355 to Arai (hereinafter “Arai”) and further in view of U.S. Patent No. 7,024,363 to Comerford et al. (hereinafter “Comerford”). The Applicants respectfully disagree with and traverse this rejection.

It is respectfully submitted that, the present claims are patentably distinguished over Bennett, Flores, Arai and Comerford (individually and in the combination proposed by the Examiner).

Each of claims 4-8 and 11-13 is dependent (directly or indirectly) on one of the base claims 1, 3 and 9, discussed above. It is respectfully submitted that, the present claims are patentably distinguished over Bennett, Flores and Arai (considered individually or in the combination proposed by the Examiner) at least for reasons as discussed above with regard to base claims 1, 3 and 9.

Furthermore, Comerford does not address the above-noted distinctions of base claims 1, 3 and 9 over the Bennett et al., Flores et al. and Arai references. Comerford does not disclose or suggest first and second input devices on first and second sides of the same housing, for allowing first and second users to input audio and visual information. Instead, the Examiner cited Comerford as teaching of “porting speech/language translation systems to handheld devices, such as a pda.” (Office Action dated October 15, 2012, page 5, lines 11-13.) Accordingly, each of dependent claims 4-8 and 11-13 is patentably distinguished from Bennett, Flores, Arai and Comerford (considered individually or in the combination proposed by the Examiner). The rejection of claims 4-8 and 11-13 is, therefore, respectfully traversed.

3. Rejection of Claims 18, 19 and 23 Under 35 U.S.C. 103(a):

The Office rejects claims 18, 19 and 23 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,926,787 to Bennett et al. (hereinafter “Bennett”) in view of U.S. Patent No. 6,370,498 to Flores et al. (hereinafter “Flores”) in view of U.S. Patent No. 5,357,355 to Arai (hereinafter “Arai”) in view of U.S. Patent No. 5,917,944 to Wakisaka (hereinafter “Wakisaka”) in view of U.S. Patent No. 5,983,073 to Ditzik (hereinafter “Ditzik”). The Applicant respectfully

disagrees with and traverses this rejection. While Wakisaka is mentioned in the heading of the rejection, the Examiner provided no comments in the rejection relating to how Wakisaka is being employed in the combination of references.

It is respectfully submitted that, the present claims are patentably distinguished over Bennett, Flores, Arai, Wakisaka and Ditzik (individually and in the combination proposed by the Examiner).

Each of claims 18 and 19 is dependent on claim 9, while claim 23 is dependent on claim 21. Each of claims 18, 19 and 23 recites that the first and second input devices are first and second cameras. Claims 18, 19 and 23 are each patentably distinguished from Bennett, Flores and Arai at least for reasons discussed above with regard to base claim 9 or base claim 21.

Furthermore, the Examiner acknowledged that the combination of Bennett, Flores and Arai does not explicitly teach cameras in the display housing. Instead, the Examiner cites Ditzik and argues that Ditzik “teaches a display containing camera capabilities (Fig. 3a, col. 8 lines 4-6).” The Examiner further argues that “it would have been obvious to one of ordinary skill in the art of audio/video based systems to improve upon the combination of [Bennett] in view of [Flores] in view of [Arai] with built-in cameras for both displays because it would advantageously allow the system to capture video of the user, for transmission ([Ditzik], col., 2 lines 30-40; col. 3 lines 15-20.” (Office Action dated October 25, 2012, page 6, lines 4-11.)

However, none of the references, including Ditzik, would have taught or suggested to one of ordinary skill in the art, first and second input means or input devices (much less, first and second cameras) on first and second respective sides of a computer housing. Instead, Ditzik describes a folding computer housing (similar to a modern lap-top computer configuration), where only one side (the inner, protected side) of the folding housing has a computer screen 4 and a camera 46. Ditzik describes one camera 46 on one location of the folding housing. Furthermore, Ditzik arranges the one camera 46 on the side of the folding housing that would be protected (between the two sides of the folding housing) when the housing is folded closed. Accordingly, Ditzik (like Bennett, Flores and Arai) does not describe or suggest first and second cameras on first and side respective sides of a computer housing.

Furthermore, the Examiner's proposed combination of Ditzik with Bennett, Flores and Arai, would not have resulted in first and second cameras on first and second respective sides of a computer housing. Instead, as noted above, Ditzik describes a single camera on only one side of a folding computer housing. The description in Arai (of a double sided display panel) considered with Ditzik would not have taught or suggested to one of ordinary skill in the art to employ two of cameras. Rather, replacing Ditzik's display screen 4 with Arai's double sided screen would not result in first and second cameras on first and second sides of the computer housing.

Furthermore, Arai refers to the convenience of displaying the same visual image on both sides of a display panel, during a face-to-face exchange with a customer at a cash register (or other point of sale). (See Arai, col. 1, lines 9-15.) This allows a customer to see the transaction on one side of the display screen, as the clerk enters purchase information into the cash register while viewing the other side of the display screen. Arai provides no teaching or suggestion of a desire or need for first and second cameras (or other input means or input devices) on first and second respective sides of a computer housing. The desire to display sales information in a manner that is simultaneously viewable by a sales clerk and a customer at a point of sale, would not have taught or suggested to one of ordinary skill in the art, to include first and second cameras (or other input means or input devices) on first and second respective sides of a computer housing.

Moreover, the camera 46 in Ditzik is not part of Ditzik's computer screen, itself (and, thus, is not included by Arai's double-sided computer screen). Rather, Ditzik's drawing in Fig. 3(a) shows a camera 46 mounted in the frame of the computer housing, at a location above and separated from the computer screen 4. Ditzik refers to the screen side of the folding computer housing as display assembly 2 that includes the display screen 4 and other components. (Ditzik, col. 3, lines 55-58.) The "other components" are not part of the display screen 4, itself and, thus, would not be included in Arai's double-sided computer screen). The Examiner's proposal to combine Arai with Ditzik would not have resulted in first and second cameras on first and second sides of a computer housing.

As noted above, the heading of the rejection of claims 18, 19 and 23 refers to Wakisaka, but the Examiner did not explain how Wakisaka is being employed in the rejection of

those claims. However, Wakisaka does not address the distinctions noted above. Wakisaka describes a portable “translating machine” that includes a directional microphone 1202 for detecting a targeted voice, and a multidirectional microphone 1203 used to remove surrounding (background ambient) noise from a targeted voice. (Wakisaka, col. 17, lines 22-37.)

Wakisaka would not have taught or suggested to one of ordinary skill in the art, first and second cameras on first and second respective sides of a computer housing. Wakisaka’s use of a second microphone for cancelling background noise would not have taught or suggested to one of ordinary skill in the art, first and second cameras.

Therefore, the Examiner’s proposed combination of Bennett, Flores, Arai, Wakisaka and Ditzik would not have taught or suggested to one of ordinary skill in the art, the invention recited in claims 18, 19 and 23. Furthermore, in view of the diverse and distinct purposes of the devices described in five references (Bennett, Flores, Arai, Wakisaka and Ditzik), one of ordinary skill in the art would not have considered it obvious to combine and manipulate the teachings of those references to somehow arrive at the presently claimed invention. Clearly, the combinations proposed by the Examiner employ significant hindsight derived from the present disclosure and are not based solely on the teachings and suggestions of the references of record.

Bennett relates to a transcription network of linked computer terminals for a court reporter and other courtroom participants. Flores relates to apparatus and methods for storing and retrieving prerecorded works in multiple languages. Arai describes a double sided thin panel display. Ditzik describes a modular notebook computer device that includes a camera mounted above a computer screen. Wakisaka describes a portable translator device for receiving and translating audio messages, for example, in an airport or other noisy location. While each of those references describes a computer device, there is no teaching or suggestion in those references of picking and choosing specific features for combining in the manner that the Examiner has proposed in the above rejection. Furthermore, as none of those references, itself, taught or suggested first and second cameras on first and second sides of a computer housing, the Examiner’s proposed combination would not meet the invention recited in claims 18, 19 and 23.

Accordingly, each of dependent claims 18, 19 and 23 is patentably distinguished from Bennett, Flores, Arai, Wakisaka and Ditzik (considered individually or in the combination

proposed by the Examiner). The rejection of claims 18, 19 and 23 is, therefore, respectfully traversed.

4. Rejection of Claim 20 Under 35 U.S.C. 103(a):

The Office rejects claim 20 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,926,787 to Bennett et al. (hereinafter “Bennett”) in view of U.S. Patent No. 6,370,498 to Flores et al. (hereinafter “Flores”) in view of U.S. Patent No. 5,357,355 to Arai (hereinafter “Arai”) in view of U.S. Patent No. 5,917,944 to Wakisaka (hereinafter “Wakisaka”). The Applicant respectfully disagrees with and traverses this rejection.

It is respectfully submitted that, the present claims are patentably distinguished over Bennett, Flores, Arai and Wakisaka (individually and in the combination proposed by the Examiner).

The Examiner acknowledged that the combination of Bennett, Flores and Arai does not explicitly teach incorporation of microphones into a dual sided housing display. Instead, the Examiner argues that Wakisaka “teaches embedded microphones into a display (Fig. 12B, subblocks 1202, 1203; col. 17, lines 22-35).” The Examiner further argues that “it would have been obvious to one of ordinary skill in the art of display devices to incorporate display microphones, as taught by Wakisaka, into the dual housing of [Bennett] in view of [Flores] in view of [Arai] because it would advantageously improve upon recognizing voice input especially in noisy environments, by using directionality microphones (Wakisaka, col. 6, lines 5-8).” (Office Action dated October 25, 2012, page 6, line 15 to page 7, line 2.)

However, the Examiner’s proposed combination of Wakisaka with Bennett, Flores and Arai, would not result in the invention recited in base claim 9 and, thus, in dependent claim 20.

In base claim 9, at least one first input device and first display device reside on the first side of the housing, while at least one second input device and second display device reside on the second side of the housing. In addition, claim 9 recites that the first and second input devices and the first and second display devices are arranged on the housing to allow the first user to access the at least one first input device and first display device at the same time that the second user is able to access the at least one second input device and second display device.

In contrast, in Wakisaka, one of the two microphones (i.e., microphone 1203) is a multidirectional microphone for detecting background ambient noise. That microphone 1203 is electronically connected to cancel background ambient noise from a targeted voice that is received through the directional microphone 1202. Accordingly, Wakisaka's microphones are not arranged on the housing to allow a first user to access one of the microphones at the same time that a second user accesses the other one of the microphones. Instead, Wakisaka's microphones work together, to detect one, single, targeted voice while cancelling background noise from that voice. Therefore, the Examiner's proposed combination of Wakisaka with Bennett, Flores and Arai, would not have resulted in the invention recited in base claim 9 and, thus, the invention in dependent claim 20.

Furthermore, the Examiner's characterization of Wakisaka as teaching of "embedded microphones into a display" is respectfully traversed. The microphones 1202 and 1203 in Wakisaka are not part of (or embedded in) the display 1205. The drawing in Fig. 12B of Wakisaka shows the microphones 1202 and 1203 as being mounted to a housing 1201 at locations that are spaced apart and separated from the screen 1205.

Furthermore, in view of the diverse and distinct purposes of the devices described in four references (Bennett, Flores, Arai, Wakisaka and Ditzik), one of ordinary skill in the art would not have considered it obvious to combine and manipulate the teachings of those references to somehow arrive at the presently claimed invention. Clearly, the combinations proposed by the Examiner employ significant hindsight derived from the present disclosure and are not based solely on the teachings and suggestions of the references of record.

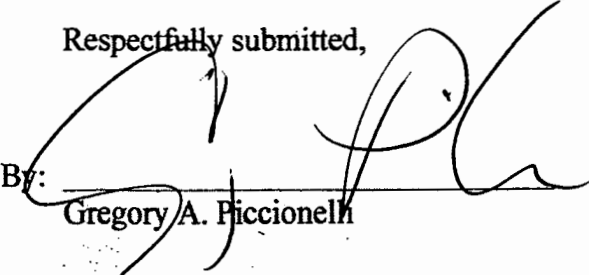
Bennett relates to a transcription network of linked computer terminals for a court reporter and other courtroom participants. Flores relates to apparatus and methods for storing and retrieving prerecorded works in multiple languages. Arai describes a double sided thin panel display. Wakisaka describes a portable translator device for receiving and translating audio messages, for example, in an airport or other noisy location. While each of those references describes a computer device, there is no teaching or suggestion in those references of picking and choosing specific features for combining in the manner that the Examiner has proposed in the above rejection.

Accordingly, claim 20 is patentably distinguished from Bennett, Flores, Arai and Wakisaka (considered individually or in the combination proposed by the Examiner). The rejection of claim 20 is, therefore, respectfully traversed.

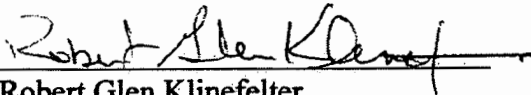
V. Conclusion

In view of the foregoing, it is respectfully submitted that claims 1, 3-9, 11-13 and 15-23 are in condition for allowance and the application should be allowed in its present form. In particular, it is respectfully submitted that the presently pending rejections of claims 1, 3-9, 11-13 and 15-23 are improper and should be reversed for reasons as discussed above.

Date: March 21, 2013

Respectfully submitted,

By: Gregory A. Piccionelli

Date: March 22, 2013

By: 
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Claims Appendix

1. (Previously Presented) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide provider computer and the user computer.

2. (Canceled)

3. (Original) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer;

wherein the plurality of user computers comprise a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, the first user computer having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer having a second means for manual input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider computer and the first user computer at the same time that the second user is able to access the second user computer to receive or transmit information between the provider computer and the first user computer.

4. (Original) A communication services system as claimed in claim 1, wherein at least one of either the provider computer, the at least one user computer, or interpreter computer comprises a hand-held device.

5. (Original) A communication services system as claimed in claim 4, the at least one of either provider computer user computer, or interpreter computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

6. (Original) A communication services system as claimed in claim 1, wherein at least one of the provider computer and the user computer comprises a hand-held device.

7. (Original) A communication services system as claimed in claim 6, the provider computer and user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

8. (Original) A communication services system as claimed in claim 3, wherein the user computers each comprise a hand-held device.

9. (Previously Presented) A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user, comprising:

at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information;

the at least one user computer comprising a housing having a first side and a second side, at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second input device and second display device resides on the second side of the housing;

wherein the first and second input devices and first and second display devices are arranged on the housing to allow the first user to access the at least one first input device and first display device at the same time that the second user is able to access the at least one second input device and second display device.

10. (Cancelled)

11. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer comprises a portable, hand-held device.

12. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is configured to transmit interpreter selection information to the provider

computer, the information relating to criteria for selecting an appropriate interpreter for the interpretation services.

13. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

14. (Cancelled)

15. (Previously Presented) A communication services system as claimed in claim 1, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

16. (Previously Presented) A communication services system as claimed in claim 3, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

17. (Previously Presented) A communication services system as claimed in claim 9, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

18. (Previously Presented) A communication services system as claimed in claim 9, wherein the first input device comprises a first camera carried in the housing, and wherein the second input device comprises a second camera carried in the housing.

19. (Previously Presented) A communication services system as claimed in claim 9, wherein the first input device comprises a first camera held by the housing and directed to input visual information from the first side of the housing, and wherein the second input device comprises a second camera held by the housing and directed to input visual information from the second side of the housing.

20. (Previously Presented) A communication services system as claimed in claim 9, wherein the first input device comprises a first microphone held by the housing and directed to input audio information from the first side of the housing, and wherein the second input device comprises a

second microphone held by the housing and directed to input audio information from the second side of the housing.

21. (Previously Presented) A communication services system operable with a communication network, the system comprising:

at least one user communication device configured to receive and transmit information over the communication network;

the at least one user communication device comprising a housing having a first side and a second side, at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second input device and second display device resides on the second side of the housing;

wherein the first and second input devices and first and second display devices are carried by the housing in an orientation to allow the first user to access the at least one first input device and first display device from the first side of the housing at the same time that the second user is able to access the at least one second input device and second display device from the second side of the housing.

22. (Previously Presented) A communication services system as claimed in claim 21, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

23. (Previously Presented) A communication services system as claimed in claim 21, wherein the first input device comprises a first camera, and wherein the second input device comprises a second camera.



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12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

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EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED: 04/04/2013

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

**Notification of Non-Compliant Appeal Brief
(37 CFR 41.37)**

Application No.

12/658,496

Applicant(s)

KLINEFELTER, ROBERT GLEN
et. al

Examiner

OPSASNICK, MICHAEL

Art Unit

2658

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

The Appeal Brief filed on March 26, 2013 is defective for failure to comply with one or more provisions of 37 CFR 41.37(c).

To avoid dismissal of the appeal, applicant must file an amended brief or other appropriate correction (see MPEP 1205.03) within **ONE MONTH or THIRTY DAYS** from the mailing date of this Notification, whichever is longer.
EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136.

1. ☐ The brief does not contain the items required under 37 CFR 41.37(c), or the items are not under the proper heading or in the proper order.
2. ☒ (a) The brief does not contain a concise explanation of the subject matter defined in each of the rejected independent claims, referring to the specification in the Record by page and line number or by paragraph number and to the drawings, if any, by reference characters; and/or (b) the brief fails to identify, for each rejected independent claim and for each dependent claim argued separately that contains a means plus function or step plus function recitation under 35 U.S.C. 112, sixth paragraph, the structure, material, or acts described in the specification as corresponding to each claimed function with reference to the specification in the Record by page and line number or paragraph number, and to the drawings, if any, by reference characters (37 CFR 41.37(c)(1)(iii)).
3. ☐ The brief does not contain a correct copy of the appealed claims as an appendix thereto (37 CFR 41.37(c)(1)(v)).
4. ☒ Other (including any explanation in support of the above items):

All Independent Claims must be mapped to the Original Specification for this application which uses page and line numbers. An entire new brief is not necessary just the corrected section.

L. VOID, Paralegal Specialist
571-272-6543
Supervisory Paralegal: Q. Gould
571-272-9797



FW AF

CERTIFICATE OF MAILING: I hereby certify that this paper is being deposited with the U. S. Postal Service as first class Mail, in an envelope addressed to Mail Stop Appeal Brief - Patents, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22311-1450 on April 24, 2013.

By: Greg A. Piccionelli
Greg A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert G. Klinefelter and Gregory A. Piccionelli

Title: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK

Appl. No.: 12/658,496

Filing Date: February 8, 2010

Examiner: Michael N Opsasnick

Art Unit: 2626

RESPONSE TO NOTIFICATION OF NON-COMPLIANT APPEAL BRIEF

Mail Stop Appeal Brief - Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This communication is responsive to the Notification of Non-Compliant Appeal Brief dated April 4, 2013, concerning the above-referenced patent application.

REMARKS

I. Introduction

In response to the Notification of Non-Compliant Appeal Brief dated April 4, 2013, Applicants submit herewith a revised copy of the claim charts appearing on pages 4-9 of the Appeal Brief filed on March 22, 2013.

More specifically, Applicants filed an Appeal Brief filed on March 22, 2013, that included claim charts mapping the independent claims, to show support in the specification and drawings, where those claim charts made reference to paragraph numbers from the *published* specification. A telephone message to the Applicants from Mr. L. Void (Paralegal Specialist identified on the above-referenced Notification) clarified that the Appeal Brief can be made compliant by revising that portion of the Appeal Brief to refer to locations in the *original* specification instead of the *published* specification, and resubmitting only that revised portion of the Brief.

Accordingly, the claim charts, below, are a revised copy of the previously-submitted claim charts (previously submitted on pages 4-9 of the Appeal Brief filed on March 22, 2013), but where the charts, below, are revised to refer to the page and line numbers of the *original* specification corresponding to the paragraph numbers of the published specification identified in the previously-submitted claim charts.

II. Revised Claim Charts

CLAIM 1	SPECIFICATION AND DRAWINGS
<p>A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:</p>	<p>The specification describes a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. (See, e.g., the paragraphs on page 12, lines 12-16 and page 15, line 21 to page 16, line 4.) Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. The specification describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer. (See, e.g., the paragraph on page 16, lines 5-13.)</p>
<p>means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services</p>	<p>Fig. 2 shows a user computer and a provider computer connected on a communication network. The specification describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters. (See, e.g., the paragraph on page 13, lines 3-7.)</p>
<p>means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user</p>	<p>The specification describes receipt of a request for services, matching criteria for the interpreter requested and effectuating an audio-video graphic connection between the interpreter and the user. (See, e.g., the paragraph on page 18, lines 4-12.) The specification describes an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. (See, e.g., the paragraphs on page 22, lines 4-18.) Examples of such technologies are described in the paragraph on page 22, lines 9-18, including Real Networks, CUSeeMe and Net Meeting.</p>
<p>wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further</p>	<p>The specification describes a housing 24 for user computers. (See, e.g., the paragraph on page 41, line 7 to page 42, line 2.) The housing 24 has a first side 26 and a second side</p>

<p>comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide provider computer and the user computer.</p>	<p>28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information. Figs. 3-6 also show that the output devices can include display screens 34 (one on each side of the housing 24) and input devices can include cameras 34 and microphones 30 (one of each on each side of the housing 24). Figs. 4-6 show how a first user can access input/output devices on one side of the housing while a second user accesses input/output devices on the second side of the housing.</p>
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CLAIM 3	SPECIFICATION AND DRAWINGS
<p>A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:</p>	<p>The specification describes a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. (See, e.g., the paragraphs on page 12, lines 12-16 and page 15, line 21 to page 16, line 4.) Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. The specification describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer. (See, e.g., the paragraph on page 16, lines 5-13.)</p>
<p>means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services</p>	<p>Fig. 2 shows a user computer and a provider computer connected on a communication network. The specification describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters. (See, e.g., the paragraph on page 13, lines 3-7.)</p>
<p>means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user</p>	<p>The specification describes receipt of a request for services, matching criteria for the interpreter requested and effectuating an audio-video graphic connection between the interpreter and the user. (See, e.g., the paragraph on page 18, lines 4-12.) The</p>

	<p>specification describes an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. (See, e.g., the paragraphs on page 22, lines 4-18.) Examples of such technologies are described in the paragraph on page 22, line 9-18, including Real Networks, CUSeeMe and Net Meeting.</p>
<p>wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer</p>	<p>The specification describes a plurality of user computers in a single housing. (See, e.g., the paragraph on page 41, line 7 to page 42, line 2.) Figs. 3 and 4 show a user computer housing 26 as including an audio receiver and transmitter 30 and visual receiver and transmitter 34. Fig. 1 shows a user computer 12 connected in electronic communication over a communications network with an Interpreter computer 18. Fig. 2 shows a user computer connected in electronic communication over a communications network with a provider computer. The specification describes an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies such as Real Networks, CUSeeMe and Net Meeting. (See, e.g., the paragraphs on page 22, lines 4-18.)</p>
<p>wherein the plurality of user computers comprise a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, the first user computer having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer having a second means for manual input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider</p>	<p>The specification and Figs. 3 and 4 describe "two user computers." (See, e.g., the paragraph on page 41, line 7 to page 42, line 2.) Housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information.</p>

computer and the first user computer at the same time that the second user is able to access the second user computer to receive or transmit information between the provider computer and the first user computer	
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CLAIM 9	SPECIFICATION AND DRAWINGS
<p>A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user, comprising:</p>	<p>The specification describes a system that includes a provider computer that provides web pages on a computer network, to allow network users to request interpreting services. (See, e.g., the paragraphs on page 12, lines 12-16 and page 15, line 21 to page 16, line 4.) Fig. 1 shows a user computer 12 and an interpreter computer 18 connected on a communication network 10. The specification describes a plurality of interpreters (with individual computers, such as a Palm Pilot) that are accessible to the provider computer. (See, e.g., the paragraph on page 16, lines 5-13.)</p>
<p>at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information</p>	<p>Fig. 2 shows a user computer and a provider computer connected on a communication network. The specification describes receiving a request from a user for interpreting services, sending a request to available interpreters, and choosing one of the interpreters. (See, e.g., the paragraph on page 13, lines 3-7.) The specification describes receipt of a request for services, matching criteria for the interpreter requested and effectuating an audio-video graphic connection between the interpreter and the user. (See, e.g., the paragraph on page 18, lines 4-12.) The specification describes an online exchange linking to a network of interpreters over a computer network, using Internet and network technologies that allow live audio and video feeds. (See, e.g., the paragraphs on page 22, lines 4-18.) Examples of such technologies are described in the paragraph on page 22, lines 9-18, including Real Networks, CUSeeMe and Net Meeting.</p>
<p>the at least one user computer comprising a</p>	<p>The specification describes a housing 24 for</p>

housing having a first side and a second side, at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and second display device configured to allow the second user to input and output audio and visual information wherein the at least one second input device and second display device resides on the second side of the housing	user computers. (See, e.g., the paragraph on page 41, line 7 to page 42, line 2.) The housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information. Figs. 3-6 also show that the output devices can include display screens 34 (one on each side of the housing 24) and input devices can include cameras 34 and microphones 30 (one of each on each side of the housing 24).
wherein the first and second input devices and first and second display devices are arranged on the housing to allow the first user to access the at least one first input device and first display device at the same time that the second user is able to access the at least one second input device and second display device.	Figs. 4-6 show how a first user can access input/output devices on one side of the housing while a second user accesses input/output devices on the second side of the housing.

CLAIM 21	SPECIFICATION AND DRAWINGS
A communication services system operable with a communication network, the system comprising:	Fig. 1 shows a user computer 12 connected on a communication network 10. Fig. 2 shows a user computer and a provider computer connected on a communication network.
at least one user communication device configured to receive and transmit information over the communication network;	Fig. 2 shows a user computer and a provider computer connected on a communication network. The specification describes examples of communications transmitted and received by the user device over the communication network, including transmitting a request and selections from a user for interpreting services. (See, e.g., the paragraphs on page 12, line 21 to page 13, line 7; and page 16, line 14 to page 18, line 12.)
the at least one user communication device comprising a housing having a first side and a second side, at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and second display device configured to allow the second user to input and output audio	The specification describes a housing 24 for user computers. (See, e.g., the paragraph on page 41, line 7 to page 42, line 2.) The housing 24 has a first side 26 and a second side 28. Figs. 4 and 6 show input/output devices on the first and second sides 26 and 28 of the housing 24, for two users to input and receive information. Figs. 3-6 also show that the output devices can include display screens 34

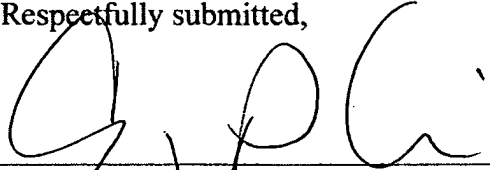
and visual information wherein the at least one second input device and second display device resides on the second side of the housing;	(one on each side of the housing 24) and input devices can include cameras 34 and microphones 30 (one of each on each side of the housing 24).
wherein the first and second input devices and first and second display devices are carried by the housing in an orientation to allow the first user to access the at least one first input device and first display device from the first side of the housing at the same time that the second user is able to access the at least one second input device and second display device from the second side of the housing	Figs. 4-6 show how a first user can access input/output devices on one side of the housing while a second user accesses input/output devices on the second side of the housing.

III. Conclusion

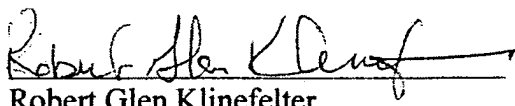
In view of the above revised claim charts and remarks, it is respectfully submitted that the Appeal Brief filed on March 22, 2013, is in compliance with 37 CFR 41.37(c).

Date: April, 2013

Respectfully submitted,

By: 
Gregory A. Piccionelli

Date: 22 April, 2013

By: 
Robert Glen Klinefelter

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

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EXAMINER

OPSASNICK, MICHAEL N

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2658

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

Application Number: 12/658496

Filing Date: February 8th, 2010

Appellant(s): Klinefelter et al

Gregory A. Piccionelli
For Appellant

EXAMINER'S ANSWER

This is in response to the appeal brief filed March 26, 2013 appealing from the Office action mailed October 25, 2012.

(1) Grounds of Rejection to be Reviewed on Appeal

Every ground of rejection set forth in the Office action dated 10/25/2012 from which the appeal is taken is being maintained by the examiner except for the grounds of rejection (if any) listed under the subheading “WITHDRAWN REJECTIONS.” New grounds of rejection (if any) are provided under the subheading “NEW GROUNDS OF REJECTION.”

The following ground(s) of rejection are applicable to the appealed claims.

1. Claims 1,3,9,15-17,21,22 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355)

As per claims 1,3, 9, Bennett (5926787) teaches:

interpreter accessible interpreter computers connected to a communication network (as a communication network including multiple users/viewers – fig. 1, the users are subblock 19,21), with a provider computer (Fig.1, subblock 13)

{ Examiner notes that functional format of the mapped-to claim language –

A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

}

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exchanging request for interpretive services between provider and user computer (as requesting area of case law that applies, from the lawyers, to the provider computer – col. 15 lines 24-44; also, Bennett teaches the interpreter using the translator – i.e., Bennett, besides offering fully automatic mode, also teaches the court reporter summarizing the translation col. 14 lines 1-10

{Examiner notes that functional format of the mapped-to claim language –

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services;
}

and communicating interpreter requests for interpretation services (as court reports/user controls the interpreted/translated texts – col. 6 lines 6-30)

{Examiner notes that functional format of the mapped-to claim language –

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;
}

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers; wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer (as users Fig1, subblocks 19,21 are in electronic communication with each other –and the provider computer - -Fig. 1,subblock 13);

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{ Examiner notes that functional format of the mapped-to claim language –
having means for receiving and transmitting information between
the provider computer and each other one of the plurality, of user computers
}

As per claims 1,3,9,15-17, Bennett (5926787) does not explicitly teach the transmission of audio information as well (the optional speech input is translated using a speech recognizer and transmitted as text); however, Flores (6370498) teaches providing both text and audio in differing requested languages from original text (Fig. 4). Therefore, it would have been obvious to one of ordinary skill in the art of interpretative services to enhance the system as taught by Bennett (5926787) with text and audio translation at each individual computer because it would advantageously provide for multi-lingual use as determined by the user (Flores (6370498), col. 3 lines 45-49).

As per claims 1,3,9,15-17, the combination of Bennett (5926787) in view of Flores (6370498) does not explicitly teach the displays(and audio) being contained in a single housing, facing opposite directions, however, Arai (5357355) teaches a double sided panel display unit (abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to place the individual displays into a single housing, back to back, as taught by Arai (5357355), because it would advantageously provide the same information on both sides of a panel display in a face-to-face transaction environment (Arai (5357355), col. 1 lines 10-19).

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2. Claims 4-8,11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355), in further view of Comerford et al (7024363).

As per claims 4-8,11-13 the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) teaches that the devices used are not limited to pc's (Bennett, col. 8 lines 18-24, and networks for remote access – col. 18 lines 5-11). However, the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355) does not explicitly discuss the use of handheld devices for the translation/interpretation system, however, Comerford et al (7024363) teaches porting speech/language translation systems to handheld devices, such as a pda (abstract, and, Figs. 2,3; Fig. 18a; col. 4 lines 13-39; col. 7 lines 15-53). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to port the device as taught by the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355) into a handheld pda device, as taught by Comerford et al (7024363), because it would advantageously allow for the operation of an existing system into a handheld device, so as to take advantage of the handheld device properties (portability, small size, etc.). with an enriched user interface (Comerford et al (7024363), col. 2 lines 10-19).

3. Claim 18,19,23 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944) in view of Ditzik (5983073).

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As per claims 19,23, the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) does not explicitly teach cameras into the display housing, however, Ditzik (5983073) teaches a display containing camera capabilities (Fig. 3a, col. 8 lines 4-6). Therefore, it would have been obvious to one of ordinary skill in the art of audio/visual based systems to improve upon the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) with built-in cameras for both displays because it would advantageously allow the system to capture video of the user, for transmission (Ditzik (5983073), col. 2 lines 30-40; col. 3 lines 15-20).

4. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944).

As per claim 20, the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944) does not explicitly teach the incorporation of microphones into the dual sided housing display, however, Wakisaka (5917944) teaches embedded microphones into a display (Fig. 12B, subblocks 1202,1203; col. 17, lines 22-35). Therefore, it would have been obvious to one of ordinary skill in the art of display devices to incorporate display microphones, as taught by Wakisaka, into the dual housing of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) because it would advantageously improve upon recognizing voice input especially in noisy environments, by using directionality microphones (Wakisaka, col. 6, lines 5-8).

(2) Response to Argument

Section A

On pages 10-11 of the Appeal Brief, Appellant presents arguments that are exactly opposite to what the references teach. To clarify, Appellants make allegations of “shortcomings” of the prior art references, however, these “shortcomings” were addressed using different prior art references.

In detail, Appellant’s arguments on the bottom of page 10 of the Appeal Brief, i.e.:

In contrast, neither Bennett nor Flores describe or suggest a system as recited in claim 1, including a housing having a first computer display and a first input means on a first side of the housing and a second computer display and a second input means on the second side of the housing. Instead, Bennett illustrates conventional style lap-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Bennett, Figs. 1, 7, 9 and 10). Flores illustrates conventional style desk-top computers having a single display and a single keyboard input means on one side of a housing (see, e.g., Flores, Figs. 2, 5A and 5B).

Examiner rebuts with, it is the Arai (5357355) reference that is used to teach a dual sided display, and it is the combination of Bennett (5926787) in view of Flores (6370498) , as modified by Arai (5357355) , that teaches the dual display single housing environment (with the accompanying audio input/output, as well as visual display) teaches the concept of a dual sided display (abstract). Appellant is attempting to argue that Bennett and Flores teaching laptop/desktop style displays; yes, however, the functionality of those computer systems (audio and visual) are modified by the teaching of Arai (5357355) with a dual sided display, to meet the current claim scope.

And again, Appellant arguments on page 11, middle, of the Appeal Brief, i.e.:

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However, Arai does not address the above-noted distinctions of claim 1 over Bennett and Flores. For example, Arai does not disclose or suggest first input means for audio and visual information on a first side of the housing and second input means for audio and visual information on the second side of the housing. Indeed, Arai does not appear to include any input means on either side of a housing (much less first and second input means for audio and visual information on the first and second sides of a housing, respectively). Instead, Arai describes a double sided display panel for displaying information, not for input of audio and visual information. Accordingly, the Examiner's proposed combination of Arai with Bennett and Flores would not have resulted in the invention recited in claim 1. The rejection of claim 1 is, therefore, respectfully traversed.

In opposite fashion, it is the **Bennett (5926787)** in view of **Flores (6370498)** combination that is used to teach the audio/visual input means to the display, and it is the **Arai (5357355)** reference that is used to teach a dual sided display.

Additionally, in response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Section B

Starting on page 12 (and eventually concluding to the bottom of page 13) of the Appeal Brief, Appellants, building on the previous arguments that are directly opposite to the combination rejection of **Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355)**, continue with a general allegation:

As discussed above, neither of Bennett, Flores nor Arai would have taught or suggested to one of ordinary skill in the art, first and second input devices on first and second sides of the same housing, for allowing first and second users to input audio and visual information.

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Furthermore, no combination of those references would have taught or suggested such features. As each reference lacks a teaching or suggestion of such features, there is no reason that a combination of those references would result in such a teaching or suggestion. Accordingly, a system as recited in each of claims 1, 3 and 9, including such features discussed above, was neither disclosed nor suggested by Bennett, Flores, or Arai (alone or in the combination proposed by the Examiner). The rejection of claims 1, 3 and 9 is, therefore, respectfully traversed.

Clearly, Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. In this instance, Appellant's allegations are directed to claim features that are taught by the OTHER prior art reference, and vice-versa.

NONETHELESS, examiner will further detail how the prior art rejection used, that is, **Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355)** combination, addresses Appellant's 2 (two) items in this section of the Appeal Brief:

- 1) allowing first and second users to input audio and visual information.
- 2) first and second input devices on first and second sides of the same housing

As to "1)" above, examiner notes that the claim language states "a first input means for audio and visual information". The recited portion of **Bennett (5926787)** (in the office action rejection), pointing to Bennetts Fig.1 laptop's have input means for visual (Bennett, col. 13 lines 50-65 -- all participants are required to select viewing language; and translation/transcription services are provided for the user's input) and means to input audio (col. 13 lines 50-65 -- providing translation/transcription services for the user's input and voice transcription (col. 18, line 20); as well as translating/transcribing spoken words -- **Bennett (5926787)**, col. 3 lines 48-

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59; col. 4 lines 3-5). Lastly, this interaction with the user also shows the “receiving and transmitting” of information between the users and the human interpreter (court reporter).

As to “2)” above, examiner notes the use of the **Arai (5357355)** reference to teach the concept of combining display functions into one housing (see the above **Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355)** or alternatively, CTFR, pages 4-5).

Section C

On pages 14-16 of the Appeal Brief, in summary, Appellants attempt to discredit the **Bennett (5926787)** reference by alleging that “The ability of a human being to discern nuances in communication by the users and to appropriately select from a *number* of possible word choices is very distinctive from the slavish correlative procedure constrained by the “words” stored in the Bennett library. Additionally, language interpretation is more than correlating words in language A to words in language B. It requires “interpretation” involving the nuisances of culture and judgment performed by a *human*,” etc. Examiner rebuts and notes that **Bennett (5926787)** uses a human interpreter (court reporter/stenographer) monitoring and interpreting the audio/visual information from other users (the lawyers/judges, etc. that are in the courtroom -- **Bennett (5926787)** , Fig. 1, abstract, Fig. 7, and col. 1 lines 25-29).

Section D

On pages 17-22 of the Appeal Brief, Appellant addresses further art rejections pertaining to dependent claims regarding cameras and microphones. Appellants arguments, however, are mostly toward the “input means for audio/visual” and “first and second input devices in the same housing”. As presented above, Examiner rebuts, as above, that the **Bennett**

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(5926787) reference addresses the input means for audio/visual and that the Arai (5357355) reference is used to teach the concept of combining the functionalities of the audio/visual inputs into a dual sided housing display.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/Michael N Opsasnick/
Primary Examiner, Art Unit 2658

Conferees:

Michael Colucci

/MICHAEL COLUCCI/

Primary Examiner, Art Unit 2658

/Richemond Dorvil/

Supervisory Patent Examiner, Art Unit 2658

Patent Appeal Center Return

Application Number:	12/658,496	Date:	15 August, 2013
Examiner:	M. Opsaasnick	GAU:	2658

The following deficiencies have been identified in the Examiner's Answer mailed 12 August, 2013.

The case will remain on your docket until ALL issues have been resolved.

Appeal Document(s) that caused this Return – Check at least one Document type:

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- ☐ Petition not considered.
- ☐ In response to the examiner's answer that contains a new ground of rejection, appellant requests that prosecution be reopened before the primary examiner by filing a reply under 37 CFR 1.111. The examiner must reopen prosecution and consider the reply. See MPEP 1207.03.
- ☐ Appellant failed to timely file a reply or a reply brief in response to the examiner's answer that contains a new ground of rejection. The examiner must dismiss the appeal as to the claims subject to the new ground of rejection. See MPEP 1207.03.
 - If all of the claims under appeal are subject to the new ground of rejection, the entire appeal should be dismissed. The examiner should follow the procedure set forth in MPEP 1215.
 - If only some of the claims under appeal are subject to the new ground of rejection, the dismissal of the appeal as to those claims operates as an authorization to cancel those claims and the appeal continues as to the remaining claims. The examiner should follow the procedure set forth in MPEP 1207.03 and may use form paragraph 12.179.02.

☒ Other

The appeal brief response date is missing 4/29/2013

One or more of the following items are missing:

- ☐ Translation
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/DARLENE BROWN/
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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
12/658,496	08 February, 2010	KLINEFELTER ET AL.	GT012

PICCIONELLI & SARNO A Professional Association Suite 200 2801 Townsgate Road Westlake Village, CA 91361		EXAMINER	
		Michael N. Opsasnick	
		ART UNIT	PAPER
		2658	20130815

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The date of the Appeal Brief Response Date, is, April 29, 2013.

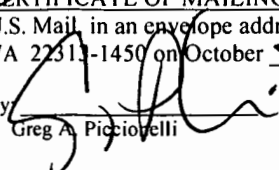
8/15/2013

/Michael N Opsasnick/
Primary Examiner, Art Unit 2658



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By 
Greg A. Piccionelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert G. Klinefelter and Gregory A. Piccionelli

Title: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK

Appl. No.: 12/658,496

Filing Date: February 8, 2010

Examiner: Michael N. Opsasnick

Art Unit: 2626

REPLY BRIEF UNDER 37 CFR 41.41

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Sir:

Under the provisions of 37 C.F.R. § 41.41, this Reply Brief is being filed together with the Appeal Forwarding fee (\$1000 small entity rate) as set forth in 37 C.F.R. 41.20(b)(4).

This Reply Brief is responsive to the Examiner's Answer dated August 12, 2013, concerning the above-referenced patent application.

In the Examiner's Answer, the rejections raised in the final Office Action dated October 25, 2012, were essentially repeated. Accordingly, Applicant's comments on pages 10-23 of Applicant's Appeal Brief dated March 26, 2013, address those rejections and are incorporated

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herein by reference. In addition, the Examiner's Answer includes a section (2) titled "Response to Argument." The present Reply Brief addresses comments included in that section (2) of the Examiner's Answer.

The system of claim 1 includes, among other features, first and second input means for audio and visual information on first and second respective sides of the housing. This allows first and second users to access first and second sides of the housing to receive and transmit information, such as audio and visual information for a language interpretation environment. Relevant portions of claim 1 read:

"a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide provider computer and the user computer"

(Underlines added for emphasis.)

None of the prior art of record teaches or suggests a system in which first and second input means for audio and visual information is provided on first and second respective sides of a computer housing. For example, the Examiner acknowledges that the combination of Bennett and Flores does not explicitly teach [first and second] displays being contained in a single housing, facing opposite directions. Instead, the Examiner cites Arai as teaching a double sided display panel and argues that it would have been obvious to one of ordinary skill in the art at the time the invention was made to place individual displays into a single housing, back to back, as taught by Arai. (Examiner's Answer, page 5, lines 13-20.)

However, Arai does not disclose or suggest first input means for audio and visual information on a first side of the housing and second input means for audio and visual information on the second side of the housing. Indeed, Arai does not appear to include any *input means* on either side of a housing (much less first and second input means for audio and visual information on the first and second sides of a housing, respectively).

Applicants' Appeal Brief pointed out that the Examiner's rejection of claim 1 did not address first and second input means for audio and visual information on first and second sides of the housing. In response, the Examiner stated (on page 9 of the Examiners' Answer):

"In opposite fashion, it is the **Bennett (5926787)** in view of **Flores (6370498)** combination that is used to teach the audio/visual input means to the display, and it is the **Arai (5357355)** reference that is used to teach a dual sided display." (Examiner's Answer, page 9, lines 11-13.)

However, contrary to the Examiner's argument, neither Bennett nor Flores would have taught or suggested to one of ordinary skill in the art input means "to a display" (or input means for audio and visual information). Furthermore neither Bennett nor Flores would have taught or suggested to one of ordinary skill in the art input means that is associated with a display screen in any manner to suggest that Arai's double-sided display screen would lead to first and second input means for audio and visual information on first and second sides of a housing.

Instead, Bennett describes a transcription system for real-time keyboard transcription. Bennett's system includes a stenographic recorder 11 that records key-strokes entered by a court reporter. (Bennett, col. 5, ll. 1-4.) Bennett's stenographic recorder 11 is connected, via a link 9 to a "reporter's terminal" (i.e., the "CAT system 13"). Bennett's stenographic recorder 11 has a keyboard 31 for recording a court reporter's key-strokes (and, thus, is not an input means for audio and visual information). While the end of Bennett's description includes a brief mention that "voice transcription might be implemented" (Bennett, col. 18, ll. 20-21), voice transcription would not involve visual information (or input means for audio and visual information). Also, while Bennett briefly mentions that "a pen-based note-pad computer having Optical Character Recognition (OCR) software which recognized shorthand might also be used," an optical pen-based input system is not an input means for audio or visual information.

Furthermore, as discussed above, Bennett does not associate the stenographic recorder 11 (voice transcription or optical pen) to a display screen in any manner that would suggest that Arai's double-sided display screen would lead to or suggest first and second input means for audio and visual information on first and second sides of a housing. Instead, Bennett's Fig. 1 shows the stenographic recorder 11 as being separate from the terminal 13 (and display screen 100), and connected to the terminal 13 via the link 9.

Bennett also describes a “reporter’s terminal” (i.e., the “CAT system 13”) and down-line “attorney terminals 19 and 21.” (Bennett, col. 5, ll. 22-24 and 61-62.) Bennett states that the “down-line terminal 19 includes a screen 351 and a keyboard 353.” (Bennett, col. 13, ll. 4-5.) Bennett shows a terminal 19 in Fig. 7 and shows generalized representations of terminals 13, 19 and 21 in Figs. 1, 9 and 10, but neither describes nor suggests any input means for audio and visual information associated with either of those terminals. In that regard, Bennett also does not associate audio and visual input means with a display device. Therefore, Bennett would not have taught or suggested audio or visual input means to a display.

Flores also does not address that distinction. Flores describes a system for allowing a user to access and create a database for multilingual retrieval of works. With reference to Flores’ Fig. 2, Flores describes a computer system 10 that includes “a processor or central processing unit (CPU) 12; a user interface, such as a monitor or display 18; audio speakers 19; some form of external storage medium 15; and an interconnection 14 for coupling the external storage medium 15 to the CPU 12.” (Flores, col. 4, ll. 51-57.) However, Flores would have neither described nor suggested to one of ordinary skill in the art audio and visual input means, much less an audio or visual input means to a display. Furthermore, Flores does not associate any input device with a display screen in any manner that would suggest that Arai’s double-sided display screen would lead to or suggest first and second input means for audio and visual information on first and second sides of a housing.

Thus, while the Examiner argues that it is “the **Bennett (5926787)** in view of **Flores (6370498)** combination that is used to teach the audio/visual input means to the display,” neither of those references describes or suggests input means for audio and visual information, much less audio or visual input means to a display. Thus, there is no logical reason why any combination of those two references would have taught or suggested such input means. Furthermore, there is no logical reason why any combination of those two references and Arai (which also fails to describe audio and visual input means) would have taught or suggested to one of ordinary skill in the art the system of claim 1, including first input means for audio and visual information on a first side of a computer housing and second input means for audio and visual information on the second side of the computer housing.

The Examiner argues that Bennett's Fig. 1 laptops have input means for visual information and input means for audio information, citing Bennett, at col. 13, lines 50-65. (See, Examiner's Answer at page 10, lines 19-22.) However, the cited portion of Bennett neither describes nor suggests input means for audio and visual information. Instead, the cited portion of Bennett describes participants being required to identify their viewing language and their role upon logging into the system 13. Neither the act of logging into a system nor identifying a language or role would have taught or suggested input means for audio and visual information as recited in claim 1. Furthermore, as discussed above, Bennett does not associate an input device with a display screen in any manner that would suggest that Arai's double-sided display screen would lead to or suggest first and second input means (much less first and second input means for audio and visual information) on first and second sides of a housing.

The Examiner also argues that Bennett's describes input means for audio information at col. 18, line 20. As discussed above, that portion of the Bennett reference mentions "voice transcription," but Bennett does not associate voice transcription with a display screen in any manner that would suggest that Arai's double-sided display screen would lead to or suggest first and second input means for audio and visual information on first and second sides of a housing.

The Examiner also argued that Bennett's description of "translating/transcribing spoken words" (at col. 3, lines 48-59 and col. 4, lines 3-5) somehow suggests input means for audio and visual information. However, those portions of Bennett expressly refer to "coded representations of spoken words" (Bennett, col. 3, l. 51 and col. 4, l. 4) and, thus, refer to the coded input that is received from the keyboard transcription recorder 11 (e.g., the court-reporter's coded input of the spoken court-room testimony). Again, neither that portion of Bennett nor any other portion of Bennett describe or suggest input means for audio and visual information, or any association of such input means with a display screen in a manner that would suggest that Arai's display screen would lead to first and second input means for audio and visual information on first and second sides of a housing.

Accordingly, the rejection and the Examiner's Answer fail to make a prima facie case of obviousness of claim 1. Similar comments apply to each of independent claims 3, 9 and 21. The rejection of each of independent claims 1, 3, 9 and 21 is, therefore, respectfully traversed and should be reversed. Also, dependent claims 18, 19, 20 and 23 further recite that the input means

for audio and visual information includes a camera or a microphone and, thus, are further distinguished from Bennett, Flores and Arai.

The Examiner's Response to Argument section (pages 8-12 of the Examiner's Answer) refers to the Examiner's proposed combination of Bennett, Flores and Arai (i.e., the combination of references cited in the rejection of claims 1, 3, 9, 15-17, 21 and 22). The Examiner did not address Applicant's arguments relating to the Ditzik reference and the Wakisaka reference, cited in the rejections of claims 4-8, 11-13, 18, 19, 20 and 23. Accordingly, Applicant refers to the arguments presented in Applicant's Appeal Brief, regarding those references.

For reasons as discussed in Applicant's Appeal Brief, the rejection and the Examiner's Answer fails to make a prima facie case of obviousness of claims 4-8, 11-13, 18, 19, 20 and 23. Therefore, the rejections of those claims are respectfully traversed and should be reversed.

V. Conclusion

In view of the foregoing, it is respectfully submitted that claims 1, 3-9, 11-13 and 15-23 are in condition for allowance and the application should be allowed in its present form. In particular, it is respectfully submitted that the presently pending rejections of claims 1, 3-9, 11-13 and 15-23 are improper and should be reversed for reasons as discussed above.

Respectfully submitted,

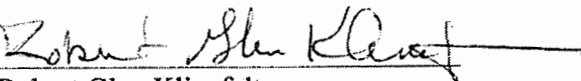
Date: 7 October, 2013

By:


Gregory A. Piccionelli

Date: 7 October, 2013

By:


Robert Glen Klinefelter

Correspondence Address

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

7590 11/04/2013
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A Professional Association
Suite 200
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Westlake Village, CA 91361

EXAMINER

OPSASNICK, MICHAEL N

ART UNIT	PAPER NUMBER
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2658

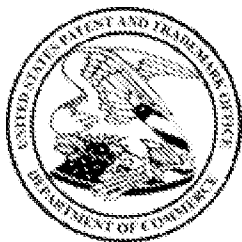
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2801 TOWNSGATE ROAD
WESTLAKE VILLAGE, CA 91361

Appeal No: 2014-000787
Application: 12/658,496
Appellant: Robert Glen Klinefelter et al.

Patent Trial and Appeal Board Docketing Notice

Application 12/658,496 was received from the Technology Center at the Board on October 21, 2013 and has been assigned Appeal No: 2014-000787.

In all future communications regarding this appeal, please include both the application number and the appeal number.

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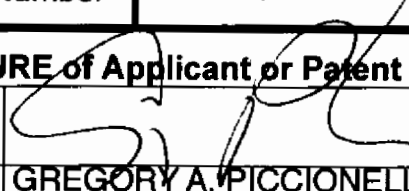
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Application Number	12/658,496
Filing Date	02/08/2010
First Named Inventor	GREGORY A. PICCIONELLI
Title	SYSTEM, METHOD, AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICATION ON A NETWORK
Art Unit	2658; Conf. No. 8099
Examiner Name	OPSASNICK, MICHAEL N.
Attorney Docket Number	GT012 (GAP10001DIV1)

SIGNATURE of Applicant or Patent Practitioner

Signature		Date (Optional)	9/21/2015
Name	GREGORY A. PICCIONELLI	Registration Number	
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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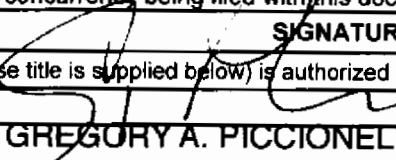
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Title			

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EFS ID:	23571178
Application Number:	12658496
International Application Number:	
Confirmation Number:	8099
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network
First Named Inventor/Applicant Name:	Robert Glen Klinefelter
Correspondence Address:	PICCIONELLI & SARNO A Professional Association Suite 200 2801 Townsgate Road Westlake Village CA 91361 US 8054975886 -
Filer:	Francisco A. Rubio-Campos/MARA RODRIGUEZ
Filer Authorized By:	Francisco A. Rubio-Campos
Attorney Docket Number:	GT012
Receipt Date:	22-SEP-2015
Filing Date:	08-FEB-2010
Time Stamp:	17:08:06
Application Type:	Utility under 35 USC 111(a)

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	GAP10001DIV1_POA_and_Trans.pdf	284995 c3b16fee284e505fc12e2525cd53a7ff8b02f3ea	no	2

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012

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- ☐ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(b) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
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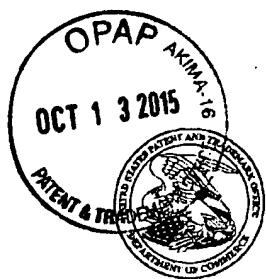


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12/658,496	02/08/2010	Robert Glen Klinefelter	GT012

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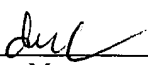
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- ☐ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(b) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- ☒ The signature(s) of Robert Glen Klinefelter, a co-inventor in this application, has been omitted. The Power of Attorney will be entered upon receipt of confirmation signed by said co-inventor(s).
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

7590 02/29/2016
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EXAMINER

OPSASNICK, MICHAEL N

ART UNIT	PAPER NUMBER
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2658

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02/29/2016

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ex parte ROBERT GLEN KLINEFELTER
and GREGORY A. PICCIONELLI

Appeal 2014-000787
Application 12/658,496
Technology Center 2600

Before MAHSHID D. SAADAT, KRISTEN L. DROESCH, and
LINZY T. McCARTNEY, *Administrative Patent Judges*.

SAADAT, *Administrative Patent Judge*.

DECISION ON APPEAL

Appellants¹ appeal under 35 U.S.C. § 134(a) from the Final Rejection of claims 1, 3–9, 11–13, and 15–23, which are all the claims pending in this application.² We have jurisdiction under 35 U.S.C. § 6(b).

We affirm.

¹ According to Appellants, the real party in interest is KP Innovations, LLC (App. Br. 2).

² Claims 2, 10, and 14 have been canceled.

STATEMENT OF THE CASE

Exemplary claim 1 under appeal reads as follows:

1. A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a user computer that comprises a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second user to access the second side of the housing of the user computer, to receive and transmit information between the provide provider computer and the user computer.

Claims 1, 3, 9, 15–17, 21, and 22 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett (US 5,926,787; July 20, 1999), Flores (US 6,370,498 B1; Apr. 9, 2002), and Arai (US 5,357,355; Oct. 18, 1994) (*see* Ans. 3–5).

Claims 4–8 and 11–13 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett, Flores, Arai, and Comerford (US 7,024,363 B1; Apr. 4, 2006) (*see* Ans. 6).

Claims 18, 19, and 23 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett, Flores, Arai, Wakisaka (US 5,917,944; June, 29, 1999), and Ditzik (US 5,983,073; Nov. 9, 1999) (*see* Ans. 6–7).

Claim 20 stands rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett, Flores, Arai, and Wakisaka (*see* Ans. 7).

ANALYSIS

We have reviewed the Examiner’s rejections in light of Appellants’ contentions that the Examiner has erred. We disagree with Appellants’ conclusions as highlighted below.

Claim 1

In rejecting claim 1, the Examiner relies on Bennett as disclosing all the recited elements except for “transmission of audio information” and “the displays (and audio) being contained in a single housing, facing opposite directions,” for which the Examiner relies on Flores and Arai, respectively (Ans. 3–5). The Examiner finds Figure 4 of Flores discloses providing text and audio in languages different from the original text, and Arai’s abstract discloses a double sided panel display unit (Ans. 5). The Examiner concludes it would have been obvious to one of ordinary skill in the art to

combine the teachings of Bennett with Flores and Arai in order to provide an enhanced interpretive system and present the same information to the users involved in a face-to-face transaction on both sides of a panel display (*id.*).

Appellants contend “Arai does not disclose or suggest first input means for audio and visual information on a first side of the housing and second input means for audio and visual information on the second side of the housing” (App. Br. 11). Appellants conclude the combination of Bennett, Flores, and Arai “would [not] have taught or suggested to one of ordinary skill in the art, first and second input devices on first and second sides of the same housing, for allowing first and second users to input audio and visual information” (App. Br. 12). Additionally, Appellants contend the libraries in Bennett automatically cross reference the input to the predefined output, which is different from the claimed input/output device for manual operation by a respective one of the human interpreters (App. Br. 14).

We are not persuaded by Appellants’ arguments that the Examiner erred. Appellants’ contentions focus on the references separately, whereas the proposed rejection is based on the Examiner’s combination of the teachings of Bennett, Flores, and Arai. *See In re Keller*, 642 F.2d 413, 425 (CCPA 1981); *In re Merck & Co. Inc.*, 800 F.2d 1091, 1097 (Fed. Cir. 1986). As found by the Examiner (Ans. 8), Arai discloses a dual sided display, which would have suggested providing the same functionalities of the computer system of Bennett, including the input means, on the first and second sides of a housing for use by first and second users. The Examiner specifically explains Bennett discloses input means for interaction by participants of a translation task and providing audio and visual information (Ans. 10–11 (citing passages in columns 3, 4, 13, and 18 of Bennett)),

whereas Arai teaches using a dual display arrangement in a single housing for a face-to-face relation between an operator and a customer (Ans. 11). In other words, the teaching value of Arai is in the arrangement of a dual display in a single housing. We also agree with the Examiner's findings with respect to Bennett's teaching related to a real time computer-aided transcription/translation used by a human (Ans. 11 (citing Bennett Figs. 1, 7; Abstract; col. 1, ll. 25–29)).

Therefore, consistent with the guidelines stated in *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 398 (2007), the Examiner identifies (*id.*) improvements made by the combination to the transcription/translation system of Bennett where the display and input means are arranged on the first and second sides of the user equipment. Indeed, the Supreme Court has indicated that:

[It is error to] assum[e] that a person of ordinary skill attempting to solve a problem will be led only to those elements of prior art designed to solve the same problem. . . . Common sense teaches . . . that familiar items may have obvious uses beyond their primary purposes, and in many cases a person of ordinary skill will be able to fit the teachings of multiple patents together like pieces of a puzzle.

KSR, 550 U.S. at 420 (citation omitted). Therefore, we find that the Examiner has articulated how the claimed features are met by the proposed combination of the reference teachings with some rational underpinning. *See KSR*, 550 U.S. at 418.

For the above-stated reasons, we are not persuaded by Appellants' argument that the Examiner erred in finding the combination of Bennett with Flores and Arai teaches or suggests the disputed features of claim 1. Therefore, we sustain the 35 U.S.C. § 103(a) rejection of claim 1,

independent claims 3, 9, and 21, and dependent claims 15–17 and 22, which are argued based on the same reasons stated in arguing the patentability of claim 1 (*see* App. Br. 11–16).

Claims 4–8 and 11–13

Appellants do not dispute the teachings of Comerford, and argue the patentability of these claims based on the same reasons stated for claim 1 and the failure of Comerford to cure the deficiencies discussed with respect to the combination of Bennet, Flores, and Arai (App. Br. 17). For the same reasons stated for claim 1 and based on the Examiner’s findings and conclusion (*see* Ans. 6), we are unpersuaded of Examiner error, and sustain the 35 U.S.C. § 103(a) rejection of claims 4–8 and 11–13 over the combination of Bennet, Flores, and Arai with Comerford.

Claims 18, 19, and 23

Claim 18 depends from independent claim 9 and requires “the first input device comprises a first camera carried in the housing, and wherein the second input device comprises a second camera carried in the housing.” Claims 19 and 23 require similar features related to the first and second cameras. Appellants argue the patentability of claims 18, 19, and 23 by alleging Ditzik fails to teach or suggest the first and second input means comprising first and second cameras (App. Br. 18).

The Examiner has presented detailed findings with respect to the applied prior art references, including Ditzik, and concluded:

Therefore, it would have been obvious to one of ordinary skill in the art of audio/visual based systems to improve upon the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) with built-in cameras for both displays because it would advantageously allow the system to

capture video of the user, for transmission (Ditzik (5983073), col. 2 lines 30–40; col. 3 lines 15–20.

(Ans. 7).

We agree with the Examiner’s findings and explanation regarding the combination of Bennet, Flores, Arai, and Wakisaka with Ditzik and adopt them as our own. We also understand the Examiner’s position to be based on combining Ditzik’s camera as one of the input means on the first and second sides which would be included in the housing, rather than bodily incorporation of the camera-computer structure of Ditzik in the transcription/translation system of Bennett as modified by Flores and Arai, as argued by Appellants (*see* App. Br. 19–20).

For the above-stated reasons, we are not persuaded by Appellants’ arguments that the Examiner erred in finding the disclosures of Bennet, Flores, Arai, Wakisaka, and Ditzik teach or suggest the disputed features of claim 18. Therefore, we sustain the 35 U.S.C. § 103(a) rejection of claims 18, 19, and 23.

Claim 20

Claim 20 depends from independent claim 9 and requires “the first input device comprises a first microphone held by the housing . . . , and wherein the second input device comprises a second microphone.” Appellants contend the patentability of claim 20 based on arguments similar to those presented for claim 18 regarding the teachings of Ditzik (App. Br. 21–22). Similar to our discussion of Ditzik above, we also agree with the Examiner’s findings regarding the teachings of Wakisaka and the stated conclusion that it would have been obvious to one of ordinary skill in the art

to further improve the user interaction by including a microphone in the input device on each side of the housing (*see* Ans. 7).

For the above-stated reasons, we are not persuaded by Appellants' arguments that the Examiner erred in finding the disclosures of Bennet, Flores, Arai, and Wakisaka teach or suggest the disputed features of claim 20. Therefore, we sustain the 35 U.S.C. § 103(a) rejection of claim 20.

DECISION

The decision of the Examiner to reject claims 1, 3–9, 11–13, and 15–23 is affirmed.

No time period for taking any subsequent action in connection with this appeal may be extended under 37 C.F.R. § 1.136(a)(1)(iv).

AFFIRMED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DOCKET NO.: GTO12
INVENTOR: KLINEFELTER et al.
TITLE: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING
INTERPRETIVE COMMUNICATION ON A NETWORK
SERIAL NO.: 12/658,496
FILING DATE: February 8, 2010
EXAMINER: Michael N. Opsasnick
GROUP ART UNIT: 2658
CONFIRMATION NO.: 8099

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

REQUEST FOR REHEARING

Dear Commissioner:

This is a request for a rehearing in the appeal of the above application under section §41.52 of the MPEP. The original decision has a mailing date of February 29, 2016. This request is being timely filed within two months of the date of the original decision.

Applicant respectfully requests a rehearing because a previously identified and addressed matter below was “misapprehended or overlooked” by the Patent Trial and Appeal Board.

The Arai Reference was Misapprehended

The *Arai* patent reference (U.S. 5,357,355) was misapprehended by the Patent Trial and Appeal Board as being a first display means on a first side of a housing and a second display means on a second side of the housing. The *Arai* patent teaches and describes a single panel display that has text displayed on the single panel readable from both sides. The *Arai* patent uses polarization so only part of the displayed data may be viewed by humans on each side, but it is a single display with all the data being displayed in that single display.

In Applicants' Brief, this issue was raised on page 11 in the argument section where it was noted that:

Indeed, Arai does not appear to include any input means on either side of a housing (much less first and second input means for audio and visual information on the first and second sides of a housing, respectively). Instead, Arai describes a double sided display panel for displaying information, not for input of audio and visual information."

Applicants state that *Arai* describes a double sided display panel for displaying information.

Panel is singular as used in Applicants' Brief because only one panel is taught and described in *Arai*.

On page 10 of Applicants' Brief, Applicants underlined a section of claim 1 that establishes claim 1 has a first computer display and a second computer display. The Patent and Appeal Board applied a single display reference with all text viewable from both sides to teach or describe Applicants two claim elements. In effect, the interpretation given to the reference enables a single panel display to replace both the first computer display and the second computer display.

In the Appeal Board's decision, it was even stated on page 4 that:

As found by the Examiner (Ans. 8), Arai discloses a dual sided display, which would have suggested providing the same functionalities of the computer system of Bennett, including the input means, on the first and second sides of a housing for use by first and second users.

What is stated in the Decision is inconsistent, if not actually impossible. A single panel of *Arai* cannot be “ON” two sides of a device. It may be “in” two sides or visible “from” two sides, but it is impossible to reside “ON” two sides at the same time. Applicants’ independent claims require a first display means to be “ON” a first side of a housing and a second display means to be “ON” a second side of the housing.

III. CONCLUSION

Applicants request a Rehearing and resulting Decision that is consistent with what is taught and described in the *Arai* patent in combination with the other references and a finding that all claims are in a condition for allowance.

Dated: March 29, 2016

Respectfully submitted,

/Gregory B. Gulliver/

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Electronic Acknowledgement Receipt

EFS ID:	25337733
Application Number:	12658496
International Application Number:	
Confirmation Number:	8099
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network
First Named Inventor/Applicant Name:	Robert Glen Klinefelter
Correspondence Address:	PICCIONELLI & SARNO A Professional Association Suite 200 2801 Townsgate Road Westlake Village CA 91361 US 8054975886 -
Filer:	Gregory Brian Gulliver
Filer Authorized By:	
Attorney Docket Number:	GT012
Receipt Date:	29-MAR-2016
Filing Date:	08-FEB-2010
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Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Rehearing of Patent Board Decision	RequestForRehearing.pdf	107926 8cf912d421a2946e917675e206d12e4aae27d120	no	3
Warnings:					
Information:					
Total Files Size (in bytes):			107926		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

7590 04/28/2016
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EXAMINER

OPSASNICK, MICHAEL N

ART UNIT	PAPER NUMBER
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04/28/2016

PAPER

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ex parte ROBERT GLEN KLINEFELTER
and GREGORY A. PICCIONELLI

Appeal 2014-000787
Application 12/658,496
Technology Center 2600

Before MAHSHID D. SAADAT, KRISTEN L. DROESCH, and
LINZY T. McCARTNEY, *Administrative Patent Judges*.

SAADAT, *Administrative Patent Judge*.

DECISION ON REQUEST FOR REHEARING

Appellants request rehearing of the February 29, 2016, Decision on Appeal (“Decision”), wherein we affirmed the rejection of claims 1, 3–9, 11–13, and 15–23 under 35 U.S.C. § 103(a) as unpatentable over Bennett, Flores, and Arai, and further in combination with the other cited prior art of record. We have reconsidered the Decision in light of Appellants’ arguments but, for the reasons given below, we are not persuaded we misapprehended or overlooked any points in our Decision.

Appellants argue that our decision misapprehended the Arai reference by relying on Arai as disclosing first and second display means positioned on two sides of a housing (Req. Reh’g 2). Appellants further argue Arai

describes a single panel display that uses polarization to display data that is viewable by users on both sides of the panel (*id.*). Referring to their Appeal Brief, Appellants state that this issue was raised on page 11 of the Brief as follows:

Indeed, Arai does not appear to include any input means on either side of a housing (much less first and second input means for audio and visual information on the first and second sides of a housing, respectively). Instead, Arai describes a double sided display panel for displaying information, not for input of audio and visual information.

(Req. Reh’g 2).

These arguments are unpersuasive because the Examiner relied on Arai as suggesting a dual sided display for user viewing on both sides (*see* Ans. 5 (citing Arai col. 1, ll. 10–19)). The Board adopted as its own the Examiner’s findings and conclusions stated on pages 3–5 of the Answer which addressed the teachings of each reference (Decision 4). In fact, the Examiner properly reasoned the dual-sided display panel of Arai suggests placing the individual displays of the computer system disclosed by Bennett in a back-to-back arrangement (Ans. 4–5).

Additionally, Appellants’ argument regarding using polarization in displaying the same data on each side (Req. Reh’g 2) is not the same as the argument quoted from the Appeal Brief pointing out Arai has no input means on either side (App. Br. 11). Nonetheless, Arai was relied on as disclosing a dual display, which in combination with Bennett, would have suggested placing input means for user interaction on each side of a dual-sided display. We further observe that, in addition to using polarization for displaying on both sides, Arai discloses an alternative arrangement for a dual sided display that includes two back-to-back single-sided panel displays (*see*

Arai, Fig. 1, col. 1, ll. 24–26), which provides the display arrangement for a dual display configuration when combined with the computer system of Bennett.

DECISION

Based on the foregoing, we have granted Appellants' request to the extent that we have reconsidered our Decision, but we deny Appellants' request to make any changes therein.

No time period for taking any subsequent action in connection with this appeal may be extended under 37 C.F.R. § 1.136(a)(1)(v).

REHEARING DENIED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DOCKET NO.: GTO12
INVENTOR: KLINEFELTER et al.
TITLE: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING
INTERPRETIVE COMMUNICATION ON A NETWORK
SERIAL NO.: 12/658,496
FILING DATE: February 8, 2010
EXAMINER: Michael N. Opsasnick
GROUP ART UNIT: 2658
CONFIRMATION NO.: 8099

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

**RESPONSE TO FINAL OFFICE ACTION OF OCTOBER 25, 2012 AND DENIAL OF
REQUEST OF REHEARING OF APRIL 28, 2016**

Dear Commissioner:

This is a response to the Final Office Action of October 25, 2012 and Denial of Request of Rehearing of April 28, 2016. It is being submitted with a Request for Continued Examination and associated fees. The decision denying the rehearing was mailed April 28, 2016 and this response is being timely filed within one month of the date on May 31, 2016 (as May 28 fell on a Saturday and Monday the 30th was a Federal Holiday).

Favorable consideration is respectfully requested in view of the following amendments and remarks.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DOCKET NO.: GTO12
INVENTOR: KLINEFELTER et al.
TITLE: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING
INTERPRETIVE COMMUNICATION ON A NETWORK
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Favorable consideration is respectfully requested in view of the following amendments and remarks.

AMENDMENTS

A. IN THE CLAIMS

1. (Previously Presented) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with ~ other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user comprises a user computer that comprise a housing, the housing having a first side and a second side, and the user computer further comprises a first display means and a first input means for audio and visual information, the first display means and first input means residing on the first side of the housing, and a second display means and a second input means for audio and visual information, the second display means and a second input means residing on the second side of the housing, and wherein the system is configured to allow the first user to access the first side of the housing of the user computer and the second

user to access the second side of the housing *of* the user computer, to receive and transmit information between the provide provider computer and the computer.

2.(Cancelled).

3.(Original) A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services; and

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers having means for receiving and transmitting information between the provider computer and each other one of the plurality of user computers, wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer;

wherein the plurality of user computers comprise a first user computer and a second user computer, wherein the first user computer and second user computer are contained within a single housing, the housing having a first side and a second side, the first user computer having a first means for manual input/output of audio and visual information, wherein the first means for manual input/output of the audio and visual information for the first user computer resides on the first side of the housing and wherein the second user computer having a second means for manual input/output of audio and visual information, wherein the second means for manual input/output of the audio and visual information for the second user computer resides on the second side of the housing, and wherein the system is configured to allow the first user to access the first user computer to receive or transmit information between the provider computer and the first user computer at the same time that the second user is able to access the second user computer to receive or transmit information between the provider computer and the first user computer.

4.(Original) A communication services system as claimed in claim 1, wherein at least one of either the provider computer, the at least one user computer, or interpreter computer comprises a hand-held device.

5.(Original) A communication services system as claimed in claim 4, the at least one of either provider computer user computer, or interpreter computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

6.(Original) A communication services system as 'claimed in claim 1, wherein at least one of the provider computer and the user computer comprises a hand-held device.

7.(Original) A communication services system as claimed in claim 6, the provider computer and user computer being selected from the group consisting of portable telephones, personal appointment managers, a Palm Pilot, and a personal communication device.

8.(Original) A communication services system as claimed in claim 3, wherein the user computers each comprise a hand-held device.

9.(Previously Presented) A communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers, wherein the at least one interpreter to facilitate communication between a first user and a second user comprising:

at least one user computer configured to receive and transmit information from and to the provider computer, the information relating to a request for interpretive services for interpreting communications between the first user and the second user, the at least one user computer further configured to receive interpretation services from a selected one of the interpreter computers that is selected based on the information;

the at least one user computer comprising a housing having a. first side and a second side, at least one first input device and first display device configured to allow the first user to input and output audio and visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device and

second display device configured to allow the second user to input and output audio and visual information wherein the at least one second input device and second display device resides on the second side of the housing;

wherein the first and second input device and first and second display devices are arranged on the housing to allow the first user to allow the first user to access the at least one first input device and first display device at the same time that the second user I able to access the at least one second input device and second display device.

10. (Cancelled).

11. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer comprises a portable, hand-held device.

12. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is configured to transmit interpreter selection information to the provider computer, the information relating to criteria for selecting an appropriate interpreter for the interpretation services.

13. (Original) A communication services system as claimed in claim 9, wherein the at least one user computer is a portable, wireless network communication device that accesses the communication network from a location that is remote to the provider computer and the plurality of interpreter computers, to receive and transmit the information from and to the provider computer and to receive the interpretation services over the communication network.

14. (Cancelled).

15. (Previously Presented) A communication services system as claimed in claim 1, wherein the first side of the housing and the second side of the housing face mutually opposite directions,

16. (Previously Presented) A communication services system as claimed in claim 3, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

17. (previously Presented) A communication services system as claimed in claim 9, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

18. (Previously Presented) A communication services system as claimed in claim 9, wherein the first input device comprises a first camera carried in the housing, and wherein the second input device comprises a second camera carried in the housing.

19. (Previously Presented) A communication services system as claimed in claim 9, wherein the first input device comprises a first camera held by the housing and directed to input visual information from the first side of the housing, and wherein the second input device comprises a second camera held by the housing and directed input visual information from the second side of the housing.

20. (Previously Presented) A communication services system as claimed in claim 9, wherein the first input device comprises a first microphone held by the housing and directed to input audio information from the first side of the housing, and wherein the second input device comprises a second microphone held by the housing and directed to input audio information from the second side of the housing.

21. (Currently Amended) A communication service ~~system~~ device operable with a communication network, ~~the system~~ comprising:

at least one user communication device configured to receive and transmit information over the communication network;

the at least one user communication device comprising a housing having a first side and a second side, at least one first input device and first display device configured to allow the at least one user ~~first user~~ to input and output ~~audio and~~ visual information wherein the at least one first input device and first display device resides on the first side of the housing, at least one second input device ~~and second display device~~ configured to allow ~~the second user to input and output~~ ~~audio and~~ visual information wherein the at least one second input device ~~and second display device~~ resides on the second side of the housing;

wherein the first and second input devices and first ~~and second~~ display devices are carried by the housing in an orientation to allow the at least one user ~~first user~~ to access the at least one first input device and first display device from the first side of the housing at the same time ~~that the user~~ ~~second user is able to access~~ as the at least one second input device ~~and second display device~~ from the second side of the housing.

22. (Currently Amended) ~~A~~ The communication service ~~system~~ device as claimed in claim 21, wherein the first side of the housing and the second side of the housing face mutually opposite directions.

23. (Currently Amended) ~~A~~ The communication services ~~system~~ device as claimed in claim 21, wherein the first input device comprises a first camera, and where the second input device comprises a second camera.

24. (New) The communication services device as claimed in claim 22 includes, a second display device residing on the second side of the housing.

II. REMARKS

A. STATUS SUMMARY

Claims 1, 3-9, 11-13, and 15-23 are pending in the present application. Claims 1, 3-9, 11-13, and 15-23 stand rejected by the Examiner. In this paper, Applicants have amended claims 21-23 and added new claim 24. No additional claims have been cancelled.

Applicants have considered the above-identified Final Office Action, and in view of the following rejections asserted in the Final Office Action:

1. Rejections of claims 1, 3, 9, 15-178, 21, and 22 under 35 U.S.C §103(a) as being unpatentable over the combination of *Bennett* (5926787) in view of *Flores* (6370498) in further view of *Arai* (5357355).
2. Rejection of claims 4-8 and 11-13 under 35 U.S.C §103(a) as being unpatentable over the combination of *Bennett* (5926787) in view of *Flores* (6370498) in further view of *Arai* (5357355), in further view of *Comerford et al.* (7024363).
3. Rejection of claims 18, 19, and 23 under 35 U.S.C §103(a) as being unpatentable over the combination of *Bennett* (5926787) in view of *Flores* (6370498) in view of *Arai* (5357355), in further view of *Wakisaka* (5917944) in view of *Ditzik* (5983073).
4. Rejection of claim 20 under 35 U.S.C §103(a) as being unpatentable over the combination of *Bennett* (5926787) in view of *Flores* (6370498) in view of *Arai* (5357355), in view of *Wakisaka* (5917944).

B. CLAIM REJECTIONS – claims 1, 3, 9, 15-178, 21, and 22 under 35 U.S.C §103(a)

Rejections of claims 1, 3, 9, 15-178, 21, and 22 under 35 U.S.C §103(a) as being unpatentable over the combination of *Bennett* (5926787) in view of *Flores* (6370498) in further view of *Arai* (5357355). Additional it was stated in the Denial of Rehearing that Appellants' argument regarding using polarization in displaying the same data on each side is not the same as the argument quoted from the Appeal Brief pointing out *Arai* has no input means on either side. Therefore this argument was not considered by the Examiner or Panel.

The *Arai* patent teaches and describes a single panel display that has text displayed on the single panel readable from both sides. The *Arai* patent uses polarization so only part of the displayed data may be viewed by humans on each side, but it is a single display with all the data being displayed in that single display. A single panel of *Arai* cannot be “ON” two sides of a device. It may be “in” two sides or visible “from” two sides, but it is impossible to reside “ON” two sides at the same time. Applicants' independent claims require a first display means to be “ON” a first side of housing and a second display means to be “ON” a second side of the housing.

Thus, when all the references are viewed or taken together, two separate displays are not taught or described or even suggested by the combination of references. Therefore for the above reasons, claims 1, 3, 9, 15-178, 21, and 22 are in condition for allowance.

C. CLAIM REJECTIONS – claims 4-8 and 11-13 under 35 U.S.C §103(a)

Rejection of claims 4-8 and 11-13 under 35 U.S.C §103(a) as being unpatentable over the combination of *Bennett* (5926787) in view of *Flores* (6370498) in further view of *Arai* (5357355), in further view of *Comerford et al.* (7024363).

Claims 4-8 and 11-13 are in condition for allowance because the claims depend from allowable independent claims.

D. CLAIM REJECTIONS – claims 18, 19, and 23 under 35 U.S.C §103(a)

Rejection of claims 18, 19, and 23 under 35 U.S.C §103(a) as being unpatentable over the combination of *Bennett* (5926787) in view of *Flores* (6370498) in view of *Arai* (5357355), in further view of *Wakisaka* (5917944) in view of *Ditzik* (5983073).

Claims 18, 19, and 23 are in condition for allowance because the claims depend from allowable independent claims.

E. CLAIM REJECTION – claim 20 under 35 U.S.C §103(a)

Rejection of claim 20 under 35 U.S.C §103(a) as being unpatentable over the combination of *Bennett* (5926787) in view of *Flores* (6370498) in view of *Arai* (5357355), in view of *Wakisaka* (5917944).

Claim 20 is in condition for allowance because the claim depends from an allowable independent claim.

III. CONCLUSION

In light of the above Amendments and Remarks, it is respectfully submitted that the present application is now in proper condition for allowance, and an early notice to such effect is earnestly solicited. However, if the Examiner believes that the Amendments and Remarks do not place the application in condition for allowance, Applicant respectfully requests that an Advisory Action be mailed at the earliest possible date.

If any small matter should remain outstanding after the Patent Examiner has had an opportunity to review the above Remarks, the Patent Examiner is respectfully requested to telephone the undersigned patent attorney in order to resolve these matters and avoid the issuance of another Office Action.

Dated: May 31, 2016

Respectfully submitted,
/Gregory B. Gulliver/
Gregory B. Gulliver
Reg. No. 44,138
(312) 720-0308 Telephone
(847) 574-8035 Fax
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Electronic Patent Application Fee Transmittal

Application Number:	12658496			
Filing Date:	08-Feb-2010			
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network			
First Named Inventor/Applicant Name:	Robert Glen Klinefelter			
Filer:	Gregory Brian Gulliver			
Attorney Docket Number:	GT012			
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:				
RCE- 2nd and Subsequent Request	2820	1	850	850
Total in USD (\$)				850

Electronic Acknowledgement Receipt

EFS ID:	25928557
Application Number:	12658496
International Application Number:	
Confirmation Number:	8099
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network
First Named Inventor/Applicant Name:	Robert Glen Klinefelter
Correspondence Address:	PICCIONELLI & SARNO A Professional Association Suite 200 2801 Townsgate Road Westlake Village CA 91361 US 8054975886 -
Filer:	Gregory Brian Gulliver
Filer Authorized By:	
Attorney Docket Number:	GT012
Receipt Date:	31-MAY-2016
Filing Date:	08-FEB-2010
Time Stamp:	17:45:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$850 SAMSUNG EXHIBIT 1003, Page 500

RAM confirmation Number		5454			
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		FOA_2016_05_31_12658496.pdf	163521 7f6e715c88e6fca3ab5acd94776b70bbdbda3ff0	yes	13
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	9	
	Applicant Arguments/Remarks Made in an Amendment		10	13	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30304 171389d1d47cc363e426a62eb71077006eb9db3b	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			193825		

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 12/658,496	Filing Date 02/08/2010	☐ To be Mailed
---	---	----------------------------------	---------------------------------------

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

(Column 1)

(Column 2)

FOR	NUMBER FILED	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

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	05/31/2016	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 21	Minus	** 20	= 1	X \$40 =	40
	Independent (37 CFR 1.16(h))	* 4	Minus	***4	= 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							40

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	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
/DORIAN EVANS/

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

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



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www.uspto.gov

e 2016-06-09

PICCIONELLI & SARNO
A Professional Association
Suite 200
2801 Townsgate Road
Westlake Village, CA 91361

Paper No.

Application No.:	12/658,496 	Date Mailed:	2016-06-09 PAPER
First Named Inventor:	Robert Glen Klinefelter	Examiner:	OPSASNICK, MICHAEL N
Attorney Docket No.:	GT012	Art Unit:	2658
Confirmation No.:	8099	Filing Date:	02/08/2010

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

Commissioner for Patents

NOTICE REQUIRING EXCESS CLAIMS FEES	Application No.	Applicant(s)
	12/658,496	KLINEFELTER ET AL.
		Art Unit OED2

The excess claim(s) filed on 31 May, 2016 is/are not accompanied by the appropriate payment of excess claims fees set forth in 37 CFR 1.16(h)-(j) or 1.492(d)-(f). Excess claims fees are required for each claim in independent form in excess of three (§ 1.16(h)), each claim (whether dependent or independent) in excess of twenty (note that § 1.75(c) indicates how multiple dependent claims are considered for fee calculation purposes) (§ 1.16(i)), and each application that contains a multiple dependent claim (§ 1.16(j)).

Since the application is not under a final rejection, applicant is given a time period of **TWO (2) MONTHS** from the mailing date of this notice to submit either: (1) the fee payment of \$ 40.00, or (2) an amendment in compliance with 37 CFR 1.121 that cancels the excess claim(s), in order to avoid ABANDONMENT. Extensions of this time period may be granted under 37 CFR 1.136, unless the excess claim(s) was/were presented in a preliminary amendment.

- ☐ 1. The funds in Deposit Account No. _____ are insufficient to cover the entire fee due. The balance is due within the time period set forth in this notice. See note below regarding the appropriate service charge.
- ☐ 2. The Credit Card payment to cover the entire fee due to Account _____ (**Card type + last 4 digits ONLY**) was refused. The balance is due within the time period set forth in this notice. See note below regarding the appropriate service charge.
- ☒ 3. The amendment that includes the excess claim(s) has not been entered, since applicant has failed to remit (or authorize charge to a Deposit Account or Credit Card) the fee as indicated on the attached Patent Application Fee Determination Record (PTO/SB/06). Remittance or authorization is due within the time period set forth in this notice.
- ☐ 4. The fee submitted in this application is insufficient. A balance of \$ _____ is due for presentation of excess claims (37 CFR 1.16(h)-(j) or 1.492(d)-(f)).
- ☐ 5. Other.

Explanation (Provide specific details of the required correction in order to assist the applicant. Indicate whether a service charge has been added to the fee due): The May 31 response was in excess of one (1) Total claim which no Deposit Account was provided.

THE AMOUNT OF THE FEE(S) DUE IS SUBJECT TO CHANGE, GENERALLY ON OCTOBER 1 OF EACH YEAR (37 CFR 1.16, 1.21 & 1.492). **THE AMOUNT OF THE FEE(S) DUE IS DETERMINED AS OF THE DATE A COMPLETE REPLY WITH THE APPROPRIATE FEE(S) IS RECEIVED BY THE OFFICE** (37 CFR 1.8 & 1.10). BECAUSE THE AMOUNT DUE IS SUBJECT TO CHANGE, IT IS RECOMMENDED THAT APPLICANT CHECK THE CURRENT FEE SCHEDULE WHICH IS AVAILABLE ON THE USPTO'S WEBSITE AT: <http://www.uspto.gov/web/offices/ac/qs/ope/fees.htm>

Service Charges: There is a \$50 service charge for processing each payment refused (including a check returned "unpaid") or charged back by a financial institution (37 CFR 1.21(m)). There is a \$25.00 service charge for each month when the balance of a deposit account is below \$1000 at the end of the month (37 CFR 1.21(b)(2)).

Technical Support Staff (TSS): /DORIAN EVANS/ Phone Number: (571)272-1572

Note to TSS: Please do NOT use this notice if the application is under a final rejection.



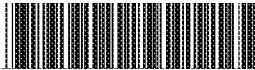
UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

e 2016-06-09

PICCIONELLI & SARNO
A Professional Association
Suite 200
2801 Townsgate Road
Westlake Village, CA 91361

Paper No.

Application No.:	12/658,496	Date Mailed:	2016-06-09
			PAPER
First Named Inventor:	Robert Glen Klinefelter	Examiner:	OPSASNICK, MICHAEL N
Attorney Docket No.:	GT012	Art Unit:	2658
Confirmation No.:	8099	Filing Date:	02/08/2010

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

Commissioner for Patents

NOTICE REQUIRING EXCESS CLAIMS FEES	Application No.	Applicant(s)
	12/658,496	KLINEFELTER ET AL. Art Unit OED2

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THE AMOUNT OF THE FEE(S) DUE IS SUBJECT TO CHANGE, GENERALLY ON OCTOBER 1 OF EACH YEAR (37 CFR 1.16, 1.21 & 1.492). THE AMOUNT OF THE FEE(S) DUE IS DETERMINED AS OF THE DATE A COMPLETE REPLY WITH THE APPROPRIATE FEE(S) IS RECEIVED BY THE OFFICE (37 CFR 1.8 & 1.10). BECAUSE THE AMOUNT DUE IS SUBJECT TO CHANGE, IT IS RECOMMENDED THAT APPLICANT CHECK THE CURRENT FEE SCHEDULE WHICH IS AVAILABLE ON THE USPTO'S WEBSITE AT: <http://www.uspto.gov/web/offices/ac/qs/ope/fees.htm>

Service Charges: There is a \$50 service charge for processing each payment refused (including a check returned "unpaid") or charged back by a financial institution (37 CFR 1.21(m)). There is a \$25.00 service charge for each month when the balance of a deposit account is below \$1000 at the end of the month (37 CFR 1.21(b)(2)).

Technical Support Staff (TSS): /DORIAN EVANS/ Phone Number: (571)272-1572

Note to TSS: Please do NOT use this notice if the application is under a final rejection.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 12/658,496		Filing Date 02/08/2010		☐ To be Mailed					
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO													
APPLICATION AS FILED – PART I													
(Column 1)			(Column 2)										
FOR		NUMBER FILED		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), (l), 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													
(Column 1)			(Column 2)			(Column 3)							
AMENDMENT	05/31/2016		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))		* 21		Minus	** 20	= 1		X \$40 =		40		
	Independent (37 CFR 1.16(h))		* 4		Minus	*** 4	= 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		40	
(Column 1)			(Column 2)			(Column 3)							
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))		*		Minus	**	=		X \$ =				
	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 /DORIAN EVANS/			

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

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

Electronic Patent Application Fee Transmittal

Application Number:	12658496			
Filing Date:	08-Feb-2010			
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network			
First Named Inventor/Applicant Name:	Robert Glen Klinefelter			
Filer:	Francisco A. Rubio-Campos/Mara Rodriguez			
Attorney Docket Number:	GT012			
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:				
Claims in excess of 20	2202	1	40	40
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				40

Electronic Acknowledgement Receipt

EFS ID:	26086315
Application Number:	12658496
International Application Number:	
Confirmation Number:	8099
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network
First Named Inventor/Applicant Name:	Robert Glen Klinefelter
Correspondence Address:	PICCIONELLI & SARNO A Professional Association Suite 200 2801 Townsgate Road Westlake Village CA 91361 US 8054975886 -
Filer:	Francisco A. Rubio-Campos/Mara Rodriguez
Filer Authorized By:	Francisco A. Rubio-Campos
Attorney Docket Number:	GT012
Receipt Date:	16-JUN-2016
Filing Date:	08-FEB-2010
Time Stamp:	14:26:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$40 SAMSUNG EXHIBIT 1003, Page 511

RAM confirmation Number	061716INTEFSW14282200				
Deposit Account	1002				
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	Fee Worksheet (SB06)	GT012_12658496_Copy_Addtl _Claim_Fee_Notice.pdf	286805 66157c551375b27f16e9bfa38977cb097cca423f	no	3
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30426 b6d1a65cfc81d1890328ff5eca42beee3144a91d	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			317231		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

**PETITION TO MAKE SPECIAL BASED ON AGE FOR ADVANCEMENT OF EXAMINATION
UNDER 37 CFR 1.102(c)(1)**

Application Information

Application Number	12658496	Confirmation Number		Filing Date	08-Feb-2010
Attorney Docket Number (optional)	GT012	Art Unit	2658	Examiner	MICHAEL OPSASNICK
First Named Inventor	Robert Glen Klinefelter				
Title of Invention	System, method, and apparatus for providing interpretive communication on a network				

Attention: Office of Petitions

An application may be made special for advancement of examination upon filing of a petition showing that the applicant is 65 years of age, or more. No fee is required with such a petition. See 37 CFR 1.102(c)(1) and MPEP 708.02 (II).

APPLICANT HEREBY PETITIONS TO MAKE SPECIAL FOR ADVANCEMENT OF EXAMINATION IN THIS APPLICATION UNDER 37 CFR 1.102(c)(1) and MPEP 708.02 (II) ON THE BASIS OF THE APPLICANT'S AGE.

A grantable petition requires one of the following items:

- (1) Statement by one named inventor in the application that he/she is 65 years of age, or more; or
- (2) Certification by a registered attorney/agent having evidence such as a birth certificate, passport, driver's license, etc. showing one named inventor in the application is 65 years of age, or more.

Name of Inventor who is 65 years of age, or older

Given Name	Middle Name	Family Name	Suffix
Robert		Klinefelter	

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18.
Please see 37 CFR 1.4(d) for the format of the signature.

Select (1) or (2) :

- ☐ (1) I am an inventor in this application and I am 65 years of age, or more.
- ☒ (2) I am an attorney or agent registered to practice before the Patent and Trademark Office, and I certify that I am in possession of evidence, and will retain such in the application file record, showing that the inventor listed above is 65 years of age, or more.

Signature	/Gregory B. Gulliver/		
Name	Gregory B. Gulliver	Registration Number	44138

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:

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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 Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



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In re Application of
Robert Glen Klinefelter

Application No. 12658496

Filed: February 8, 2010

Attorney Docket No. GT012

:

:

:DECISION ON PETITION TO MAKE SPECIAL
:UNDER 37 CFR 1.102(c)(1)

:

This is a decision on the electronic petition under 37 CFR 1.102 (c)(1), filed 11-AUG-2016 to make the above-identified application special based on applicant's age as set forth in MPEP § 708.02, Section II.

The petition is **GRANTED**.

A grantable petition to make an application special under 37 CFR 1.102(c)(1), MPEP § 708.02, Section II : Applicant's Age must include a statement by applicant or a registered practitioner having evidence that applicant is at least 65 years of age. No fee is required.

Accordingly, the above-identified application has been accorded "special" status and will be taken up for action by the examiner upon the completion of all pre-examination processing.

Telephone inquiries concerning this electronic decision should be directed to the Electronic Business Center at 866-217-9197.

All other inquiries concerning either the examination or status of the application should be directed to the Technology Center.

Electronic Acknowledgement Receipt

EFS ID:	26612024
Application Number:	12658496
International Application Number:	
Confirmation Number:	8099
Title of Invention:	System, method, and apparatus for providing interpretive communication on a network
First Named Inventor/Applicant Name:	Robert Glen Klinefelter
Correspondence Address:	- - - - - - -
Filer:	Gregory Brian Gulliver
Filer Authorized By:	
Attorney Docket Number:	GT012
Receipt Date:	11-AUG-2016
Filing Date:	08-FEB-2010
Time Stamp:	11:26:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	petition-request.pdf	38013	no	2
			7851b9d0299d39abac9a60349b8f4ee35de7d56c		
Warnings:					
Information:					
Total Files Size (in bytes):			38013		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/658,496	02/08/2010	Robert Glen Klinefelter	GT012	8099

7590 11/14/2016
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Westlake Village, CA 91361

EXAMINER

OPSASNICK, MICHAEL N

ART UNIT	PAPER NUMBER
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2658

MAIL DATE	DELIVERY MODE
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11/14/2016

PAPER

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

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

Art Unit: 2658

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

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114 was filed in this application after a decision by the Patent Trial and Appeal Board, but before the filing of a Notice of Appeal to the Court of Appeals for the Federal Circuit or the commencement of a civil action. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 5/31/2016 has been entered.

Claim Rejections - 35 USC § 103

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

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

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4. Claims 1,3,9,15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355)

As per claims 1,3, 9, Bennett (5926787) teaches:

interpreter accessible interpreter computers connected to a communication network (as a communication network including multiple users/viewers – fig. 1, the users are subblock 19,21), with a provider computer (Fig.1, subblock 13)

{Examiner notes that functional format of the mapped-to claim language –

A communication services system operable with a plurality of human interpreters on a computer network having a provider computer, at least one user computer, and a plurality of interpreter computers, each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters, wherein the at least one user computer is accessible by a first user and a second user, the first user and second user requiring at least one of the human interpreters to facilitate communication with each other, comprising:

}

exchanging request for interpretive services between provider and user computer (as requesting area of case law that applies, from the lawyers, to the provider computer – col. 15 lines 24-44; also, Bennett teaches the interpreter using the translator – i.e., Bennett, besides offering fully automatic mode, also teaches the court reporter summarizing the translation col. 14 lines 1-10

{Examiner notes that functional format of the mapped-to claim language –

means for receiving and transmitting information between the provider computer and the at least one user computer, the information relating to a request for interpretive services;

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}

and communicating interpreter requests for interpretation services (as court reports/user controls the interpreted/translated texts – col. 6 lines 6-30)

{ Examiner notes that functional format of the mapped-to claim language –

means for communication on the communication network with a human interpreter on at least one of the plurality of interpreter computers via the provider computer to request interpretation services for interpreting communications between the first user and the second user;

}

wherein the at least one user computer comprises a plurality of user computers, each of the plurality of user computers; wherein each of the plurality of user computers is in electronic communication with each other and with the provider computer (as users Fig1, subblocks 19,21 are in electronic communication with each other –and the provider computer - -Fig. 1,subblock 13);

{ Examiner notes that functional format of the mapped-to claim language –

having means for receiving and transmitting information between the provider computer and each other one of the plurality, of user computers

}

As per claims 1,3,9,15-17, Bennett (5926787) does not explicitly teach the transmission of audio information as well (the optional speech input is translated using a speech recognizer and transmitted as text); however, Flores (6370498) teaches providing both text and audio in differing requested languages from original text (Fig. 4). Therefore, it would have been obvious

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to one of ordinary skill in the art of interpretative services to enhance the system as taught by Bennett (5926787) with text and audio translation at each individual computer because it would advantageously provide for multi-lingual use as determined by the user (Flores (6370498), col. 3 lines 45-49).

As per claims 1,3,9,15-17, the combination of Bennett (5926787) in view of Flores (6370498) does not explicitly teach the displays(and audio) being contained in a single housing, facing opposite directions, however, Arai (5357355) teaches a double sided panel display unit (abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to place the individual displays into a single housing, back to back, as taught by Arai (5357355), because it would advantageously provide the same information on both sides of a panel display in a face-to-face transaction environment (Arai (5357355), col. 1 lines 10-19).

5. Claims 4-8,11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355), in further view of Comerford et al (7024363).

As per claims 4-8,11-13 the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) teaches that the devices used are not limited to pc's (Bennett, col. 8 lines 18-24, and networks for remote access – col. 18 lines 5-11). However, the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai

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(5357355) does not explicitly discuss the use of handheld devices for the translation/interpretation system, however, Comerford et al (7024363) teaches porting speech/language translation systems to handheld devices, such as a pda (abstract, and, Figs. 2,3; Fig. 18a; col. 4 lines 13-39; col. 7 lines 15-53). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to port the device as taught by the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355) into a handheld pda device, as taught by Comerford et al (7024363), because it would advantageously allow for the operation of an existing system into a handheld device, so as to take advantage of the handheld device properties (portability, small size, etc.). with an enriched user interface (Comerford et al (7024363), col. 2 lines 10-19).

6. Claims 18,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944) in view of Ditzik (5983073).

As per claim 19, the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) does not explicitly teach cameras into the display housing, however, Ditzik (5983073) teaches a display containing camera capabilities (Fig. 3a, col. 8 lines 4-6). Therefore, it would have been obvious to one of ordinary skill in the art of audio/visual based systems to improve upon the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) with built-in cameras for both displays because it would advantageously

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allow the system to capture video of the user, for transmission (Ditzik (5983073), col. 2 lines 30-40; col. 3 lines 15-20.

7. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944).

As per claim 20, the combination of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) in view of Wakisaka (5917944) does not explicitly teach the incorporation of microphones into the dual sided housing display, however, Wakisaka (5917944) teaches embedded microphones into a display (Fig. 12B, subblocks 1202,1203; col. 17, lines 22-35). Therefore, it would have been obvious to one of ordinary skill in the art of display devices to incorporate display microphones, as taught by Wakisaka, into the dual housing of Bennett (5926787) in view of Flores (6370498) in view of Arai (5357355) because it would advantageously improve upon recognizing voice input especially in noisy environments, by using directionality microphones (Wakisaka, col. 6, lines 5-8).

8. Claims 21,22, 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Flores (6370498) in further view of Arai (5357355)

As per claim 21, Bennett (5926787) teaches:

a communication service device operable with a communication network, comprising:at least one user communication device configured to receive and transmit information over the

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communication network (as a communication network including multiple users/viewers – fig. 1, the users are subblock 19,21), with a provider computer (Fig.1, subblock 13));

the at least one user communication device comprising a housing having a first side and at least one first input device and first display device configured to allow the at least one user to input and output visual information wherein the at least one first input device and first display device resides on the first side of the housing and a second side, at least one second input device configured to input visual information (fig. 1, subblock 13,19,21); Bennett (5926787) teaches multiple devices/displays and hence, teaches the concept of a second/multiple terminals/displays (fig. 1; which can handle input and output – col. 13 lines 1-13).

Bennett (5926787) does not explicitly teach wherein the at least one second input device resides on the second side of the housing; wherein the first and second input devices and first display devices are carried by the housing in an orientation to allow the at least one user to access the at least one first input device and first display device from the first side of the housing at the same time as the at least one second input device from the second side of the housing;

however, Arai (5357355) teaches a double sided panel display unit (abstract; col. 1 lines 24-26,), separate driver arrays (Fig. 4 figures 11s, 11p, 11q). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to place the individual displays into a single housing, back to back, as taught by Arai (5357355), because it would advantageously provide the same information on both sides of a panel display in a face-to-face transaction environment (Arai (5357355), col. 1 lines 10-19).

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As per claims 22,24, the combination of Bennett (5926787) in view of Arai (5357355) teaches the first side and second side of the housing face mutually opposite directions (Arai (5357355), fig. 3, abstract).

9. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Bennett (5926787) in view of Arai (5357355) in view of Ditzik (5983073).

As per claim 23, the combination of Bennett (5926787) in view of Arai (5357355) does not explicitly teach cameras into the display housing, however, Ditzik (5983073) teaches a display containing camera capabilities (Fig. 3a, col. 8 lines 4-6). Therefore, it would have been obvious to one of ordinary skill in the art of audio/visual based systems to improve upon the combination of Bennett (5926787) in view of Arai (5357355) with built-in cameras for both displays because it would advantageously allow the system to capture video of the user, for transmission (Ditzik (5983073), col. 2 lines 30-40; col. 3 lines 15-20).

Response to Arguments

10. Applicant's arguments filed 5/31/2016 have been fully considered but are not considered persuasive. As to applicants arguments against the Arai reference, examiner argues that the Arai references provides the teaching to combine separate displays with input/outputs, into a single

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housing. The claim scope of “on” two sides of a device still reads upon the Arai reference; the claim scope does not preclude Arai's teaching, although the same data is displayed on both sides, in the Arai reference. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In light of applicants approach to the Arai reference, examiner notes the following references that teach dual sides displays showing different information:

Ujihara (5304895) teaches a dual sided display (col. 5, lines 45-53) with driver circuits for both sides – (col. 2 lines 32-38).

Larson (6229514) teaches dual sided display (col. 7 lines 5-10) showing visualization of information.

Antila et al (6583770) teaches dual display (Fig. 5a, 5b) showing differing information – col. 1 lines 5-11, col. 2 lines 58-65

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see related art listed on the PTO-892 form.

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Monday-Friday, 9am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Richemond Dorvil, can be reached at (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).

/Michael N. Opsasnick/
Primary Examiner, Art Unit 2658
11/11/2016

Notice of References Cited	Application/Control No. 12/658,496		Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.	
	Examiner Michael N. Opsasnick		Art Unit 2658	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-5,304,895 A	04-1994	Ujihara; Takashi	G09F9/33	313/483
*	B	US-6,229,514 B1	05-2001	Larson; Ove	G02F1/0147	345/101
*	C	US-6,583,770 B1	06-2003	Antila; Mika	G02F1/1336	345/1.1
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

WEST Search History for Application 12658496

Creation Date: 2016111120:36

Interference Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		04-07-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		04-07-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		04-07-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		09-28-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		09-28-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		09-28-2011
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		09-28-2011

((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		09-28-2011
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
5926787.pn.	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
(5926787.pn.) and translat \$	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
5357355.pn.	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
5357355.pn.	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
(interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012

((interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language) and @ ad & lt; 20001023	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language and @ ad & lt; 20001023) and ((speech near7 recogni \$))	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language and @ ad & lt; 20001023 and ((speech near7 recogni \$))) and & quot;palm pilot & quot;	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpret \$ and translat \$ and (pda or handheld or (cell adj3 phone) or mobile)) and language and @ ad & lt; 20001023 and ((speech near7 recogni \$))) and pda	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
(interpretator or interpret \$ or interpretave) and (language near7 translat \$) and impair \$ and network	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpretator or interpret \$ or interpretave) and (language near7 translat \$) and impair \$ and network) and @ ad & lt; 20001023	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpretator or interpret \$ or interpretave) and (language near7 translat \$) and impair \$ and network and @ ad & lt; 20001023) and human	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
human and (interpreter or interpreter or operator) and blind and deaf and translat \$ and @ ad & lt; 20001025	PGPB, USPT, * No UPAD	n/a	OR	YES		05-19-2012
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		10-23-2012
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		10-23-2012
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		10-23-2012

((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		10-23-2012
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT, * No UPAD	n/a	OR	YES		10-23-2012
5926787.pn.	PGPB, USPT, * No UPAD	n/a	OR	YES		10-23-2012
(5926787.pn.) and translat \$	PGPB, USPT, * No UPAD	n/a	OR	YES		10-23-2012
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.	PGPB, USPT	168	OR	YES		11-11-2016
((interpret \$ 6 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT	60	OR	YES		11-11-2016
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.	PGPB, USPT	10	OR	YES		11-11-2016
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and human).clm.	PGPB, USPT	3	OR	YES		11-11-2016
((interpreter \$ 2 near10 (select \$ 3 or choose or chosen or choosing)) and user and second and network and communication and service and (match or matches or matched)).clm.	PGPB, USPT	3	OR	YES		11-11-2016
5926787.pn.	PGPB, USPT	1	OR	YES		11-11-2016
(5926787.pn.) and translat \$	PGPB, USPT	1	OR	YES		11-11-2016

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
(image near7 interpret\$4)		n/a	OR	YES		04-07-2011

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	n/a	OR	YES		04-07-2011
	USPT	n/a	OR	YES		04-07-2011

((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)						
(impair\$ or handicap\$) and interpret\$	USPT	n/a	OR	YES		04-07-2011
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	n/a	OR	YES		04-07-2011
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other)))	USPT	n/a	OR	YES		04-07-2011
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other)))	USPT	n/a	OR	YES		04-07-2011
((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))))	USPT	n/a	OR	YES		04-07-2011
(((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))))) and network	USPT	n/a	OR	YES		04-07-2011
(((((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	n/a	OR	YES		04-07-2011
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	n/a	OR	YES		04-07-2011
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	n/a	OR	YES		04-07-2011
6470498.pn.	USPT	n/a	OR	YES		04-07-2011
6370498.pn.	USPT	n/a	OR	YES		04-07-2011
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(379/52).ccls.		n/a	OR	YES		04-07-2011

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB,	n/a	OR	YES		04-07-2011

	JPAB, DWPI, TDBD					
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	n/a	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	n/a	OR	YES		04-07-2011

	TDBD					
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC,	n/a	OR	YES		04-07-2011

	EPAB, JPAB, DWPI, TDBD					
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011

5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or	PGPB, USPT, USOC, EPAB,	n/a	OR	YES		04-07-2011

translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	JPAB, DWPI, TDBD					
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	n/a	OR	YES		04-07-2011
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	n/a	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	n/a	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	n/a	OR	YES		04-07-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
((dual near7 sided near7 display))		n/a	OR	YES		04-07-2011

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		04-07-2011
(double near7 sided near7 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(((double near7 sided near7 display))) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(((double near7 sided near7 display)) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB,	n/a	OR	YES		09-28-2011

	JPAB, DWPI, TDBD					
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
language and interpret\$		n/a	OR	YES		09-28-2011

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	n/a	OR	YES		09-28-2011
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	n/a	OR	YES		09-28-2011
(impair\$ or handicap\$) and interpret\$	USPT	n/a	OR	YES		09-28-2011
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	n/a	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	n/a	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	n/a	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	n/a	OR	YES		09-28-2011
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	n/a	OR	YES		09-28-2011

(((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	n/a	OR	YES		09-28-2011
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	n/a	OR	YES		09-28-2011
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	n/a	OR	YES		09-28-2011
6470498.pn.	USPT	n/a	OR	YES		09-28-2011
6370498.pn.	USPT	n/a	OR	YES		09-28-2011
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(((704/270 704/270.1 704/271 704/272	PGPB,	n/a	OR	YES		09-28-2011

<p>1704/273 1704/274 1704/275 1704/276 1704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)</p>	<p>USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>					
<p>interpret\$ near10 service\$2</p>	<p>PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>	<p>n/a</p>	<p>OR</p>	<p>YES</p>		<p>09-28-2011</p>
<p>(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)</p>	<p>PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>	<p>n/a</p>	<p>OR</p>	<p>YES</p>		<p>09-28-2011</p>
<p>(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human</p>	<p>PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>	<p>n/a</p>	<p>OR</p>	<p>YES</p>		<p>09-28-2011</p>
<p>(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator</p>	<p>PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>	<p>n/a</p>	<p>OR</p>	<p>YES</p>		<p>09-28-2011</p>
<p>(second near5 user) and (second near5 computer) and (operator) and interpret\$</p>	<p>PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>	<p>n/a</p>	<p>OR</p>	<p>YES</p>		<p>09-28-2011</p>
<p>((second near5 user) and (second near5 computer) and (operator) and interpret\$)</p>	<p>USPT</p>	<p>n/a</p>	<p>OR</p>	<p>YES</p>		<p>09-28-2011</p>
<p>((second near5 user) and (second near5 computer) and (operator) and interpret\$)</p>	<p>PGPB, USPT, USOC,</p>	<p>n/a</p>	<p>OR</p>	<p>YES</p>		<p>09-28-2011</p>

	EPAB, JPAB, DWPI, TDBD					
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011

yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
6421245.pn.	PGPB, USPT, USOC, EPAB,	n/a	OR	YES		09-28-2011

	JPAB, DWPI, TDBD					
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
		n/a	OR	YES		09-28-2011

(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	n/a	OR	YES		09-28-2011
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	n/a	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or	USPT	n/a	OR	YES		09-28-2011

choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))						
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	n/a	OR	YES		09-28-2011
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		09-28-2011
5926787.pn.	PGPB, USPT,	n/a	OR	YES		09-28-2011

	USOC, EPAB, JPAB, DWPI, TDBD					
6121960.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
6259491.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((dual or double) near7 side) near10 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((((dual or double) near7 side) near10 display) and (speech or voice)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((((dual or double) near7 side) near10 display) and @ad<20001023	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((((dual or double) near7 side) near10 display and @ad<20001023) and (speech or voice or microphon\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	n/a	OR	YES		05-19-2012

	TDBD					
((dual or double) adj3 side\$) adj5 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(((dual or double) adj3 side\$) adj5 display) and (((dual or double) near7 side) near10 display and @ad<20001023)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(double near7 sided near7 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC,	n/a	OR	YES		05-19-2012

	EPAB, JPAB, DWPI, TDBD					
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012

((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	n/a	OR	YES		05-19-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	n/a	OR	YES		05-19-2012
(impair\$ or handicap\$) and interpret\$	USPT	n/a	OR	YES		05-19-2012
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	n/a	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	n/a	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	n/a	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	n/a	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	n/a	OR	YES		05-19-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	n/a	OR	YES		05-19-2012
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	n/a	OR	YES		05-19-2012
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	n/a	OR	YES		05-19-2012

6470498.pn.	USPT	n/a	OR	YES		05-19-2012
6370498.pn.	USPT	n/a	OR	YES		05-19-2012
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
		n/a	OR	YES		05-19-2012

(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	n/a	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT,	n/a	OR	YES		05-19-2012

and (language or linguistic)) and impair\$4	USOC, EPAB, JPAB, DWPI, TDBD					
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	n/a	OR	YES		05-19-2012

	TDBD					
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
6421425.pn. and operator	PGPB, USPT, USOC,	n/a	OR	YES		05-19-2012

	EPAB, JPAB, DWPI, TDBD					
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012

((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	n/a	OR	YES		05-19-2012
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	n/a	OR	YES		05-19-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	n/a	OR	YES		05-19-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	n/a	OR	YES		05-19-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB,	n/a	OR	YES		05-19-2012

	DWPI, TDBD					
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
((((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		05-19-2012
(microphon\$4 and translat\$ and array).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(microphon\$4 and translat\$ and array and (second near10 language)).detd.	PGPB, USPT,	n/a	OR	YES		10-23-2012

	USOC, EPAB, JPAB, DWPI, TDBD					
((microphon\$4 and translat\$ and array and (second near10 language)).detd.) and palmquist.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
5917944.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(display near7 camera) and @ad<20001025	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
5917944.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((display near7 camera) and @ad<20001025) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((display near7 camera) and @ad<20001025 and microphon\$) and (speech or voice)	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	n/a	OR	YES		10-23-2012

	TDBD					
((display near7 camera) and @ad<20001025 and microphon\$) and ((speech or voice) near10 recogni\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(camera adj5 (embedd\$5 or built or contain\$3) adj5 (display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((camera adj5 (embedd\$5 or built or contain\$3) adj5 (display))) and ((display near7 camera) and @ad<20001025 and microphon\$ and ((speech or voice) near10 recogni\$))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
6121960.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
6259491.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((dual or double) near7 side) near10 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((((dual or double) near7 side) near10 display) and (speech or voice)	PGPB, USPT, USOC,	n/a	OR	YES		10-23-2012

	EPAB, JPAB, DWPI, TDBD					
(((dual or double) near7 side) near10 display) and @ad<20001023	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(((dual or double) near7 side) near10 display and @ad<20001023) and (speech or voice or microphon\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((dual or double) adj3 side\$) adj5 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(((dual or double) adj3 side\$) adj5 display) and (((dual or double) near7 side) near10 display and @ad<20001023)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(double near7 sided near7 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012

((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB,	n/a	OR	YES		10-23-2012

	JPAB, DWPI, TDBD					
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	n/a	OR	YES		10-23-2012
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	n/a	OR	YES		10-23-2012
(impair\$ or handicap\$) and interpret\$	USPT	n/a	OR	YES		10-23-2012
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	n/a	OR	YES		10-23-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	n/a	OR	YES		10-23-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	n/a	OR	YES		10-23-2012
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	n/a	OR	YES		10-23-2012

(((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	n/a	OR	YES		10-23-2012
(((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	n/a	OR	YES		10-23-2012
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	n/a	OR	YES		10-23-2012
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	n/a	OR	YES		10-23-2012
6470498.pn.	USPT	n/a	OR	YES		10-23-2012
6370498.pn.	USPT	n/a	OR	YES		10-23-2012
(704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(379/52).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(340/825.19).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls.) or ((379/52).ccls.) or ((340/825.19).ccls.))	PGPB, USPT, USOC, EPAB, JPAB,	n/a	OR	YES		10-23-2012

	DWPI, TDBD					
((704/270 704/270.1 704/271 704/272 704/273 704/274 704/275 704/276 704/277).ccls. or (379/52).ccls. or (340/825.19).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
interpret\$ near10 service\$2	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	n/a	OR	YES		10-23-2012

((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB,	n/a	OR	YES		10-23-2012

	JPAB, DWPI, TDBD					
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
6421245.pn.		n/a	OR	YES		10-23-2012

	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
6421425.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB,	n/a	OR	YES		10-23-2012

	JPAB, DWPI, TDBD					
(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	n/a	OR	YES		10-23-2012
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	n/a	OR	YES		10-23-2012

((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	n/a	OR	YES		10-23-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3)))	USPT	n/a	OR	YES		10-23-2012
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	n/a	OR	YES		10-23-2012

	TDBD					
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	OR	YES		10-23-2012
((display near7 camera) and @ad<20001025	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	27038	OR	YES		11-11-2016
5917944.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		11-11-2016
((display near7 camera) and @ad<20001025) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2098	OR	YES		11-11-2016
((display near7 camera) and @ad<20001025 and microphon\$) and (speech or voice)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1229	OR	YES		11-11-2016
((display near7 camera) and @ad<20001025 and microphon\$) and ((speech or voice) near10 recogni\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	448	OR	YES		11-11-2016
(camera adj5 (embedd\$5 or built or contain\$3) adj5 (display))	PGPB, USPT, USOC,	1570	OR	YES		11-11-2016

	EPAB, JPAB, DWPI, TDBD					
((camera adj5 (embedd\$5 or built or contain\$3) adj5 (display))) and ((display near7 camera) and @ad<20001025 and microphon\$ and ((speech or voice) near10 recogni\$))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	5	OR	YES		11-11-2016
6121960.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		11-11-2016
6259491.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		11-11-2016
((dual or double) near7 side) near10 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4751	OR	YES		11-11-2016
((((dual or double) near7 side) near10 display) and (speech or voice)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	295	OR	YES		11-11-2016
((((dual or double) near7 side) near10 display) and @ad<20001023	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	540	OR	YES		11-11-2016

(((dual or double) near7 side) near10 display and @ad<20001023) and (speech or voice or microphon\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	13	OR	YES		11-11-2016
(((dual or double) adj3 side\$) adj5 display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3366	OR	YES		11-11-2016
(((dual or double) adj3 side\$) adj5 display) and (((dual or double) near7 side) near10 display and @ad<20001023)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	141	OR	YES		11-11-2016
(double near7 sided near7 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4427	OR	YES		11-11-2016
(((double near7 sided near7 display)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	378	OR	YES		11-11-2016
(((double near7 sided near7 display) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	OR	YES		11-11-2016
(double near7 sided near7 screen)	PGPB, USPT, USOC, EPAB,	1608	OR	YES		11-11-2016

	JPAB, DWPI, TDBD					
((double near7 sided near7 screen)) and @ad<20000101	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	177	OR	YES		11-11-2016
((double near7 sided near7 screen) and @ad<20000101) and microphon\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		11-11-2016
(image near7 interpret\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	33787	OR	YES		11-11-2016
((image near7 interpret\$4)) and (translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	10656	OR	YES		11-11-2016
(first near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	37916	OR	YES		11-11-2016
language and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	456751	OR	YES		11-11-2016
		9959	OR	YES		11-11-2016

((first near5 user near5 computer)) and (language and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((first near5 user near5 computer) and language and interpret\$) and (second near5 user near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3749	OR	YES		11-11-2016
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer))	USPT	1670	OR	YES		11-11-2016
((first near5 user near5 computer) and language and interpret\$ and (second near5 user near5 computer)) and (impair\$ or handicap\$)	USPT	56	OR	YES		11-11-2016
(impair\$ or handicap\$) and interpret\$	USPT	38053	OR	YES		11-11-2016
((impair\$ or handicap\$) and interpret\$) and (second near5 user) and (second near5 computer)	USPT	724	OR	YES		11-11-2016
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) near10 ((communicat\$ near5 each near5 other))	USPT	0	OR	YES		11-11-2016
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and ((communicat\$ near5 each near5 other))	USPT	0	OR	YES		11-11-2016
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))	USPT	128868	OR	YES		11-11-2016
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2)))) and network	USPT	29950	OR	YES		11-11-2016
((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network) and ((impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))	USPT	297	OR	YES		11-11-2016
((image near7 interpret\$4) and (translat\$)) and (((hearing near5 impair\$2) or deaf) or	USPT	20	OR	YES		11-11-2016

(blind or (visual\$3 near5 impair\$2))) and network and (impair\$ or handicap\$) and interpret\$ and (second near5 user) and (second near5 computer))						
((impair\$ or handicap\$) and interpret\$) and ((image near7 interpret\$4))	USPT	825	OR	YES		11-11-2016
6470498.pn.	USPT	1	OR	YES		11-11-2016
6370498.pn.	USPT	1	OR	YES		11-11-2016
((((704/270)) ((704/270.1)) ((704/271)) ((704/272)) ((704/273)) ((704/274)) ((704/275)) ((704/276)) ((704/277))).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	13741	OR	YES		11-11-2016
((((379/52))).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	754	OR	YES		11-11-2016
((((340/825.19))).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	39	OR	YES		11-11-2016
((((((704/270)) ((704/270.1)) ((704/271)) ((704/272)) ((704/273)) ((704/274)) ((704/275)) ((704/276)) ((704/277))).ccls.) or (((379/52))).ccls.) or (((340/825.19))).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	14482	OR	YES		11-11-2016
(((((704/270)) ((704/270.1)) ((704/271)) ((704/272)) ((704/273)) ((704/274)) ((704/275)) ((704/276)) ((704/277))).ccls. or (((379/52))).ccls. or (((340/825.19))).ccls.)) and (((hearing near5 impair\$2) or deaf) or (blind or (visual\$3 near5 impair\$2))) and network)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	663	OR	YES		11-11-2016
interpret\$ near10 service\$2	PGPB,	18320	OR	YES		11-11-2016

	USPT, USOC, EPAB, JPAB, DWPI, TDBD					
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	707	OR	YES		11-11-2016
(interpret\$ near10 service\$2) and (second near5 user) and (second near5 computer) and human	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	364	OR	YES		11-11-2016
(interpret\$ near10 service\$2 and (second near5 user) and (second near5 computer) and human) and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	186	OR	YES		11-11-2016
(second near5 user) and (second near5 computer) and (operator) and interpret\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	8379	OR	YES		11-11-2016
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	USPT	3916	OR	YES		11-11-2016
((second near5 user) and (second near5 computer) and (operator) and interpret\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	8379	OR	YES		11-11-2016
((second near5 user) and (second near5 computer) and (operator) and interpret\$) and (language or linguistic)	PGPB, USPT, USOC,	5942	OR	YES		11-11-2016

	EPAB, JPAB, DWPI, TDBD					
((second near5 user) and (second near5 computer) and (operator) and interpret\$ and (language or linguistic)) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	482	OR	YES		11-11-2016
operator and interpret\$ and (language or linguistic) and impair\$4	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	6786	OR	YES		11-11-2016
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	113	OR	YES		11-11-2016
009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	153	OR	YES		11-11-2016
(009275) and yamada.in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		11-11-2016
yamada.in. and interview	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	31	OR	YES		11-11-2016

2003009275	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	5	OR	YES		11-11-2016
2003009725\$	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	34	OR	YES		11-11-2016
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		11-11-2016
operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	327	OR	YES		11-11-2016
(operator and interpret\$ and (language or linguistic) and impair\$4 and multilingual)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	327	OR	YES		11-11-2016
6421245.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	OR	YES		11-11-2016
6421425.pn.	PGPB, USPT, USOC, EPAB,	2	OR	YES		11-11-2016

	JPAB, DWPI, TDBD					
6421425.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		11-11-2016
5406557.pn..pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		11-11-2016
5406557.pn. and operator	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	OR	YES		11-11-2016
5406557.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		11-11-2016
user and operator and deaf and tty and tdd and sound and impaired	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	86	OR	YES		11-11-2016
(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	176953	OR	YES		11-11-2016
		2221	OR	YES		11-11-2016

((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 request\$5 near7 operator)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD					
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator)) and (language or lingual or translat\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1333	OR	YES		11-11-2016
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and (user and operator and deaf and tty and tdd and sound and impaired)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	OR	YES		11-11-2016
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$)) and interpret\$5	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	743	OR	YES		11-11-2016
((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$) and interpret\$5)	USPT	296	OR	YES		11-11-2016
(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))	USPT	6050	OR	YES		11-11-2016
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and ((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)) and (user near7 request\$5 near7 operator) and (language or lingual or translat\$))	USPT	300	OR	YES		11-11-2016
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4)))) and (user near7	USPT	65	OR	YES		11-11-2016

match\$4 near7 (operator or (director\$3 near7 assistan\$3)))						
((user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan\$4))) and (user near7 match\$4 near7 (operator or (director\$3 near7 assistan\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	65	OR	YES		11-11-2016
((dual adj5 sided adj5 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	266	OR	YES		11-11-2016
((dual near7 sided near7 display))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	389	OR	YES		11-11-2016
((dual near7 sided near7 display))) not (((dual adj5 sided adj5 display)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	123	OR	YES		11-11-2016
(match\$3 near7 (interpreter or operator))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	19517	OR	YES		11-11-2016
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	OR	YES		11-11-2016
((dual near10 display) or (dual near10 screen) or (dual near10 video)) and	PGPB, USPT,	113	OR	YES		11-11-2016

(operator and interpret\$ and (language or linguistic) and impair\$4))	USOC, EPAB, JPAB, DWPI, TDBD					
(((((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret\$ and (language or linguistic) and impair\$4))) and @ad<20001025	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	5	OR	YES		11-11-2016
(6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	14	OR	YES		11-11-2016
((6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn.) and (((dual or double) adj3 side\$) adj5 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	0	OR	YES		11-11-2016
5983073.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	4	OR	YES		11-11-2016
(5983073.pn.) and (((dual or double) adj3 side\$) adj5 display)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	0	OR	YES		11-11-2016
(5983073.pn.) and dual	PGPB, USPT,	0	OR	YES		11-11-2016

	USOC, EPAB, JPAB, DWPI, TDBD, FPRS					
(5983073.pn.) and display	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	1	OR	YES		11-11-2016
5926787	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	34	OR	YES		11-11-2016
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	4	OR	YES		11-11-2016
5926787.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	4	OR	YES		11-11-2016
5357355.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	4	OR	YES		11-11-2016

double near3 (sided or sides or side) near3 display\$3	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	4426	OR	YES		11-11-2016
(double near3 (sided or sides or side) near3 display\$3) and @ad<20001025	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	n/a	OR	YES		11-11-2016
(double near3 (sided or sides or side) near3 display\$3) and @ad<20001025	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	413	OR	YES		11-11-2016
(double near3 (sided or sides or side) near3 display\$3 and @ad<20001025) and ((computer or pc) near5 display\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	66	OR	YES		11-11-2016
(5357355.pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	4	OR	YES		11-11-2016
5357355.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD,	4	OR	YES		11-11-2016

	FPRS					
5357355.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	4	OR	YES		11-11-2016
(5357355.pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS	4	OR	YES		11-11-2016

<i>Index of Claims</i> 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
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✓	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	04/07/2011	09/28/2011	10/23/2012	11/11/2016				
	1	✓	✓	✓	✓				
	2	-	-	-	-				
	3	✓	✓	✓	✓				
	4	✓	✓	✓	✓				
	5	✓	✓	✓	✓				
	6	✓	✓	✓	✓				
	7	✓	✓	✓	✓				
	8	✓	✓	✓	✓				
	9	✓	✓	✓	✓				
	10	✓	✓	-	-				
	11	✓	✓	✓	✓				
	12	✓	✓	✓	✓				
	13	✓	✓	✓	✓				
	14	✓	✓	-	-				
	15		✓	✓	✓				
	16		✓	✓	✓				
	17		✓	✓	✓				
	18			✓	✓				
	19			✓	✓				
	20			✓	✓				
	21			✓	✓				
	22			✓	✓				
	23			✓	✓				

Search Notes 	Application/Control No. 12658496	Applicant(s)/Patent Under Reexamination KLINEFELTER ET AL.
	Examiner MICHAEL N OPSASNICK	Art Unit 2626

CPC- SEARCHED		
Symbol	Date	Examiner
H04R25/70	11/11/2016	mno

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
704	271	11/11/2016	mno
379	52	11/11/2016	mno
340	825.19	11/11/2016	mno

SEARCH NOTES		
Search Notes	Date	Examiner
west search; 101;odp	11/11/2016	mno

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

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