PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5025498

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| ERIK L. HOLT | 03/03/2005 |
| MATTHEW E. KOWALCZYK | 03/07/2005 |
| RUSSELL HUMPHRIES | 03/03/2005 |

RECEIVING PARTY DATA

| Name: | MICROSOFT CORPORATION |
|-----------------|-----------------------|
| Street Address: | ONE MICROSOFT WAY |
| City: | REDMOND |
| State/Country: | WASHINGTON |
| Postal Code: | 98052 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14156044 |

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.

Email: docket@bjfip.com

Correspondent Name: BARTA, JONES & FOLEY, P.C. Address Line 1: 2805 N. DALLAS PARKWAY

Address Line 2: SUITE 222

Address Line 4: PLANO, TEXAS 75093

| ATTORNEY DOCKET NUMBER: | 310805.03 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | PAOLA SEVERICH |
| SIGNATURE: | /Paola Severich/ |
| DATE SIGNED: | 06/26/2018 |

Total Attachments: 4

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PATENT 504978752 REEL: 046209 FRAME: 0001

MS Docket No. 310805.01 OC Docket No. 003797.01183

PATENT ASSIGNMENT

riem mennege weip;

| WE, Erik L. Holt, Matthew E. Kowalczyk, and Russell Humphries |
|--|
| ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in |
| a patent application entitled "IMAGE OR PICTOGRAPHIC BASED COMPUTER LOGIN |
| SYSTEMS AND METHODS" ("APPLICATION"), which: |
| will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR |
| hereby authorizes, and requests, ASSIGNEE'S legal representatives, of |
| Banner & Witcoff, LTD., 1001 G Street NW, Eleventh Floor, |
| Washington, DC 20001-4597, who are associated with customer |
| number 28319, to insert here in parenthesis (U.S. Serial No. 11/073742 |
| , filed 3/8/2005 this APPLICATION's U.S. Serial Number |
| and filing date, when known; |
| was filed on and was given U.S. Serial No; |
| 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). |
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| |
| DATE Erik L. Holt |
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| Page 1 of 2 |
| 1 MBO 1 WA |

PATENT REEL: 046209 FRAME: 0002

MS Docket No. 310805.01 OC Docket No. 003797.01183

DATE 3-07-2005

Matthew E. Kowalczyk

DATE

Russell Humphries -

PATENT ASSIGNMENT

| WE, Erik L. Holt, | Matthew E. Kowalczyk, and Russell Humphries |
|-----------------------------------|---|
| ("ASSIGNOR"), have invented si | bject matter ("INVENTION") disclosed and/or claimed in |
| | MAGE OR PICTOGRAPHIC BASED COMPUTER LOGIN |
| SYSTEMS AND METHODS" ("AP | LICATION"), which: |
| | vithout this executed PATENT ASSIGNMENT. ASSIGNOR |
| | rizes, and requests, ASSIGNEE'S legal representatives, of |
| | off, LTD., 1001 G Street NW, Eleventh Floor, |
| | DC 20001-4597, who are associated with customer |
| • | 9, to insert here in parenthesis (U.S. Serial No. 11/073742 |
| | 3/8/2005 this APPLICATION's U.S. Serial Number |
| | e, when known; |
| | and was given U.S. Serial No; |
| | rrently herewith; |
| Microsoft Corpor | tion, a Washington Corporation, on behalf of itself and |
| | SIGNEE'), is entitled to, and is desirous of acquiring, the |
| | and interest in the INVENTION and the APPLICATION |
| | patents derived therefrom, such as continuing |
| | ted States, its territories, and all foreign countries |
| ("APPLICATION DERIVATIVES")) | |
| For good and val | able consideration, the receipt of which is hereby |
| | , the ASSIGNOR hereby sells, assigns and transfers to |
| the ASSIGNEE, the entire and e | clusive rights, title and interest in the INVENTION and |
| the APPLICATION (and APPLICA | |
| ASSIGNOR agrees | to execute all instruments and documents required for |
| the making and prosecution of | the APPLICATION (and APPLICATION DERIVATIVES), for |
| litigation regarding letters pate | nt derived therefrom, and for the purpose of protecting |
| and perfecting title to the APPL | CATION (and APPLICATION DERIVATIVES). |
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| | Trianguisia. |
| DATE 3-3-05 | Erik L. Holt |
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Page 1 of 2

PATENT REEL: 046209 FRAME: 0004 DATE

. 3-3-05

DATE

Matthew E. Kowalczyk

Pussali Humphries

Page 2 of 2

RECORDED: 06/26/2018