### 502077623 09/27/2012

### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

#### CONVEYING PARTY DATA

| Name        | Execution Date |
|-------------|----------------|
| Jian Sun    | 04/13/2011     |
| Qi Yin      | 04/13/2011     |
| Xiaoou Tang | 04/28/2011     |

### RECEIVING PARTY DATA

| Name:           | Microsoft Corporation |
|-----------------|-----------------------|
| Street Address: | One Microsoft Way     |
| City:           | Redmond               |
| State/Country:  | WA                    |
| Postal Code:    | 98052-6399            |

### PROPERTY NUMBERS Total: 1

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 13107856 |

#### CORRESPONDENCE DATA

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Correspondent Name: Lee & Hayes, PLLC

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Address Line 4: Spokane, WASHINGTON 99201

| ATTORNEY DOCKET NUMBER: | MS1-5138US  |
|-------------------------|-------------|
| NAME OF SUBMITTER:      | Lynne Mahan |

### Total Attachments: 6

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PATENT REEL: 029040 FRAME: 0593 OF \$40.00 1310/856

502077623

MS Docket No.: <u>331966.01</u> (OC Docket No.: <u>MS1-5138US</u>)

| I/WE.  | Jian Sun, Qi Yin, Xiaoou Tan   | ng, ("ASSIGNOR"), have invented subjec    | :t   |
|--|--------------------------------|---|------|
| matter ("INVENTION   | i") disclosed and/or claimed   | d in a patent application entitled "POSE  | :    |
| ROBUST RECOGNITION   | ON" ("APPLICATION"), which     | 1:  |      |
| <b>E</b> w   | ill be filed without this exec | cuted PATENT ASSIGNMENT. ASSIGNO          | IR.  |
| F16  | ereby authorizes, and reque    | ests, ASSIGNEE'S legal representatives,   | of   |
| Le   | e & Hayes, PLLC, 601 W. Ri     | iverside Avenue, Suite 1400, Spokane,     |      |
| W  | ashington 99201, who are       | associated with customer number           |      |
| 2:   | 2801, to insert here in pare   | nthesis (Application No.                  | 🐧    |
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| r.l.   | ota whoa known: NA             | 12 7011                                   |      |
| FI W   | as filed on and was give       | en Application No13 107,85                | ; (p |
| is   | filed concurrently herewith    | J.,                                       |      |
| *******  | , i                            | gton Corporation, on behalf of itself ar  | ıd   |
|  | •                              | itled to, and is desirous of acquiring, t |      |
|  |                                | the INVENTION and the APPLICATION         |      |
|  |                                | therefrom, such as continuing             |      |
|  |                                | erritories, and all foreign countries     |      |
| ("APPLICATION DER  |                                |   |      |
| 1  |                                | tion, the receipt of which is hereby      |      |
| ₩,9-   |                                |   | 3    |
| acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and |                                |   |      |
| the APPLICATION (and APPLICATION DERIVATIVES);   |                                |   |      |
|  |                                | nstruments and documents required f       | Gr.  |
|  | ***                            | ON (and APPLICATION DERIVATIVES), for     |      |
|  |                                | efrom, and for the purpose of protecti    |      |
|  | to the APPLICATION (and A      |   | н    |
| and perfecting title   | to the Arricanion (and A       | FREENING DENIVATIVES).                    |      |
| than Carre   |                                |   |      |
| Jian Sun   |                                | may 3 L 3                                 |      |
| 2202   | 4/13/20/1                      | - 1小金                                     |      |
| Inventor's Signature   | Date                           | Printed Name in Native Langua             | ge   |
|  |                                |   |      |
|  |                                |   |      |
| Qi Yin:  |                                |   |      |

**PATENT** REEL: 029040 FRAME: 0594

Printed Name in Native Language

Date

Inventor's Signature

MS Docket No.: <u>331966.01</u> (OC Docket No.: <u>MS1-5138US)</u>

| Xiaoou Tang:         |      |                                 |
|----------------------|------|---------------------------------|
|                      |      |                                 |
| Inventor's Signature | Date | Printed Name in Native Language |

Page 2 of 2

PATENT REEL: 029040 FRAME: 0595

MS Docket No.: <u>331966,01</u> (OC Docket No.: <u>MS1-5138US)</u>

| the making and p<br>litigation regardin                               | IGNOR agrees to execute al<br>prosecution of the APPLICAT<br>ng letters patent derived the<br>tie to the APPLICATION (and | I instruments and documents required for TON (and APPLICATION DERIVATIVES), for erefrom, and for the purpose of protecting APPLICATION DERIVATIVES).  Printed Name in Native Language  |
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| ASS the making and p litigation regardin and perfecting tit Jian Sun: | IGNOR agrees to execute al<br>prosecution of the APPLICAT<br>ng letters patent derived the<br>tie to the APPLICATION (and | I instruments and documents required for TON (and APPLICATION DERIVATIVES), for erefrom, and for the purpose of protecting APPLICATION DERIVATIVES).   |
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| the APPLICATION   | (and Application Degram   |  |
| THE MODIUNEE, EN  |   |  |
| · ·   |   | OR hereby sells, assigns and transfers to s, title and interest in the INVENTION and   |
| For   | good and valuable conside   | ration, the receipt of which is hereby   |
| applications, in a ("APPLICATION D                                    |   | territories, and all foreign countries   |
| (and all other app  | olications and patents derive   | ed therefrom, such as continuing   |
|   | -   | in the INVENTION and the APPLICATION   |
|   |   | ngton Corporation, on behalf of itself and ntitled to, and is desirous of acquiring, the   |
|   | is filed concurrently herew   |  |
|   | was filed on Land was gi  | 4 13,2011<br>ven Application No.€; 13/107,856  |
|   |   | APPLICATION's Application No. and filing   |
|   | 22801, to insert here in pa   | renthesis (Application No,   |
|   |   | re associated with customer number   |
|   |   | uests, ASSIGNEE'S legal representatives, of Riverside Avenue, Suite 1400, Spokane,   |
|   |   | xecuted PATENT ASSIGNMENT. ASSIGNOR  |
|   | will be filed without this as   | The commencer of the co |
| ROBUST RECOGNI  | ITION" ("APPLICATION"), whi   | ich:   |
| matter ("INVENTION ROBUST RECOGNI                                     | ON") disclosed and/or claim<br>TION" ("APPLICATION"), whi   |  |

**PATENT** REEL: 029040 FRAME: 0596

Inventor's Signature

MS Docket No.: <u>331966.01</u> (OC Docket No.: <u>MS1-5138US</u>)

| Xiaoou Tang:         |      |                                 |
|----------------------|------|---------------------------------|
|                      |      |                                 |
| Inventor's Signature | Date | Printed Name in Native Language |

Page 2 of 2

PATENT REEL: 029040 FRAME: 0597

MS Docket No.: 331966.01 (OC Docket No.: MS1-5138US)

I/WE, Jian Sun, Qi Yin, Xiaoou Tang, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "POSE-ROBUST RECOGNITION" ("APPLICATION"), which: will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Lee & Hayes, PLLC, 601 W. Riverside Avenue, Suite 1400, Spokane, Washington 99201, who are associated with customer number 22801, to insert here in parenthesis (Application No. \_ filed \_\_\_\_\_\_\_\_ this APPLICATION's Application No. and filing date, when known; MAY 13, 2011

Was filed on Eand was given Application No. E; 13 107,856 is filed concurrently herewith; Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")); For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES); ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES). Jian Sun: Inventor's Signature Date Printed Name in Native Language Qi Yin:

Page 1 of 2

Date

Inventor's Signature

PATENT REEL: 029040 FRAME: 0598

Printed Name in Native Language

MS Docket No.: <u>331966.01</u> (OC Docket No.: <u>MS1-5138US</u>)

Xiaoou Tang:

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Inventor's Signature Date Printed Name in Native Language

Page 2 of 2

PATENT REEL: 029040 FRAME: 0599

**RECORDED: 09/27/2012**