| Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008) | U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office | | |
|--|--|--|--|
| RECORDATION FO | MS1 - 3332US | | |
| To the Director of the U.S. Patent and Trademark Office: Plea | se record the attached documents or the new address(es) below. | | |
| 1. Name of conveying party(ies) Vick B. Mukherjee 6/1/2007 | 2. Name and address of receiving party(ies) Name: Microsoft Corporation | | |
| Yikang Xu 6/1/2007 | Internal Address: | | |
| John T. Spivey 6/1/2007 Additional name(s) of conveying party(ies) attached? ✓ Yes No | | | |
| 3. Nature of conveyance/Execution Date(s): | Street Address: One Microsoft Way | | |
| Execution Date(s) Listed in Box 1 above. | | | |
| Assignment Merger | City: <u>Redmond</u> | | |
| Joint Research Agreement | State: WA | | |
| Government Interest Assignment | | | |
| Executive Order 9424, Confirmatory License | Country: <u>US</u> Zip: <u>98052</u> | | |
| | | | |
| | Additional name(s) & address(es) attached? | | |
| 4. Application or patent number(s): This A. Patent Application No.(s) | document is being filed together with a new application. B. Patent No.(s) | | |
| 11/756,542 filed 5/31/2007 | | | |
| Additional numbers at 5. Name and address to whom correspondence | ttached? Yes INO 6. Total number of applications and patents | | |
| concerning document should be mailed: | involved: 1 | | |
| Name:Lee & Hayes, PLLC | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 | | |
| Internal Address: | Authorized to be charged by credit card | | |
| | Authorized to be charged to deposit account | | |
| Street Address: 421 W Riverside Ave Ste 500 | | | |
| | None required (government interest not affecting title | | |
| City: <u>Spokane</u> | 8. Payment Information | | |
| State: <u>WA</u> Zip: <u>99201</u> | a. Credit Card Last 4 Numbers <u>1109</u> Expiration Date <u>06/11</u> | | |
| Phone Number: <u>509-324-9256</u> | h. Deposit Account Number | | |
| Fax Number: <u>509-323-8979</u> | b. Deposit Account Number | | |
| Email Address: | | | |
| 9. Signature: | | | |
| David M. Huntley Reg # Name of Person Signing | 40309 Total number of pages including cover sheet, attachments, and documents: | | |

PATENT REEL: 019574 FRAME: 0476

.

| | | Recordation Form Cover Sheet Additional Pages | | MS1 - 3332US |
|----------------|---------------|--|----------------|--------------|
| Patent A | pplication No | , | Patent No. | |
| 11/756,542 | filed | 5/31/2007 | | |
| <u>Name of</u> | Conveying P | arties | Execution Date | |
| | John S. Holme | es, III | 5/31/2007 | |

MS Docket No. 318164.01 (OC Docket No. MS1-3332US)

PATENT ASSIGNMENT

WE, Vick B. Mukherjee, Yikang Xu, John T. Spivey, and John S. Holmes, III ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Strategies for Compressing information Using Bloom Filters" ("APPLICATION"), which:

will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Lee & Hayes, PLLC, 421 W. Riverside Avenue, Suite 500, Spokane, Washington 99201, who are associated with customer number 22801, to insert here in parenthesis (U.S. Serial No. filed _____) this APPLICATION's U.S. Serial Number and filing date, when known:

₩ was filed on <u>5/31/2007</u> and was given U.S. Serial No. <u>11/756,542</u>; 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).

2000

DATE

DATE

June

DATE

ƙang Xu

n T. Spivev

John S. Holmes, III

Page 1 of 1

DATE

MS Docket No. 318164.01 (OC Docket No. MS1-3332US)

PATENT ASSIGNMENT

WE, Vick B. Mukherjee, Yikang Xu, John T. Spivey, and John S. Holmes, III ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Strategies for Compressing Information Using Bloom Filters" ("APPLICATION"), which:

was filed on 5/31/2007 and was given U.S. Serial No. 11/756.542; 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).

DATE

6/1/2007

DATE

DATE

Yikang Xu

John T. Spivey

DATE

John S. Holmes, III

Page 1 of \$

P.06/06 P.**04/04**

MS Docket No. 318164.01 (OC Docket No. MS1-3332US)

PATENT ASSIGNMENT

WE, Vick B. Mukherjee, Ylkang Xu, John T. Spivey, and John S. Holmes, III ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Strategies for Compressing information Using Bloom Filters" ("APPLICATION"), which:

will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Lee & Hayes, PLLC, 421 W. Riverside Avenue, Suite 500, Spokane, Washington 99201, who are associated with customer number 22801, to insert here in parenthesis (U.S. Serial No. 11/756,542, filed 5/31/2007) 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).

DATE

Vick B. Mukherjee

DATE

Yikang Xu

DATE

51107

DATE

John T. Spivey

John S. Holmes, III

Page 1 of 1

RECORDED: 07/17/2007

** TOTAL PAGE, 04 ** PATENT

##