

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the application number from 13804715 to 13833714 previously recorded on Reel 030048 Frame 0843. Assignor(s) hereby confirms the conveyance to Microsoft Corporation.										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Philip W. Kelley</td> <td>03/14/2013</td> </tr> <tr> <td>Taylor Anthony Lafrinere</td> <td>03/13/2013</td> </tr> <tr> <td>Kevin Daniel Resnick</td> <td>03/13/2013</td> </tr> </tbody> </table>		Name	Execution Date	Philip W. Kelley	03/14/2013	Taylor Anthony Lafrinere	03/13/2013	Kevin Daniel Resnick	03/13/2013		
Name	Execution Date										
Philip W. Kelley	03/14/2013										
Taylor Anthony Lafrinere	03/13/2013										
Kevin Daniel Resnick	03/13/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Microsoft Corporation</td> </tr> <tr> <td>Street Address:</td> <td>One Microsoft Way</td> </tr> <tr> <td>City:</td> <td>Redmond</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98052</td> </tr> </table>		Name:	Microsoft Corporation	Street Address:	One Microsoft Way	City:	Redmond	State/Country:	WASHINGTON	Postal Code:	98052
Name:	Microsoft Corporation										
Street Address:	One Microsoft Way										
City:	Redmond										
State/Country:	WASHINGTON										
Postal Code:	98052										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13833714</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13833714						
Property Type	Number										
Application Number:	13833714										
CORRESPONDENCE DATA											
Fax Number: 8013281707 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 801-533-9800 Email: docketing@wnlaw.com, abrimhall@wnlaw.com Correspondent Name: WORKMAN NYDEGGER/MICROSOFT Address Line 1: 60 E. South Temple Address Line 2: Suite 1000 Address Line 4: Salt Lake City, UTAH 84111											
ATTORNEY DOCKET NUMBER:	13768.2284										
NAME OF SUBMITTER:	J. LaVar Oldham										

OP \$40.00 13833714

Total Attachments: 11

source=13768_2284_Executed_Assignment#page1.tif
source=13768_2284_Executed_Assignment#page2.tif
source=13768_2284_Executed_Assignment#page3.tif
source=13768_2284_Executed_Assignment#page4.tif
source=13768_2284_Executed_Assignment#page5.tif
source=13768_2284_Executed_Assignment#page6.tif
source=13768_2284_Clean_Coversheet#page1.tif
source=13768_2284_Clean_Recordation#page1.tif
source=13768_2284_Clean_Recordation#page2.tif
source=13768_2284_Corrected_Coversheet1#page1.tif
source=13768_2284_Annotated_Assignment#page1.tif

I Philip W. Kelley ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "EFFICIENT DVCS STORAGE SYSTEM" ("APPLICATION"), which:

☒ will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on March 15, 2013 and given Application No. 13/833,714 by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;

☐ was filed on _____ and was given Application No. _____ by the following Office "_____";

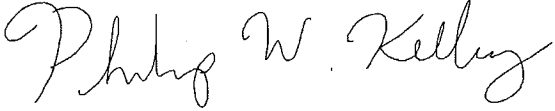
Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office

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, ASSIGNOR's 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).

	<u>03/14/2013</u>
Inventor's Signature	Date
<u>Philip W. Kelley</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

I Taylor Anthony Lafrinere ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "EFFICIENT DVCS STORAGE SYSTEM" ("APPLICATION"), which:

☒ will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on March 15, 2013 and given Application No. 13/833,714 by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;

☐ was filed on _____ and was given Application No. _____ by the following Office " _____";

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"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office

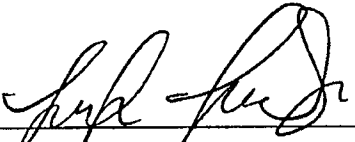
PATENT ASSIGNMENT

MS Docket No.: 338738.01

WN Docket No. 13768.2284

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, ASSIGNOR's 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).

 _____ Inventor's Signature	<u>3/13/13</u> _____ Date
<u>Taylor Anthony Lafrinere</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

I Kevin Daniel Resnick ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "EFFICIENT DVCS STORAGE SYSTEM" ("APPLICATION"), which:

☒ will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on March 15, 2013 and given Application No. 13/833,714 by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;

☐ was filed on _____ and was given Application No. _____ by the following Office " _____ ";

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"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office

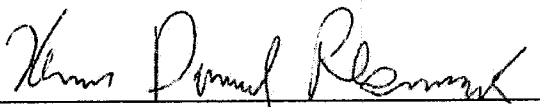
PATENT ASSIGNMENT

MS Docket No.: 338738.01

WN Docket No. 13768.2284

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, ASSIGNOR's 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).

	<u>3/13/2013</u>
Inventor's Signature	Date
<u>Kevin Daniel Resnick</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Philip W. Kelley</td> <td>03/14/2013</td> </tr> <tr> <td>Taylor Anthony Lafrinere</td> <td>03/13/2013</td> </tr> <tr> <td>Kevin Daniel Resnick</td> <td>03/13/2013</td> </tr> </tbody> </table>		Name	Execution Date	Philip W. Kelley	03/14/2013	Taylor Anthony Lafrinere	03/13/2013	Kevin Daniel Resnick	03/13/2013		
Name	Execution Date										
Philip W. Kelley	03/14/2013										
Taylor Anthony Lafrinere	03/13/2013										
Kevin Daniel Resnick	03/13/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Microsoft Corporation</td> </tr> <tr> <td>Street Address:</td> <td>One Microsoft Way</td> </tr> <tr> <td>City:</td> <td>Redmond</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98052</td> </tr> </table>		Name:	Microsoft Corporation	Street Address:	One Microsoft Way	City:	Redmond	State/Country:	WASHINGTON	Postal Code:	98052
Name:	Microsoft Corporation										
Street Address:	One Microsoft Way										
City:	Redmond										
State/Country:	WASHINGTON										
Postal Code:	98052										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13804715</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13804715						
Property Type	Number										
Application Number:	13804715										
CORRESPONDENCE DATA											
Fax Number: 8013281707 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 801-533-9800 Email: docketing@wnlaw.com, abrimhall@wnlaw.com Correspondent Name: WORKMAN NYDEGGER/MICROSOFT Address Line 1: 60 E. South Temple Address Line 2: Suite 1000 Address Line 4: Salt Lake City, UTAH 84111											
ATTORNEY DOCKET NUMBER:	13768.2284										
NAME OF SUBMITTER:	J. LaVar Oldham										
Total Attachments: 10 source=13768_2285_Assignment#page1.tif											

OP \$40.00 13804715



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 21, 2013

PTAS

WORKMAN NYDEGGER/MICROSOFT
60 E. SOUTH TEMPLE
SUITE 1000
SALT LAKE CITY, UT 84111

502278980

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/20/2013

REEL/FRAME: 030048/0843
NUMBER OF PAGES: 12

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 13768.2284

ASSIGNOR:

KELLEY, PHILIP W.

DOC DATE: 03/14/2013

ASSIGNOR:

LAFRINERE, TAYLOR ANTHONY

DOC DATE: 03/13/2013

ASSIGNOR:

RESNICK, KEVIN DANIEL

DOC DATE: 03/13/2013

ASSIGNEE:

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WASHINGTON 98052

APPLICATION NUMBER: 13804715

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: SELECTION AND DISPLAY OF ALTERNATIVE SUGGESTED SUB-STRINGS IN A QUERY

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Philip W. Kelley	03/14/2013
Taylor Anthony Lafrinere	03/13/2013
Kevin Daniel Resnick	03/13/2013
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:	13804715 13833714
CORRESPONDENCE DATA	
Fax Number:	8013281707
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	801-533-9800
Email:	docketing@wnlaw.com, abrimhall@wnlaw.com
Correspondent Name:	WORKMAN NYDEGGER/MICROSOFT
Address Line 1:	60 E. South Temple
Address Line 2:	Suite 1000
Address Line 4:	Salt Lake City, UTAH 84111
ATTORNEY DOCKET NUMBER:	13768.2284
NAME OF SUBMITTER:	J. LaVar Oldham
Total Attachments: 10 source=13768_2285_Assignment#page1.tif	

OP \$40.00 13804715



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 21, 2013

PTAS

WORKMAN NYDEGGER/MICROSOFT
60 E. SOUTH TEMPLE
SUITE 1000
SALT LAKE CITY, UT 84111

502278980

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/20/2013

REEL/FRAME: 030048/0843
NUMBER OF PAGES: 12

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 13768.2284

ASSIGNOR:

KELLEY, PHILIP W.

DOC DATE: 03/14/2013

ASSIGNOR:

LAFRINERE, TAYLOR ANTHONY

DOC DATE: 03/13/2013

ASSIGNOR:

RESNICK, KEVIN DANIEL

DOC DATE: 03/13/2013

ASSIGNEE:

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WASHINGTON 98052

APPLICATION NUMBER: ~~13804715~~ 13833714

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: SELECTION AND DISPLAY OF ALTERNATIVE SUGGESTED SUB-STRINGS IN A QUERY