**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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| DOCKET NO.: | GTO12 |
| INVENTOR: | KLINEFELTER et al. |
| TITLE: | A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICCATION ON A NETWORK |
| SERIAL NO.: | 12/658,496 |
| FILING DATE: | February 8, 2010 |
| EXAMINER: | Michael N. Opsasnick |
| GROUP ART UNIT: | 2658 |
| CONFIRMATION NO.: | 8099 |

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

**RESPONSE TO NON-FINAL OFFICE ACTION OF NOVEMBER 14, 2016**

Dear Commissioner:

This is a response to the Non-Final Office Action of November 14, 2016. This response is being timely filed on or before February 14, 2016.

Favorable consideration is respectfully requested in view of the following amendments and remarks.

## AMENDMENTS

### A. IN THE CLAIMS

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 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 separate from the first 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.(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 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 fast 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 separate from the first 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 l, 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.(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 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 devise 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 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 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 service device operable with a communication network, 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 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, at least one second input device configured to input visual information 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.

22. (Previously Presented) The communication service 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. (Previously Presented) The communication services 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. (Previously Presented) 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 15-24 are pending in the present application. Claims 1, 3-9, 11-13, and 15-24 stand rejected by the Examiner. In this paper, Applicants have amended claims 1, 3 and 9. No additional claims have been cancelled.

Applicants have considered the above-identified Non-Final Office Action, in view of the following rejections asserted in the Non-Final Office Action:

1. Rejections of claims 1, 3, 9, and 15-17 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 and 19 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).

5. Rejections of claims 21, 22, and 24 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).

6. Rejections of claims 23 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).

## B. WITH RESPECT TO THE CLAIMS

### 1. CLAIM REJECTIONS – claims 1, 3, 9, and 15-17 under 35 U.S.C §103(a)

The Examiner rejected claims 1, 3, 9, and 15-17 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). Using polarization in displaying the same data on each side of a display panel is not a first display separate from a second display as claimed by Applicants in independent claims 1, 3 and 9. 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. Applicants' independent claims require a first display means to be separate from the second display means.

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, and 15-17 are in condition for allowance.

### 2. CLAIM REJECTIONS – claims 4-8 and 11-13 under 35 U.S.C §103(a)

The Examiner rejected 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.

### 3. CLAIM REJECTIONS – claims 18 and 19 under 35 U.S.C §103(a)

The Examiner rejected claims 18 and 19 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 and 19 are in condition for allowance because the claims depend from allowable independent claims.

### 4. CLAIM REJECTION – claim 20 under 35 U.S.C §103(a)

The Examiner rejected 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.

### 5. CLAIM REJECTION - claims 21, 22 and 24 under 35 U.S.C §103(a)

The Examiner rejected claims 21, 22 and 24 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).

Applicants in independent claim 21, are claiming "…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 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, at least one second input device configured to input visual information wherein the at least one second input device resides on the second side of the housing...." Thus, only one display device is claimed that allow input of visual information on a first side and on the second side there is a second input device configured to input visual information. No second display is claimed in independent claim 21.

On page 8 of the Non-Final Office Action, it is stated that the *Bennett* reference does not teach at least one second input device resides on the second side of the housing. It is then asserted on page 8 of the Non-Final Office Action that *Arai* "teaches a double side panel display unit...." A double sided panel is not an at least one second input device configured to input visual information as claimed by Applicants. The double sided panel of *Arai* is for displaying information on two sides of the same panel and not for input of video information. An additional claim limitation is being improperly read into independent claim 21.

The logic put forth for claim 23 stated that the references of *Bennett* in view of *Arai* does not explicitly teach cameras in the display housing, but *Ditzik* teaches a display containing camera capabilities and it would be obvious to one of ordinary skill in the art to combine displays with cameras. But as shown with regards, to claim 21 there are not two display devices and two video input devices. Therefore, it cannot be obvious to make such a combination and there is no motivation to combine the references. Furthermore, a second display is being improperly read into claim 21

In conclusion, claim 21 is in condition for allowance along with claims 22 and 24 that depend from independent claim 21.

**6. CLAIM REJECTION - claim 23 under 35 U.S.C §103(a)**

The Examiner rejected claim 23 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).

Claim 23 is a dependent claim that depends from independent claim 21 and is therefore in condition for allowance.

## 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.

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.

Respectfully submitted,

Dated: February 14, 2017

/Gregory B. Gulliver/
Gregory B. Gulliver
Reg. No. 44,138
(312) 720-0308 Telephone
(847) 574-8035 Fax
gbgulliver65@gmail.com

# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 28356775 |
| **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<br>A Professional Association<br>Suite 200<br>2801 Townsgate Road<br>Westlake Village CA 91361<br>US 8054975886<br>- |
| **Filer:** | Gregory Brian Gulliver |
| **Filer Authorized By:** | |
| **Attorney Docket Number:** | GT012 |
| **Receipt Date:** | 14-FEB-2017 |
| **Filing Date:** | 08-FEB-2010 |
| **Time Stamp:** | 18:51:43 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

| | |
|---|---|
| Submitted with Payment | no |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|---|---|---|---|---|---|
| 1 | Amendment/Req. Reconsideration-After Non-Final Reject | NFOA_Resp_2017_02_14.pdf | 274359<br>d53a6f6e98dbc260f956e05aa5c97553b4c1aa53 | no | 15 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| | | **Total Files Size (in bytes):** | 274359 | | |

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

**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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| PATENT APPLICATION FEE DETERMINATION RECORD<br>Substitute for Form PTO-875 | Application or Docket Number<br>12/658,496 | Filing Date<br>02/08/2010 | ☐ To be Mailed |
|---|---|---|---|

**ENTITY**: ☐ LARGE ☒ SMALL ☐ MICRO

## APPLICATION AS FILED – PART I

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

## APPLICATION AS AMENDED – PART II

AMENDMENT **02/14/2017**

| | (Column 1) CLAIMS REMAINING AFTER AMENDMENT | | (Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR | (Column 3) PRESENT EXTRA | RATE ($) | ADDITIONAL FEE ($) |
|---|---|---|---|---|---|---|
| Total (37 CFR 1.16(i)) | * 21 | Minus | ** 21 | = 0 | X $40 = | 0 |
| 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 | 0 |

AMENDMENT

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
ZURIASHWORK ZENEBE

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 03/20/2017

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

| EXAMINER |
|---|
| OPSASNICK, MICHAEL N |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2658 | |

| MAIL DATE | DELIVERY MODE |
|---|---|
| 03/20/2017 | 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 | AIA (First Inventor to File) Status No |

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

**Period for Reply**

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

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

**Status**

1)☒ Responsive to communication(s) filed on *02/14/2017*.

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

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

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

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

**Disposition of Claims***

5)☒ Claim(s) *1,3-9,11-13 and 15-24* 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) *1,3-9,11-13,15-24* is/are rejected.

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

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

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

**Application Papers**

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

11)☒ The drawing(s) filed on *2/22/2010* 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).

**Priority under 35 U.S.C. § 119**

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

**Certified copies:**

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

**Attachment(s)**

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

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

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

4) ☐ Other: _____.

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

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

2. 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 negatived by the manner in which the invention was made.

3. 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;
}

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 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, with the first display means and first input means residing on the first side of the housing, and a second display means separate from the first display means (examiner notes that applicants disclosure, para 0113, discloses a ***first side*** and a ***second side***) , 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).

4. 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).

5. 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 allow the system to capture video of the user, for transmission (Ditzik (5983073), col. 2 lines 30-40; col. 3 lines 15-20.

6. 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).

7. 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 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).

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).

8. 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***

9. Applicant's arguments filed 2/14/2017 have been fully considered but are not considered persuasive. As to applicants arguments against the Arai reference, examiner argues that the claim scope of a "second display means separate from the first display means" is disclosed in applicants specification, para 0113, as a ***first side*** and a ***second side***. The Arai references provides the teaching to combine separate displays with input/outputs, into a single 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.

Examiner repeats the following references, in the event applicants choose to amend the claim language to match applicants arguments:

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

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). Examiner repeats the following references, addressing applicants arguments of two separate sides.

## *Conclusion*

10. 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.

11. 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
03/17/2017

| 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 | | | | | |
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**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: 2017031708:03

## 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 |
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| **((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 |
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| **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 |

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| **human and (interpreter or interpretor or operator) and blind and deaf and translat $ and @ ad & lt; 20001025** | PGPB, USPT, * No UPAD | n/a | OR | YES | | 05-19-2012 |
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| **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 |
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| **network and communication and service).clm.** | | | | | | |
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| **5926787.pn.** | PGPB, USPT | 1 | OR | YES | | 02-20-2017 |
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| **5926787.pn.** | PGPB, USPT | 1 | OR | YES | | 03-17-2017 |
| **(5926787.pn.) and translat $** | PGPB, USPT | 1 | OR | YES | | 03-17-2017 |

# Prior Art Searches

| Query | DB | Hits | Op. | Plur. | Thes. | Date |
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| **(image near7 interpret$4)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **((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 |

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| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) )** | 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$)** | USPT | n/a | OR | YES | | 04-07-2011 |
| **(impair$ 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, | n/a | OR | YES | | 04-07-2011 |

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|---|---|---|---|---|---|---|
| | DWPI, TDBD | | | | | |
| **(379/52).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **(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)** | PGPB, USPT, | n/a | OR | YES | | 04-07-2011 |

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| **and human** | USOC, EPAB, 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, | n/a | OR | YES | | 04-07-2011 |

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| | 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 | 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 |
| **20030097258** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| | | n/a | OR | YES | | 04-07-2011 |

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| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **operator and interpret$ 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, | n/a | OR | YES | | 04-07-2011 |

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| | JPAB, DWPI, TDBD | | | | | |
| **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 |
| | | n/a | 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 | | | | | |
| **((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, | n/a | OR | YES | | 04-07-2011 |

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| | DWPI, TDBD | | | | | |
| **((dual near7 sided near7 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **(((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, | n/a | OR | YES | | 09-28-2011 |

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| | USOC, EPAB, 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, | n/a | OR | YES | | 09-28-2011 |

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|---|---|---|---|---|---|---|
| | TDBD | | | | | |
| **language and interpret$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **((first near5 user near5 computer) ) and (language and interpret$ )** | 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** | USPT | n/a | OR | YES | | 09-28-2011 |

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|---|---|---|---|---|---|---|
| **network** | | | | | | |
| **((((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 |

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| **(((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$2))) and network )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **interpret$ near10 service$2** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(interpret$ near10 service$2 and (second near5 user) and (second near5 computer) and human ) and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(second near5 user) and (second near5 computer) and (operator) and interpret$** | 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$ )** | USPT | n/a | OR | YES | | 09-28-2011 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ )** | PGPB, USPT, | n/a | OR | YES | | 09-28-2011 |

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| | USOC, 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, | n/a | OR | YES | | 09-28-2011 |

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| | TDBD | | | | | |
| **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$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **operator and interpret$ 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, | n/a | OR | YES | | 09-28-2011 |

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|---|---|---|---|---|---|---|
| | EPAB, 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 |

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| **(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 | | 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 | 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 |

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| **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 |

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| | 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 |

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|---|---|---|---|---|---|---|
| | 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 |

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| | 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 |

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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 | 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 |

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| **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 |

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| **(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$ and** | PGPB, USPT, | n/a | OR | YES | | 05-19-2012 |

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| **(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 |

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| | 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$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **operator and interpret$ 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 |

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| | 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 |

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| **((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4)) and (user near7 request$5 near7 operator) ) and (language or lingual or translat$)** | 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 |

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| | 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 |

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| | 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 |

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| | 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 |

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|---|---|---|---|---|---|---|
| | 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 |

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| **((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 |

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| | 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 |

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| **((((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 |

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|---|---|---|---|---|---|---|
| | 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 |

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| **((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 |

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| | 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$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **operator and interpret$ 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 |

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| | 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 |

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| | 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 |

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| **((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 |

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| | 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 |

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| | 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 |

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| **(((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 |

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| | 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 |

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| **((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 |

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| **(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 |

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| | 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 |

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| | 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 |

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| **2003009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 11-11-2016 |
| **20030097258** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 34 | OR | YES | | 11-11-2016 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 11-11-2016 |
| **operator and interpret$ 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 |

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|---|---|---|---|---|---|---|
| | 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 |

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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)** | 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 |

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|---|---|---|---|---|---|---|
| **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 (operator** | PGPB, USPT, | 113 | OR | YES | | 11-11-2016 |

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| **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 |

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| | 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 |

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| **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 |

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| | 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 |
| **(display near7 camera) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 27038 | OR | YES | | 02-20-2017 |
| **5917944.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 02-20-2017 |
| **((display near7 camera) and @ad<20001025 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2098 | OR | YES | | 02-20-2017 |
| **((display near7 camera) and @ad<20001025 and microphon$ ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1229 | OR | YES | | 02-20-2017 |
| | | 448 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| **((display near7 camera) and @ad<20001025 and microphon$ ) and ((speech or voice) near10 recogni$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(camera adj5 (embedd$5 or built or contain$3) adj5 (display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1612 | OR | YES | | 02-20-2017 |
| **((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 | | 02-20-2017 |
| **6121960.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 02-20-2017 |
| **6259491.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 02-20-2017 |
| **((dual or double) near7 side) near10 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4873 | OR | YES | | 02-20-2017 |
| **(((dual or double) near7 side) near10 display ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, | 303 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **(((dual or double) near7 side) near10 display ) and @ad<20001023** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 540 | OR | YES | | 02-20-2017 |
| **(((dual or double) near7 side) near10 display and @ad<20001023 ) and (speech or voice or microphon$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 13 | OR | YES | | 02-20-2017 |
| **((dual or double) adj3 side$) adj5 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3465 | OR | YES | | 02-20-2017 |
| **(((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 | | 02-20-2017 |
| **(double near7 sided near7 display)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4558 | OR | YES | | 02-20-2017 |
| **((double near7 sided near7 display) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 378 | OR | YES | | 02-20-2017 |
| | | 4 | OR | YES | | 02-20-2017 |

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| **((double near7 sided near7 display) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(double near7 sided near7 screen)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1661 | OR | YES | | 02-20-2017 |
| **((double near7 sided near7 screen) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 177 | OR | YES | | 02-20-2017 |
| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 02-20-2017 |
| **(image near7 interpret$4)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 34596 | OR | YES | | 02-20-2017 |
| **((image near7 interpret$4) ) and (translat$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 10957 | OR | YES | | 02-20-2017 |
| **(first near5 user near5 computer)** | PGPB, USPT, USOC, EPAB, | 39018 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **language and interpret$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 472289 | OR | YES | | 02-20-2017 |
| **((first near5 user near5 computer) ) and (language and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 10311 | OR | YES | | 02-20-2017 |
| **((first near5 user near5 computer) and language and interpret$ ) and (second near5 user near5 computer)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3889 | OR | YES | | 02-20-2017 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) )** | USPT | 1742 | OR | YES | | 02-20-2017 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) ) and (impair$ or handicap$)** | USPT | 57 | OR | YES | | 02-20-2017 |
| **(impair$ or handicap$) and interpret$** | USPT | 39120 | OR | YES | | 02-20-2017 |
| **((impair$ or handicap$) and interpret$ ) and (second near5 user) and (second near5 computer)** | USPT | 756 | OR | YES | | 02-20-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) near10 ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 02-20-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) and ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 02-20-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2)))** | USPT | 131512 | OR | YES | | 02-20-2017 |

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| **((((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) ) and network** | USPT | 31153 | OR | YES | | 02-20-2017 |
| **((((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 | 307 | OR | YES | | 02-20-2017 |
| **((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 | 20 | OR | YES | | 02-20-2017 |
| **((impair$ or handicap$) and interpret$ ) and ((image near7 interpret$4) )** | USPT | 852 | OR | YES | | 02-20-2017 |
| **6470498.pn.** | USPT | 1 | OR | YES | | 02-20-2017 |
| **6370498.pn.** | USPT | 1 | OR | YES | | 02-20-2017 |
| **((((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 | 13804 | OR | YES | | 02-20-2017 |
| **((((379/52)))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 754 | OR | YES | | 02-20-2017 |
| **((((340/825.19)))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 17 | OR | YES | | 02-20-2017 |
| **( (((((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, | 14525 | OR | YES | | 02-20-2017 |

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| | 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$2))) and network ) | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 663 | OR | YES | | 02-20-2017 |
| interpret$ near10 service$2 | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 18733 | OR | YES | | 02-20-2017 |
| (interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 719 | OR | YES | | 02-20-2017 |
| (interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 369 | OR | YES | | 02-20-2017 |
| (interpret$ near10 service$2 and (second near5 user) and (second near5 computer) and human ) and operator | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 189 | OR | YES | | 02-20-2017 |
| (second near5 user) and (second near5 computer) and (operator) and interpret$ | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 8693 | OR | YES | | 02-20-2017 |
| ((second near5 user) and (second near5 computer) and (operator) and interpret$ ) | USPT | 4049 | OR | YES | | 02-20-2017 |

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| **((second near5 user) and (second near5 computer) and (operator) and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 8693 | OR | YES | | 02-20-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ ) and (language or linguistic)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 6142 | OR | YES | | 02-20-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ and (language or linguistic) ) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 494 | OR | YES | | 02-20-2017 |
| **operator and interpret$ and (language or linguistic) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 7013 | OR | YES | | 02-20-2017 |
| **((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 115 | OR | YES | | 02-20-2017 |
| **009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 154 | OR | YES | | 02-20-2017 |
| **(009275 ) and yamada.in.** | PGPB, USPT, USOC, EPAB, | 0 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **yamada.in. and interview** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 31 | OR | YES | | 02-20-2017 |
| **2003009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 02-20-2017 |
| **2003009725$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 34 | OR | YES | | 02-20-2017 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 02-20-2017 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multilingual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 331 | OR | YES | | 02-20-2017 |
| **(operator and interpret$ and (language or linguistic) and impair$4 and multilingual )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 331 | OR | YES | | 02-20-2017 |
| **6421245.pn.** | | 2 | OR | YES | | 02-20-2017 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **6421425.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 02-20-2017 |
| **6421425.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 02-20-2017 |
| **5406557.pn..pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 02-20-2017 |
| **5406557.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 02-20-2017 |
| **5406557.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 02-20-2017 |
| **user and operator and deaf and tty and tdd and sound and impaired** | PGPB, USPT, USOC, EPAB, | 86 | OR | YES | | 02-20-2017 |

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| | 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 | 179779 | OR | YES | | 02-20-2017 |
| **((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 | 2276 | OR | YES | | 02-20-2017 |
| **((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 | 1369 | OR | YES | | 02-20-2017 |
| **((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 | | 02-20-2017 |
| **((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 | 761 | OR | YES | | 02-20-2017 |
| **((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 | 305 | OR | YES | | 02-20-2017 |
| **(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4)))** | USPT | 6212 | OR | YES | | 02-20-2017 |

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| **((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 | 304 | OR | YES | | 02-20-2017 |
| **((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 | 66 | OR | YES | | 02-20-2017 |
| **((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 | 66 | OR | YES | | 02-20-2017 |
| **((dual adj5 sided adj5 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 273 | OR | YES | | 02-20-2017 |
| **((dual near7 sided near7 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 399 | OR | YES | | 02-20-2017 |
| **(((dual near7 sided near7 display)) ) not (((dual adj5 sided adj5 display)) )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 126 | OR | YES | | 02-20-2017 |
| **(match$3 near7 (interpreter or operator))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, | 19946 | OR | YES | | 02-20-2017 |

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| | TDBD | | | | | |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 02-20-2017 |
| **(((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 115 | OR | YES | | 02-20-2017 |
| **((((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4)) ) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 02-20-2017 |
| **(6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 14 | OR | YES | | 02-20-2017 |
| **((6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 02-20-2017 |
| **5983073.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 5 | OR | YES | | 02-20-2017 |

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| **(5983073.pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 02-20-2017 |
| **(5983073.pn. ) and dual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 02-20-2017 |
| **(5983073.pn. ) and display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 1 | OR | YES | | 02-20-2017 |
| **5926787** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 34 | OR | YES | | 02-20-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, | 4 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | FPRS | | | | | |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **double near3 (sided or sides or side) near3 display$3** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4577 | OR | YES | | 02-20-2017 |
| **(double near3 (sided or sides or side) near3 display$3 ) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 413 | OR | YES | | 02-20-2017 |
| **(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 | | 02-20-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, | 4 | OR | YES | | 02-20-2017 |

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| | DWPI, TDBD, FPRS | | | | | |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **(display near7 camera) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 27038 | OR | YES | | 03-17-2017 |
| **5917944.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 03-17-2017 |
| **((display near7 camera) and @ad<20001025 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2098 | OR | YES | | 03-17-2017 |
| **((display near7 camera) and @ad<20001025 and microphon$ ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, | 1229 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | TDBD | | | | | |
| **((display near7 camera) and @ad<20001025 and microphon$ ) and ((speech or voice) near10 recogni$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 448 | OR | YES | | 03-17-2017 |
| **(camera adj5 (embedd$5 or built or contain$3) adj5 (display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1631 | OR | YES | | 03-17-2017 |
| **((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 | | 03-17-2017 |
| **6121960.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 03-17-2017 |
| **6259491.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 03-17-2017 |
| **((dual or double) near7 side) near10 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4908 | OR | YES | | 03-17-2017 |
| **(((dual or double) near7 side) near10 display ) and (speech or voice)** | PGPB, USPT, USOC, | 306 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | EPAB, JPAB, DWPI, TDBD | | | | | |
| **(((dual or double) near7 side) near10 display ) and @ad<20001023** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 540 | OR | YES | | 03-17-2017 |
| **(((dual or double) near7 side) near10 display and @ad<20001023 ) and (speech or voice or microphon$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 13 | OR | YES | | 03-17-2017 |
| **((dual or double) adj3 side$) adj5 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3494 | OR | YES | | 03-17-2017 |
| **(((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 | | 03-17-2017 |
| **(double near7 sided near7 display)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4600 | OR | YES | | 03-17-2017 |
| **((double near7 sided near7 display) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 378 | OR | YES | | 03-17-2017 |

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| **((double near7 sided near7 display) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4 | OR | YES | | 03-17-2017 |
| **(double near7 sided near7 screen)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1674 | OR | YES | | 03-17-2017 |
| **((double near7 sided near7 screen) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 177 | OR | YES | | 03-17-2017 |
| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 03-17-2017 |
| **(image near7 interpret$4)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 34805 | OR | YES | | 03-17-2017 |
| **((image near7 interpret$4) ) and (translat$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 11025 | OR | YES | | 03-17-2017 |
| **(first near5 user near5 computer)** | PGPB, USPT, USOC, EPAB, | 39342 | OR | YES | | 03-17-2017 |

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| | JPAB, DWPI, TDBD | | | | | |
| **language and interpret$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 477167 | OR | YES | | 03-17-2017 |
| **((first near5 user near5 computer) ) and (language and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 10406 | OR | YES | | 03-17-2017 |
| **((first near5 user near5 computer) and language and interpret$ ) and (second near5 user near5 computer)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3921 | OR | YES | | 03-17-2017 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) )** | USPT | 1758 | OR | YES | | 03-17-2017 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) ) and (impair$ or handicap$)** | USPT | 58 | OR | YES | | 03-17-2017 |
| **(impair$ or handicap$) and interpret$** | USPT | 39417 | OR | YES | | 03-17-2017 |
| **((impair$ or handicap$) and interpret$ ) and (second near5 user) and (second near5 computer)** | USPT | 766 | OR | YES | | 03-17-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) near10 ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 03-17-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) and ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 03-17-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2)))** | USPT | 132290 | OR | YES | | 03-17-2017 |

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| **((((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) ) and network** | USPT | 31509 | OR | YES | | 03-17-2017 |
| **((((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 | 313 | OR | YES | | 03-17-2017 |
| **((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 | 20 | OR | YES | | 03-17-2017 |
| **((impair$ or handicap$) and interpret$ ) and ((image near7 interpret$4) )** | USPT | 856 | OR | YES | | 03-17-2017 |
| **6470498.pn.** | USPT | 1 | OR | YES | | 03-17-2017 |
| **6370498.pn.** | USPT | 1 | OR | YES | | 03-17-2017 |
| **(((((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 | 13830 | OR | YES | | 03-17-2017 |
| **(((((379/52))))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 754 | OR | YES | | 03-17-2017 |
| **(((((340/825.19))))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 17 | OR | YES | | 03-17-2017 |
| **( ((((((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** | PGPB, USPT, USOC, EPAB, JPAB, | 14551 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| ((((((340/825.19)))))).ccls. ) ) | 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$2))) and network ) | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 663 | OR | YES | | 03-17-2017 |
| interpret$ near10 service$2 | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 18883 | OR | YES | | 03-17-2017 |
| (interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 728 | OR | YES | | 03-17-2017 |
| (interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 371 | OR | YES | | 03-17-2017 |
| (interpret$ near10 service$2 and (second near5 user) and (second near5 computer) and human ) and operator | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 190 | OR | YES | | 03-17-2017 |
| (second near5 user) and (second near5 computer) and (operator) and interpret$ | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 8782 | OR | YES | | 03-17-2017 |
| | USPT | 4098 | OR | YES | | 03-17-2017 |

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| **((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 | 8782 | OR | YES | | 03-17-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ ) and (language or linguistic)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 6213 | OR | YES | | 03-17-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ and (language or linguistic) ) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 500 | OR | YES | | 03-17-2017 |
| **operator and interpret$ and (language or linguistic) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 7075 | OR | YES | | 03-17-2017 |
| **((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 115 | OR | YES | | 03-17-2017 |
| **009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 155 | OR | YES | | 03-17-2017 |
| **(009275 ) and yamada.in.** | PGPB, USPT, | 0 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **yamada.in. and interview** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 31 | OR | YES | | 03-17-2017 |
| **2003009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 03-17-2017 |
| **2003009725$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 34 | OR | YES | | 03-17-2017 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 03-17-2017 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multilingual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 333 | OR | YES | | 03-17-2017 |
| **(operator and interpret$ and (language or linguistic) and impair$4 and multilingual )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, | 333 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | TDBD | | | | | |
| **6421245.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 03-17-2017 |
| **6421425.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 03-17-2017 |
| **6421425.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 03-17-2017 |
| **5406557.pn..pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 03-17-2017 |
| **5406557.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 03-17-2017 |
| **5406557.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 03-17-2017 |
| **user and operator and deaf and tty and tdd and sound and impaired** | PGPB, USPT, USOC, | 86 | OR | YES | | 03-17-2017 |

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| | 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 | 180615 | OR | YES | | 03-17-2017 |
| **((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 | 2289 | OR | YES | | 03-17-2017 |
| **((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 | 1377 | OR | YES | | 03-17-2017 |
| **((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 | | 03-17-2017 |
| **((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 | 765 | OR | YES | | 03-17-2017 |
| **((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 | 307 | OR | YES | | 03-17-2017 |
| **(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call** | USPT | 6260 | OR | YES | | 03-17-2017 |

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| **near7 assistan$4)))** | | | | | | |
| **((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 | 305 | OR | YES | | 03-17-2017 |
| **((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 | 67 | OR | YES | | 03-17-2017 |
| **((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 | 67 | OR | YES | | 03-17-2017 |
| **((dual adj5 sided adj5 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 278 | OR | YES | | 03-17-2017 |
| **((dual near7 sided near7 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 405 | OR | YES | | 03-17-2017 |
| **(((dual near7 sided near7 display)) ) not (((dual adj5 sided adj5 display)) )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 127 | OR | YES | | 03-17-2017 |
| **(match$3 near7 (interpreter or operator))** | PGPB, USPT, USOC, EPAB, JPAB, | 20080 | OR | YES | | 03-17-2017 |

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| | DWPI, TDBD | | | | | |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 03-17-2017 |
| **(((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 115 | OR | YES | | 03-17-2017 |
| **((((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4)) ) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 03-17-2017 |
| **(6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 14 | OR | YES | | 03-17-2017 |
| **((6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 03-17-2017 |
| **5983073.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, | 5 | OR | YES | | 03-17-2017 |

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| | FPRS | | | | | |
| **(5983073.pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 03-17-2017 |
| **(5983073.pn. ) and dual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 03-17-2017 |
| **(5983073.pn. ) and display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 1 | OR | YES | | 03-17-2017 |
| **5926787** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 34 | OR | YES | | 03-17-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, | 4 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | DWPI, TDBD, FPRS | | | | | |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **double near3 (sided or sides or side) near3 display$3** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4610 | OR | YES | | 03-17-2017 |
| **(double near3 (sided or sides or side) near3 display$3 ) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 413 | OR | YES | | 03-17-2017 |
| **(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 | | 03-17-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **5357355.pn.** | PGPB, USPT, USOC, | 4 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | EPAB, JPAB, DWPI, TDBD, FPRS | | | | | |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **"12/658496"** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 1 | OR | YES | | 03-17-2017 |

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 12658496 | KLINEFELTER ET AL. |
| | **Examiner** | **Art Unit** |
| | MICHAEL N OPSASNICK | 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 | 11/11/2016 | 03/17/2017 | | | | |
| | 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. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 12658496 | KLINEFELTER ET AL. |
| | Examiner | Art Unit |
| | MICHAEL N OPSASNICK | 2626 |

| CPC- SEARCHED | | |
|---|---|---|
| Symbol | Date | Examiner |
| H04R25/70 | 03/17/2017 | mno |

| CPC COMBINATION SETS - SEARCHED | | |
|---|---|---|
| Symbol | Date | Examiner |
| | | |

| US CLASSIFICATION SEARCHED | | | |
|---|---|---|---|
| Class | Subclass | Date | Examiner |
| 704 | 271 | 03/17/2017 | mno |
| 379 | 52 | 03/17/2017 | mno |
| 340 | 825.19 | 03/17/2017 | mno |

| SEARCH NOTES | | |
|---|---|---|
| Search Notes | Date | Examiner |
| west search; 101;odp | 03/17/2017 | mno |

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

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | |
|---|---|
| DOCKET NO.: | GTO12 |
| INVENTOR: | KLINEFELTER et al. |
| TITLE: | A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICCATION ON A NETWORK |
| SERIAL NO.: | 12/658,496 |
| FILING DATE: | February 8, 2010 |
| EXAMINER: | Michael N. Opsasnick |
| GROUP ART UNIT: | 2658 |
| CONFIRMATION NO.: | 8099 |

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

**PRE-APPEAL BRIEF REQUEST FOR REVIEW**

Dear Commissioner:

This is responsive to the Final Office Action of March 20, 2017 and Applicants request review of the Final Rejections of claims 21, 22, and 24, for the above-identified application. Applicants are submitting this request for review with a Notice of Appeal filed on or before June 20, 2017. This request for review is being submitted for the reasons stated below, demonstrating the clear legal and factual deficiency of the rejections of some or all pending claims.

.

**1. 35 U.S.C. §103(a) Rejections of Claims 21-24**

Claims 21, 22, and 24, were 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). On page 7 of the Final Office Action, it is stated that; "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)." The element recited above from the Final Office Action is not found in claim 21. Claim 21 as presented has been present in the application since the RCE was filed. Applicants also addressed the issue of claim 21 not having a double display in the response to the Non-final application. Thus, the rejections asserted in the Non-Final Office Action and Final Office Action are not of claims 21, 22, and 24, as they are currently pending.

On page 8 of the Final Office Action, it is stated that the *Bennett* patent; "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…." The rejection then goes on to state that "however, Arai (5357355) teaches a double sided panel display unit (abstract; col. l lines 24-26,), separate driver arrays (Fig. 4 figures lls, llp, llq). 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)…."

Applicants do not claim two displays in independent claim 21 or presenting information on both sides of the panel as asserted in the Final Office Action. The element recited in claim 21 is:

> 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 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, at least one second input device configured to input visual information wherein the at least one second input device resides on the second side of the housing….

The bases of rejection claims 21, 22, and 24 are not relevant to Applicants' claims as erroneous elements were cited and discussed. Those erroneous elements are not found in the Applicants' claim 21.

The *Flores* patent is cited with regards to claim 21, but is not used in the rejection. The Flores patent was previously cited in another rejection for teaching text and audio in differing requested language from original text (which has nothing to do with what is claimed in claim 21, 22, and 24). How can the combination of reference teach each element of Applicants' claims when one reference is not used and two other are cited to teach or show claim 21 elements where the elements are not present in the claim. Claim elements are being improperly read into claim 21!

None of the cited reference either individually or when combined teach or describe all of Applicants' claim 21 elements. Claim 21 is an independent claim and is thus in condition for allowance because the combined references may teach something, but that something is not related to claim 21. Furthermore, claims 22-24 are in condition for allowance since they depend from allowable dependent claim 21.

**2. 35 U.S.C. §103(a) Rejections of Claims 21-24**

Claims 21, 22, and 24 were rejected under 35 U.S.C. §103(a) as being unpatentable over *Bennett (5926787)* in view of *Arai* (5357355) in further view of *Ditzik* (5983073). Once again, the rejection is based upon a claim with two displays. Nowhere in either claim 21 or 23, are two displays claimed. A claim element is improperly being read into the claim 23.

Therefore, claim 23 is in condition for allowance.

A petition to make special has been previously filed in this case because of the age and health of an inventor. The prosecution of this case is being extended by the issuance of rejections that have no bearing upon the actual claim language. Applicants request that claims 21-24 be allowed and also request that the time since Applicants' filed the most recent RCE be added to the term of any patent to issue because of the reasons provided above.

Applicant
Respectfully submitted,

Dated: June 20, 2017 /Gregory B. Gulliver/

Gregory B. Gulliver, Reg. No. 44,138
Apogee Law Group P.C.
1862 E. Belvidere Rd.
Unit 117
Grayslake, IL 60030
(847) 984-3020 Telephone
gbgulliver@apogeelawgroup.com

# 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:** | | | | |
| NOTICE OF APPEAL | 2401 | 1 | 400 | 400 |
| **Post-Allowance-and-Post-Issuance:** | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD($) |
|---|---|---|---|---|
| **Extension-of-Time:** | | | | |
| **Miscellaneous:** | | | | |
| | | | **Total in USD ($)** | **400** |

# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 29554497 |
| **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<br>A Professional Association<br>Suite 200<br>2801 Townsgate Road<br>Westlake Village CA 91361<br>US 8054975886<br>- |
| **Filer:** | Gregory Brian Gulliver |
| **Filer Authorized By:** | |
| **Attorney Docket Number:** | GT012 |
| **Receipt Date:** | 20-JUN-2017 |
| **Filing Date:** | 08-FEB-2010 |
| **Time Stamp:** | 16:40:18 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

| | |
|---|---|
| Submitted with Payment | yes |
| Payment Type | CARD |
| Payment was successfully received in RAM | $400 |

SAMSUNG EXHIBIT 1003, Page 725

| | |
|---|---|
| RAM confirmation Number | 062117INTEFSW16434800 |
| 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 | Notice of Appeal Filed | NoticeofAppeal.pdf | 235727<br>64c8300f468dcf39711b7b2e079e5e25a2e0368d | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 2 | Pre-Brief Conference request | GT012PreappealBrief.pdf | 458431<br>e1178e92fa305f3094204d766c7d8053e7f8e4fa | no | 4 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 3 | Fee Worksheet (SB06) | fee-info.pdf | 30513<br>d4029f2dc79bff784756d99a2aaac7162f907d1a | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| | | **Total Files Size (in bytes):** | 724671 | | |

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

**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

PTO/AIA/31 (03-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# **NOTICE OF APPEAL** FROM THE EXAMINER TO THE PATENT TRIAL AND APPEAL BOARD

Docket Number (Optional): GT012

I hereby certify that this correspondence is being facsimile transmitted to the USPTO, EFS-Web transmitted to the USPTO, or deposited with the United States Postal Service with sufficient postage in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, on Alexandria, VA 22313-1450" [37 CFR 1.8(a)]

on _____.

Signature _____

Typed or printed name _____

In re Application of: Klinefelter et al.

| Application Number | Filed |
|---|---|
| 12/658,496 | February 8, 2010 |

For: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICCATION ON A NETWORK

| Art Unit | Examiner |
|---|---|
| 2658 | Michael N. Opsanick |

Applicant hereby **appeals** to the Patent Trial and Appeal Board from the last decision of the examiner.

The fee for this Notice of Appeal is (37 CFR 41.20(b)(1)) $ 800.00

☑ Applicant asserts small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by 50%, and the resulting fee is: $ 400.00

☐ Applicant certifies micro entity status. See 37 CFR 1.29. Therefore, the fee shown above is reduced by 75%, and the resulting fee is: $ _____
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

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

☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. _____.

☑ Payment made via EFS-Web.

☐ A petition for an extension of time under 37 CFR 1.136(a) (PTO/AIA/22 or equivalent) is enclosed.
For extensions of time in reexamination proceedings, see 37 CFR 1.550.

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

I am the

☐ applicant

☐ attorney or agent of record
Registration number _____

☐ attorney or agent acting under 37 CFR 1.34
Registration number 44,138

Signature /Gregory B. Gulliver/

Typed or printed name Gregory B. Gulliver

Telephone Number 847-984-3020

Date June 20, 2017

**NOTE:** This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. 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 41.20(b)(1) and 41.31. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 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.*

# Privacy Act Statement

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

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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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 07/07/2017

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

| EXAMINER |
|---|
| OPSASNICK, MICHAEL N |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2658 | |

| MAIL DATE | DELIVERY MODE |
|---|---|
| 07/07/2017 | 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.

| Notice of Panel Decision from Pre-Appeal Brief Review | Application No. 12/658,496 | Applicant(s) KLINEFELTER ET AL. |
|---|---|---|
| | Examiner RICHEMOND DORVIL | Art Unit 2658 |

This is in response to the Pre-Appeal Brief Request for Review filed 20 June, 2017.

1. ☐ **Improper Request** – The Request is improper and a conference will not be held for the following reason(s):

☐ The Notice of Appeal has not been filed concurrent with the Pre-Appeal Brief Request.
☐ The request does not include reasons why a review is appropriate.
☐ A proposed amendment is included with the Pre-Appeal Brief request.
☐ Other: .

The time period for filing a response continues to run from the receipt date of the Notice of Appeal or from the mail date of the last Office communication, if no Notice of Appeal has been received.

2. ☒ **Proceed to Board of Patent Appeals and Interferences** – A Pre-Appeal Brief conference has been held. The application remains under appeal because there is at least one actual issue for appeal. Applicant is required to submit an appeal brief in accordance with 37 CFR 41.37. The time period for filing an appeal brief will be reset to be one month from mailing this decision, or the balance of the two-month time period running from the receipt of the notice of appeal, whichever is greater. Further, the time period for filing of the appeal brief is extendible under 37 CFR 1.136 based upon the mail date of this decision or the receipt date of the notice of appeal, as applicable.

☒ The panel has determined the status of the claim(s) is as follows:
Claim(s) allowed: _____.
Claim(s) objected to: _____.
Claim(s) rejected: *1,3-9,11-13,15-24*.
Claim(s) withdrawn from consideration: _____.

3. ☐ **Allowable application** – A conference has been held. The rejection is withdrawn and a Notice of Allowance will be mailed. Prosecution on the merits remains closed. No further action is required by applicant at this time.

4. ☐ **Reopen Prosecution** – A conference has been held. The rejection is withdrawn and a new Office action will be mailed. No further action is required by applicant at this time.

| All participants: | | |
|---|---|---|
| (1) *RICHEMOND DORVIL*. | (3) *Michael Opsasnick*. | |
| (2) *Pierre-Louis Desir*. | (4)_____. | |
| | /RICHEMOND DORVIL/ Supervisory Patent Examiner, Art Unit 2658 | /PIERRE-LOUIS DESIR/ Supervisory Patent Examiner, Art Unit 2659 |

## VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

**A. Whether claims 21, 22, and 24 were properly 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).**

**B. Whether claim 23 was properly rejected when it depend from an allowable independent claim 21.**

**C. Whether claims 1, 3, 9, and 15-17 were properly 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).**

**D. Whether claims 4-8, 11-13, and 18-20 were properly rejected when they depend from allowable independent claims.**

## VII. ARGUMENT

The subject matter of this application has been pending in the patent office for almost 17 years, which is an eternity in technology time. Therefore, Applicant is making a cautionary plea for when one is discussing what is obvious to "a person of ordinary skilled in the art" not to let hind sight color their view.

Also, due to the age and health of one of the inventors, a Petition to Make Special was filed and accepted in this case on August 11, 2016.

### A. Claims 21, 22, and 24 were improperly 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).

Claims 21, 22, and 24, were 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). On page 7 of the Final Office Action, it is stated that; "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)." The element recited in the Final Office Action (multiple displays) is not found in claim 21. Claim 21 has been present in the application since being added with an RCE. Applicants addressed the issue of claim 21 not having a double display in the response to the Non-final Office Action and the Final Office Action. Thus, the

rejections asserted in the Non-Final Office Action and Final Office Action are not addressing the elements of claims 21, 22, and 24, as they are currently presented.

The Supreme Court in *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 398, 82 U.S.P.Q.2D (BNA) 1385 (U.S. Apr. 30, 2007) reaffirmed the framework for determining obviousness as set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966). The framework supports a finding of non-obviousness when applied to independent claim 21 and the claims that depend from independent claim 21. As articulated by the Supreme Court, obviousness is a question of law based on underlying factual inquiries. The factual inquiries enunciated by the Court are:

(A) Determining the scope and content of the prior art;
(B) Ascertaining the differences between the claimed invention and the prior art; and
(C) Resolving the level of ordinary skill in the pertinent art.

First, the references do not teach the elements of the invention and the scope and content of the prior art was improperly determined. Second, the differences between the claimed invention and the prior art have been misconstrued and elements read in (or out) of the claims. Third even if all the elements are taught by the references, one skilled in the art would not look at such unusually display technology as described in the *Arai* reference and combined with the other references.

On page 8 of the Final Office Action, it is stated that the *Bennett* patent; "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



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housing…." The rejection then goes on to state that "however, *Arai* (5357355) teaches a double sided panel display unit (abstract; col. l lines 24-26,), separate driver arrays (Fig. 4 figures lls, llp, llq). 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)…."

Applicants however, *do not claim two display devices* in independent claim 21 (as claimed in independent claim 1) or presenting information on both sides of the panel as asserted in the Final Office Action rejection of claim 21. The element recited in claim 21 is:

> 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 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, at least one second input device configured to input visual information wherein the at least one second input device resides on the second side of the housing….

The bases of rejection claims 21, 22, and 24 are not even relevant to Applicants' claims as erroneous elements were cited and discussed. The scope and content of the prior art has been misconstrued. Those erroneous elements are not found in the Applicants' claim 21 and have been read into the claim.

The *Flores* patent is cited with regards to rejection of claim 21, but is not used in the rejection. The *Flores* patent was previously cited in another rejection for teaching text and audio in differing requested language from original text (which has nothing to do with what is claimed in claim 21, 22, and 24). How can the combination of references teach each element of Applicants' claims when one reference is not related to the claim and two other references are cited to teach or show claim 21 elements where the elements cited are not

present in the claim? Claim elements, such as separate display devices, are being improperly read out of claim 21!

Furthermore, the display of *Arai* is cited against claim 1 as teaching two separate displays and then asserted against claim 21 as the two display devices (which is one device in *Arai*) making it obvious to have two cameras, and a further inference or assertion is made that one display could be removed to have two cameras and a single display device (Even though the cited reference's display device did not teach how to have only a single side panel). This is akin to citing a car with four wheels against a four wheeled vehicle and then asserting the same reference against a two wheeled vehicle, then going even further and citing the same reference when combined with knowledge of one skilled in the art against a one wheeled vehicle. The chain of logic is too tenuous, especially when unusual technology is sighted that involves radical display technology using polarization and shutters to display data on both sides of a single panel using electroluminescent light panels (*Arai* Col. 3, Lines 59-65). Additionally the same combination of references is being cited to teach one display displaying text only on one side and two separate displays, when the combination does not teach to separate displays.

Moreover, the logic presented in the Final Office is even more attenuated because of the technology presented in the reference being cited. The cited reference *Arai* uses polarization and electronic shutters so only part of the displayed data may be viewed on each side of the single display device. The use of this reference is more akin to citing four bogie wheels of a tank against a four wheeled car, because different technology is use by the car. Then asserting it would be obvious to have two wheels and then asserting the two

wheeled device when combined with knowledge of one skilled in the art. It is almost circular logic.

Using such logic and teaching as applied to claim 21 by the Examiner, a single display device having data displayable on both sides would be used to only display data on one side. No person skilled in the art would look at using unique technology only to lobotomize it (provided it would even be possible).

The level of skill in the art was not ascertained. The subject matter sought to be patented as a whole would not 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. There is no showing that one of ordinary skill in the art would look to radical display technology using polarization, shutters and electroluminescent panels to make a single display that displays data on both sides of single panel. There is no showing in the record why a person skilled in the art in 2000 would have knowledge or understanding of the unique technology of *Arai*.

Objective evidence relevant to the issue of obviousness must be evaluated by Office personnel. *Graham v. John Deere Co.* 383 US 1 at 17-18, 148 USPQ at 467. Such evidence, sometimes referred to as "secondary considerations," may include evidence of commercial success, long-felt but unsolved needs, failure of others, and unexpected results. The evidence may be included in the specification as filed, accompany the application on filing, or be provided in a timely manner at some other point during the prosecution. The weight to be given any objective evidence is made on a case-by-case basis. The mere fact that an applicant has presented evidence does not mean that the evidence is dispositive of the issue of obviousness.

Secondary considerations "may include evidence of commercial success." Applicant points out that commercial success of having a device with a single display and two cameras as claimed in claim 21 has been, for nearly a decade, a huge commercial success. It is noted that the parent case US 7,792,676 has issued on September 7th, 2010, that includes claims for "wherein the communication services system comprises a plurality of user computers, each user computer having mans for receiving and transmitting audio and visual information between the provider computer and the user computer. Indeed, the inventors described in the specification of the parent application a display system displaying a single image as a novel and efficient system for effectuating the translation system that they obtained a patent on that is a divisional application of this case (US 7,792,676, September 7th, 2010). Since that time, it has become common and expected that the majority of smart device (tablet and cellphones) sold have a display and a front and rear facing camera. Just look at any smart device you are caring or others around you may have.

The *Graham v. John Deere Co.* factors when considered along with the secondary consideration support a finding that the claim 21 and all claims dependent on claim 21 are in condition for allowance.

None of the cited reference either individually or when combined teach or describe all of Applicants' claim 21 elements. Claim 21 is an independent claim and is thus in condition for allowance because the combined references may teach something, but that something is not related to claim 21. Furthermore, claims 22-24 are in condition for allowance since they depend from allowable dependent claim 21.

**B. Claim 23 was improperly rejected when it depend from an allowable independent claim 21.**

Claim 23 depends from allowable independent claim 1 and is in condition for allowance because of that dependency.

**C. Claims 1, 3, 9, and 15-17 were improperly 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).**

The Examiner rejected claims 1, 3, 9, and 15-17 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). It is noted that the priority date for the application is October 10, 2000, which is over sixteen years ago, almost 17 years. *Arai* is teaching using polarization on data that is being displayed on each side of a single display. This not a first display separate from a second display as claimed by Applicants in independent claims 1, 3 and 9. The *Arai* patent teaches and describes only a single display that has text displayed on a panel readable from both sides. The *Arai* patent uses polarization and electronic shutters so only part of the displayed data may be viewed on each side of the single display device, but it is a single display with all the data being displayed on that single display. Applicants' independent claims require a first display means to be separate from the second display means. The Examiner is reading the limitation to be part of displayed information in a single display visible from a first side of the single display device and the other part of the displayed information in the single display visible from the second side of the single display device.

The subject matter sought to be patented as a whole would not 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. There is no showing that one of ordinary skill in the art would look to radical display technology using polarization to display data on both sides of single panel.

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, and 15-17 are in condition for allowance.

### D. Claims 4-8, 11-13, and 18-20 were improperly rejected because they depend from allowable independent claims.

Claims 4-8, 11-13, and 18-20 depend from allowable independent claim 1 and is in condition for allowance.

## VIII. CONCLUSION

For the reasons stated above, Applicants respectfully submit that claims 1-21 are in condition for allowance because the claims are not anticipated because not all claim elements are taught or described in the combined references, there is no likelihood of success in combining the elements to achieve the claimed invention, and there is no suggestion to combine the references when the resulting device would be missing claim elements.

Dated: September 20, 2017

Respectfully submitted,
/Gregory B. Gulliver/
Gregory B. Gulliver, Reg. No. 44,138
Attorney for Applicant
Apogee Law Group P.C.
1862 E. Belvidere Rd., Unit 117
Grayslake, IL 60030
(847) 984-3020 Telephone
(847) 574-8035 Fax
gbgulliver@goapogee.com

## IX. 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 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 separate from the first 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



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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.(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;



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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 fast 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 separate from the first 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.



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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 l, 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



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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 devise 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 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



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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. (Previously Presented) A communication service device operable with a communication network, 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



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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, at least one second input device configured to input visual information 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.

22. (Previously Presented) The communication service 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. (Previously Presented) The communication services 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. (Previously Presented) The communication services device as claimed in claim 22 includes, a second display device residing on the second side of the housing.



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## X. EVIDENCE – APPENDIX

No Evidence Appendix is included.



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## XI. RELATED PROCEEDINGS – APPENDIX

None.



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PTO/AIA/22 (03-13)
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# PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional): GT012

Application Number: 12/658,496

Filed: February 8, 2010

For: A System, Method and Apparatus for Providing Interpretive Communication On A Network

Art Unit: 2658

Examiner: Michael N. Opsasnick

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

| | Fee | Small Entity Fee | Micro Entity Fee | |
|---|---|---|---|---|
| ☑ One month (37 CFR 1.17(a)(1)) | $200 | $100 | $50 | $ 100.00 |
| ☐ Two months (37 CFR 1.17(a)(2)) | $600 | $300 | $150 | $ |
| ☐ Three months (37 CFR 1.17(a)(3)) | $1,400 | $700 | $350 | $ |
| ☐ Four months (37 CFR 1.17(a)(4)) | $2,200 | $1,100 | $550 | $ |
| ☐ Five months (37 CFR 1.17(a)(5)) | $3,000 | $1,500 | $750 | $ |

☑ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

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

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number _____.

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

I am the

☐ applicant.

☐ attorney or agent of record. Registration number _____.

☑ attorney or agent acting under 37 CFR 1.34. Registration number 44,138.

/Gregory B. Gulliver/ — Signature

September 20, 2017 — Date

Gregory B. Gulliver — Typed or printed name

(847)984-3020 — Telephone Number

**NOTE:** This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. 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 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 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: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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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($) |
|---|---|---|---|---|
| Extension - 1 month with $0 paid | 2251 | 1 | 100 | 100 |
| **Miscellaneous:** | | | | |
| | | | **Total in USD ($)** | **100** |

# Electronic Acknowledgement Receipt

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|---|---|
| **EFS ID:** | 30422034 |
| **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<br>A Professional Association<br>Suite 200<br>2801 Townsgate Road<br>Westlake Village CA 91361<br>US 8054975886<br>- |
| **Filer:** | Gregory Brian Gulliver |
| **Filer Authorized By:** | |
| **Attorney Docket Number:** | GT012 |
| **Receipt Date:** | 20-SEP-2017 |
| **Filing Date:** | 08-FEB-2010 |
| **Time Stamp:** | 14:46:14 |
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| | |
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| RAM confirmation Number | 092117INTEFSW14484500 |
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| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|---|---|---|---|---|---|
| 1 | Appeal Brief Filed | 20170920GT012AppealBreifvFin.pdf | 1477003<br>98c9bf2690ee2addb9cb46a197776a4348a198f4 | no | 19 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 2 | Extension of Time | aia0022.pdf | 162699<br>ed2c3d6086d341fd6ef24897431a75e8205fe160 | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 3 | Fee Worksheet (SB06) | fee-info.pdf | 30264<br>0e5b4b2e04875b57cc169dc29460178ce6509159 | no | 2 |
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**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

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**Paper No.**

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| **Application No.:** | **12/658,496** | **Date Mailed:** | **2017-10-12**<br>**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**

PTO-90c (Rev.08-06)

| Notification of Non-Compliant Appeal Brief *(37 CFR 41.37)* | **Application No.** 12/658,496 | **Applicant(s)** KLINEFELTER ET AL. |
|---|---|---|

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

The Appeal Brief filed on September 20, 2017 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):

The Summary of claimed subject matter is deficient as it must identify and map all independent claims separately on appeal to specification by page and line number or by paragraph number if used in original specification.
PG.1-11 MISSING
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/LASHAWN HINTON/
PATENT APPEAL SPEIALIST
571-272-1584

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

| | |
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| DOCKET NO.: | GT012 |
| INVENTOR: | KLINEFELTER et al. |
| TITLE: | A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICCATION ON A NETWORK |
| SERIAL NO.: | 12/658,496 |
| FILING DATE: | February 8, 2010 |
| EXAMINER: | Michael N. Opsasnick |
| GROUP ART UNIT: | 2658 |
| CONFIRMATION NO.: | 8099 |

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Commissioner for Patents
Mail Stop Appeal Brief
P.O. Box 1450
Alexandria, VA 22313

## APPEAL BRIEF

Applicants submit this Appeal Brief in the above identified matter in support of their appeal to the Board of Patent Appeals and Interferences from rejections of the claims in the Final Office Action dated March 20, 2017 and notice of October 12, 2017. A Notice of Appeal was filed and fees paid on June 20, 2017 with a Pre-Appeal Brief. A Pre-Brief Appeal Conference decision was mailed on July 7, 2017 and indicated at least one issue remained for appeal.

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## I. REAL PARTY IN INTEREST

The real party in interest are the inventors Robert Glen Klinefelter and Gregory A. Piccionelli.



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## II. RELATED APPEALS AND INTERFERENCES

There are no pending, proceedings or interferences known to the Applicants that may be related to, directly affect or be directly affected by, or have a bearing on the Board of Patent Appeals and Interference's decision in the pending appeal. There has been a prior appeal taken in this case.

## III. STATUS OF CLAIMS

This is an appeal from the Final Office Action of March 20, 2017 in which each of the pending claims 1, 3-9, 11-13, and 15-24 were rejected. Applicants are appealing the rejection of claims 1, 3-9, 11-13, and 15-24.



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## IV. STATUS OF AMENDMENTS

No amendments have been filed subsequent to the mailing of the Final Office Action of March 20, 2017 that indicated for purposes of appeal, the amendment(s) contained in the Advisory Action were entered.



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## V. SUMMARY OF CLAIMED SUBJECT MATTER

An approach is claimed for providing a method for enabling an inquiring individual to contact a target individual and for the target individual to authorize such contact. The original filed specification does not have paragraph numbers, and references will be cited to page and line numbers.

In independent claim 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 (See e.g. the paragraphs on page 12, lines 12-16 and page 15, line 21 to page 16, line 4 and Fig. 1), each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters (See e.g., the paragraph on page 16, lines 5-13 and Fig. 2), wherein the at least one user computer (See e.g., the paragraphs on page 9 and 10, lines 20-4) 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 (See e.g., the paragraph on page 10, lines 16) and the at least one user computer (See e.g., the paragraph on page 10, lines 15), the information relating to a request for interpretive services, and means for communication on the communication network (See, e.g., the paragraph on page 10, line 1) 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 (See, e.g., the paragraph on page 10, lines 16-17) that comprise a housing (See, e.g., the paragraph on page 35, lines 8-9), the housing having a first side and a second side

(See, e.g., the paragraph on page 35, lines 10-11), and the user computer (See, e.g., the paragraph on page 10, lines 16-17) 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 separate from the first 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 (See, e.g., the paragraph on page 35, lines 8-13), to receive and transmit information between the provide provider computer and the computer is claimed.

Turning to claim 3, 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 (See e.g. the paragraphs on page 12, lines 12-16 and page 15, line 21 to page 16, line 4 and Fig. 1), each interpreter computer having a manual input/output device for manual operation by a respective one of the human interpreters (See e.g., the paragraph on page 16, lines 5-13 and Fig. 2), 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 (See e.g., the paragraph on page 10, lines 16) and the at least one user computer (See e.g., the paragraphs on page 9 and 10, lines 20-4), 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 (See e.g., the paragraph on page 10, lines 16) 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 (See e.g., the paragraph on page 10, lines 15), 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 fast user computer and second user computer are contained within a single housing, the housing having a first side and a second side(See, e.g., the paragraph on page 35, line 8-10), 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 separate from the first 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 (See e.g. Fig. 6) and the first user computer is claimed.

In claim 9, communication services system operable with a plurality of interpreters on a computer network having a provider computer, and a plurality of interpreter computers (See e.g. the paragraphs on page 12, lines 12-16 and page 15, line 21 to page 16, line 4.) Fig. 1, wherein the at least one interpreter to facilitate communication between a first user and a second user comprising, at least one user computer (See, e.g., the paragraph on page 10, lines 16-17) configured to receive and transmit information from and to the provider computer (See e.g., the paragraph on page 10, lines 16), 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 (See, e.g., the paragraph on page 10, lines 16-17) 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 (See, e.g., the paragraph on page 35, lines 8-13), wherein the first and second input devise 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 is able to access the at least one second input device and second display device (See, e.g., FIG. 6).

Turning to claim 21, a communication service device (See Fig. 3)operable with a communication network, comprising at least one user communication device (See, e.g., the paragraph on page 9, lines 3-6) configured to receive and transmit information over the communication network (See, e.g., the paragraph on page 9, lines 6-9), the at least one user communication device comprising a housing having a first side and a second side (See, e.g., the paragraph on page 35, lines 9-10), 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, at least one second input device configured to input visual information wherein the at least one second input device resides on the second side of the housing (See, e.g., the paragraph on page 35, lines 10-14), 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 (See, e.g., the paragraph on page 35, lines 10-14, FIG. 3).



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## VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

**A. Whether claims 21, 22, and 24 were properly 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).**

**B. Whether claim 23 was properly rejected when it depend from an allowable independent claim 21.**

**C. Whether claims 1, 3, 9, and 15-17 were properly 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).**

**D. Whether claims 4-8, 11-13, and 18-20 were properly rejected when they depend from allowable independent claims.**



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## VII. ARGUMENT

The subject matter of this application has been pending in the patent office for almost 17 years, which is an eternity in technology time. Therefore, Applicant is making a cautionary plea for when one is discussing what is obvious to "a person of ordinary skilled in the art" not to let hind sight color their view.

Also, due to the age and health of one of the inventors, a Petition to Make Special was filed and accepted in this case on August 11, 2016.

### A. Claims 21, 22, and 24 were improperly 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).

Claims 21, 22, and 24, were 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). On page 7 of the Final Office Action, it is stated that; "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)." The element recited in the Final Office Action (multiple displays) is not found in claim 21. Claim 21 has been present in the application since being added with an RCE. Applicants addressed the issue of claim 21 not having a double display in the response to the Non-final Office Action and the Final Office Action. Thus, the

rejections asserted in the Non-Final Office Action and Final Office Action are not addressing the elements of claims 21, 22, and 24, as they are currently presented.

The Supreme Court in *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 398, 82 U.S.P.Q.2D (BNA) 1385 (U.S. Apr. 30, 2007) reaffirmed the framework for determining obviousness as set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966). The framework supports a finding of non-obviousness when applied to independent claim 21 and the claims that depend from independent claim 21. As articulated by the Supreme Court, obviousness is a question of law based on underlying factual inquiries. The factual inquiries enunciated by the Court are:

(A) Determining the scope and content of the prior art;
(B) Ascertaining the differences between the claimed invention and the prior art; and
(C) Resolving the level of ordinary skill in the pertinent art.

First, the references do not teach the elements of the invention and the scope and content of the prior art was improperly determined. Second, the differences between the claimed invention and the prior art have been misconstrued and elements read in (or out) of the claims. Third even if all the elements are taught by the references, one skilled in the art would not look at such unusually display technology as described in the *Arai* reference and combined with the other references.

On page 8 of the Final Office Action, it is stated that the *Bennett* patent; "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



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housing…." The rejection then goes on to state that "however, *Arai* (5357355) teaches a double sided panel display unit (abstract; col. l lines 24-26,), separate driver arrays (Fig. 4 figures lls, llp, llq). 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)…."

Applicants however, *do not claim two display devices* in independent claim 21 (as claimed in independent claim 1) or presenting information on both sides of the panel as asserted in the Final Office Action rejection of claim 21. The element recited in claim 21 is:

> 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 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, at least one second input device configured to input visual information wherein the at least one second input device resides on the second side of the housing….

The bases of rejection claims 21, 22, and 24 are not even relevant to Applicants' claims as erroneous elements were cited and discussed. The scope and content of the prior art has been misconstrued. Those erroneous elements are not found in the Applicants' claim 21 and have been read into the claim.

The *Flores* patent is cited with regards to rejection of claim 21, but is not used in the rejection. The *Flores* patent was previously cited in another rejection for teaching text and audio in differing requested language from original text (which has nothing to do with what is claimed in claim 21, 22, and 24). How can the combination of references teach each element of Applicants' claims when one reference is not related to the claim and two other references are cited to teach or show claim 21 elements where the elements cited are not

present in the claim? Claim elements, such as separate display devices, are being improperly read out of claim 21!

Furthermore, the display of *Arai* is cited against claim 1 as teaching two separate displays and then asserted against claim 21 as the two display devices (which is one device in *Arai*) making it obvious to have two cameras, and a further inference or assertion is made that one display could be removed to have two cameras and a single display device (Even though the cited reference's display device did not teach how to have only a single side panel). This is akin to citing a car with four wheels against a four wheeled vehicle and then asserting the same reference against a two wheeled vehicle, then going even further and citing the same reference when combined with knowledge of one skilled in the art against a one wheeled vehicle. The chain of logic is too tenuous, especially when unusual technology is sighted that involves radical display technology using polarization and shutters to display data on both sides of a single panel using electroluminescent light panels (*Arai* Col. 3, Lines 59-65). Additionally the same combination of references is being cited to teach one display displaying text only on one side and two separate displays, when the combination does not teach to separate displays.

Moreover, the logic presented in the Final Office is even more attenuated because of the technology presented in the reference being cited. The cited reference *Arai* uses polarization and electronic shutters so only part of the displayed data may be viewed on each side of the single display device. The use of this reference is more akin to citing four bogie wheels of a tank against a four wheeled car, because different technology is use by the car. Then asserting it would be obvious to have two wheels and then asserting the two

wheeled device when combined with knowledge of one skilled in the art. It is almost circular logic.

Using such logic and teaching as applied to claim 21 by the Examiner, a single display device having data displayable on both sides would be used to only display data on one side. No person skilled in the art would look at using unique technology only to lobotomize it (provided it would even be possible).

The level of skill in the art was not ascertained. The subject matter sought to be patented as a whole would not 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. There is no showing that one of ordinary skill in the art would look to radical display technology using polarization, shutters and electroluminescent panels to make a single display that displays data on both sides of single panel. There is no showing in the record why a person skilled in the art in 2000 would have knowledge or understanding of the unique technology of *Arai*.

Objective evidence relevant to the issue of obviousness must be evaluated by Office personnel. *Graham v. John Deere Co.* 383 US 1 at 17-18, 148 USPQ at 467. Such evidence, sometimes referred to as "secondary considerations," may include evidence of commercial success, long-felt but unsolved needs, failure of others, and unexpected results. The evidence may be included in the specification as filed, accompany the application on filing, or be provided in a timely manner at some other point during the prosecution. The weight to be given any objective evidence is made on a case-by-case basis. The mere fact that an applicant has presented evidence does not mean that the evidence is dispositive of the issue of obviousness.



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Secondary considerations "may include evidence of commercial success." Applicant points out that commercial success of having a device with a single display and two cameras as claimed in claim 21 has been, for nearly a decade, a huge commercial success. It is noted that the parent case US 7,792,676 has issued on September 7th, 2010, that includes claims for "wherein the communication services system comprises a plurality of user computers, each user computer having mans for receiving and transmitting audio and visual information between the provider computer and the user computer. Indeed, the inventors described in the specification of the parent application a display system displaying a single image as a novel and efficient system for effectuating the translation system that they obtained a patent on that is a divisional application of this case (US 7,792,676, September 7th, 2010). Since that time, it has become common and expected that the majority of smart device (tablet and cellphones) sold have a display and a front and rear facing camera. Just look at any smart device you are caring or others around you may have.

The *Graham v. John Deere Co.* factors when considered along with the secondary consideration support a finding that the claim 21 and all claims dependent on claim 21 are in condition for allowance.

None of the cited reference either individually or when combined teach or describe all of Applicants' claim 21 elements. Claim 21 is an independent claim and is thus in condition for allowance because the combined references may teach something, but that something is not related to claim 21. Furthermore, claims 22-24 are in condition for allowance since they depend from allowable dependent claim 21.

**B. Claim 23 was improperly rejected when it depend from an allowable independent claim 21.**

Claim 23 depends from allowable independent claim 1 and is in condition for allowance because of that dependency.

**C. Claims 1, 3, 9, and 15-17 were improperly 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).**

The Examiner rejected claims 1, 3, 9, and 15-17 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). It is noted that the priority date for the application is October 10, 2000, which is over sixteen years ago, almost 17 years. *Arai* is teaching using polarization on data that is being displayed on each side of a single display. This not a first display separate from a second display as claimed by Applicants in independent claims 1, 3 and 9. The *Arai* patent teaches and describes only a single display that has text displayed on a panel readable from both sides. The *Arai* patent uses polarization and electronic shutters so only part of the displayed data may be viewed on each side of the single display device, but it is a single display with all the data being displayed on that single display. Applicants' independent claims require a first display means to be separate from the second display means. The Examiner is reading the limitation to be part of displayed information in a single display visible from a first side of the single display device and the other part of the displayed information in the single display visible from the second side of the single display device.

The subject matter sought to be patented as a whole would not 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. There is no showing that one of ordinary skill in the art would look to radical display technology using polarization to display data on both sides of single panel.

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, and 15-17 are in condition for allowance.

### D. Claims 4-8, 11-13, and 18-20 were improperly rejected because they depend from allowable independent claims.

Claims 4-8, 11-13, and 18-20 depend from allowable independent claim 1 and is in condition for allowance.

## VIII. CONCLUSION

For the reasons stated above, Applicants respectfully submit that claims 1-21 are in condition for allowance because the claims are not anticipated because not all claim elements are taught or described in the combined references, there is no likelihood of success in combining the elements to achieve the claimed invention, and there is no suggestion to combine the references when the resulting device would be missing claim elements.

Dated: October 31, 2017

Respectfully submitted,
/Gregory B. Gulliver/
Gregory B. Gulliver, Reg. No. 44,138
Attorney for Applicant
Apogee Law Group P.C.
1862 E. Belvidere Rd., Unit 117
Grayslake, IL 60030
(847) 984-3020 Telephone
(847) 574-8035 Fax
gbgulliver@goapogee.com

## IX. 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 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 separate from the first 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



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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.(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;



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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 fast 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 separate from the first 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.



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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 l, 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



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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 devise 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 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



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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.



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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. (Previously Presented) A communication service device operable with a communication network, 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



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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, at least one second input device configured to input visual information 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.

22. (Previously Presented) The communication service 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. (Previously Presented) The communication services 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. (Previously Presented) The communication services device as claimed in claim 22 includes, a second display device residing on the second side of the housing.



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## X. EVIDENCE – APPENDIX

No Evidence Appendix is included.



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## XI. RELATED PROCEEDINGS – APPENDIX

None.



SAMSUNG EXHIBIT 1003, Page 790

# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 30813409 |
| **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<br>A Professional Association<br>Suite 200<br>2801 Townsgate Road<br>Westlake Village CA 91361<br>US 8054975886<br>- |
| **Filer:** | Gregory Brian Gulliver |
| **Filer Authorized By:** | |
| **Attorney Docket Number:** | GT012 |
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| **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.) |
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| 1 | Appeal Brief Filed | 20171012GT012AppealBreifvN1.pdf | 589681<br>12bfd63bf339b15304e1813862e2125a1da93c55 | no | 30 |
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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 12/658,496 | 02/08/2010 | Robert Glen Klinefelter | GT012 | 8099 |

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

| EXAMINER | |
|---|---|
| OPSASNICK, MICHAEL N | |

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|---|---|
| 2658 | |

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| 01/02/2018 | PAPER |

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

Application Number: 12/658,496
Filing Date: February 08, 2010
Appellant(s): KLINEFELTER ET AL.

Mr. Gregory Gulliver
For Appellant

**EXAMINER'S ANSWER**

This is in response to the appeal brief filed October 31, 2017.

**(1) Grounds of Rejection to be Reviewed on Appeal**

Every ground of rejection set forth in the Office action dated March 20, 2017, 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.

***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 negatived by the manner in which the invention was made.

2. 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;

}

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 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, with the first display means and first input means residing on the first side of the housing, and a second display means separate from the first display means (examiner notes that applicants disclosure, para 0113, discloses a ***first side*** and a ***second side***) , 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).

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).

4. 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 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 advantageously improve upon recognizing voice input especially in noisy environments, by using directionality microphones (Wakisaka, col. 6, lines 5-8).

6. 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).

*(Examiner notes that the Final Office Action contains the typographical error of including the Flores reference in the rejection statement; however, CLEARLY, from the body of the rejection, the rejection of the claims, is, the combination of BENNETT in view of ARAI references).*

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 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).

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).

7. 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.

**(2) Response to Argument**

***Section A***

On pages 13-18 of the Appeal Brief, Appellant presents arguments alleging that "the Non-Final and Final Office Action are not addressing the elements of claims 21, 22, and 24, as they are currently presented". To further their position, Appellants attempt to argue, that the two sided display, as addressed in the office action using the Bennett reference, is not claimed and "are not relevant to Applicants' claims as erroneous elements were cited and discussed".

Examiner argues that the purpose of detailing the 2 displays of Bennett, is to address the claim limitations pertaining to the first display device AND to explain, what will be modified in Bennett, by the Arai reference. To neglect that particular detail, would be deficient in developing a prima facie case of obviousness. It is necessary to show the 2 display setup in Bennett, in order to explain how the Arai reference teaches the concept of taking 2 displays with associated elements on each display, and merge into a single housing. Therefore, it is the combination of Bennett in view of Arai that teaches the claim limitations; the cited combination now teaches a single housing with 2 sides. Addressing appellant's vehicle example, the MPEP teaches:

1) omission of an element and its function is obvious if the function of the element is not desired (Ex parte Wu, 10USPQ2031, see also MPEP 2144.04, II. ELIMINATION OF A STEP OR AN ELEMENT AND ITS FUNCTION). A. Omission of an Element and Its Function Is Obvious if the Function of the Element Is Not Desired -- In response to Applicant's argument that includes additional structure not required by Applicant's invention, it must be noted that

Bennett in view of Arai, discloses the invention as claimed. The fact that it discloses additional structure not claimed is irrelevant.).

2) that patentability of a simplified device over the prior art would have to show an unexpected result, by reducing or subtracting elements. No such "unexpected results" are apparent, nor proffered, by applicant. (See MPEP, 716.02 (b), Burden on Applicant to Establish Results are Unexpected and Significant). As well as applicants' allegation of commercial success, found on pp 18 of the appeal brief, of which no evidence is provided by applicant.

And further to Appellant's arguments on pp 16 of the Appeal Brief, toward the analysis of the Arai reference, examiner argues that the recited portions of Arai (in the office action rejection), clearly show the concept of two individual displays and components into a single housing, as well as prior art system showing displays in a back-to-back format (Figs. 1,2); further, Appellants' allegation 'radical technology' to be a dual sided display with a spacer, is a mere allegation to the state of the art, without applicant providing evidence as such. Considering the patent date of Arai is October 1994, it appears that in the year 2000, one would have 6 years to understand the working of Arai. Further, the motivation to combine the references was found in the Arai reference, as detailed in the final office action.

As to applicants discussion of the Flores reference (bottom of pp 15 of the Appeal Brief), examiner rebuts that, Yes, this is a typographical error (the mention of the Flores reference should have been removed in the statement of the rejection). CLEARLY, from the body of the rejection, it is the combination of BENNETT in view of ARAI.

***Section B***

Appellant on pp 19 of the Appeal Brief, states that claim 23 is allowable based on the claim dependency (notably, contradictory, in stating that the dependency is upon two different independent claims). Examiner maintains that the independent claims are still not allowable.

***Section C***

Appellant repeats the previously presented arguments against the combination of references; the motivation is derived from the Arai reference itself. See OA rejection (col. 1 lines 10-19 of Arai).

***Section D***

Appellant on pp 20 of the Appeal Brief, states that claims 4-8, 11-13, 18-20 is allowable based on the claim dependency. Examiner maintains that the independent claims are still not allowable.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/Michael N Opsasnick/

Primary Examiner, Art Unit 2658

Conferees:

/DOUGLAS GODBOLD/

Primary Examiner, Art Unit 2658

/RICHEMOND DORVIL/

Supervisory Patent Examiner, Art Unit 2658

**Requirement to pay appeal forwarding fee.** In order to avoid dismissal of the instant appeal in any application or ex parte reexamination proceeding, 37 CFR 41.45 requires payment of an appeal forwarding fee within the time permitted by 37 CFR 41.45(a), unless appellant had timely paid the fee for filing a brief required by 37 CFR 41.20(b) in effect on March 18, 2013.

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# REQUEST FOR ORAL HEARING BEFORE THE PATENT TRIAL AND APPEAL BOARD

Docket Number (Optional): GT012

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on March 1, 2018

Signature /Gregory B. Gulliver/

Typed or printed name Gregory B. Gulliver

In re Application of: Robert Glen Klinefelter

| Application Number | Filed |
|---|---|
| 12/658,496 | February 08, 2010 |

For: A SYSTEM, METHOD AND APPARATUS FOR PROVIDING INTERPRETIVE COMMUNICCATION ON A NETWORK

| Art Unit | Examiner |
|---|---|
| 2658 | Opsasnick, Michael N . |

Applicant hereby **requests an oral hearing** before the Patent Trial and Appeal Board in the appeal of the above-identified application.

The fee for this Request for Oral Hearing is (37 CFR 41.20(b)(3)) $ 1,300.00

☑ Applicant asserts small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by 50%, and the resulting fee is: $ 650.00

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Date March 1, 2018

**NOTE:** This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. 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 41.20(b)(3). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 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:** | 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:** | | | | |
| REQUEST FOR ORAL HEARING | 2403 | 1 | 650 | 650 |
| APPEAL FORWARDING FEE | 2413 | 1 | 1120 | 1120 |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD($) |
|---|---|---|---|---|
| **Post-Allowance-and-Post-Issuance:** | | | | |
| **Extension-of-Time:** | | | | |
| **Miscellaneous:** | | | | |
| | | **Total in USD ($)** | | **1770** |

# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 31938488 |
| **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<br>A Professional Association<br>Suite 200<br>2801 Townsgate Road<br>Westlake Village CA 91361<br>US 8054975886<br>- |
| **Filer:** | Gregory Brian Gulliver |
| **Filer Authorized By:** | |
| **Attorney Docket Number:** | GT012 |
| **Receipt Date:** | 01-MAR-2018 |
| **Filing Date:** | 08-FEB-2010 |
| **Time Stamp:** | 20:00:41 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

| | |
|---|---|
| Submitted with Payment | yes |
| Payment Type | CARD |
| Payment was successfully received in RAM | $1770 |

SAMSUNG EXHIBIT 1003, Page 810

| | |
|---|---|
| RAM confirmation Number | 030218INTEFSW20023600 |
| Deposit Account | |
| Authorized User | |

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

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|---|---|---|---|---|---|
| 1 | Request for Oral Hearing | 20180201RequestOralArg.pdf | 170958<br>7b4390f4f28fd6bd5aae11d6a3acf4764329f5f3 | no | 1 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 32363<br>bec8eb95246d3b59d3f02f41f31d2f6bc93c730e | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| | | **Total Files Size (in bytes):** | 203321 | | |

**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.**

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 03/05/2018

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

| EXAMINER |
|---|
| OPSASNICK, MICHAEL N |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2658 | |

| MAIL DATE | DELIVERY MODE |
|---|---|
| 03/05/2018 | 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

Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

PICCIONELLI & SARNO
A PROFESSIONAL ASSOCIATION
SUITE 200
2801 TOWNSGATE ROAD
WESTLAKE VILLAGE, CA 91361

Appeal No: 2018-003928
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 March 05, 2018 and has been assigned Appeal No: 2018-003928.

In all future communications regarding this appeal, please include both the application number and the appeal number.

The mailing address for the Board is:

**PATENT TRIAL and APPEAL BOARD**
**UNITED STATES PATENT AND TRADEMARK OFFICE**
**P.O. BOX 1450**
**ALEXANDRIA, VIRGINIA 22313-1450**

Telephone inquiries can be made by calling 571-272-9797 and referencing the appeal number listed above.

By order of the Patent Trial and Appeal Board.

AA

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 05/20/2019

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

| EXAMINER |
|---|
| OPSASNICK, MICHAEL N |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2658 | |

| MAIL DATE | DELIVERY MODE |
|---|---|
| 05/20/2019 | 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.

The United States Patent and Trademark Office
PATENT TRIAL AND APPEAL BOARD

PICCIONELLI & SARNO
A PROFESSIONAL ASSOCIATION
SUITE 200
2801 TOWNSGATE ROAD
WESTLAKE VILLAGE, CA 91361

| | |
|---|---|
| Appeal No: | 2018-003,928 |
| Appellant: | Robert Glen Klinefelter et al. |
| Application No: | 12/658,496 |
| Hearing Room: | H |
| Hearing Docket: | B |
| Hearing Date: | Monday, July 22, 2019 |
| Hearing Time: | 09:00 AM PT |
| Location: | **USPTO**<br>**Hearing Room 322**<br>**26 Fourth Street**<br>**San Jose, California 92113** |

**NOTICE OF HEARING - SAN JOSE, CALIFORNIA**
**RESPONSE REQUIRED WITHIN 21 DAYS**

Your attention is directed to 37 CFR § 41.47. The above identified appeal will be heard by the Patent Trial and Appeal Board on the date indicated. Hearings will commence at the time set, and as soon as the argument in one appeal is concluded, the succeeding appeal will be taken up. **The time allowed for argument is 20 minutes** unless additional time is requested and approved before the argument commences. **If the application involved in this appeal has been published, the hearing will be open to the public.**

CONFIRMATION OF ATTENDANCE OR WAIVER OF THE HEARING IS REQUIRED WITHIN **21 DAYS** OF THE MAILING DATE OF THIS NOTICE. Failure to respond may subject Appellant(s) to waiver of the oral hearing. If Appellant is no longer interested in having an oral hearing, Appellant must still file a waiver of oral hearing with the Board. This allows the panel to promptly act on the appeal without waiting for the oral hearing date.

Confirmation or waiver of the hearing should be indicated by completing the form below and returning it to the Board. This form may be filed with the Board by any one of the following three alternative methods:

1. Via the USPTO Electronic Filing System (EFS) at http://www.uspto.gov/patents/process/file/efs/
2. ***PREFERRED***: Facsimile transmitted to: The USPTO Central fax number (official copy): **(571) 273-8300** ***and*** the PTAB Hearing fax number (courtesy copy): **(571) 273-9797.**
3. By mail at the PTAB mailing address: Patent Trial and Appeal Board
   United States Patent and Trademark Office
   P.O. BOX 1450
   Alexandria, Virginia 22313-1450

**In all communications relating to this appeal, please identify the appeal by its number.**

**PLEASE ELECT ONE OF THE OPTIONS BELOW:**

( ) I ELECT AN IN-PERSON HEARING AND CONFIRM ATTENDANCE IN **SAN JOSE, CALIFORNIA** *(EFS-Web selection: Confirmation of Hearing by Appellant)*

( ) I ELECT A TELEPHONIC HEARING - ATTENDANCE CONFIRMED *(EFS-Web selection: Confirmation of Hearing by Appellant)*

( ) I ELECT A VIDEO HEARING - ATTENDANCE CONFIRMED *(EFS-Web selection: Confirmation of Hearing by Appellant)*

( ) I ELECT TO WAIVE HEARING ATTENDANCE *(EFS-Web selection: Waiver of Hearing by Appellant)*

To aid the oral hearings staff in scheduling hearing rooms, please indicate the total number of participating and observing attendees if more than three are expected: _____

To aid the judges in determining whether any conflicts exist that may require a recusal, please list in the 'Comments' section the names of any additional person(s) who will be participating in the oral hearing. (Upon arrival at the **USPTO Hearing Room 322 in San, Jose, California**, all persons presenting arguments must sign in at the Usher's desk.)

Comments/Special Requests:

_____

_____

_____ _____

Typed or Printed Name of Attorney/Agent/Appellant Registration No.

_____ _____

Signature of Attorney/Agent/Appellant Date

The 'Hearings' section of the PTAB webpage http://www.uspto.gov/patents-application-process/patent-trial-and-appeal-board/hearings provides additional information about oral hearings.

Please direct other inquiries to the PTAB Hearings Clerk at 571-272-9797.

The United States Patent and Trademark Office
# PATENT TRIAL AND APPEAL BOARD

PICCIONELLI & SARNO
A PROFESSIONAL ASSOCIATION
SUITE 200
2801 TOWNSGATE ROAD
WESTLAKE VILLAGE, CA 91361

| | |
|---|---|
| Appeal No: | 2018-003928 |
| Appellant: | Robert Glen Klinefelter et al. |
| Application No: | 12/658,496 |
| Hearing Room: | B |
| Hearing Docket: | B |
| Hearing Date: | Monday, July 22, 2019 |
| Hearing Time: | 09:00 AM PT |
| Location: | **USPTO**<br>**Hearing Room 322**<br>**26 Fourth Street**<br>**San Jose, California 92113** |

## NOTICE OF HEARING - SAN JOSE, CALIFORNIA
## RESPONSE REQUIRED WITHIN 21 DAYS

Your attention is directed to 37 CFR § 41.47. The above identified appeal will be heard by the Patent Trial and Appeal Board on the date indicated. Hearings will commence at the time set, and as soon as the argument in one appeal is concluded, the succeeding appeal will be taken up. **The time allowed for argument is 20 minutes** unless additional time is requested and approved before the argument commences. **If the application involved in this appeal has been published, the hearing will be open to the public.**

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1. Via the USPTO Electronic Filing System (EFS) at http://www.uspto.gov/patents/process/file/efs/
2. ***PREFERRED***: Facsimile transmitted to: The USPTO Central fax number (official copy): **(571) 273-8300** ***and*** the PTAB Hearing fax number (courtesy copy): **(571) 273-9797.**
3. By mail at the PTAB mailing address: Patent Trial and Appeal Board
   United States Patent and Trademark Office
   P.O. BOX 1450
   Alexandria, Virginia 22313-1450

**In all communications relating to this appeal, please identify the appeal by its number.**

**PLEASE ELECT ONE OF THE OPTIONS BELOW:**

(X) I ELECT AN IN-PERSON HEARING AND CONFIRM ATTENDANCE IN **SAN JOSE, CALIFORNIA** *(EFS-Web selection: Confirmation of Hearing by Appellant)*

( ) I ELECT A TELEPHONIC HEARING - ATTENDANCE CONFIRMED *(EFS-Web selection: Confirmation of Hearing by Appellant)*

( ) I ELECT A VIDEO HEARING - ATTENDANCE CONFIRMED *(EFS-Web selection: Confirmation of Hearing by Appellant)*

( ) I ELECT TO WAIVE HEARING ATTENDANCE *(EFS-Web selection: Waiver of Hearing by Appellant)*

To aid the oral hearings staff in scheduling hearing rooms, please indicate the total number of participating and observing attendees if more than three are expected: _____

To aid the judges in determining whether any conflicts exist that may require a recusal, please list in the 'Comments' section the names of any additional person(s) who will be participating in the oral hearing. (Upon arrival at the **USPTO Hearing Room 322 in San, Jose, California**, all persons presenting arguments must sign in at the Usher's desk.)

Comments/Special Requests:

Gregory B. Gulliver — 44,138

Typed or Printed Name of Attorney/Agent/Appellant — Registration No.

Signature of Attorney/Agent/Appellant — 7/8/2019

Date

The 'Hearings' section of the PTAB webpage http://www.uspto.gov/patents-application-process/patent-trial-and-appeal-board/hearings provides additional information about oral hearings.

Please direct other inquiries to the PTAB Hearings Clerk at 571-272-9797.

# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 36535078 |
| **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<br>A Professional Association<br>Suite 200<br>2801 Townsgate Road<br>Westlake Village CA 91361<br>US 8054975886<br>- |
| **Filer:** | Gregory Brian Gulliver |
| **Filer Authorized By:** | |
| **Attorney Docket Number:** | GT012 |
| **Receipt Date:** | 09-JUL-2019 |
| **Filing Date:** | 08-FEB-2010 |
| **Time Stamp:** | 17:11:19 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

| | |
|---|---|
| Submitted with Payment | no |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|---|---|---|---|---|---|
| 1 | Confirmation of Hearing by Appellant | 2019_07_09_OralHearing.pdf | 244276<br>3203b879f5e0e916896484b248499e53094221be | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| | | **Total Files Size (in bytes):** | 244276 | | |

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

**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
U.S. Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

☐ Practitioners associated with Customer Number: -

**OR**

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

| Name | Registration Number |
|---|---|
| Gregory B. Gulliver | 44,138 |
| | |
| | |
| | |
| | |

| Name | Registration Number |
|---|---|
| | |
| | |
| | |
| | |
| | |

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

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

■ The address associated with Customer Number: 147182

**OR**

☐

| | | | |
|---|---|---|---|
| Firm or Individual Name | | | |
| Address | | | |
| City | | State | Zip |
| Country | | | |
| Telephone | | Email | gbgulliver65@gmail.com |

Assignee Name and Address: KP INNOVATIONS, LLC
1000 EAST WILLIAM STREET STE 204
CARSON CITY, NEVADA 89701

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

**SIGNATURE of Assignee of Record**

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

| | | | |
|---|---|---|---|
| Signature | /Gregory A. Piccinelli/ | Date | 7-18-19 |
| Name | Gregory A. Piccinelli | Telephone | |
| Title | Member, K.P. INNOVATIONS, LLC; INVENTOR | | |

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

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

# Privacy Act Statement

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

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

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

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: KP Innovations, LLC

Application No./Patent No.: 12/658,496 Filed/Issue Date: 02/08/2010

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

_____, a LLC

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

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

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

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

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

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

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

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

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

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

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

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 027767, Frame 0932, or for which a copy thereof is attached.

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

   1. From: _____ To: _____

      The document was recorded in the United States Patent and Trademark Office at

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

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

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

| | |
|---|---|
| /Gregory B. Gulliver/ | 7/19/2019 |
| Signature | Date |
| Gregory B. Gulliver | Reg. No. 44,138 |
| Printed or Typed Name | Title or Registration Number |

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| **EFS ID:** | 36643162 |
| **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<br>A Professional Association<br>Suite 200<br>2801 Townsgate Road<br>Westlake Village CA 91361<br>US 8054975886<br>- |
| **Filer:** | Gregory Brian Gulliver |
| **Filer Authorized By:** | |
| **Attorney Docket Number:** | GT012 |
| **Receipt Date:** | 19-JUL-2019 |
| **Filing Date:** | 08-FEB-2010 |
| **Time Stamp:** | 20:28:10 |
| **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 | Power_of_Attorney_LLC.pdf | 3768706<br>f2da73df0912fd2d14e9069381aacb756a59a67f | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 2 | Power of Attorney | POA_GulliverPT2_gbg.pdf | 84396<br>5e12a31c6cd5485457220d709069f8d8b3e23583 | no | 3 |
| **Warnings:** | | | | | |
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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**

**POA ACCEPTANCE LETTER**

147182
Gregory B. Gulliver
1862 E. Belvidere Rd.
Unit 117
Grayslake, IL 60030

*OC000000109891000*

Date Mailed: 07/25/2019

## NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/19/2019.

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

/vnguyen/

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**CONFIRMATION NO. 8099**

**POWER OF ATTORNEY NOTICE**

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

*OC00000109890974*

Date Mailed: 07/25/2019

## NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/19/2019.

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

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

/vnguyen/

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147182 7590 08/12/2019

Gregory B. Gulliver
1862 E. Belvidere Rd.
Unit 117
Grayslake, IL 60030

| EXAMINER | |
|---|---|
| OPSASNICK, MICHAEL N | |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2658 | |

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

---

*Ex parte* ROBERT GLEN KLINEFELTER and
GREGORY A. PICCIONELLI

---

Appeal 2018-003928
Application 12/658,496
Technology Center 2600

---

Before MAHSHID D. SAADAT, LINZY T. McCARTNEY, and NORMAN H. BEAMER, *Administrative Patent Judges*.

SAADAT, *Administrative Patent Judge*.

DECISION ON APPEAL[1]

Appellants[2] appeal under 35 U.S.C. § 134(a) from the Final Rejection of claims 1, 3–9, 11–13, and 15–24.[3] We have jurisdiction under 35 U.S.C. § 6(b).

We reverse.

---

[1] An oral hearing was held for this appeal on July 22, 2019.
[2] According to Appellants, the real parties in interest are the inventors Robert Glen Klinefelter and Gregory A. Piccionelli. Br. 3.
[3] Claims 2, 10, and 14 have been previously canceled.

## STATEMENT OF THE CASE

### *Introduction*

Appellants' disclosure is directed to "a system, method, and apparatus for providing relatively real-time or near real-time interpretation." Spec. 15:15–17. Claim 21, which is illustrative of the invention, reads as follows:

> 21. A communication service device operable with a communication network, 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 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, at least one second input device configured to input visual information 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.

### *The Examiner's Rejections*

Claims 1, 3, 9, and 15–17 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett (US 5,926,787; iss. July 20, 1999), Flores (US 6,370,498 B1; iss. Apr. 9, 2002), and Arai (US 5,357,355; iss. Oct. 18, 1994). *See* Final Act. 2–5.

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; iss. Apr. 4, 2006). *See* Final Act. 5–6.

Claims 18 and 19 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett, Flores, Arai, in view of Wakisaka (US 5,917,944; iss. June 29, 1999) and Ditzik (US 5,983,073; iss. Nov. 9, 1999). *See* Final Act. 6.

Claim 20 stands rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett, Flores, Arai, and Wakisaka. *See* Final Act. 6–7.

Claims 21, 22, and 24 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Bennet and Arai. *See* Final Act. 7–8.[4]

Claim 23 stands rejected under 35 U.S.C. § 103(a) as unpatentable over Bennett, Arai, and Ditzik. *See* Final Act. 8–9.

## ANALYSIS

In rejecting claim 21, the Examiner finds Bennett discloses all the recited elements of the claim including "one user communication device . . . 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." Final Act. 7 ("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)"). The Examiner further relies on Arai as disclosing a double sided panel display unit and finds placing the individual displays into a single

[4] The Examiner inadvertently adds Flores to the applied prior art in this rejection, but does not rely on this reference. *See* Ans. 7–9; Br. 15–16.


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housing would have been obvious to one of ordinary skill in the art. Final Act. 4–5 (citing Arai Fig. 4, col. 1, ll. 10–19).

Appellants contend the Examiner's rejection is in error because the Office Action appears to cite Arai "against claim 1 as teaching two separate displays and then asserted against claim 21 as the two display devices (which is one device in *Arai*)" and asserting that it would have been "obvious to have two cameras, and a further inference or assertion is made that one display could be removed to have two cameras and a single display device (Even though the cited reference's display device did not teach how to have only a single side panel)." Br. 16. Appellants argue the cited portion of Arai describes "polarization and electronic shutters so only part of the displayed data may be viewed on each side of the single display device." *Id.* According to Appellants, "[t]here is no showing that one of ordinary skill in the art would look to radical display technology using polarization, shutters and electroluminescent panels to make a single display that displays data on both sides of single panel." Br. 17.[5]

In response, the Examiner finds that:

> Examiner argues that the purpose of detailing the 2 displays of Bennett, is to address the claim limitations pertaining to the first display device AND to explain, what will be modified in Bennett, by the Arai reference. To neglect that particular detail, would be deficient in developing a prima facie case of obviousness. It is necessary to show the 2 display setup in Bennett, in order to explain how the Arai reference teaches the concept of taking 2 displays with associated elements on each display, and merge into a single housing. Therefore, it is the combination of Bennett in view of Arai that teaches the

[5] We do not address Appellants' other contentions because this contention is dispositive of the issue on appeal.

> claim limitations; the cited combination now teaches a single housing with 2 sides.

Ans. 10. The Examiner further finds Arai "clearly show the concept of two individual displays and components into a single housing, as well as prior art system showing displays in a back-to-back format (Figs. 1, 2)." Ans. 11.

Based on a review of Bennett and Arai, we are persuaded by Appellants' contention that the Examiner has not explained how the communication system of Bennett (elements 13, 19, and 21 in Figure 1) teaches

> 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.

*See* Br. 13. In other words, it is not clear how the teaching of multiple computer systems of Bennett, as modified with the double-sided panel display of Arai, meets the above-mentioned disputed claim limitation because the Examiner has not identified any elements in these two references that allow the user to input visual information. *See also* Oral Hearing Transcript 22–23. As further pointed out by Appellants (Br. 18), claim 21 follows the invention recited in the claims of the patented parent case where a device having a single display allows the user to provide visual information through the first and the second input devices.

Therefore, Appellants' arguments have persuaded us of error in the Examiner's position with respect to the rejections of independent claim 21 and independent claims 1, 3, and 9, which recite similar limitations. The Examiner has not identified any teachings in the other applied prior art that

would make up for the above-mentioned deficiency. We, therefore, do not sustain the rejections of claims 1, 3, 9, and 21, as well as claims 4–8, 11–13, 15–20, and 22–24 dependent therefrom.

## DECISION

We reverse the Examiner's decision to reject claims 1, 3–9, 11–13, and 15–24.

## REVERSED


SAMSUNG EXHIBIT 1003, Page 837

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| 12/658,496 | 02/08/2010 | Robert Glen Klinefelter | GT012 | 8099 |

147182 7590 08/08/2019

Gregory B. Gulliver
1862 E. Belvidere Rd.
Unit 117
Grayslake, IL 60030

| EXAMINER | |
|---|---|
| OPSASNICK, MICHAEL N | |

| ART UNIT | PAPER NUMBER |
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BEFORE THE PATENT TRIAL AND APPEAL BOARD

---

*Ex parte* ROBERT GLEN KLINEFELTER and
GREGORY A. PICCIONELLI

---

Appeal 2018-003928
Application 12/658,496
Technology Center 2600

---

Oral Hearing Held: July 22, 2019

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Before MAHSHID D. SAADAT, LINZY T. McCARTNEY, and NORMAN H. BEAMER, *Administrative Patent Judges*.

A P P E A R A N C E S:

ON BEHALF OF APPELLANT:

GREGORY R. GULLIVER, ESQUIRE
APOGEE LAW GROUP P.C.
100 SOUTH ATKINSON ROAD
Suite 116-117
Grayslake, IL 60030
847-282-3551

GREGORY A. PICCIONELLI, ESQUIRE
PICCIONELLI & SARNO
30700 Russell Ranch Road
Suite 250
Westlake Village, CA 91361
747-220-6820

ALSO PRESENT: SHELDON BROWN, PHILLIP LEUNG, KONDAD WOHL, ROBERT KLIENFELTER

The above-entitled matter came on for hearing on Monday, July 22, 2019, commencing at 10:06 a.m., at the Silicon Valley U.S. Patent & Trademark Office, 26 South 4th Street, San Jose, CA 95112.



SAMSUNG EXHIBIT 1003, Page 840

(Proceedings begin at 10:06 a.m.)

MS FOX: Appeal No. 2018-003928, Mr. Gregory Gulliver, two inventors, and the externs.

JUDGE SADAAT: Thank you.

MS. FOX: Thank you.

JUDGE SAADAT: Please have a seat. Good morning.

Are you going to argue?

MR. GULLIVER: Yes, I'm going to argue. Should I just --

JUDGE SAADAT: Yes, please use the podium. Make sure the microphone is on. We have Judge McCartney --

AL (USPTO IT): It is on.

JUDGE SAADAT: Okay. Judge McCartney is participating from Alexandria, and --

MR. GULLIVER: And the camera is right there?

JUDGE SAADAT: Yes.

MR. GUILLIVER: Your Honor.

JUDGE SAADAT: And as usual, you have 20 minutes. We have the record before us. You can start whenever you're ready.

MR. GULLIVER: Okay. Good morning, Your Honors. Good morning. I'm here representing the inventors, Greg Piccionelli and Robert Klienfelter. Greg Piccionelli is a patent practitioner also and has a reg number; I'd like to point that out to the panel. And we're appealing the decision -- final decision of the examiner. And the technology of this case deals with a translation system and device that has audio

and video components.

And if I could just take one minute to have Mr. Piccionelli give a quick explanation of why that's really relevant to this invention, and then I'll get into the actual claim language and the rejection language.

JUDGE SAADAT: Okay.

MR. PICCIONELLI: Good morning, Your Honors.

JUDGE SAADAT: Good morning.

MR. PICCIONELLI: As Greg has indicated, I am -- I'm not here in a representative capacity. I happen to be a patent attorney as well, not practicing as much as before. I'm here actually as the inventor and I thought it would be a good idea to make a couple of statements regarding the motivation that myself and Bob had in the invention almost a generation ago now; almost 20 years ago.

The issue here is that --

JUDGE SAADAT: Mr. Piccionelli, you know, the whole thing would be part of your 20 minutes.

MR. GULLIVER: Yes.

MR. PICCIONELLI: Yes.

MR. GULLIVER: It's --

MR. PICCIONELLI: This will be very brief.

JUDGE SAADAT: I just want you to stay --

MR. PICCIONELLI: I think this will be --

JUDGE SAADAT: -- focused on.

MR. PICCIONELLI: -- about a minute-and-a-half or so.

JUDGE SAADAT: Perfect. Thank you.

MR. PICCIONELLI: It's important to, I believe, focus on the fact that the difference between communication that is text alone and communication that enables the communication of visual information; such as facial expressions, body language, et cetera, is enormous.

It's well-known that, you known, we've evolved, essentially, to communicate visually through our face. And this is one of the -- it's been theorized that this is the reason why the musculature of the face as the greatest number of muscles and variation of types of muscles for communication purposes.

And the sign language and lip-reading ability requires non-textural, visual communication. I think it's important to be focused on that because that was the purpose of our invention. We realized that text alone, which was how visual communication was done in the early 2000s, would not be able to communicate this additional nuance type of communication that was necessary to effectively communicate the spectrum of information in human communication for translation purposes.

Consequently, we endeavored to provide systems and devices that would have effectuate that method of communicating non-textural, other types of visual communication; such as body language, gestures, and facial communication. So from the device perspective, the way we did it was what we believe was a non-obvious and novel way of

opposite disposed cameras and opposite disposed screens and various combinations that would enable that visual information, gestures, facial expression, et cetera to be transmitted in real time or near real time to a translator.

And so in reviewing the examiner's rejection and the prior art that has been presented, the -- what strikes me -- and that's -- this is one of the reasons why I'm speaking here -- is that the person of ordinary skill in the art, if disposed to solve the same problem we were, which is to -- how to more effectively communicate this other area of communication that can only be communicated by -- effectively, by visual information; how could we do that?

And a person of ordinary skill in the art, I believe, would not be appropriately incentivized or taught by the prior art, which is focused exclusively or nearly exclusively on textural information. And similarly, for example, if the input device is a camera, it seems to me that if you're looking at textural information, textural displays with the input device, it would be obvious. It would be something like a keyboard and not a camera or a microphone.

So in closing, what I'm -- what -- the point was we were specifically trying to create a better translation device by developing a non-textural way of communicating this additional information that is so much more nuanced and -- to communicate the broader amount of the information, to more effectively allow a translator to more effectively translate.

JUDGE SAADAT: Okay.

MR. GULLIVER: Okay. And now to get into the reason why we're here, is the rejection and the actual claim language.

I'd like to start by saying in over 20 years I've never had a claim come out of the patent office with a rejection having the number of issues that Claim 21 has. And the claim has been in its state for the non-final office action, for the final office action, for the pre-appeal brief conference, and finally; we're here before you.

So I'd like to start with addressing Claim 21, which was on Page 7 of the final office action.

JUDGE SAADAT: Isn't that the natural progression of --

MR. GULLIVER: It is the natural progression, but --

JUDGE SAADAT: -- prosecution?

MR. GULLIVER: -- when you have a claim where claim elements have been read out of the claim, claims elements have been read into the claim, a reference is being cited, but not used. And then the motivation combined is tenuous, if at that, all in one claim. That's a lot to go on. Either I'm a very bad practitioner or something has gone wrong with this claim. So we're very happy to be here and be here in person to explain our view of what's happening.

And I will say, in general, the examiner corps is awesome. I work with a number of really great examiners, so I'm not saying examiners are awful or bad or anything. I'm just saying something's happened with this Claim 21 that I

hope the panel here can address.

Claim 21 requires a first input means for off -- whoops, let me get to Claim 21 here. Claim 21 requires at least one communication device comprised and housing having a first and second side, at least one first input device and first display device configured that at least one -- that at least one user to input and output visual information. So visual information needs to be inputted.

So when we look at the rejection, we have Bennett cited to teach multiple display devices, hence the concept of a second multiple terminals display. Though when reading through that, well, we need visual input. That's not Bennett. And we have multiple terminal displays. Claim 21 has one display. Why are we being cited for a second multiple display in the rejection?

And Bennett can handle input and output. Bennett is text-based. It does not have any visual input, so how can it handle visual? So that point alone I was wondering what's going on and I addressed it all along up to this panel here. Bennett does not explicitly teach wherein that at least one second input device resides on the second side of a housing, where the first and second -- he's read out the whole visual component out of the claims. And it appears he's read in the second display. Because we get down further in the rejection to discuss Arai.

It teaches a double-sided panel display unit. Claim 21 does not have two displays. It would have been obvious to

one skilled in the art at the time of the invention to place individual displays into a single housing back to back. The claim has one display. His reason for combination is two displays. Because it would be advantageous to provide the same information to both sides of a panel display and a face-to-face transection.

That's the rejection of Claim 21. He's read in requirement of the double panel, he has read out visual information. As we look to where he cites anything for visual information, that was the Ditzik reference, and that's basically a laptop with a camera. And we do cite a camera in Claim 23, which is a dependent claim, which he says "Ditzik teaches," -- with regards on Page 8 to Claim 23, "a display containing camera capabilities." The display in Ditzik does not contain a camera. A housing contains a camera. So even in that rejection, they're saying the display has the camera, which is taking the reference out of context.

I'd like to discuss the use of Arai, going back to Claim 21, that it teaches a double-sided panel display unit. It teaches a single display that has an LCD panel displaying information on both sides of the single display panel using filtering. And if you look at Column 3 and Column 4, Lines -- I believe it was, 32 or 35 to 40; it's limited to text only. It's hard to get visual information, as the specification explains; facial, visual information, that's pictures, on a display that only is used for text.

Regarding text only, the Bennett reference is text

only. There's no graphical components. The Arai display, single LCD panel display is text only. Doesn't have graphical capabilities. The Flores reference, once again, is text only. The only thing that has the visual input is the Ditzik, and why would you ever combine that with any of these references which are dealing with text?

JUDGE SAADAT: Why does Arai in the abstract mentions visual images can be displayed on both sides?

MR. GULLIVER: Well, when you read the actual explanation, it's limited to fonts. If you look at Column 2 and column -- I'm sorry, Column 3 and Column 4, there's two mentions in the actual explanation of how it's limited to text. And in the background -- or the summary, it also discussed how it -- so people can read text on both sides and it's the same text being displayed.

So if you look to Column 3 -- and please, if you have any questions, interrupt me. I'd like to address any concerns or questions you have.

JUDGE SAADAT: Thank you.

MR. GULLIVER: Starting at 35; and accordingly, the substrate of a single-sided panel display is transparent. In this instance the trans is formed in ITO and a plurality of anodes -- to its display area. The single-side has two long display areas, each capable of producing 20 fonts, and each of the fonts is formed by 35 dots, a comma, and a decimal.

If we look across from that to Column 4, "Font data indicative of visual images" -- so it's font data, which are

their visual images -- "have been already memorized in the character generator unit." So it's dealing with text only, and that's because the panel was supposed to have text on both sides so people could see it, but it's a single LCD panel displaying the text. So it has predefined and prestored text that is being used.

And that also fits in with the reason of why Arai was using that approach. He was trying to minimize, which it states in the reference, the number of components. By predefining everything it helped minimize the components they used. While we're on the topic of Arai, one skilled in the art wasn't ascertained and Arai is a very technical, almost to the silicon level, of implementing a liquid crystal display.

One building a device for translation would not look to a device that that's really complicated; adding the filtering to a single panel. Not to mention we say we have a display on a first side of a housing and a second side of a housing. This single panel would have to be in the middle of the housing. Viewable from both sides, but our claim doesn't say viewable.

JUDGE SAADAT: If the combination produces a -- an arrangement that includes additional elements, more than what the claim requires, would that be detrimental to the combination?

MR. GULLIVER: We're dealing with a '103 rejection, so you can have extra elements, you know, when you're combing reference and you need the suggestion, but you still have a

limit on that of one skilled in the art at the time of the invention.

And as I started out in my brief, I pointed we're talking about back in 2000, so way back. And this single LCD display of Arai was, I believe, about ten years previous to that, which has had no commercial use or success that I could find or know of when I did some general searching. So over time it's -- normally you don't want to use hindsight, but looking at the reference of one skilled in the art, look at this technology; which even in 2000 was around for a number of years and not used by anybody.

Even if they had the level of skill required in Arai, they would have known not to use it. And without that level of skill, they would have looked for something a little simpler and easier to build the device. So my answer – my simple answer is you are correct with what you were saying. You can have more stuff when you combine. And the references have to be viewed combined. I can't just say this doesn't show this, this -- we have to look at the combination. I acknowledge that and I see that.

But here going back to the claim language of Claim 21, we don't have any reference cited supplying visual information.

JUDGE SAADAT: So you're saying displaying font characters is different from visual information?

MR. GULLIVER: Yes.

JUDGE SAADAT: Even if fonts are arranged in a way

that creates --

MR. GULLIVER: If you're going to --

JUDGE SAADAT: -- an image?

MR. GULLIVER: Yeah. If you're going to add a camera to Arai, you're now getting visual information, but it can't be displayed. I mean, every reference, except Ditzik, which is the camera reference, is all text-based. There has to be some possibility or capability taught to display that visual information.

Just saying you have a -- I'm sorry, Your Honor.

JUDGE SAADAT: Oh, go ahead. Finish what you were saying.

MR. GULLIVER: Yeah. Just saying you have a display in a – can only display text and you don't mention that in the rejection and you don't address it, doesn't mean it's teaching a graphical display.

JUDGE SAADAT: For example, Claim 23, which depends from 21, further limits the input device as a camera, so claim 21 is supposed to be broader than Claim 23.

MR. GULLIVER: Right. So you can use other --

JUDGE SAADAT: Input devices and the images --

MR. GULLIVER: Yeah. That includes visual data. I mean, there's light arc, back then there was even the distance and motion sensor type. I have a Hiroba from 1983 from Heathkit that could determine distance using visual information. So there are other ways to get visual information. So it is broader. You're not just limited to a

camera in Claim 21, you are correct.

JUDGE SAADAT: Okay. Thank you.

MR. GULLIVER: You're welcome. I think I've about covered that claim. The only other thing is when we did add the second display -- and this kind of transitions us to talking about independent Claim 1, 3, and 9; where we have two methods of inputting data including visual data, the claims do call out visual data in those claims, also have two displays.

And once again, we're using Arai to try to say, well, it'd be obvious to have two cameras because you have two displays, which I still assert it's a single LCD panel display. And in 2000 -- the rejection went on to say it would have been obvious to have two cameras because you have two displays in Arai, which what's obvious in 2000 is to have a text input, to have another keyboard. Cameras were not present. You add another display, you add another terminal, back in 2000, you'd add a keyboard. You wouldn't be thinking to add a camera.

Nowadays in 2016 when this claim was amended -- actually this claim wasn't amended. This claim was there pretty much all along. You would not look to a camera as an input device if you're adding an input device. It is not obvious. Cameras were only on one side of a device. So to say that, oh, yeah, we put in another display, therefore it's obvious to have another camera; back in 2000 it was not obvious. You did not find devices with two cameras. If you did, he would have found it in his search.

This application has been pending for almost 20 years. There's very little term left without term extension, which is why we're happy we're able to present this to you because we have now spent three or four years with the current set of claims dealing with rejections that don't ascertain the level of skill in the art. That have text-based references being combined with a camera and saying, look, now you have graphics. Back in 2000, life didn't work like that. Back in 2000, people were using the VT 100s and 102 terminals; which I don't know if anyone in this room has had the opportunity. Now I'm showing my age.

But, you know, when the inventors started this, they had hair. I mean, we're all getting up there and the health of one of the inventors is not the greatest. I mean, we do have a petition to make special in this case, which makes my frustration even more with the rejection we have. I mean, if you can't find references, don't make them up. Just let the case. Don't try to drag the case out until the term expires. And I don't know if that's happening here.

I'm not accusing anyone in doing that, but the term's running out. And if there's a valid rejection, fine; but I can't address the claims when stuff is being read into them and read out of them. But we ask this panel to find that the examiner's rejections have been overcome with our current claims and their condition for allowance.

JUDGE SAADAT: Okay. The 20 minutes is up. Judge McCartney or Judge Beamer, do you have any questions?

JUDGE BEAMER: Why is --

JUDGE SAADAT: Go ahead.

JUDGE BEAMER: Why is the display of text not visual information?

MR. GULLIVER: Because the way the specification defined visual information, it's coming from seeing facial expressions, and you have to look to the text for how the terms were defined and used. You can't say, okay, I have visual information coming in via, ultimately, a camera -- you know, we do go broader -- and then switch that visual information and say it's text information now, in the same claim. You have to have a consistency going through the claim.

JUDGE MCCARTNEY: Where do you find that definition in the specification?

MR. GULLIVER: Can you -- I'll let Mr. Piccionelli look that up and answer other questions too. If not, I'll help him look for it. I know we're a little long on time, so.

JUDGE SAADAT: That's okay. I just wanted to give you perspective of the time.

MR. GULLIVER: Yeah.

JUDGE SAADAT: I mean, the terminology is using Arai visual image and --

MR. GULLIVER: Correct. They use the terminology, and for a word search it would pop up, but you have to look at the technology that's being used. What is their visual information? And that's where, you know, if they had anything

that was graphical, then yeah. But they throughout the whole specification talk about text, fonts, and --

JUDGE SAADAT: What part of Claim 21 limits the visual information to only, for example, pictures; but excludes fonts or text?

MR. GULLIVER: For the visual information inputted or displayed? You're talking displayed?

JUDGE SAADAT: Well --

MR. GULLIVER: Because --

JUDGE SAADAT: -- what the claim has.

MR. GULLIVER: Well, the claim has both. I believe we have --

JUDGE SAADAT: The input device and first display device configure to allow at least one user to input and output visual information.

MR. GULLIVER: Yeah. So we have a first input device and first display. I could argue -- well, I am arguing that displaying visual information can be displaying text, but inputting visual information is where in this application for our applicants, they have -- which he is still looking for -- to have visual information dealing with a person's face, which is basically a picture or a video. There are some other type of visual. And that's a --

JUDGE MCCARTNEY: Let's assume for a second there's no definition in your spec that limits visual information to image of your face or anything like that. Is there any extrinsic evidence in this record that would do so?

MR. GULLIVER: For -- extrinsic evidence?

JUDGE MCCARTNEY: A particular definition any other -- outside of the patent itself that would -- or application itself that would limit the term in the manner that you're requesting?

MR. GULLIVER: Okay. I just want to make sure I get the -- limiting the term being used for input to be the same as being used for output.

JUDGE MCCARTNEY: No. Sorry. It seems to me part of what you were arguing is that visual information -- inputted visual information does not include inputting text; is that correct?

MR. GULLIVER: That is correct.

JUDGE MCCARTNEY: My question then -- I guess, in two parts, is then, you mentioned in your response to Judge Beamer that the specification limited visual information in that way and I guess, I've yet to hear a citation that supports that.

But putting that aside for a second, is there anything else in the record, additional definition, any other evidence of record that would limit that term in the way you suggested?

MR. PICCIONELLI: Ma'am, may I respond?

JUDGE SAADAT: Please. Go ahead.

MR. PICCIONELLI: Essentially -- thank you. Essentially, I was looking for a specific definition of visual information to be constrained to visual communication. The --

what the specification does is it is a translation system, is what is described, and it's -- and the translation system involves live human beings.

And since live human beings are the -- what's implicit, I think, throughout the spec in a number of places, is that it is reciting the improvement on a system of live interpretation. And live interpretation particularly in the areas of, for example, sign language interpretation; and sign language is not textural by nature. So while there isn't, as far as I can find, a specific definition of visual information to be constrained to visual information being facial information, body gestures, et cetera, it is a -- it is implicit and even in some places explicit in the text, that -- of the spec that we're talking about translation of the form that is done traditionally by sign language interpreters live, but utilizing this system and these devices to be able to do it at a distance in real time or substantial real time.

And that I think is -- if not explicit in the spec, it certainly is -- it is implicit through the frequent recitation of other systems and why our system is an improvement thereupon.

MR. GULLIVER: And I'd like to mention also, if you remove the input of visual information, just put input of information, that's broader because there's term there, it has to be more limiting. So if you remove visual, which has been read out in the rejection, it's just input and output, that would have to include text. If input of visual information,

it has to be some visual information going in.

Now, on the display, I disagree with changing the term to say a font is a graphical representation, but to Your Honor McCartney's comment, it is built with pixels, it is built like a graphic would be. I will concede that. So you are dealing with some pixels making a little (indiscernible) image of a text, yes. But I go back to if you don't read the word visual out, it has to have some meaning, besides just all input, since we have audible audio and video input in Claims 1, 3, and 9.

So we have to give that some meaning. And in light of the spec, when you read the whole spec, would one skilled in the art have an understanding that visual was something that can be brought in through device such as a camera or a light arc, something like that; because it is limiting.

MR. PICCIONELLI: The figures also — I believe a fair interpretation of the figures indicate non-textual information input because what you're looking at is if you look at the figures, you have stick figures that have faces and bodies, and that is the information that is being captured for this purpose. You don't -- we're not talking about textural information.

MR. GULLIVER: So it is supported by the figures, which are part of the specification.

JUDGE SAADAT: Why specific terms were not added to the claim?

MR. GULLIVER: I believe the visual was added to the



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claim to overcome text. I'd have to look back further in the prosecution history than I have, since I think that happened in the iteration prior to 2016. But I will check since I do have -- I think I seem to remember adding the visual to get over just the text component and I would have explained that also in the office action then.

So I believe --

JUDGE SAADAT: These are images of the person or parties involved that you're talking about?

MR. GULLIVER: Yeah. The face, the body. The -- Figure 6 shows bodies in the displays from the -- being the visual information. Figure 2 shows the bodies being displayed.

JUDGE SAADAT: Did anyone suggest -- did the examiner suggest adding or amending the claim in a particular way?

MR. GULLIVER: No. The examiner pretty much gave the same rejection, cut and paste all the way along.

JUDGE SAADAT: Okay.

MR. GULLIVER: To the point of Flores being cited and not used.

JUDGE SAADAT: At this point if there are no more questions, I think you have presented your case. We have all the information.

MR. GULLIVER: Thank you so much for your time and for listening to us.

JUDGE BEAMER: Thank you.

JUDGE SAADAT: Thank you.

MR. GULLIVER: Thank you, Your Honors.

JUDGE SAADAT: Have a good day.

MR. GULLIVER: Thank you. You too, now.

(Hearing concluded at 10:41 a.m.)



SAMSUNG EXHIBIT 1003, Page 860

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147182 7590 10/23/2019

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| EXAMINER |
|---|
| OPSASNICK, MICHAEL N |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2658 | |

DATE MAILED: 10/23/2019

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

TITLE OF INVENTION: System, method, and apparatus for providing interpretive communication on a network

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
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|---|---|---|---|---|
| 12/658,496 | 02/08/2010 | Robert Glen Klinefelter | GT012 | 8099 |

TITLE OF INVENTION: System, method, and apparatus for providing interpretive communication on a network

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|---|---|---|---|---|---|
| nonprovisional | SMALL | $500 | $0.00 | $0.00 | $500 | 01/23/2020 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|---|---|---|
| OPSASNICK, MICHAEL N | 2658 | 704-270100 |

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

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

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

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

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

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

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

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

SAMSUNG EXHIBIT 1003, Page 865

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 |

147182 7590 10/23/2019

Gregory B. Gulliver
1862 E. Belvidere Rd.
Unit 117
Grayslake, IL 60030

| EXAMINER | |
|---|---|
| OPSASNICK, MICHAEL N | |
| ART UNIT | PAPER NUMBER |
| 2658 | |

DATE MAILED: 10/23/2019

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

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

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

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

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

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

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

## Privacy Act Statement

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

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

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

SAMSUNG EXHIBIT 1003, Page 867

| Notice of Allowability | Application No. 12/658,496 | Applicant(s) Klinefelter et al. | |
|---|---|---|---|
| | Examiner Michael N Opsasnick | Art Unit 2658 | AIA (FITF) Status No |

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to BPAI decision 8/12/2019.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 1,3-9 and 11-13,15--24 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

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

   **Certified copies:**

   a) ☐ All  b) ☐ Some  *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   **Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☑ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Michael N Opsasnick/
Primary Examiner, Art Unit 2658

| *Applicant-Initiated Interview Summary* | **Application No.** 12/658,496 | **Applicant(s)** Klinefelter et al. | |
|---|---|---|---|
| | **Examiner** Michael N Opsasnick | **Art Unit** 2658 | **AIA (FITF) Status** No |

All participants (applicant, applicants representative, PTO personnel):

(1) Michael N. Opsasnick. (3) _____.

(2) Mr. Gregory Gulliver. (4) _____.

Date of Interview: 16 October 2019.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☑Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 19.

Identification of prior art discussed: N/A.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Examiner, via voicemail, explained the waiting period post-BPAI decision, and notified applicant that a Notice of Allowability is being submitted on 10/16/2019.

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

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

☐ Attachment

| /Michael N Opsasnick/<br>Primary Examiner, Art Unit 2658 | |
|---|---|

# Summary of Record of Interview Requirements

**Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record**
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

**Title 37 Code of Federal Regulations (CFR) 1.133 Interviews**
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

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The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

**Examiner to Check for Accuracy**

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 12/658,496 | Klinefelter et al. |
| | **Examiner** | **Art Unit** |
| | Michael N Opsasnick | 2658 |

| CPC | | | | | | |
|---|---|---|---|---|---|---|
| **Symbol** | | | | | **Type** | **Version** |
| H04R | / | 25 | / | 70 | F | 2013-01-01 |
| G06Q | / | 10 | / | 10 | I | 2013-01-01 |
| H04L | / | 29 | / | 06027 | I | 2013-01-01 |
| H04R | / | 2225 | / | 55 | A | 2013-01-01 |

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

| NONE | | Total Claims Allowed: | |
|---|---|---|---|
| (Assistant Examiner) | (Date) | 21 | |
| /Michael N Opsasnick/<br>Primary Examiner, Art Unit 2658 | 15 October 2019 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 2 | 3 |

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 12/658,496 | Klinefelter et al. |
| | **Examiner** | **Art Unit** |
| | Michael N Opsasnick | 2658 |

| INTERNATIONAL CLASSIFICATION | | | | | |
|---|---|---|---|---|---|
| **CLAIMED** | | | | | |
| H04R | / | 25 | / | 00 | |

| NON-CLAIMED | | | | | |
|---|---|---|---|---|---|
| | / | | / | | |

| US ORIGINAL CLASSIFICATION | |
|---|---|
| **CLASS** | **SUBCLASS** |
| | |

| CROSS REFERENCES(S) | | | | | | |
|---|---|---|---|---|---|---|
| **CLASS** | **SUBCLASS (ONE SUBCLASS PER BLOCK)** | | | | | |
| | | | | | | |

| NONE | | **Total Claims Allowed:** | |
|---|---|---|---|
| (Assistant Examiner) | (Date) | 21 | |
| /Michael N Opsasnick/<br>Primary Examiner, Art Unit 2658 | 15 October 2019 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 2 | 3 |

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 12/658,496 | Klinefelter et al. |
| | **Examiner** | **Art Unit** |
| | Michael N Opsasnick | 2658 |

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

**CLAIMS**

| Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
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|---|---|---|---|
| NONE | | **Total Claims Allowed:** | |
| (Assistant Examiner) | (Date) | 21 | |
| /Michael N Opsasnick/<br>Primary Examiner, Art Unit 2658 | 15 October 2019 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 2 | 3 |

| Search Notes | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 12/658,496 | Klinefelter et al. |
| | Examiner | Art Unit |
| | Michael N Opsasnick | 2658 |

| CPC - Searched* | | |
|---|---|---|
| Symbol | Date | Examiner |
| H04R25/70 | 10/15/2019 | mno |

| CPC Combination Sets - Searched* | | |
|---|---|---|
| Symbol | Date | Examiner |
| | | |

| US Classification - Searched* | | | |
|---|---|---|---|
| Class | Subclass | Date | Examiner |
| 704 | 271 | 03/17/2017 | mno |
| 379 | 52 | 03/17/2017 | mno |
| 340 | 825.19 | 03/17/2017 | mno |

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

| Search Notes | | |
|---|---|---|
| Search Notes | Date | Examiner |
| west search; 101;odp | 10/15/2019 | /m.n.o./ |

| Interference Search | | | |
|---|---|---|---|
| US Class/CPC Symbol | US Subclass/CPC Group | Date | Examiner |
| h04r25/70 | | 10/15/2019 | /m.o.n./ |
| | | | |

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 12/658,496 | Klinefelter et al. |
| | **Examiner** | **Art Unit** |
| | Michael N Opsasnick | 2658 |

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

**CLAIMS**

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

| CLAIM | | DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Final | Original | 10/15/2019 | 10/15/2019 | 10/15/2019 | 10/15/2019 | 10/15/2019 | 10/15/2019 | | | |
| | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 2 | - | - | - | - | - | - | | | |
| | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 4 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 5 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 6 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 7 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 8 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 9 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 10 | ✓ | ✓ | - | - | - | - | | | |
| | 11 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 12 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 13 | ✓ | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 14 | ✓ | ✓ | - | - | - | - | | | |
| | 15 | | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 16 | | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 17 | | ✓ | ✓ | ✓ | ✓ | = | | | |
| | 18 | | | ✓ | ✓ | ✓ | = | | | |
| | 19 | | | ✓ | ✓ | ✓ | = | | | |
| | 20 | | | ✓ | ✓ | ✓ | = | | | |
| | 21 | | | ✓ | ✓ | ✓ | = | | | |
| | 22 | | | ✓ | ✓ | ✓ | = | | | |
| | 23 | | | ✓ | ✓ | ✓ | = | | | |
| | 24 | | | | | | = | | | |
| | | | | | | | | | | |

# WEST Search History for Application 12658496

## Creation Date: 2019101507:58

## 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 |

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|---|---|---|---|---|---|---|
| **((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 |

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|---|---|---|---|---|---|---|
| **((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 interpretor 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 |

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| **((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 |
| **((interpret $ 6 near10 (select $ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.** | PGPB, USPT | 169 | OR | YES | | 02-20-2017 |
| **((interpret $ 6 near10 (select $ 3 or choose or chosen or choosing)) and user and second and** | PGPB, USPT | 60 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| **network and communication and service).clm.** | | | | | | |
| **((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 | | 02-20-2017 |
| **((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 | | 02-20-2017 |
| **((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 | | 02-20-2017 |
| **5926787.pn.** | PGPB, USPT | 1 | OR | YES | | 02-20-2017 |
| **(5926787.pn.) and translat $** | PGPB, USPT | 1 | OR | YES | | 02-20-2017 |
| **((interpret $ 6 near10 (select $ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.** | PGPB, USPT | 172 | OR | YES | | 03-17-2017 |
| **((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 | | 03-17-2017 |
| **((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 | | 03-17-2017 |
| **((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 | | 03-17-2017 |
| **((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 | | 03-17-2017 |
| **5926787.pn.** | PGPB, USPT | 1 | OR | YES | | 03-17-2017 |
| **(5926787.pn.) and translat $** | PGPB, USPT | 1 | OR | YES | | 03-17-2017 |
| **((interpret $ 6 near10 (select $ 3 or choose or chosen or choosing)) and user and second and network and communication).clm.** | PGPB, USPT | 200 | OR | YES | | 10-15-2019 |
| | | 64 | OR | YES | | 10-15-2019 |

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| **((interpret $ 6 near10 (select $ 3 or choose or chosen or choosing)) and user and second and network and communication and service).clm.** | PGPB, USPT | | | | | |
| **((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 | | 10-15-2019 |
| **((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 | | 10-15-2019 |
| **((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 | | 10-15-2019 |
| **5926787.pn.** | PGPB, USPT | 1 | OR | YES | | 10-15-2019 |
| **(5926787.pn.) and translat $** | PGPB, USPT | 1 | OR | YES | | 10-15-2019 |

## Prior Art Searches

| Query | DB | Hits | Op. | Plur. | Thes. | Date |
|---|---|---|---|---|---|---|
| **(image near7 interpret$4)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **((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 |

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|---|---|---|---|---|---|---|
| **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 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) ) and (impair$ or handicap$)** | USPT | n/a | OR | YES | | 04-07-2011 |
| **(impair$ 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 |
| | USPT | n/a | OR | YES | | 04-07-2011 |

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|---|---|---|---|---|---|---|
| **((((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) )** | | | | | | |
| **((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.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **(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** | PGPB, | n/a | OR | YES | | 04-07-2011 |

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|---|---|---|---|---|---|---|
| **\|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$2))) and network )** | USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **interpret$ 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$2 ) and (second near5 user) and (second near5 computer) and human** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **(interpret$ near10 service$2 and (second near5 user) and (second near5 computer) and human ) and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **(second near5 user) and (second near5 computer) and (operator) and interpret$** | 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, | n/a | OR | YES | | 04-07-2011 |

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|---|---|---|---|---|---|---|
| | 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 | | 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$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 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 |

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| **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$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multilingual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **(operator and interpret$ 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, | n/a | OR | YES | | 04-07-2011 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **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 |
| | | n/a | 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))** | 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 | | 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$5 near7 operator) and (language or lingual or translat$) ) 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 | | 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 | 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** | USPT | n/a | OR | YES | | 04-07-2011 |

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| **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 | | 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))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 04-07-2011 |
| **(((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, | n/a | OR | YES | | 04-07-2011 |

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|---|---|---|---|---|---|---|
| | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(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$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(double near7 sided near7 screen)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **((double near7 sided near7 screen) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, | n/a | OR | YES | | 09-28-2011 |

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|---|---|---|---|---|---|---|
| | TDBD | | | | | |
| **(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$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **((first near5 user near5 computer) ) and (language and interpret$ )** | 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 |

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|---|---|---|---|---|---|---|
| **((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, | n/a | OR | YES | | 09-28-2011 |

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|---|---|---|---|---|---|---|
| | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(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 \|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$2))) and network )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **interpret$ near10 service$2** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, | n/a | OR | YES | | 09-28-2011 |

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| | TDBD | | | | | |
| **(interpret$ near10 service$2 and (second near5 user) and (second near5 computer) and human ) and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(second near5 user) and (second near5 computer) and (operator) and interpret$** | 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$ )** | USPT | n/a | OR | YES | | 09-28-2011 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ )** | 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)** | 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 |

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| **((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 multiligual** | PGPB, USPT, USOC, EPAB, | n/a | OR | YES | | 09-28-2011 |

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| | JPAB, DWPI, TDBD | | | | | |
| **operator and interpret$ and (language or linguistic) and impair$4 and multilingual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **(operator and interpret$ 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, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **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** | | n/a | OR | YES | | 09-28-2011 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **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 |
| **(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 | | 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 | 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** | PGPB, USPT, USOC, EPAB, | n/a | OR | YES | | 09-28-2011 |

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| **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 | | 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 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 | | 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 | 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))** | | n/a | OR | YES | | 09-28-2011 |

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| | 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 | | 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, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 09-28-2011 |
| **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, | n/a | OR | YES | | 05-19-2012 |

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| | JPAB, DWPI, TDBD | | | | | |
| **(((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$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **((dual or double) adj3 side$) 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 |
| | | n/a | OR | YES | | 05-19-2012 |

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| **((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$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **(double near7 sided near7 screen)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **((double near7 sided near7 screen) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | 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, | n/a | OR | YES | | 05-19-2012 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **(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** | USPT | n/a | OR | YES | | 05-19-2012 |

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| **((communicat$ near5 each near5 other))** | | | | | | |
| **(((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, | n/a | OR | YES | | 05-19-2012 |

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| | 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. ) )** | 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$2** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **(interpret$ 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, | n/a | OR | YES | | 05-19-2012 |

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| | EPAB, JPAB, DWPI, TDBD | | | | | |
| **((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$ and (language or linguistic) ) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **operator and interpret$ 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, | n/a | OR | YES | | 05-19-2012 |

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| | DWPI, TDBD | | | | | |
| **(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, TDBD | n/a | OR | YES | | 05-19-2012 |
| **2003009725$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **operator and interpret$ 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, | n/a | OR | YES | | 05-19-2012 |

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| | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **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, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **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, | n/a | OR | YES | | 05-19-2012 |

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| | TDBD | | | | | |
| **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** | USPT | n/a | OR | YES | | 05-19-2012 |

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|---|---|---|---|---|---|---|
| **operator) and (language or lingual or translat$) and interpret$5 )** | | | | | | |
| **(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, DWPI, TDBD | n/a | OR | YES | | 05-19-2012 |
| **((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 |

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| **(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, USOC, EPAB, JPAB, DWPI, TDBD | n/a | 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 | 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, | n/a | OR | YES | | 10-23-2012 |

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| | JPAB, DWPI, TDBD | | | | | |
| **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, TDBD | n/a | 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 | 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.** | | n/a | OR | YES | | 10-23-2012 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **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, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **(((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, | n/a | OR | YES | | 10-23-2012 |

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| | JPAB, DWPI, TDBD | | | | | |
| **(((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 |
| | | n/a | OR | YES | | 10-23-2012 |

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| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(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, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **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, | n/a | OR | YES | | 10-23-2012 |

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| | JPAB, DWPI, TDBD | | | | | |
| **((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, | n/a | OR | YES | | 10-23-2012 |

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|---|---|---|---|---|---|---|
| | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(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, 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. ) ) 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, | n/a | OR | YES | | 10-23-2012 |

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| | TDBD | | | | | |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **(interpret$ 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 |

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| **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$4 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **(009275 ) and yamada.in.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **yamada.in. and interview** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **2003009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **20030097 25$** | PGPB, USPT, USOC, EPAB, | n/a | OR | YES | | 10-23-2012 |

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| | JPAB, DWPI, TDBD | | | | | |
| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **operator and interpret$ 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.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | n/a | OR | YES | | 10-23-2012 |
| **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** | | n/a | OR | YES | | 10-23-2012 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **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, 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))** | 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** | PGPB, USPT, USOC, EPAB, | n/a | OR | YES | | 10-23-2012 |

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| **translat$)** | 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 | 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))** | | n/a | OR | YES | | 10-23-2012 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **((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, TDBD | n/a | OR | YES | | 10-23-2012 |
| **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, | 3 | OR | YES | | 11-11-2016 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **((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, EPAB, JPAB, DWPI, TDBD | 1570 | OR | YES | | 11-11-2016 |
| **((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.** | | 2 | OR | YES | | 11-11-2016 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **((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, | 141 | OR | YES | | 11-11-2016 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **(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$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4 | OR | YES | | 11-11-2016 |
| **(double near7 sided near7 screen)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1608 | OR | YES | | 11-11-2016 |
| **((double near7 sided near7 screen) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 177 | OR | YES | | 11-11-2016 |
| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 11-11-2016 |
| **(image near7 interpret$4)** | | 33787 | OR | YES | | 11-11-2016 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **((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$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 456751 | OR | YES | | 11-11-2016 |
| **((first near5 user near5 computer) ) and (language and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 9959 | OR | YES | | 11-11-2016 |
| **((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 |
| | USPT | 56 | OR | YES | | 11-11-2016 |

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|---|---|---|---|---|---|---|
| **((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 | 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 (blind or (visual$3 near5 impair$2))) and network and (impair$ or handicap$) and interpret$ and (second near5 user) and (second near5 computer) )** | USPT | 20 | OR | YES | | 11-11-2016 |
| **((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, | 754 | OR | YES | | 11-11-2016 |

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| | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(((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$2** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 18320 | OR | YES | | 11-11-2016 |
| **(interpret$ 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, | 364 | OR | YES | | 11-11-2016 |

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| | TDBD | | | | | |
| **(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, EPAB, JPAB, DWPI, TDBD | 5942 | OR | YES | | 11-11-2016 |
| **((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 |

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| **((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 multiligual** | PGPB, USPT, USOC, EPAB, | 0 | OR | YES | | 11-11-2016 |

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| | JPAB, DWPI, TDBD | | | | | |
| **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, JPAB, DWPI, TDBD | 2 | OR | YES | | 11-11-2016 |
| **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** | | 1 | OR | YES | | 11-11-2016 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **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 |
| **((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 | 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$5 near7 operator) ) and (language or lingual or translat$)** | 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** | PGPB, USPT, USOC, EPAB, | 0 | OR | YES | | 11-11-2016 |

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| **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 | 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 match$4 near7 (operator or (director$3 near7 assistan$3)))** | USPT | 65 | 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 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))** | | 389 | OR | YES | | 11-11-2016 |

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| | 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 | 123 | OR | YES | | 11-11-2016 |
| **(match$3 near7 (interpreter or operator))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 19517 | OR | YES | | 11-11-2016 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 11-11-2016 |
| **(((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 113 | OR | YES | | 11-11-2016 |
| **((((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4)) ) 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, | 14 | OR | YES | | 11-11-2016 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD, FPRS | | | | | |
| **((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, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 11-11-2016 |
| **(5983073.pn. ) and display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 1 | OR | YES | | 11-11-2016 |
| **5926787** | PGPB, USPT, | 34 | OR | YES | | 11-11-2016 |

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|---|---|---|---|---|---|---|
| | USOC, EPAB, JPAB, DWPI, TDBD, FPRS | | | | | |
| **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 |

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| **(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, FPRS | 4 | 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 |

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| | FPRS | | | | | |
| **(display near7 camera) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 27038 | OR | YES | | 02-20-2017 |
| **5917944.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 02-20-2017 |
| **((display near7 camera) and @ad<20001025 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2098 | OR | YES | | 02-20-2017 |
| **((display near7 camera) and @ad<20001025 and microphon$ ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1229 | OR | YES | | 02-20-2017 |
| **((display near7 camera) and @ad<20001025 and microphon$ ) and ((speech or voice) near10 recogni$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 448 | OR | YES | | 02-20-2017 |
| **(camera adj5 (embedd$5 or built or contain$3) adj5 (display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1612 | OR | YES | | 02-20-2017 |
| **((camera adj5 (embedd$5 or built or contain$3) adj5 (display)) ) and ((display near7 camera) and @ad<20001025 and** | PGPB, USPT, USOC, | 5 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| **microphon$ and ((speech or voice) near10 recogni$) )** | EPAB, JPAB, DWPI, TDBD | | | | | |
| **6121960.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 02-20-2017 |
| **6259491.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 02-20-2017 |
| **((dual or double) near7 side) near10 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4873 | OR | YES | | 02-20-2017 |
| **(((dual or double) near7 side) near10 display ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 303 | OR | YES | | 02-20-2017 |
| **(((dual or double) near7 side) near10 display ) and @ad<20001023** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 540 | OR | YES | | 02-20-2017 |
| **(((dual or double) near7 side) near10 display and @ad<20001023 ) and (speech or voice or microphon$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 13 | OR | YES | | 02-20-2017 |

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| **((dual or double) adj3 side$) adj5 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3465 | OR | YES | | 02-20-2017 |
| **(((dual or double) adj3 side$) adj5 display ) and (((dual or double) near7 side) near10 display and @ad<20001023 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 141 | OR | YES | | 02-20-2017 |
| **(double near7 sided near7 display)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4558 | OR | YES | | 02-20-2017 |
| **((double near7 sided near7 display) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 378 | OR | YES | | 02-20-2017 |
| **((double near7 sided near7 display) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4 | OR | YES | | 02-20-2017 |
| **(double near7 sided near7 screen)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1661 | OR | YES | | 02-20-2017 |
| **((double near7 sided near7 screen) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, | 177 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 02-20-2017 |
| **(image near7 interpret$4)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 34596 | OR | YES | | 02-20-2017 |
| **((image near7 interpret$4) ) and (translat$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 10957 | OR | YES | | 02-20-2017 |
| **(first near5 user near5 computer)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 39018 | OR | YES | | 02-20-2017 |
| **language and interpret$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 472289 | OR | YES | | 02-20-2017 |
| **((first near5 user near5 computer) ) and (language and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 10311 | OR | YES | | 02-20-2017 |
| | | 3889 | OR | YES | | 02-20-2017 |

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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 | | | | | |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) )** | USPT | 1742 | OR | YES | | 02-20-2017 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) ) and (impair$ or handicap$)** | USPT | 57 | OR | YES | | 02-20-2017 |
| **(impair$ or handicap$) and interpret$** | USPT | 39120 | OR | YES | | 02-20-2017 |
| **((impair$ or handicap$) and interpret$ ) and (second near5 user) and (second near5 computer)** | USPT | 756 | OR | YES | | 02-20-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) near10 ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 02-20-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) and ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 02-20-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2)))** | USPT | 131512 | OR | YES | | 02-20-2017 |
| **((((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) ) and network** | USPT | 31153 | OR | YES | | 02-20-2017 |
| **((((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 | 307 | OR | YES | | 02-20-2017 |
| **((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 | 20 | OR | YES | | 02-20-2017 |
| **((impair$ or handicap$) and interpret$ ) and ((image near7 interpret$4) )** | USPT | 852 | OR | YES | | 02-20-2017 |
| **6470498.pn.** | USPT | 1 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| **6370498.pn.** | USPT | 1 | OR | YES | | 02-20-2017 |
| **((((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 | 13804 | OR | YES | | 02-20-2017 |
| **((((379/52)))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 754 | OR | YES | | 02-20-2017 |
| **((((340/825.19)))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 17 | OR | YES | | 02-20-2017 |
| **( (((((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 | 14525 | OR | YES | | 02-20-2017 |
| **((((((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$2))) and network )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 663 | OR | YES | | 02-20-2017 |
| **interpret$ near10 service$2** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 18733 | OR | YES | | 02-20-2017 |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer)** | PGPB, USPT, USOC, | 719 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | EPAB, JPAB, DWPI, TDBD | | | | | |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 369 | OR | YES | | 02-20-2017 |
| **(interpret$ near10 service$2 and (second near5 user) and (second near5 computer) and human ) and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 189 | OR | YES | | 02-20-2017 |
| **(second near5 user) and (second near5 computer) and (operator) and interpret$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 8693 | OR | YES | | 02-20-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ )** | USPT | 4049 | OR | YES | | 02-20-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 8693 | OR | YES | | 02-20-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ ) and (language or linguistic)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 6142 | OR | YES | | 02-20-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ and (language or linguistic) ) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, | 494 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | DWPI, TDBD | | | | | |
| **operator and interpret$ and (language or linguistic) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 7013 | OR | YES | | 02-20-2017 |
| **((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 115 | OR | YES | | 02-20-2017 |
| **009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 154 | OR | YES | | 02-20-2017 |
| **(009275 ) and yamada.in.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 02-20-2017 |
| **yamada.in. and interview** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 31 | OR | YES | | 02-20-2017 |
| **2003009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 02-20-2017 |
| **20030097258** | PGPB, USPT, | 34 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 02-20-2017 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multilingual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 331 | OR | YES | | 02-20-2017 |
| **(operator and interpret$ and (language or linguistic) and impair$4 and multilingual )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 331 | OR | YES | | 02-20-2017 |
| **6421245.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 02-20-2017 |
| **6421425.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 02-20-2017 |
| **6421425.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, | 1 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | TDBD | | | | | |
| **5406557.pn..pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 02-20-2017 |
| **5406557.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 02-20-2017 |
| **5406557.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 02-20-2017 |
| **user and operator and deaf and tty and tdd and sound and impaired** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 86 | OR | YES | | 02-20-2017 |
| **(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 179779 | OR | YES | | 02-20-2017 |
| **((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 | 2276 | OR | YES | | 02-20-2017 |
| **((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4)) and (user near7 request$5 near7** | PGPB, USPT, USOC, | 1369 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| **operator) ) and (language or lingual or translat$)** | EPAB, JPAB, DWPI, TDBD | | | | | |
| **((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4)) and (user near7 request$5 near7 operator) and (language or lingual or translat$) ) and (user and operator and deaf and tty and tdd and sound and impaired )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 02-20-2017 |
| **((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 | 761 | OR | YES | | 02-20-2017 |
| **((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 | 305 | OR | YES | | 02-20-2017 |
| **(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4)))** | USPT | 6212 | OR | YES | | 02-20-2017 |
| **((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 | 304 | OR | YES | | 02-20-2017 |
| **((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 | 66 | OR | YES | | 02-20-2017 |
| **((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 | 66 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| **((dual adj5 sided adj5 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 273 | OR | YES | | 02-20-2017 |
| **((dual near7 sided near7 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 399 | OR | YES | | 02-20-2017 |
| **(((dual near7 sided near7 display)) ) not (((dual adj5 sided adj5 display)) )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 126 | OR | YES | | 02-20-2017 |
| **(match$3 near7 (interpreter or operator))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 19946 | OR | YES | | 02-20-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 02-20-2017 |
| **(((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 115 | OR | YES | | 02-20-2017 |
| **((((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4)) ) and @ad<20001025** | PGPB, USPT, USOC, EPAB, | 5 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **(6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 14 | OR | YES | | 02-20-2017 |
| **((6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 02-20-2017 |
| **5983073.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 5 | OR | YES | | 02-20-2017 |
| **(5983073.pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 02-20-2017 |
| **(5983073.pn. ) and dual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 02-20-2017 |
| **(5983073.pn. ) and display** | PGPB, USPT, USOC, | 1 | OR | YES | | 02-20-2017 |

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|---|---|---|---|---|---|---|
| | EPAB, JPAB, DWPI, TDBD, FPRS | | | | | |
| **5926787** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 34 | OR | YES | | 02-20-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **double near3 (sided or sides or side) near3 display$3** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4577 | OR | YES | | 02-20-2017 |
| **(double near3 (sided or sides or side) near3** | PGPB, | 413 | OR | YES | | 02-20-2017 |

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| **display$3 ) and @ad<20001025** | USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | | | | | |
| **(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 | | 02-20-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 02-20-2017 |

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| **(display near7 camera) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 27038 | OR | YES | | 03-17-2017 |
| **5917944.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 03-17-2017 |
| **((display near7 camera) and @ad<20001025 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2098 | OR | YES | | 03-17-2017 |
| **((display near7 camera) and @ad<20001025 and microphon$ ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1229 | OR | YES | | 03-17-2017 |
| **((display near7 camera) and @ad<20001025 and microphon$ ) and ((speech or voice) near10 recogni$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 448 | OR | YES | | 03-17-2017 |
| **(camera adj5 (embedd$5 or built or contain$3) adj5 (display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1631 | OR | YES | | 03-17-2017 |
| **((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** | PGPB, USPT, USOC, EPAB, | 5 | OR | YES | | 03-17-2017 |

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| **recogni$) )** | JPAB, DWPI, TDBD | | | | | |
| **6121960.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 03-17-2017 |
| **6259491.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 03-17-2017 |
| **((dual or double) near7 side) near10 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4908 | OR | YES | | 03-17-2017 |
| **(((dual or double) near7 side) near10 display ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 306 | OR | YES | | 03-17-2017 |
| **(((dual or double) near7 side) near10 display ) and @ad<20001023** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 540 | OR | YES | | 03-17-2017 |
| **(((dual or double) near7 side) near10 display and @ad<20001023 ) and (speech or voice or microphon$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 13 | OR | YES | | 03-17-2017 |
| **((dual or double) adj3 side$) adj5 display** | | 3494 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(((dual or double) adj3 side$) adj5 display ) and (((dual or double) near7 side) near10 display and @ad<20001023 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 141 | OR | YES | | 03-17-2017 |
| **(double near7 sided near7 display)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4600 | OR | YES | | 03-17-2017 |
| **((double near7 sided near7 display) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 378 | OR | YES | | 03-17-2017 |
| **((double near7 sided near7 display) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4 | OR | YES | | 03-17-2017 |
| **(double near7 sided near7 screen)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1674 | OR | YES | | 03-17-2017 |
| **((double near7 sided near7 screen) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, | 177 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 03-17-2017 |
| **(image near7 interpret$4)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 34805 | OR | YES | | 03-17-2017 |
| **((image near7 interpret$4) ) and (translat$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 11025 | OR | YES | | 03-17-2017 |
| **(first near5 user near5 computer)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 39342 | OR | YES | | 03-17-2017 |
| **language and interpret$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 477167 | OR | YES | | 03-17-2017 |
| **((first near5 user near5 computer) ) and (language and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 10406 | OR | YES | | 03-17-2017 |
| | | 3921 | OR | YES | | 03-17-2017 |

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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 | | | | | |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) )** | USPT | 1758 | OR | YES | | 03-17-2017 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) ) and (impair$ or handicap$)** | USPT | 58 | OR | YES | | 03-17-2017 |
| **(impair$ or handicap$) and interpret$** | USPT | 39417 | OR | YES | | 03-17-2017 |
| **((impair$ or handicap$) and interpret$ ) and (second near5 user) and (second near5 computer)** | USPT | 766 | OR | YES | | 03-17-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) near10 ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 03-17-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) and ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 03-17-2017 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2)))** | USPT | 132290 | OR | YES | | 03-17-2017 |
| **((((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) ) and network** | USPT | 31509 | OR | YES | | 03-17-2017 |
| **((((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 | 313 | OR | YES | | 03-17-2017 |
| **((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 | 20 | OR | YES | | 03-17-2017 |
| **((impair$ or handicap$) and interpret$ ) and ((image near7 interpret$4) )** | USPT | 856 | OR | YES | | 03-17-2017 |
| **6470498.pn.** | USPT | 1 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| **6370498.pn.** | USPT | 1 | OR | YES | | 03-17-2017 |
| **(((((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 | 13830 | OR | YES | | 03-17-2017 |
| **(((((379/52))))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 754 | OR | YES | | 03-17-2017 |
| **(((((340/825.19))))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 17 | OR | YES | | 03-17-2017 |
| **( ((((((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 | 14551 | OR | YES | | 03-17-2017 |
| **(((((((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$2))) and network )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 663 | OR | YES | | 03-17-2017 |
| **interpret$ near10 service$2** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 18883 | OR | YES | | 03-17-2017 |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer)** | PGPB, USPT, | 728 | OR | YES | | 03-17-2017 |

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| | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 371 | OR | YES | | 03-17-2017 |
| **(interpret$ near10 service$2 and (second near5 user) and (second near5 computer) and human ) and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 190 | OR | YES | | 03-17-2017 |
| **(second near5 user) and (second near5 computer) and (operator) and interpret$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 8782 | OR | YES | | 03-17-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ )** | USPT | 4098 | OR | YES | | 03-17-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 8782 | OR | YES | | 03-17-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ ) and (language or linguistic)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 6213 | OR | YES | | 03-17-2017 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ and (language or linguistic) ) and impair$4** | PGPB, USPT, USOC, EPAB, | 500 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **operator and interpret$ and (language or linguistic) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 7075 | OR | YES | | 03-17-2017 |
| **((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 115 | OR | YES | | 03-17-2017 |
| **009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 155 | OR | YES | | 03-17-2017 |
| **(009275 ) and yamada.in.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 03-17-2017 |
| **yamada.in. and interview** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 31 | OR | YES | | 03-17-2017 |
| **2003009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 03-17-2017 |
| **2003009725$** | | 34 | OR | YES | | 03-17-2017 |

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| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 03-17-2017 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multilingual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 333 | OR | YES | | 03-17-2017 |
| **(operator and interpret$ and (language or linguistic) and impair$4 and multilingual )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 333 | OR | YES | | 03-17-2017 |
| **6421245.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 03-17-2017 |
| **6421425.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2 | OR | YES | | 03-17-2017 |
| **6421425.pn. and operator** | PGPB, USPT, USOC, EPAB, | 1 | OR | YES | | 03-17-2017 |

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| | JPAB, DWPI, TDBD | | | | | |
| **5406557.pn..pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 03-17-2017 |
| **5406557.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 03-17-2017 |
| **5406557.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 03-17-2017 |
| **user and operator and deaf and tty and tdd and sound and impaired** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 86 | OR | YES | | 03-17-2017 |
| **(choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 180615 | OR | YES | | 03-17-2017 |
| **((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 | 2289 | OR | YES | | 03-17-2017 |
| | | 1377 | OR | YES | | 03-17-2017 |

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| **((choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4)) and (user near7 request$5 near7 operator) ) and (language or lingual or translat$)** | 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$5 near7 operator) and (language or lingual or translat$) ) and (user and operator and deaf and tty and tdd and sound and impaired )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 03-17-2017 |
| **((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 | 765 | OR | YES | | 03-17-2017 |
| **((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 | 307 | OR | YES | | 03-17-2017 |
| **(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4)))** | USPT | 6260 | OR | YES | | 03-17-2017 |
| **((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 | 305 | OR | YES | | 03-17-2017 |
| **((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 | 67 | OR | YES | | 03-17-2017 |
| **((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, | 67 | OR | YES | | 03-17-2017 |

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|---|---|---|---|---|---|---|
| | DWPI, TDBD | | | | | |
| **((dual adj5 sided adj5 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 278 | OR | YES | | 03-17-2017 |
| **((dual near7 sided near7 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 405 | OR | YES | | 03-17-2017 |
| **(((dual near7 sided near7 display)) ) not (((dual adj5 sided adj5 display)) )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 127 | OR | YES | | 03-17-2017 |
| **(match$3 near7 (interpreter or operator))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 20080 | OR | YES | | 03-17-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 03-17-2017 |
| **(((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 115 | OR | YES | | 03-17-2017 |
| **((((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator** | PGPB, USPT, | 5 | OR | YES | | 03-17-2017 |

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| **and interpret$ and (language or linguistic) and impair$4)) ) and @ad<20001025** | USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 14 | OR | YES | | 03-17-2017 |
| **((6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 03-17-2017 |
| **5983073.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 5 | OR | YES | | 03-17-2017 |
| **(5983073.pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 03-17-2017 |
| **(5983073.pn. ) and dual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 03-17-2017 |
| **(5983073.pn. ) and display** | PGPB, | 1 | OR | YES | | 03-17-2017 |

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| | USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | | | | | |
| **5926787** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 34 | OR | YES | | 03-17-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **double near3 (sided or sides or side) near3 display$3** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4610 | OR | YES | | 03-17-2017 |

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| **(double near3 (sided or sides or side) near3 display$3 ) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 413 | OR | YES | | 03-17-2017 |
| **(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 | | 03-17-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, | 4 | OR | YES | | 03-17-2017 |

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| | FPRS | | | | | |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 03-17-2017 |
| **"12/658496"** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 1 | OR | YES | | 03-17-2017 |
| **(display near7 camera) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 27036 | OR | YES | | 10-15-2019 |
| **5917944.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 10-15-2019 |
| **((display near7 camera) and @ad<20001025 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2098 | OR | YES | | 10-15-2019 |
| **((display near7 camera) and @ad<20001025 and microphon$ ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1229 | OR | YES | | 10-15-2019 |
| | | 448 | OR | YES | | 10-15-2019 |

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| **((display near7 camera) and @ad<20001025 and microphon$ ) and ((speech or voice) near10 recogni$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(camera adj5 (embedd$5 or built or contain$3) adj5 (display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1957 | OR | YES | | 10-15-2019 |
| **((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 | | 10-15-2019 |
| **6121960.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 10-15-2019 |
| **6259491.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 10-15-2019 |
| **((dual or double) near7 side) near10 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 6271 | OR | YES | | 10-15-2019 |
| **(((dual or double) near7 side) near10 display ) and (speech or voice)** | PGPB, USPT, USOC, EPAB, | 407 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **(((dual or double) near7 side) near10 display ) and @ad<20001023** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 540 | OR | YES | | 10-15-2019 |
| **(((dual or double) near7 side) near10 display and @ad<20001023 ) and (speech or voice or microphon$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 13 | OR | YES | | 10-15-2019 |
| **((dual or double) adj3 side$) adj5 display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 4551 | OR | YES | | 10-15-2019 |
| **(((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 | | 10-15-2019 |
| **(double near7 sided near7 display)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 6002 | OR | YES | | 10-15-2019 |
| **((double near7 sided near7 display) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 378 | OR | YES | | 10-15-2019 |
| | | 4 | OR | YES | | 10-15-2019 |

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| **((double near7 sided near7 display) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **(double near7 sided near7 screen)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 2178 | OR | YES | | 10-15-2019 |
| **((double near7 sided near7 screen) ) and @ad<20000101** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 177 | OR | YES | | 10-15-2019 |
| **((double near7 sided near7 screen) and @ad<20000101 ) and microphon$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 10-15-2019 |
| **(image near7 interpret$4)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 42448 | OR | YES | | 10-15-2019 |
| **((image near7 interpret$4) ) and (translat$)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 13783 | OR | YES | | 10-15-2019 |
| **(first near5 user near5 computer)** | PGPB, USPT, USOC, EPAB, | 51137 | OR | YES | | 10-15-2019 |

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| | JPAB, DWPI, TDBD | | | | | |
| **language and interpret$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 652906 | OR | YES | | 10-15-2019 |
| **((first near5 user near5 computer) ) and (language and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 14218 | OR | YES | | 10-15-2019 |
| **((first near5 user near5 computer) and language and interpret$ ) and (second near5 user near5 computer)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5315 | OR | YES | | 10-15-2019 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) )** | USPT | 2438 | OR | YES | | 10-15-2019 |
| **((first near5 user near5 computer) and language and interpret$ and (second near5 user near5 computer) ) and (impair$ or handicap$)** | USPT | 91 | OR | YES | | 10-15-2019 |
| **(impair$ or handicap$) and interpret$** | USPT | 51841 | OR | YES | | 10-15-2019 |
| **((impair$ or handicap$) and interpret$ ) and (second near5 user) and (second near5 computer)** | USPT | 1065 | OR | YES | | 10-15-2019 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) near10 ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 10-15-2019 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) and ((communicat$ near5 each near5 other))** | USPT | 0 | OR | YES | | 10-15-2019 |
| **(((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2)))** | USPT | 160914 | OR | YES | | 10-15-2019 |

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| **((((hearing near5 impair$2) or deaf) or (blind or (visual$3 near5 impair$2))) ) and network** | USPT | 45488 | OR | YES | | 10-15-2019 |
| **((((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 | 459 | OR | YES | | 10-15-2019 |
| **((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 | 22 | OR | YES | | 10-15-2019 |
| **((impair$ or handicap$) and interpret$ ) and ((image near7 interpret$4) )** | USPT | 1137 | OR | YES | | 10-15-2019 |
| **6470498.pn.** | USPT | 1 | OR | YES | | 10-15-2019 |
| **6370498.pn.** | USPT | 1 | OR | YES | | 10-15-2019 |
| **((((((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 | 15987 | OR | YES | | 10-15-2019 |
| **((((((379/52))))))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 827 | OR | YES | | 10-15-2019 |
| **((((((340/825.19))))))).ccls.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 14 | OR | YES | | 10-15-2019 |
| **( (((((((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** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, | 16773 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| (((((((340/825.19))))))).ccls. ) ) | 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$2))) and network ) | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 663 | OR | YES | | 10-15-2019 |
| interpret$ near10 service$2 | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 23534 | OR | YES | | 10-15-2019 |
| (interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 912 | OR | YES | | 10-15-2019 |
| (interpret$ near10 service$2 ) and (second near5 user) and (second near5 computer) and human | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 462 | OR | YES | | 10-15-2019 |
| (interpret$ near10 service$2 and (second near5 user) and (second near5 computer) and human ) and operator | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 223 | OR | YES | | 10-15-2019 |
| (second near5 user) and (second near5 computer) and (operator) and interpret$ | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 11705 | OR | YES | | 10-15-2019 |
| ((second near5 user) and (second near5 computer) and (operator) and interpret$ ) | USPT | 5599 | OR | YES | | 10-15-2019 |

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| **((second near5 user) and (second near5 computer) and (operator) and interpret$ )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 11705 | OR | YES | | 10-15-2019 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ ) and (language or linguistic)** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 8385 | OR | YES | | 10-15-2019 |
| **((second near5 user) and (second near5 computer) and (operator) and interpret$ and (language or linguistic) ) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 708 | OR | YES | | 10-15-2019 |
| **operator and interpret$ and (language or linguistic) and impair$4** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 9742 | OR | YES | | 10-15-2019 |
| **((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4 )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 192 | OR | YES | | 10-15-2019 |
| **009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 166 | OR | YES | | 10-15-2019 |
| **(009275 ) and yamada.in.** | PGPB, USPT, USOC, EPAB, | 0 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| | JPAB, DWPI, TDBD | | | | | |
| **yamada.in. and interview** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 37 | OR | YES | | 10-15-2019 |
| **2003009275** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 10-15-2019 |
| **2003009725$** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 34 | OR | YES | | 10-15-2019 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multiligual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 0 | OR | YES | | 10-15-2019 |
| **operator and interpret$ and (language or linguistic) and impair$4 and multilingual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 422 | OR | YES | | 10-15-2019 |
| **(operator and interpret$ and (language or linguistic) and impair$4 and multilingual )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 422 | OR | YES | | 10-15-2019 |
| **6421245.pn.** | | 3 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | | | | | |
| **6421425.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 10-15-2019 |
| **6421425.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 10-15-2019 |
| **5406557.pn..pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 10-15-2019 |
| **5406557.pn. and operator** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 1 | OR | YES | | 10-15-2019 |
| **5406557.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 10-15-2019 |
| **user and operator and deaf and tty and tdd and sound and impaired** | PGPB, USPT, USOC, EPAB, | 99 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| | 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 | 209192 | OR | YES | | 10-15-2019 |
| **((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 | 2965 | OR | YES | | 10-15-2019 |
| **((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 | 1800 | OR | YES | | 10-15-2019 |
| **((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 | | 10-15-2019 |
| **((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 | 1026 | OR | YES | | 10-15-2019 |
| **((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 | 412 | OR | YES | | 10-15-2019 |
| **(user near7 (choose or choosing or select or selecting or selected) near7 (operator or (call near7 assistan$4)))** | USPT | 8155 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| **((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 | 378 | OR | YES | | 10-15-2019 |
| **((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 | 95 | OR | YES | | 10-15-2019 |
| **((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 | 95 | OR | YES | | 10-15-2019 |
| **((dual adj5 sided adj5 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 380 | OR | YES | | 10-15-2019 |
| **((dual near7 sided near7 display))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 545 | OR | YES | | 10-15-2019 |
| **(((dual near7 sided near7 display)) ) not (((dual adj5 sided adj5 display)) )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 165 | OR | YES | | 10-15-2019 |
| **(match$3 near7 (interpreter or operator))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, | 24482 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| | TDBD | | | | | |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 3 | OR | YES | | 10-15-2019 |
| **(((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4))** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 192 | OR | YES | | 10-15-2019 |
| **((((dual near10 display) or (dual near10 screen) or (dual near10 video)) and (operator and interpret$ and (language or linguistic) and impair$4)) ) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD | 5 | OR | YES | | 10-15-2019 |
| **(6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 22 | OR | YES | | 10-15-2019 |
| **((6370498 or 6470498 or 5406557 or 6421245 or 6421425).pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 10-15-2019 |
| **5983073.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 5 | OR | YES | | 10-15-2019 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **(5983073.pn. ) and (((dual or double) adj3 side$) adj5 display )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 10-15-2019 |
| **(5983073.pn. ) and dual** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 0 | OR | YES | | 10-15-2019 |
| **(5983073.pn. ) and display** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 1 | OR | YES | | 10-15-2019 |
| **5926787** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 34 | OR | YES | | 10-15-2019 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 10-15-2019 |
| **5926787.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, | 4 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| | FPRS | | | | | |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 10-15-2019 |
| **double near3 (sided or sides or side) near3 display$3** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 6180 | OR | YES | | 10-15-2019 |
| **(double near3 (sided or sides or side) near3 display$3 ) and @ad<20001025** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 419 | OR | YES | | 10-15-2019 |
| **(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 | | 10-15-2019 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 10-15-2019 |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, | 4 | OR | YES | | 10-15-2019 |

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|---|---|---|---|---|---|---|
| | DWPI, TDBD, FPRS | | | | | |
| **5357355.pn.** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 10-15-2019 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 10-15-2019 |
| **(5357355.pn. )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 4 | OR | YES | | 10-15-2019 |
| **"12/658496"** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 1 | OR | YES | | 10-15-2019 |
| **("12/658496" )** | PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD, FPRS | 1 | OR | YES | | 10-15-2019 |
| **h04r25/70.cpc. or h04r25/00.cpc.** | PGPB, USPT, USOC, | 9963 | OR | YES | | 10-15-2019 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | EPAB, JPAB, DWPI, TDBD, FPRS | | | | | |
| **(h04r25/70.cpc. or h04r25/00.cpc. ) and ((((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, FPRS | 0 | OR | YES | | 10-15-2019 |

Document Description: Issue Fee Payment (PTO-85B)

# Issue Fee Transmittal Form

| Application Number | Filing Date | First Named Inventor | Atty. Docket No. | Confirmation No. |
|---|---|---|---|---|
| 12658496 | 08-Feb-2010 | Robert Klinefelter | GT012 | 8099 |

**TITLE OF INVENTION :**

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

| Entity Status | Application Type | Art Unit | Class - Subclass | EXAMINER |
|---|---|---|---|---|
| Small | Utility under 35 USC 111(a) | 2658 | 270100 | MICHAEL OPSASNICK |

| Issue Fee Due | Publication Due | Total Fee(s) Due | Date Due | Prev. Paid Fee |
|---|---|---|---|---|
| $500 | $0 | $500 | 23-Jan-2020 | $0 |

## 1.Change of Correspondence Address and/or Indication Of Fee Address (37 CFR 1.33 & 1.363)

| Current Correspondence Address: | Current Indicated Fee Address : |
|---|---|
| 147182<br>Gregory B. Gulliver<br><br>1862 E. Belvidere Rd.<br>Unit 117<br>Grayslake IL 60030<br>UNITED STATES<br>312-720-0308<br>docketing@goapogee.com | |
| ☐ Change of correspondence address requested, system generated AIA/122-EFS form attached | ☐ Fee Address indication requested, system generated SB/47-EFS form attached |

## 2.Entity Status

**Change in Entity Status**

○ Applicant certifying micro entity status; system generated Micro Entity certification form attached. See 37 CFR 1.29.
Note: Absent a valid certification of micro entity status, issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. If this box is checked, you will be prompted to choose a micro entity status on the gross income basis (37 CFR 1.29(a)) or the institution of higher education basis (37 CFR 1.29(d)), and make the applicable certification online.

◉ Applicant asserting small entity status. See 37 CFR 1.27.
Note: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

○ Applicant changing to regular undiscounted fee status.
Note: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

Doc Code: IFEE PTOL/85B-EFS

Document Description: Issue Fee Payment (PTO-85B)

**3.The Following Fee(s) Are Submitted:**

| | |
|---|---|
| ☒ Issue Fee | ☐ I authorize USPTO to apply my previously paid issue fee to the current fees due |
| ☐ Publication Fee | ☐ The Director is hereby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number _____ |
| ☒ Advance Order - # of copies 5 | ☐ If **in addition to** the payment of the issue fee amount submitted with this form, there are any discrepancies in any amount(s) due, the Director is authorized to charge any deficiency, or credit any overpayment, to Deposit Account Number _____ . The **issue fee must be submitted** with this form. **If payment of the issue fee does not accompany this form, checking this box and providing a deposit account number will NOT be effective to satisfy full payment of the fee(s) due.** |

**4.Firm and/or Attorney Names To Be Printed**

**NOTE: If no name is listed, no name will be printed**
For printing on the patent front page, list to be displayed as entered

1. Gregory B. Gulliver
2.
3.

**5.Assignee Name(s) and Residence Data To Be Printed**

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

| Name | City | State | Country | Category |
|---|---|---|---|---|
| KP Innovations, LLC | Carson City | NEVADA | united states | corporation |

**6.Signature**

I certify, in accordance with 37 CFR 1.4(d)(4) that I am an attorney or agent registered to practice before the Patent and Trademark Office who has filed and has been granted power of attorney in this application. I also certify that this Fee(s) Transmittal form is being transmitted to the USPTO via EFS-WEB on the date indicated below.

| | | | |
|---|---|---|---|
| **Signature** | /Gregory B Gulliver/ | **Date** | 10-23-2019 |
| **Name** | Gregory Brian Gulliver | **Registration Number** | 44138 |

# 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:** | | | | |
| UTILITY APPL ISSUE FEE | 2501 | 1 | 500 | 500 |
| PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL | 1504 | 1 | 0 | 0 |
| PRINTED COPY OF PATENT - NO COLOR | 8001 | 5 | 3 | 15 |
| **Pages:** | | | | |
| **Claims:** | | | | |
| **Miscellaneous-Filing:** | | | | |
| **Petition:** | | | | |
| **Patent-Appeals-and-Interference:** | | | | |

| Description | Fee Code | Quantity | Amount | Sub-Total in USD($) |
|---|---|---|---|---|
| **Post-Allowance-and-Post-Issuance:** | | | | |
| **Extension-of-Time:** | | | | |
| **Miscellaneous:** | | | | |
| | | **Total in USD ($)** | | **515** |

# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 37541130 |
| **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 |
| **Customer Number:** | 147182 |
| **Filer:** | Gregory Brian Gulliver |
| **Filer Authorized By:** | |
| **Attorney Docket Number:** | GT012 |
| **Receipt Date:** | 23-OCT-2019 |
| **Filing Date:** | 08-FEB-2010 |
| **Time Stamp:** | 16:09:33 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

| | |
|---|---|
| Submitted with Payment | yes |
| Payment Type | CARD |
| Payment was successfully received in RAM | $515 |
| RAM confirmation Number | E20190MG09312106 |
| 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 | Issue Fee Payment (PTO-85B) | Web85b.pdf | 46041<br>961f813404989ba8545b745b7f61c48b93de75c6 | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 2 | Fee Worksheet (SB06) | fee-info.pdf | 35685<br>472f2379b4784584e13e33fa40cdf0f0b4fbe8e8 | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| | | **Total Files Size (in bytes):** | 81726 | | |

**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.**

**To:** gbgulliver@goapogee.com,docketing@goapogee.com,gbgulliver65@gmail.com
**From:** PAIR_eOfficeAction@uspto.gov
**Cc:** PAIR_eOfficeAction@uspto.gov
**Subject:** Private PAIR Correspondence Notification for Customer Number 147182

Oct 23, 2019 03:38:07 AM

Dear PAIR Customer:

Gregory B. Gulliver
1862 E. Belvidere Rd.
Unit 117
Grayslake, IL 60030
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 147182 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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| Application | Document | Mailroom Date | Attorney Docket No. |
|---|---|---|---|
| 12658496 | NOA | 10/23/2019 | GT012 |
| | INTV.SUM.APP | 10/23/2019 | GT012 |

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

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Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

UNITED STATES PATENT AND TRADEMARK OFFICE

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

| APPLICATION NO. | ISSUE DATE | PATENT NO. | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 12/658,496 | 12/03/2019 | 10499168 | GT012 | 8099 |

147182 7590 11/13/2019

Gregory B. Gulliver
1862 E. Belvidere Rd.
Unit 117
Grayslake, IL 60030

# ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

The Patent Term Adjustment is 852 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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

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

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

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

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

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

**To:** gbgulliver@goapogee.com,docketing@goapogee.com,gbgulliver65@gmail.com
**From:** PAIR_eOfficeAction@uspto.gov
**Cc:** PAIR_eOfficeAction@uspto.gov
**Subject:** Private PAIR Correspondence Notification for Customer Number 147182

Nov 14, 2019 03:35:51 AM

Dear PAIR Customer:

Gregory B. Gulliver
1862 E. Belvidere Rd.
Unit 117
Grayslake, IL 60030
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 147182 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

| Application | Document | Mailroom Date | Attorney Docket No. |
|---|---|---|---|
| 12658496 | ISSUE.NTF | 11/13/2019 | GT012 |

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI31845

| | |
|---|---|
| **SUBMISSION TYPE:** | NEW ASSIGNMENT |
| **NATURE OF CONVEYANCE:** | MERGER |
| **EFFECTIVE DATE:** | 12/20/2023 |
| **SEQUENCE:** | 1 |

**CONVEYING PARTY DATA**

| Name | Execution Date |
|---|---|
| KP Innovations, LLC | 11/10/2023 |

**RECEIVING PARTY DATA**

| | |
|---|---|
| **Company Name:** | KP Innovations2, LLC |
| **Street Address:** | 7600 Chevy Chase Drive |
| **Internal Address:** | Suite 300 |
| **City:** | Austin |
| **State/Country:** | TEXAS |
| **Postal Code:** | 78752 |

**PROPERTY NUMBERS Total: 2**

| Property Type | Number |
|---|---|
| **Patent Number:** | 7792676 |
| **Patent Number:** | 10499168 |

**CORRESPONDENCE DATA**

**Fax Number:**

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

**Phone:** 8479843020
**Email:** gbgulliver@addyhart.com
**Correspondent Name:** Mr. Gregory Gulliver
**Address Line 1:** 1862 E. Belivdere Rd.
**Address Line 2:** Unit 117
**Address Line 4:** Grayslake, ILLINOIS 60030

| | |
|---|---|
| **ATTORNEY DOCKET NUMBER:** | KP224P001US |
| **NAME OF SUBMITTER:** | Gregory Gulliver |
| **SIGNATURE:** | Gregory Gulliver |
| **DATE SIGNED:** | 02/16/2024 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

**Total Attachments: 22**
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FRANCISCO V. AGUILAR
Secretary of State
401 North Carson Street
Carson City, Nevada 89701-4201
(775) 684-5708
Website: www.nvsos.gov
www.nvsilverflume.gov

ABOVE SPACE IS FOR OFFICE USE ONLY

# Articles of Conversion/Exchange/Merger

## NRS 92A.200 and 92A.205

This filing completes the following: ☐ Conversion ☐ Exchange ☒ Merger

TYPE OR PRINT - USE DARK INK ONLY - DO NOT HIGHLIGHT

| | |
|---|---|
| **1. Entity Information:** (Constituent, Acquired or Merging) | Entity Name: KP Innovations, LLC<br>Jurisdiction: Nevada Entity Type*: Limited Liability Co.<br>*If more than one entity being acquired or merging please attach additional page.* |
| **2. Entity Information:** (Resulting, Acquiring or Surviving) | Entity Name: KPInnovations2,LLC<br>Jurisdiction: Texas Entity Type*: Limited Liability Co. |
| **3. Plan of Conversion, Exchange or Merger:** (select one box) | ☒ The entire plan of conversion, exchange or merger is attached to these articles.<br>☐ The complete executed plan of conversion is on file at the registered office or principal place of business of the resulting entity. The entire plan of exchange or merger is on file at the registered office of the acquiring corporation, limited-liability company or business trust, or at the records office address if a limited partnership, or other place of business of the acquiring entity (NRS 92A.200).<br>☐ The complete executed plan of conversion for the resulting domestic limited partnership is on file at the records office required by NRS 88.330. (Conversion only) |
| **4. Approval:** (If more than one entity being acquired or merging please attach additional approval page.) | **Exchange/Merger:**<br>Owner's approval (NRS 92A.200) (options a, b or c must be used for each entity)<br>☐ A. Owner's approval was not required from the:<br>☐ Acquired/merging<br>☐ Acquiring/surviving<br>☒ B. The plan was approved by the required consent of the owners of:<br>☒ Acquired/merging<br>☒ Acquiring/surviving<br>☐ C. Approval of plan of exchange/merger for Nevada non-profit corporation (NRS 92A.160):<br>Non-profit Corporations only: The plan of exchange/merger has been approved by the directors of the corporation and by each public officer or other person whose approval of the plan of merger is required by the articles of incorporation of the domestic corporation.<br>☐ Acquired/merging<br>☐ Acquiring/surviving<br>KP Innovations, LLC<br>Name of acquired/merging entity<br>KPInnovations2,LLC<br>Name of acquiring/surviving entity |
| **5. Effective Date and Time:** (Optional) | Date: December20,2023 Time: 12:00 a.m.<br>(must not be later than 90 days after the certificate is filed) |

* *corporation, limited partnership, limited-liability limited partnership, limited-liability company or business trust.*



SAMSUNG EXHIBIT 1003, Page 998

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# Articles of Conversion/Exchange/Merger

## NRS 92A.200 and 92A.205

This filing completes the following: ☐ Conversion ☐ Exchange ☐ Merger

TYPE OR PRINT - USE DARK INK ONLY - DO NOT HIGHLIGHT

**4. Approval Continued:** (If more than one entity being acquired or merging please attach additional approval page.)

**Exchange/Merger:**

Owner's approval (NRS 92A.200) (options a, b or c must be used for each entity)

☐ A. Owner's approval was not required from the:
- ☐ Acquired/merging
- ☐ Acquiring/surviving

☐ B. The plan was approved by the required consent of the owners of:
- ☐ Acquired/merging
- ☐ Acquiring/surviving

☐ C. Approval of plan of exchange for Nevada non-profit corporation (NRS 92A.160):

Non-profit Corporations only: The plan of exchange/merger has been approved by the directors of the corporation and by each public officer or other person whose approval of the plan of merger is required by the articles of incorporation of the domestic corporation.
- ☐ Acquired/merging
- ☐ Acquiring/surviving

Name of acquired/merging entity

Name of acquiring/surviving entity

**4. Approval Continued:** (If more than one entity being acquired or merging please attach additional approval page.)

**Exchange/Merger:**

Owner's approval (NRS 92A.200) (options a, b or c must be used for each entity)

☐ A. Owner's approval was not required from the:
- ☐ Acquired/merging
- ☐ Acquiring/surviving

☐ B. The plan was approved by the required consent of the owners of:
- ☐ Acquired/merging
- ☐ Acquiring/surviving

☐ C. Approval of plan of exchange for Nevada non-profit corporation (NRS 92A.160):

Non-profit Corporations only: The plan of exchange/merger has been approved by the directors of the corporation and by each public officer or other person whose approval of the plan of merger is required by the articles of incorporation of the domestic corporation.
- ☐ Acquired/merging
- ☐ Acquiring/surviving

Name of acquired/merging entity

Name of acquiring/surviving entity

* *corporation, limited partnership, limited-liability limited partnership, limited-liability company or business trust.*

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# Articles of Conversion/Exchange/Merger

## NRS 92A.200 and 91A.205

**6.Forwarding Address for Service of Process:**
(Conversion and Mergers only, if resulting/surviving entity is foreign)

KP Innovations 2, LLC — Name
USA — Country
Care of: GKL Registered Agents, Inc.
3200 Steck Ave. Ste. 200 — Address
Austin — City
TX 78757 — State Zip/Postal Code

**7. Amendment, if any, to the articles or certificate of the surviving entity. (NRS 92A.200):**
(Merger only) **

None

** Amended and restated articles may be attached as an exhibit or integrated into the articles of merger. Please entitle them "Restated" or "Amended and Restated," accordingly. The form to accompany restated articles prescribed by the secretary of state must accompany the amended and/or restated articles. Pursuant to NRS 92A.180 (merger of subsidiary into parent - Nevada parent owning 90% or more of subsidiary), the articles of merger may not contain amendments to the constituent documents of the surviving entity except that the name of the surviving entity may be changed.

**8. Declaration:**
(Exchange and Merger only)

**Exchange:**

☐ The undersigned declares that a plan of exchange has been adopted by each constituent entity (NRS 92A.200).

**Merger:** (Select one box)

☒ The undersigned declares that a plan of merger has been adopted by each constituent entity (NRS 92A.200).

☐ The undersigned declares that a plan of merger has been adopted by the parent domestic entity (NRS 92A.180).

**9. Signature Statement:** (Required)

☐ **Conversion:**
A plan of conversion has been adopted by the constituent entity in compliance with the law of the jurisdiction governing the constituent entity.

Signatures - must be signed by:

1. If constituent entity is a Nevada entity: an officer of each Nevada corporation; all general partners of each Nevada limited partnership or limited-liability limited partnership; a manager of each Nevada limited-liability company with managers or one member if there are no managers; a trustee of each Nevada business trust; a managing partner of a Nevada limited-liability partnership (a.k.a. general partnership governed by NRS chapter 87).
2. If constituent entity is a foreign entity: must be signed by the constituent entity in the manner provided by the law governing it.

Name of constituent entity

*Form will be returned if unsigned.*
*This form must be accompanied by appropriate fees.*

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# Articles of Conversion/Exchange/Merger

## NRS 92A.200 and 91A.205

**9. Signature Statement Continued:** (Required)

☐ **Exchange:**

Signatures - Must be signed by: An officer of each Nevada corporation; All general partners of each Nevada limited partnership; All general partners of each Nevada limited-liability limited partnership; A manager of each Nevada limited-liability company with managers or a member if there are no Managers; A trustee of each Nevada business trust (NRS 92A.230)

Unless otherwise provided in the certificate of trust or governing instrument of a business trust, an exchange must be approved by all the trustees and beneficial owners of each business trust that is a constituent entity in the exchange.

The articles of exchange must be signed by each foreign constituent entity in the manner provided by the law governing it (NRS 92A.230). Additional signature blocks may be added to this page or as an attachment, as needed.

☒ **Merger:**

Signatures - Must be signed by: An officer of each Nevada corporation; All general partners of each Nevada limited partnership; All general partners of each Nevada limited-liability limited partnership; A manager of each Nevada limited-liability company with managers or one member if there are no managers; A trustee of each Nevada business trust (NRS 92A.230).

The articles of merger must be signed by each foreign constituent entity in the manner provided by the law governing it (NRS 92A.230). Additional signature blocks may be added to this page or as an attachment, as needed.

**10. Signature(s):** (Required)

KP Innovations, LLC

Name of acquired/merging entity

X Todd Kleinfelder — Co-ManagingMbr. (Title) — 11.15.23 (Date)

Signature (Exchange/Merger)

*If more than one entity being acquired or merging please attach additional page of informaiton and signatures.*

KPInnovations2,LLC

Name of acquiring/surviving entity

X Todd Kleinfelder — Co-ManagingMbr. (Title) — 11.15.23 (Date)

Signature (Exchange/Merger)

X _____ Title Date

Signature of Constituent Entity (Conversion)

**Please include any required or optional information in space below:**
(attach additional page(s) if necessary)

Agreement of Merger attached.

*Form will be returned if unsigned.*
*This form must be accompanied by appropriate fees.*



SAMSUNG EXHIBIT 1003, Page 999

# PLAN AND AGREEMENT OF MERGER

This Plan and Agreement of Merger ("Agreement") is entered into as of November 10, 2023 ("Effective Date") by and between KP 2 Innovations, LLC, a Texas limited liability company ("Surviving Company") and KP Innovations, LLC, a Nevada limited liability company ("Disappearing Company").

NOW, THEREFORE, parties agree as follows:

1. Plan of Merger.

a. The Surviving Company and the Disappearing Company have entered into this Plan and Agreement of Merger effective the date of the filing of the Certificate of Merger with the Secretary of State for the State of Nevada ("Original Agreement").

b. The Surviving Company and the Disappearing Company have determined that there are management, economies of scale and other business benefits in combining the two companies. It is the intent of the parties that this merger be tax-free and meets the requirements of Section 368(a)(1)(A) of the Internal Revenue Code.

c. As of the filing of the Articles of Merger (the "Effective Time"), the Disappearing Company shall be merged with and into Surviving Company under the laws of Nevada and Texas and in accordance with the terms of this Agreement. After the Effective Time, the Surviving Company shall continue the operations of the Disappearing Company without interruption. Representatives of the Surviving Company shall make the appropriate filings with the Secretary of State for the States of Nevada and Texas, as applicable, and notify creditors, if any, to the extent required.

2. Outstanding Membership Interests of Disappearing Company. Given that the members of the Surviving Company are identical in percentage of ownership as in the Disappearing Company, the membership interests of each member of the Disappearing Company shall be cancelled and the members of the Surviving Company shall be as set forth in its Operating Agreement.

3. Transfer of Assets; Assumption of Liabilities. As of the Effective Time, Disappearing Company shall, and hereby does, transfer and assign all rights, title and interests of every kind in and to all of its assets, including without limitation all its property, including without limitation all its intellectual property, including without limitation all substantial rights in and to the patents and patent application referenced in Exhibit 1 and all rights thereto, including without limitation the exclusive rights to enforce the referenced patents, to Surviving Company, and Surviving Company hereby expressly accepts all such assets, property and rights and expressly assumes all of Disappearing Company's liabilities, debts and obligations of every kind, including all contractual obligations, including without limitation contractual obligations described in one or both of the operating agreements of the Disappearing Company and Surviving Company, including without limitation obligations to Greg Piccionelli, Anna Vradenburgh, Gregory Gulliver and Ted Rittmaster.

4. Representations of Disappearing Company. Disappearing Company represents and warrants to Surviving Company as follows:



SAMSUNG EXHIBIT 1003, Page 1000

a. Disappearing Company is a corporation duly organized, validly existing and in good standing under the laws of the State of Nevada.

b. The execution and delivery of this Agreement have been authorized by the members of Disappearing Company and Disappearing Company has taken or will take all necessary actions to authorize this Agreement, to carry out the transactions and to obtain all written consents to the transactions contemplated hereby.

c. Disappearing Company has good and marketable title to all of its assets, including without limitation the patents referenced in Exhibit 1, and all other assets used in the ordinary conduct of its business, free and clear of all liens, charges, taxes or encumbrances.

d. There are currently no pending or threatened lawsuits or administrative proceedings against Disappearing Company. Disappearing Company is not subject to any currently existing order, writ, injunction or decree relating to the operation of its business.

e. No representation, warranty or statement made by Disappearing Company in or pursuant to this Agreement contains any knowingly untrue statement of a material fact or omits any material fact necessary to make such representation, warranty or statement.

5. Surviving Company's Representations and Warranties. Surviving Company represents and warrants to Disappearing Company as follows:

a. Surviving Company is a corporation organized, validly existing and in good standing under the laws of the State of Texas.

b. The execution and delivery of this Agreement have been authorized by the members of Surviving Company and Surviving Company has taken or will take all necessary actions to authorize this Agreement, to carry out the transactions and to obtain all written consents to the transactions contemplated hereby.

c. There are currently no pending or threatened lawsuits or administrative proceedings against Surviving Company to the best of its knowledge. Surviving Company is not subject to any currently existing order, writ, injunction, or decree relating to its operations to the best of its knowledge.

d. Neither the execution of this Agreement nor the consummation of the transaction contemplated hereby will, to the best of its knowledge, result in the breach of any term or provision of, or constitute a default in any agreement, indenture, instrument, order, law, or regulation to the breach of any term or provision of, or constitute a default under any agreement, indenture, instrument, order, law, or regulation to which Surviving Company is a party, or which are otherwise applicable to it.

e. No representation, warranty or statement made by Surviving Company in or pursuant to this Agreement contains any untrue statement of a material fact or omits any material fact necessary to make such representation, warranty or statement.



SAMSUNG EXHIBIT 1003, Page 1001

6. Agreement of Merger. The parties hereto shall cause the appropriate filings to be made with the Nevada Secretary of State along with all other filings required to carry out the purpose and intent of this Agreement.

7. Release. The undersigned parties, for themselves and on behalf of their respective spouses, successors, assigns, agents, servants, heirs, executors, administrators, attorneys, representatives, insurers, officers, members, members' members (in cases where a member is an limited liability company or other entity), trustees, beneficiaries, and employees, and any and all other interest holders who may be able to make a claim through him, her or it, hereby fully release and forever discharge each of the other undersigned parties and their respective spouses, successors, assigns, agents, servants, heirs, executors, administrators, attorneys representatives, insurers, members, members' members (in cases where a member is an limited liability company or other entity), trustees, beneficiaries, and employees, including but not limited to each of their respective successors and assigns, from any and all claims, counterclaims, demands, actions, causes of action, debts, liabilities, damages, costs, fees, expenses, duties, obligations, liens, petitions, suits, losses, controversies, penalties, sanctions, and offsets of any kind or nature, whether direct or indirect, liquidated or unliquidated, contingent or actual, in law or equity, and whether known, unknown or yet to be discovered, matured or unmatured ("Claims"), that may exist through the Effective Date of this Agreement. Without altering of affecting the choice of law to be used in construing and governing this Agreement which is, and shall exclusively be, as set forth in Section 8b, the undersigned parties also acknowledge that this release of all such Claims is made notwithstanding the provisions of Section 1542 of the California Civil Code, which provides as follows: "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party." The undersigned parties each represent that they understand the foregoing and expressly waive and relinquish all rights and benefits under that Section 1542 and any law or legal principal of similar effect in any jurisdiction with respect to the releases granted herein.

8. Miscellaneous.

a. If any of the provisions or portions thereof of this Agreement are held to be unenforceable or invalid by any court of competent jurisdiction, the validity and enforceability of the remainder of this Agreement and the application of such provision(s) to any other person or circumstances other than those as to which it is held invalid and/or unenforceable, shall not be affected thereby and each such other term and provision of this Agreement shall be valid and be enforceable to the fullest extent permitted by law.

b. This Agreement shall be exclusively governed by and construed under the law of the State of Texas.

c. This Agreement shall bind and inure to the benefit of the successors, assigns, heirs, beneficiaries and legatees of the parties hereto. Each party agrees to perform any and all further acts and execute and deliver any documents which may be reasonably necessary to carry out the provisions of this Agreement. This Agreement may be amended at any time by the written agreement of the parties hereto.



SAMSUNG EXHIBIT 1003, Page 1002

d. No failure by any party to insist upon the strict performance of any covenant, duty, agreement or condition of this agreement, or to exercise any right or remedy, shall constitute a waiver thereof, unless expressly waived in writing.

e. This Agreement embodies the entire understanding of the parties, and there are no further or other agreement or understandings, written or oral, in effect between the parties hereto relating to the subject matter hereof, unless expressly referred to by reference.

f. This Agreement may be executed in counterparts and will, if so executed, be considered one instrument. A signature on this Agreement transmitted by facsimile, scanned copy or email shall be deemed the equivalent of an original ink signature for all purposes.

IN WITNESS WHEREOF, the parties below have executed and delivered this Agreement as of the Effective Date set forth in the first paragraph hereof, and the Members of the Surviving and Disappearing Company hereby consent to the merger referenced herein and agree to be bound by the terms and conditions of this Agreement.

**SURVIVING COMPANY:**

**KP Innovations 2, LLC**

By: _____
Todd William Staton Klinefelter,
Co-Managing Member of
KP Innovations 2, LLC

By: _____
Jacob Glenn Klinefelter
Co-Managing Member
of KP Innovations 2, LLC

By: _____
Gregory A. Piccionelli,
as Managing Member
of Thundershield, LLC,
a Co-Managing Member of
KP Innovations 2, LLC

**DISAPPEARING COMPANY:**

**KP Innovations, LLC**

By: _____
Todd William Staton Klinefelter
Co-Managing Member of
KP Innovations, LLC

By: _____
Jacob Glenn Klinefelter
Co-Managing Member
KP Innovations, LLC

By: _____
Gregory A. Piccionelli
as Managing Member
of Thundershield, LLC,
a Co-Managing Member of
KP Innovations, LLC

(Signature page continues on next page)



SAMSUNG EXHIBIT 1003, Page 1003

**SURIVING COMPANY MEMBERS:**

Todd William Staton Klinefelter

Jacob Glenn Klinefelter

Thundershield, LLC

By
Gregory A. Piccionelli,
Managing Member of
Thundershield, LLC

**DISAPPEARING COMPANY MEMBERS:**

Todd William Staton Klinefelter

Jacob Glenn Klinefelter

Thundershield, LLC

By
Gregory A. Piccionelli,
Managing Member of
Thundershield, LLC

The following parties in their individual capacity also hereby consent to, and agree to all of the above, including without limitation, the release set forth in Section 7:

Gregory A. Piccionelli

Todd William Staton Klinefelter

Jacob Glenn Klinefelter

Anna M. Vradenburgh

Gregory A. Piccionelli
for Thundershield, LLC
(as its Managing Member)



SAMSUNG EXHIBIT 1003, Page 1004

# Exhibit 1
# Transferred Intellectual Properties and Patents

U.S. Patent Number 7,792,676

U.S. Patent Number 10,499,168

U.S. Patent Application 17/834,871 (continuation of U.S. Patent Application 16/701,129) (a.k.a.the "Lifeboat Application")



SAMSUNG EXHIBIT 1003, Page 1005

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697

Jane Nelson
Secretary of State

# Office of the Secretary of State

December 21, 2023

Loan Star Information Services
P.O. Box 2072
Austin, TX 78768 USA

RE:
KP Innovations 2, LLC ( File Number: 804553957 )

---

It has been our pleasure to approve and place on record the filing instrument effecting a merger. The appropriate evidence of filing is attached for your files. Payment of the filing fee is acknowledged by this letter.

If we can be of further service at any time, please let us know.

Sincerely,

Corporations Section
Business & Public Filings Division
(512) 463-5555

Enclosure

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697

Jane Nelson
Secretary of State

# Office of the Secretary of State

## CERTIFICATE OF MERGER

The undersigned, as Secretary of State of Texas, hereby certifies that a filing instrument merging

KP Innovations, LLC
Foreign Limited Liability Company (LLC)
Nevada, USA
[Entity not of Record, Filing Number Not Available]

Into

KP Innovations 2, LLC
Domestic Limited Liability Company (LLC)
[File Number: 804553957]

has been received in this office and has been found to conform to law.

Accordingly, the undersigned, as Secretary of State, and by the virtue of the authority vested in the secretary by law, hereby issues this certificate evidencing the acceptance and filing of the merger on the date shown below.

Dated: 12/18/2023

Effective: 12/18/2023

Jane Nelson
Secretary of State

Form 622
(Revised 12/15)
Return in duplicate to:
Secretary of State
P.O. Box 13697
Austin, TX 78711-3697
512 463-5555
FAX: 512 463-5709
Filing Fee: see instructions

This space reserved for office use.

FILED
In the Office of the
Secretary of State of Texas
DEC 18 2023
Corporations Section

# Certificate of Merger
# Combination Merger
# Business Organizations Code

## Parties to the Merger

Pursuant to chapter 10 of the Texas Business Organizations Code, and the title applicable to each domestic filing entity identified below, the undersigned parties submit this certificate of merger.

The name, organizational form, state of incorporation or organization, and file number, if any, issued by the secretary of state for each organization that is a party to the merger are as follows:

Party 1

KP Innovations 2, LLC
*Name of Organization*

The organization is a limited liability company (*Specify organizational form (e.g., for-profit corporation)*) It is organized under the laws of TX (*State*) United States (*Country*)

The file number, if any, is 0804553957 (*Texas Secretary of State file number*)

Its principal place of business is 30700 Russell Ranch Road, Suite ; Westlake Village (*City*) CA (*State*) (*Address*)

☑ The organization will survive the merger. ☐ The organization will not survive the merger.

☐ The plan of merger amends the name of the organization. The new name is set forth below.

*Name as Amended*

Party 2

KP Innovations, LLC
*Name of Organization*

The organization is a limited liability company (*Specify organizational form (e.g., for-profit corporation)*) It is organized under the laws of NV (*State*) United States (*Country*)

The file number, if any, is N/A (*Texas Secretary of State file number*)

Its principal place of business is 30700 Russell Ranch Road, Suite ; Westlake Village (*City*) CA (*State*) (*Address*)

☐ The organization will survive the merger. ☑ The organization will not survive the merger.

☐ The plan of merger amends the name of the organization. The new name is set forth below.

*Name as Amended*

Party 3

Name of Organization

The organization is a (*Specify organizational form (e.g., for-profit corporation)*) It is organized under the laws of


SAMSUNG EXHIBIT 1003, Page 1008

_____ The file number, if any, is _____

*State* *Country* *Texas Secretary of State file number*

Its principal place of business is _____

*Address* *City* *State*

☐ The organization will survive the merger. ☐ The organization will not survive the merger.

☐ The plan of merger amends the name of the organization. The new name is set forth below.

_____

*Name as Amended*

## Plan of Merger

☑ The plan of merger is attached.

*If the plan of merger is not attached, the following statements must be completed.*

## Alternative Statements

Instead of providing the plan of merger, each domestic filing entity certifies that:

1. A plan of merger is on file at the principal place of business of each surviving, acquiring, or new domestic entity or non-code organization that is named in this form as a party to the merger or an organization created by the merger.

2. On written request, a copy of the plan of merger will be furnished without cost by each surviving, acquiring, or new domestic entity or non-code organization to any owner or member of any domestic entity that is a party to or created by the plan of merger and, if the certificate of merger identifies multiple surviving domestic entities or non-code organizations, to any creditor or oblige of the parties to the merger at the time of the merger if a liability or obligation is then outstanding.

*Item 3A is the default selection. If the merger effected an amendment to, a restatement of, or an amendment and restatement of the certificate of formation of a surviving filing entity, you must select and complete one of the options shown below. Options 3B and 3C require the submission of the described attachment.*

3A. No amendments to the certificate of formation of any surviving filing entity that is a party to the merger are effected by the merger.

3B. ☐ No amendments to the certificate of formation of any filing entity are being effected by the merger or by the restated certificate of formation of the surviving filing entity named in the attached restated certificate of formation.

3C. ☐ The plan of merger effected an amendment and restatement of the certificate of formation of a surviving filing entity. The amendments being made and the name of the surviving entity restating its certificate of formation are set forth in the attached restated certificate of formation containing amendments.

3D. ☐ The plan of merger effected amendments or changes to the following surviving filing entity's certificate of formation.

_____

*Name of filing entity effecting amendments*

The changes or amendments to the filing entity's certificate of formation, other than the name change noted previously, are stated below.

SAMSUNG EXHIBIT 1003, Page 1009

*Amendment Text Area*

4. Organizations Created by Merger

The name, jurisdiction of organization, principal place of business address, and entity description of each entity or other organization to be created pursuant to the plan of merger are set forth below. The certificate of formation of each new domestic filing entity to be created is being filed with this certificate of merger.

*Name of New Organization 1* | *Jurisdiction* | *Entity Type (See instructions)*

*Principal Place of Business Address* | *City* | *State* | *Zip Code*

*Name of New Organization 2* | *Jurisdiction* | *Entity Type (See instructions)*

*Principal Place of Business Address* | *City* | *State* | *Zip Code*

*Name of New Organization 3* | *Jurisdiction* | *Entity Type (See instructions)*

*Principal Place of Business Address* | *City* | *State* | *Zip*

## Approval of the Plan of Merger

The plan of merger has been approved as required by the laws of the jurisdiction of formation of each organization that is a party to the merger and by the governing documents of those organizations.

☐ The approval of the owners or members of _____
*Name of domestic entity*
was not required by the provisions of the BOC.

## Effectiveness of Filing (Select either A, B, or C.)

A. ☑ This document becomes effective when the document is accepted and filed by the secretary of state.

B. ☐ This document becomes effective at a later date, which is not more than ninety (90) days from the date of signing. The delayed effective date is: _____

C. ☐ This document takes effect on the occurrence of the future event or fact, other than the passage of time. The 90th day after the date of signing is: _____

The following event or fact will cause the document to take effect in the manner described below:

First Filing

## Tax Certificate

☐ Attached hereto is a certificate from the comptroller of public accounts that all taxes under title 2, Tax Code, have been paid by the non-surviving filing entity.

☑ Instead of providing the tax certificate, one or more of the surviving, acquiring or newly created organizations will be liable for the payment of the required franchise taxes.

## Execution

The undersigned signs this document subject to the penalties imposed by law for the submission of a materially false or fraudulent instrument. The undersigned certifies that the statements contained herein are true and correct, and that the person signing is authorized under the provisions of the Business Organizations Code, or other law applicable to and governing the merging entity, to execute the filing instrument.

Date: December 13, 2023

KP Innovations, LLC
Merging Entity Name

Todd Klinefelter
Signature of authorized person (see instructions)

Todd William Staton Klinefelter
Printed or typed name of authorized person

KP Innovations 2, LLC
Merging Entity Name

Todd Klinefelter
Signature of authorized person (see instructions)

Todd William Staton Klinefelter
Printed or typed name of authorized person

Merging Entity Name

Signature of authorized person (see instructions)

Printed or typed name of authorized person



SAMSUNG EXHIBIT 1003, Page 1011

# PLAN AND AGREEMENT OF MERGER

This Plan and Agreement of Merger ("Agreement") is entered into as of November 10, 2023 ("Effective Date") by and between KP 2 Innovations, LLC, a Texas limited liability company ("Surviving Company") and KP Innovations, LLC, a Nevada limited liability company ("Disappearing Company").

NOW, THEREFORE, parties agree as follows:

1. Plan of Merger.

a. The Surviving Company and the Disappearing Company have entered into this Plan and Agreement of Merger effective the date of the filing of the Certificate of Merger with the Secretary of State for the State of Nevada ("Original Agreement").

b. The Surviving Company and the Disappearing Company have determined that there are management, economies of scale and other business benefits in combining the two companies. It is the intent of the parties that this merger be tax-free and meets the requirements of Section 368(a)(1)(A) of the Internal Revenue Code.

c. As of the filing of the Articles of Merger (the "Effective Time"), the Disappearing Company shall be merged with and into Surviving Company under the laws of Nevada and Texas and in accordance with the terms of this Agreement. After the Effective Time, the Surviving Company shall continue the operations of the Disappearing Company without interruption. Representatives of the Surviving Company shall make the appropriate filings with the Secretary of State for the States of Nevada and Texas, as applicable, and notify creditors, if any, to the extent required.

2. Outstanding Membership Interests of Disappearing Company. Given that the members of the Surviving Company are identical in percentage of ownership as in the Disappearing Company, the membership interests of each member of the Disappearing Company shall be cancelled and the members of the Surviving Company shall be as set forth in its Operating Agreement.

3. Transfer of Assets; Assumption of Liabilities. As of the Effective Time, Disappearing Company shall, and hereby does, transfer and assign all rights, title and interests of every kind in and to all of its assets, including without limitation all its property, including without limitation all its intellectual property, including without limitation all substantial rights in and to the patents and patent application referenced in Exhibit 1 and all rights thereto, including without limitation the exclusive rights to enforce the referenced patents, to Surviving Company, and Surviving Company hereby expressly accepts all such assets, property and rights and expressly assumes all of Disappearing Company's liabilities, debts and obligations of every kind, including all contractual obligations, including without limitation contractual obligations described in one or both of the operating agreements of the Disappearing Company and Surviving Company, including without limitation obligations to Greg Piccionelli, Anna Vradenburgh, Gregory Gulliver and Ted Rittmaster.

4. Representations of Disappearing Company. Disappearing Company represents and warrants to Surviving Company as follows:



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a. Disappearing Company is a corporation duly organized, validly existing and in good standing under the laws of the State of Nevada.

b. The execution and delivery of this Agreement have been authorized by the members of Disappearing Company and Disappearing Company has taken or will take all necessary actions to authorize this Agreement, to carry out the transactions and to obtain all written consents to the transactions contemplated hereby.

c. Disappearing Company has good and marketable title to all of its assets, including without limitation the patents referenced in Exhibit 1, and all other assets used in the ordinary conduct of its business, free and clear of all liens, charges, taxes or encumbrances.

d. There are currently no pending or threatened lawsuits or administrative proceedings against Disappearing Company. Disappearing Company is not subject to any currently existing order, writ, injunction or decree relating to the operation of its business.

e. No representation, warranty or statement made by Disappearing Company in or pursuant to this Agreement contains any knowingly untrue statement of a material fact or omits any material fact necessary to make such representation, warranty or statement.

5. Surviving Company's Representations and Warranties. Surviving Company represents and warrants to Disappearing Company as follows:

a. Surviving Company is a corporation organized, validly existing and in good standing under the laws of the State of Texas.

b. The execution and delivery of this Agreement have been authorized by the members of Surviving Company and Surviving Company has taken or will take all necessary actions to authorize this Agreement, to carry out the transactions and to obtain all written consents to the transactions contemplated hereby.

c. There are currently no pending or threatened lawsuits or administrative proceedings against Surviving Company to the best of its knowledge. Surviving Company is not subject to any currently existing order, writ, injunction, or decree relating to its operations to the best of its knowledge.

d. Neither the execution of this Agreement nor the consummation of the transaction contemplated hereby will, to the best of its knowledge, result in the breach of any term or provision of, or constitute a default in any agreement, indenture, instrument, order, law, or regulation to the breach of any term or provision of, or constitute a default under any agreement, indenture, instrument, order, law, or regulation to which Surviving Company is a party, or which are otherwise applicable to it.

e. No representation, warranty or statement made by Surviving Company in or pursuant to this Agreement contains any untrue statement of a material fact or omits any material fact necessary to make such representation, warranty or statement.



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6. Agreement of Merger. The parties hereto shall cause the appropriate filings to be made with the Nevada Secretary of State along with all other filings required to carry out the purpose and intent of this Agreement.

7. Release. The undersigned parties, for themselves and on behalf of their respective spouses, successors, assigns, agents, servants, heirs, executors, administrators, attorneys, representatives, insurers, officers, members, members' members (in cases where a member is an limited liability company or other entity), trustees, beneficiaries, and employees, and any and all other interest holders who may be able to make a claim through him, her or it, hereby fully release and forever discharge each of the other undersigned parties and their respective spouses, successors, assigns, agents, servants, heirs, executors, administrators, attorneys representatives, insurers, members, members' members (in cases where a member is an limited liability company or other entity), trustees, beneficiaries, and employees, including but not limited to each of their respective successors and assigns, from any and all claims, counterclaims, demands, actions, causes of action, debts, liabilities, damages, costs, fees, expenses, duties, obligations, liens, petitions, suits, losses, controversies, penalties, sanctions, and offsets of any kind or nature, whether direct or indirect, liquidated or unliquidated, contingent or actual, in law or equity, and whether known, unknown or yet to be discovered, matured or unmatured ("Claims"), that may exist through the Effective Date of this Agreement. Without altering of affecting the choice of law to be used in construing and governing this Agreement which is, and shall exclusively be, as set forth in Section 8b, the undersigned parties also acknowledge that this release of all such Claims is made notwithstanding the provisions of Section 1542 of the California Civil Code, which provides as follows: "A general release does not extend to claims that the creditor or releasing party does not know or suspect to exist in his or her favor at the time of executing the release and that, if known by him or her, would have materially affected his or her settlement with the debtor or released party." The undersigned parties each represent that they understand the foregoing and expressly waive and relinquish all rights and benefits under that Section 1542 and any law or legal principal of similar effect in any jurisdiction with respect to the releases granted herein.

8. Miscellaneous.

a. If any of the provisions or portions thereof of this Agreement are held to be unenforceable or invalid by any court of competent jurisdiction, the validity and enforceability of the remainder of this Agreement and the application of such provision(s) to any other person or circumstances other than those as to which it is held invalid and/or unenforceable, shall not be affected thereby and each such other term and provision of this Agreement shall be valid and be enforceable to the fullest extent permitted by law.

b. This Agreement shall be exclusively governed by and construed under the law of the State of Texas.

c. This Agreement shall bind and inure to the benefit of the successors, assigns, heirs, beneficiaries and legatees of the parties hereto. Each party agrees to perform any and all further acts and execute and deliver any documents which may be reasonably necessary to carry out the provisions of this Agreement. This Agreement may be amended at any time by the written agreement of the parties hereto.



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d. No failure by any party to insist upon the strict performance of any covenant, duty, agreement or condition of this agreement, or to exercise any right or remedy, shall constitute a waiver thereof, unless expressly waived in writing.

e. This Agreement embodies the entire understanding of the parties, and there are no further or other agreement or understandings, written or oral, in effect between the parties hereto relating to the subject matter hereof, unless expressly referred to by reference.

f. This Agreement may be executed in counterparts and will, if so executed, be considered one instrument. A signature on this Agreement transmitted by facsimile, scanned copy or email shall be deemed the equivalent of an original ink signature for all purposes.

IN WITNESS WHEREOF, the parties below have executed and delivered this Agreement as of the Effective Date set forth in the first paragraph hereof, and the Members of the Surviving and Disappearing Company hereby consent to the merger referenced herein and agree to be bound by the terms and conditions of this Agreement.

**SURVIVING COMPANY:**

**KP Innovations 2, LLC**

By: _____
Todd William Staton Klinefelter,
Co-Managing Member of
KP Innovations 2, LLC

By: _____
Jacob Glenn Klinefelter
Co-Managing Member
of KP Innovations 2, LLC

By: _____
Gregory A. Piccionelli,
as Managing Member
of Thundershield, LLC,
a Co-Managing Member of
KP Innovations 2, LLC

**DISAPPEARING COMPANY:**

**KP Innovations, LLC**

By: _____
Todd William Staton Klinefelter
Co-Managing Member of
KP Innovations, LLC

By: _____
Jacob Glenn Klinefelter
Co-Managing Member
KP Innovations, LLC

By: _____
Gregory A. Piccionelli
as Managing Member
of Thundershield, LLC,
a Co-Managing Member of
KP Innovations, LLC

(Signature page continues on next page)



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**SURIVING COMPANY MEMBERS:**

Todd William Staton Klinefelter

Jacob Glenn Klinefelter

Thundershield, LLC

By _____
Gregory A. Piccionelli,
Managing Member of
Thundershield, LLC

**DISAPPEARING COMPANY MEMBERS:**

Todd William Staton Klinefelter

Jacob Glenn Klinefelter

Thundershield, LLC

By _____
Gregory A. Piccionelli,
Managing Member of
Thundershield, LLC

The following parties in their individual capacity also hereby consent to, and agree to all of the above, including without limitation, the release set forth in Section 7:

Gregory A. Piccionelli

Todd William Staton Klinefelter

Jacob Glenn Klinefelter

Anna M. Vradenburgh

Gregory A. Piccionelli
for Thundershield, LLC
(as its Managing Member)



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## Exhibit 1
## Transferred Intellectual Properties and Patents

U.S. Patent Number 7,792,676

U.S. Patent Number 10,499,168

U.S. Patent Application 17/834,871 (continuation of U.S. Patent Application 16/701,129) (a.k.a.the "Lifeboat Application")



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