10/01/2014 503000087

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

EPAS ID: PAT3046687 Stylesheet Version v1.2

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| PETER G. ANICK | 04/17/2003 |
| ALASTAIR GOURLAY | 04/16/2003 |
| JOHN THRALL | 04/18/2002 |

RECEIVING PARTY DATA

| Name: | ALTA VISTA COMPANY |
|-----------------|---------------------|
| Street Address: | 1070 ARASTRADERO RD |
| City: | PALO ALTO |
| State/Country: | CALIFORNIA |
| Postal Code: | 94304 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 10424180 |

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: 703-770-7900

Email: docket ip@pillsburylaw.com

PILLSBURY WINTHROP SHAW PITTMAN LLP **Correspondent Name:**

Address Line 1: 1650 TYSONS BLVD, SUITE 1400

Address Line 4: MCLEAN, VIRGINIA 22102

| ATTORNEY DOCKET NUMBER: | 022994-0427145 | |
|-------------------------|----------------|--|
| NAME OF SUBMITTER: | ZHIWEI ZOU | |
| SIGNATURE: | /zhiwei zou/ | |
| DATE SIGNED: | 10/01/2014 | |

Total Attachments: 3

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> **PATENT** REEL: 033859 FRAME: 0197 503000087





JOINT - PROVISIONAL APP.

| | | ASSIGNMEN | T | ÷ | |
|--|--|--|---|---|--|
| WHEREAS, WE, PETER G. A United States, residing at 58 Blanchette Calypso Terrace, Fremont, CA 94555 INTERACTIVE SEARCH QUERY RES | Drive, Mariboro USA, respective | , MA 01752, US ely, are the inve | A; 185 Shiloh Court inters of the invent | , Boulder Creek, CA 95 tion in SYSTEMS AN | 006, USA; and 4398 D METHODS FOR |
| which is executed on ove | n date herewith o | т 🔲 | | | |
| 🛭 which is identified by Pennie & Edn | nonds LLP docket | no. 10130-044-8 | 88 | • | |
| which was filed on March 21, 2003, | Application No. | | | | |
| We hereby authorize and request (Application number, | our attorney, Gs filed <u>March 21</u> | ry S. Williams, , 2003) the filing | of Pernie & Edmon date and application | nds, LLP, , to insert he number of said applicati | re in parentheses on when known. |
| end WHEREAS, ALTA VISTA COMP transaction of business at 1070 Arastrado in, to sad under the said invention and the | ro Read, Palo Ali | o, CA 94304 AS | er the laws of the s SIGNIE is desitous | tate Delaware, and havi of obtaining our entire ri | ng an office for the ght, title and interest |
| NOW, THEREFORE, in consciousideration, the receipt of which is her these presents do hereby sell, assign, tractities tight, title and interest in, to and claiming priority thereto under 35 U.S.C. which may be granted thereon and all a without limitation, all applications for pacountries foreign to the United States, to derived from said United States applications are reconstructed from the United States applicated the property, or any other internationable; and all forms of industrial property, or any other internationable; and all forms of industrial pressures which may be granted for said treasures thereof; AND WE HEREBY authorize any country or countries foreign to the interestion on applications as aforesaid, accordance with the terms of this instrum. | why acknowledge mafer and set ove under the said in the fill (c) and direissues and extents, utility mod gether with the rition under the Pai onal agreement on reperty protection in any of the said in the said agree that we the direction and request the Cunited States, which is sue the said in | d, we, the said Air, unto the said Air, unto the said the revenue of the said the visions, remewals nations thereof; a sets, and designs aght to file such a gent Laws of the the domestic law, including, with country or country or country or country or country to the said A have full right to | SSIGNORS, have so SSIGNER, its succe- staid United States and unitinations of which may hereafter pplications and the ru- United States, the In- iss of the country in wout limitation, paten- es foreign to the Uni- ratems and Trademsa issue patents or oth SSIGNEE, its succe- | ild, assigned, transferred essors, legal representative provisional application thereof, and all Patents of the died for said inventioning the filed for said inventioning the to claim for the sar ternational Convention for hich any such applications, utility models, inventited Stores and all extending of the United States, her evidence or forms of assors, legal representatives | and set over, and by ves and assigns, our and all applications of the United States rotection, including, on in any country or to the Protection of or the Protection of on it filed, as may be tors' certificates and sions, tenewals and and any Official of industrial property ves and assigns, in |
| AND WE HEREBY further of epresentatives and assigns, any facts kn xecute all divisional, continuing, reissue sid ASSIGNEE, its successors, legal reprint IN TESTIMONY WHEREOF, We have | covenant and ag lown to us respect and foreign appresentatives and a | ree that we will sting said inventi lications, make a ssigns, to obtain a | on, and testify in ar I rightful caths, and ad embree proper pr | ny legal proceeding, sign generally do everything otection for said invention | all lawful papers, possible to aid the |
| | Compact of the contract | | July at a Abbresie on the | poetive agratures. | |
| ALC 4/16/03 | , 2003 | | | <u> </u> | LS- |
| Vitnessed Dy: | Pct | er G. Anick | | , | |
| gnature | Pris | nted Name | | | • |
| are April 16th | , 2003 Ala | | anly | | LS. |
| grature | - Prin | rik N. ned Harne | <u>Jessen</u> | | |
| | | | | | • |
| ate | , 2003 | Joseph ThroII | | | LS. |

CA1: 340310.1

Printed Name

Whoesed By:

Signature

Witnessed By:

Witnessed By:

Signature

Signature



JOINT - PROVISIONAL APP.

| ASSIGNMENT | | |
|---|--|--|
| WHEREAS, WE, PETER G. ANICK, ALASTAIR GOURLAY AND JOHN JOSEPH THRALL, ASSIGNORS, all citizens of the United States, residing at 58 Blanchette Drive, Marlboro, MA 01752, USA; 185 Shiloh Court, Boulder Creek, CA 95006, USA; and 4398 Calypso Terrace, Fremont, CA 94555 USA, respectively, are the inventors of the invention in SYSTEMS AND METHODS FOR INTERACTIVE SEARCH QUERY REFINEMENT for which we have executed an application for a Patent of the United States | | |
| □ which is executed on □ even date herewith or □ | | |
| which is identified by Pennie & Edmonds LLP docket no. 10130-044-888 | | |
| which was filed on March 21, 2003, Application No. | | |
| We hereby authorize and request our attorney, Gary S. Williams, of Pennie & Edmonds, LLP, , to insert here in parentheses (Application number,filed March 21, 2003) the filing date and application number of said application when known. | | |
| and WHEREAS, ALTA VISTA COMPANY, organized and existing under the laws of the state Delaware, and having an office for the transaction of business at 1070 Arastradero Road, Palo Alto, CA 94304 ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application: | | |
| NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States provisional application and all applications claiming priority thereto under 35 U.S.C. §119(e) and divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; | | |
| AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument. | | |
| AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith. | | |
| AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal epresentatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the aid ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries. | | |
| IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures. | | |
| Date 4/17-103 , 2003 Peter G. Anick LS. | | |
| Minesuld Dyn Laure () (Constance Anick | | |
| ignature Printed Name | | |

Alasteir Gourlay

Printed Name

John Joseph Thrall

Printed Name

CA): 340330.1





JOINT - PROVISIONAL APP.

ASSIGNMENT

WHEREAS, WE, FETER G. ANICK, ALASTAIR GOURLAY AND JOHN JOSEPH THRALL, ASSIGNORS, all citizens of the United States, residing at 58 Blanchette Drive, Marlboro, MA 01752, USA; 185 Shiloh Court, Boulder Creek, CA 95006, USA; and 4398 Calypso Terrace, Fremont, CA 94555 USA, respectively, are the inventors of the invention in SYSTEMS AND METHODS FOR INTERACTIVE SEARCH QUERY REFINEMENT for which we have executed an application for a Patent of the United States

and WHEREAS, ALTA VISTA COMPANY, organized and existing under the laws of the state Delaware, and having an office for the transaction of business at 1070 Arastradero Road, Palo Alto, CA 94304 ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and ser over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNORS, have sold, assigned, transferred and ser over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNORS, have sold, assigned, transferred and ser over, and by these previsions depleted and serious and assigns, our entire right, title and interest in, to and under the said invention, and the said United States provisional application and all paptications and all patents of the United States which may be granted thereon and all missues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the ranse the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissaes thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year art opposite our respective signatures.

| Date , 2003 | <u></u> | LS. |
|---------------------|----------------------------------|--------------|
| | Peter G. Anick | |
| Witnessed By: | | |
| Signature | Printed Name | - |
| Date, 2003 | Alastair Gourlay | LS. |
| Witnessed By: | | |
| Signature | Printed Name | _ |
| Date 4/18/2002 2003 | John Jhann John Joseph Thrail | L.S. |
| Witnessed By: | SAKINA .T. ARSIWAU | <u>a</u> . |
| Signature | Printed Name | |

CA1: 340310.1

PAGE 2/2 * RCVD AT 4/22/2003 1:29:07 PM [Pacific Daylight Time] * SVR:/1 * DNIS:1 * CSID: * DURATION (mm-ss):00-56

PATENT

REEL: 030269 FRAME: 0664

PATENT

REEL: 033859 FRAME: 0200

RECORDED: 04/23/2013

RECORDED: 10/01/2014